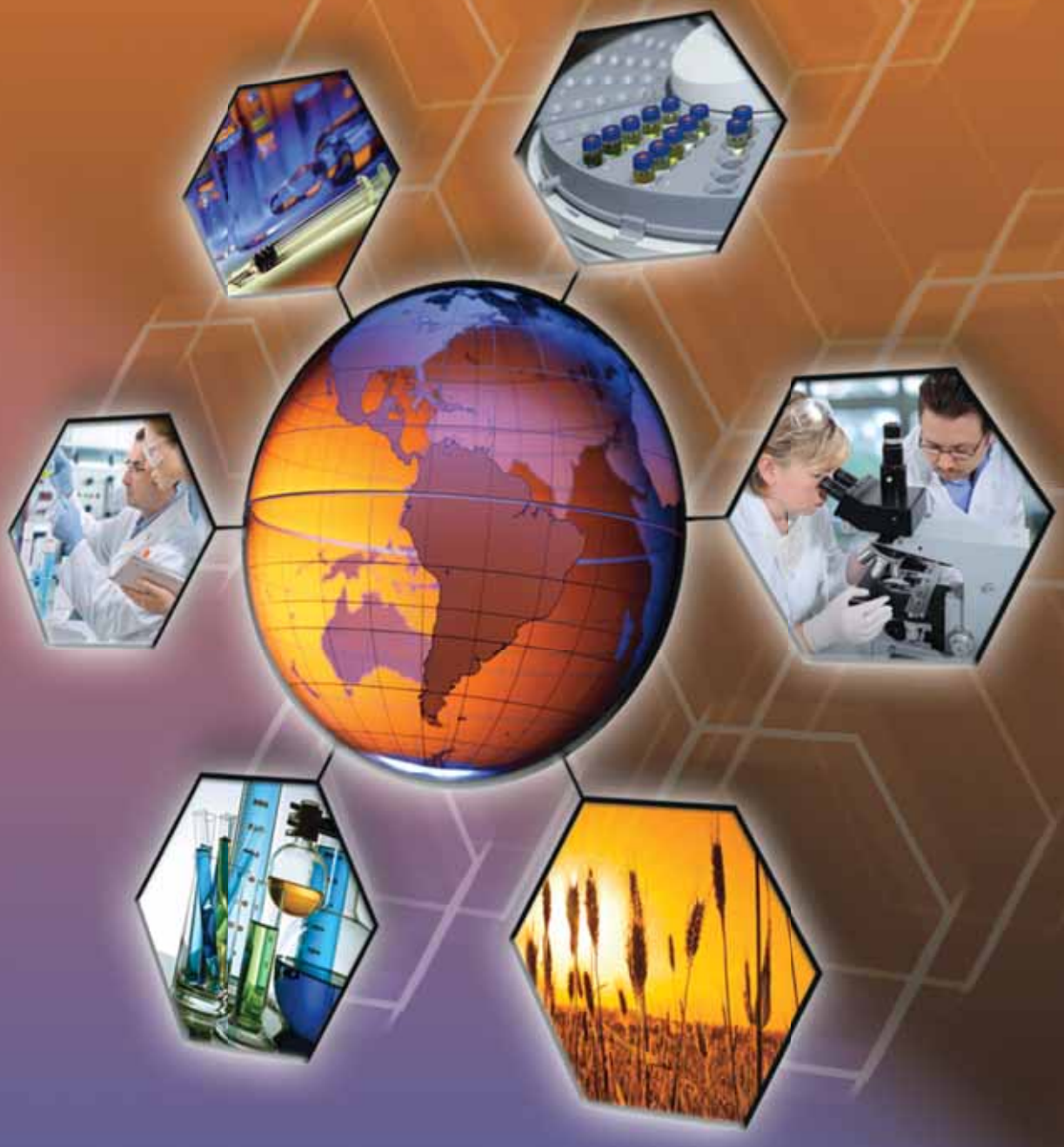
Chem Service inc

Environmental & Analytical Standards

Chemicals in Small Quantities



Welcome to the 2012-2013 Chem Service Inc. ENVIRONMENTAL, ANALYTICAL AND CHEMICALS in SMALL QUANTITIES CATALOG

Chem Service remains the foremost provider of Analytical Standards including Pesticides and Metabolites in small quantities for laboratories throughout the world. Let our teams of experts in the fields of Sales, Synthesis, Analytical, and Shipping, provide you with the finest selection of Analytical Standards available in both small quantities and in solution.

As Chem Service enters its fifth decade as the industry leader in providing the finest in purified, certified, analytical standards to laboratories, I am proud to introduce the latest Chem Service General Catalog which contains our most extensive collection of products to date.

To make it easier for you to find the chemicals that you need, we have added Chemical Abstracts Service (CAS) numbers within both the alphabetical listing in the beginning, as well as in a new, separate section towards the back of the catalog.

The alphabetical section lists all of the inorganic, organic, pesticides with their corresponding metabolites, and other chemicals together to expedite your search for the Chem Service catalog number. You can also search our website to find products by CAS number, EPA Method number, and chemical or trade name. In addition, we recognize the importance of not only offering a large selection of products, but also of having the most requested products available to be shipped to you the same day, if ordered before 4:00 PM Eastern Time.

At Chem Service, we have always felt the success of our business has been based upon our commitment to provide you the highest quality in our products and services. We are recognized worldwide for the excellence of our neat materials as well as for our standard and custom solutions and mixtures. We look forward to continuing our commitment to providing every customer with personal and polite customer service. As it always has been at Chem Service, your phone call will be answered by a person and not by a machine, during normal business hours, so if you cannot find the item that you are searching for, then feel free to have one of our sales representatives assist you via our phone or fax numbers.

Feel assured that the extensive line of products being offered, and our commitment to excellence, will exceed your expectations. If you have any questions or requests for new products or materials, which you were unable to locate in our catalog, please feel free to call, fax, or e-mail us your request. We look forward to using our expertise to assist you.

Lyle H. Phifer, Ph.D.
President

Chem Service inc



2012 - 2013 Catalog Highlights

- Environmental Standards
- Over 100 New Pesticides/Metabolites
- EPA/CLP Test Mixtures
- Custom Solution Form
- Pesticide Solutions - 1mL Size
- Phthalates
- CAS Index
- PCB Compounds
- Deuterated and C13 Standards
- Literature
  - Reagent Chemicals
  - Pesticide Manual
  - Crop Protection Handbook
  - Merck Index

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Chem Service is Committed to Quality and to Our Customers

QUALITY RECOGNITION

Chem Service is recognized worldwide for the quality of the materials we provide. We have maintained ISO 9001 and ISO 17025 accreditation. This stringent level of compliance applies to all our internal design, development, production, distribution, and servicing of organic neat and synthetic reference materials which we supply to our customers.

QUALITY STANDARDS

Chem Service provides Certificates of Analysis for our Standards Grade pesticide and metabolite standards in accordance with our internal policy requirements and ISO 9001 and ISO 17025 Quality System Requirements. Our neat chemical certification policy states that purity and identification must be established independently by performing three or more (when feasible) separate analyses before we certify any of our neat products. More than 95% of our neat Standards Grade materials have a certified purity of 98.0% or greater. Our pesticide standards, whether sold as neat products or as solutions, are certified for purity, identity, stability, and are traceable by lot.

QUALITY ASSURANCE

Our internal quality program utilizes our company's years of experience in providing laboratories with highly purified materials for reference standards. Our experience has enabled us to identify "problem" materials that need special attention. For example, any potential peroxide former is tested frequently for peroxide formation to assure both purity and safety. Moreover, with our expertise in analyte compatibility, solubility, solution stability, and analysis, Chem Service is uniquely qualified to provide your customized solutions and mixture standards.

QUALITY TESTING

Our on-going stability testing program for Standards Grade materials has additional benefits for our customers. We will supply neat standards only when they have a minimum of two-thirds of the shelf-life remaining on their lot certification. If our stability testing shows the material has a purity or stability problem which affects its expiration date, we notify our customers and offer a replacement. Chem Service is committed to supplying quality products and services to our customers.

Your Chem Service customer account number (CAN#) _____

HOW TO PLACE ORDERS

You have several options on how to place an order with Chem Service.

STOCK AND CUSTOM ORDERS

- **Phone Orders** 1-800-452-9994 or 1-610-692-3026
- **Mail Orders** P.O. Box 599, West Chester, PA 19381-0599
- **Fax Orders** 1-610-692-8729
- **Email orders** info@chemservice.com

We have included forms for general orders and for custom orders on the following pages. You can copy these forms and fill in the indicated information.

ORDERING INFORMATION – PHONE ORDERS

ORDERING INFORMATION

Chem Service's business hours are Monday - Thursday 8:00 AM to 6:00 PM ET and 8:00AM - 5:00PM ET Friday for ordering and support of all products.

To facilitate the rapid placement of an order, please have your Chem Service customer account number available. We recommend placing this number on the CAN# line at the top of this page.

To avoid errors, please state the catalog number and associated catalog name for each item being purchased. At the end of each order, your Chem Service representative will state the order reference number. Please document this reference number for future order status. Generally a mail or fax confirming order is not necessary for phone orders. If a confirming order is sent, please indicate that it is confirming and indicate our order reference number.

Prices are F.O.B. West Chester, PA, net 30 days. Sizes and Prices are subject to change without notice.

RUSH ORDERS (*SAME DAY SHIPMENT*)

Chem Service will accept rush orders for any in-stock Chem Service item until 4 PM ET, for next day delivery by Federal Express or UPS. This service is provided free of charge to all Chem Service customers. Please inform your sales representative whether you are placing a rush order and your preferred carrier. Chem Service, Inc. assumes no liability except for due diligence in handling and shipping of rush orders

NEW CUSTOMERS

Until credit has been established, we request that first orders over $100 be shipped C.O.D., be held for check in advance, or be paid for by credit card. A credit application must be completed and received by Chem Service, Inc. prior to the shipment of all first time orders.

INTERNATIONAL CUSTOMERS

Company policy on payment is check in advance, wire transfer or credit card, covering all chemicals, shipping and documentation fees. Check to be drawn on a US Bank in US Funds. A documentation fee may be charged for any additional paperwork required for shipment. Please advise us of any special documentation or handling requirements in advance of order. All applicable duties and taxes are the responsibility of the recipient.

REPLACEMENT POLICY

Prior to the expiration date shown on the label and exclusive of any customer contamination, Chem Service will replace any product showing purity or concentration degradation. You must advise our Customer Service Department immediately to receive approval and instructions on either disposal or return of the product. Call 1-800-452-9994.

PRODUCT DOCUMENTATION

CERTIFICATE OF ANALYSIS (COA) - With the purchase of any Chem Service "Standards Grade" environmental, pesticide, organic chemicals, solutions or mixtures, a COA will be provided free of charge, where available. COAs are available for kits, but need to be requested at the time of order. Please note that "Standards Grade" products assigned a purity of tech, will not receive a COA. A nominal fee will be charged for COAs for "Reference Grade" materials, when available. COAs are not available for "Tech Grade" and "No Grade" products.

MATERIAL SAFETY DATA SHEETS (MSDS) - MSDS are shipped in the box with the chemicals, exceeding OSHA's requirements. For additional copies, replacement copies, updated versions or MSDS in advance of an order, Chem Service will supply up to ten (10) total MSDS at no charge. Further requests for quantities greater than ten will incur a labor and processing charge based on the size of the request and the time required to process the MSDS.

WARNING - READ YOUR MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR USING ANY CHEMICALS.

For information on **TERMS & CONDITIONS OF SALE, RETURNS, and TECHNICAL ASSISTANCE,** please refer to pages 334-337.

WE ACCEPT... VISA MasterCard AMERICAN EXPRESS

Chem Service inc

STANDARD FAX ORDER FORM

(Photocopy for repeated use)

P.O. BOX 599
WEST CHESTER, PA 19381, USA
PHONE: 610-692-3026
FAX: 610-692-8729

TERMS: NET 30 F.O.B. WEST CHESTER / D.U.N.S. 04-225-5869 • EMPLOYER I.D.# 23-1644855

DATE _____ PURCHASE ORDER NO.# _____

CONTACT NAME _____ COMPANY NAME _____

CHEM SERVICE ACCOUNT NO.# _____ DEPT. _____

PHONE _____

SHIP TO:

ATTENTION: _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____ FAX _____ EMAIL _____

BILL TO:

ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____ FAX _____ EMAIL _____

SHIPPING INFO:

DATE NEEDED _____ SHIP VIA: _____

QUOTE NO.# _____ UPS or FEDEX ACCT. NO.#: _____

CATEGORY NO.	QUANTITY	UNIT	DESCRIPTION

WE ACCEPT.... VISA MasterCard AMERICAN EXPRESS

CREDIT CARD: _____ ACCT.#: _____ EXP. DATE: ____/____/____

CARD HOLDER _____ BILLING ZIP CODE#: _____

NOTICE: All orders are provided subject to the Terms and Conditions of Sale which appear in the Chem Service Catalog, on the back of each Packaging List, and on our web site, www.chemservice.com. THERE ARE LIMITATIONS OF WARRANTIES IN THESE TERMS INCLUDING BUT NOT LIMITED TO THE CONDITION THAT THERE IS NO EXPRESS NOR IMPLIED WARRANTY OF MERCHANTABILITY NOR FITNESS FOR A PRACTICAL PURPOSE. There is also no warranty as to the analysis of the product nor the result that will be obtained from its use except as may be set forth in the Terms and Conditions of Sale.

Chem Service

Request Form

Chem Service Custom Solutions and Mixture Form

ACCOUNT NUMBER _____ DATE _____

CUSTOMER NAME _____ COMPANY NAME _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____ FAX _____ EMAIL _____

If reordering a custom standard please provide Part# or Quote# _____

EPA METHOD

Chem Service, Inc. • Attn: Custom Standards • P.O. Box 599 • West Chester, PA 19381-0599

Fax#: (610) 692-8729 or Email us: info@chemservice.com

	ANALYTE	CATALOG #	CAS#	CONCENTRATION
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				

TOTAL # OF ANALYTES: _____

DESIRED CONCENTRATION AND SOLVENT: _____

VOLUME (***check one***)**:** 1mL_____ 2mL_____ 5mL_____ 10mL_____ Other_____ # of Units: _____

MSDS provided with all standards. *Amber Ampules used unless specified otherwise:* _____

DOCUMENTATION ***(check one):***

❑ **Gravimetric Certification:** Guarantees the analytes in the custom standard to be made within ± 5% of specifications.

❑ **Quantitative Certification:** Includes verification of the concentration and peak identification.

All mixtures are prepared in accordance with our ISO 9001 & ISO 17025 registration. All analytes are certified >/= 98% unless noted. Corrections are made to 100% purity.

It is often necessary to make a dilution of your chemicals in order to analyze them. Dilutions can be made in one of three manners: weight/weight, weight/volume and volume/volume. The most common of these is weight/volume. The units of measurement used are commonly expressed in parts per million (ppm), or parts per billion (ppb). For weight/weight, it is expressed as 1ppm = 1ug/g, for weight/volume, 1ppm = 1ug/mL, and for volume/volume, 1ppm = 1ul/L. Chem Service supplies most of their solutions at a concentration of 0.1mg/mL (100ug/mL or 100ppm). In order to make a solution at a concentration of 100ppm, starting with a pure chemical, you need to know your final volume. Then if the material is a solid, the calculations are:

0.1mg/mL (final concentration) x 100mL (final volume) = weight of chemical needed (10mg)

$$\frac{FC \times FV}{} = W$$

If the material is a liquid, it is usually easier to convert to a liquid measurement (i.e. ul), for handling purposes. Therefore, the density is needed and the calculations are:

$$\frac{0.1\text{mg/mL (final conc.)} \times 100\text{mL (final volume)}}{d} = \text{volume (number of ul) of chemical needed [density (mg/ul)]}$$

$$\frac{FC \times FV}{d} = V$$

If you need to make a further dilution from a prepared solution, the calculations would be basically the same format. For example, to dilute 100ppm to 1ppm, take a 1mL aliquot of 0.1mg/mL (100ppm) solution, and dilute to your final volume (100mL).

$$\frac{0.1\text{mg/mL (initial concentration)} \times 1\text{mL (volume injected)}}{100\text{mL (final volume)}} \times \frac{1000\text{ug}}{1\text{mg}} \text{ (conversion factor)} = 1\text{ug/mL (final concentration)}$$

$$\frac{IC \times VI \times CF}{FV} = FC$$

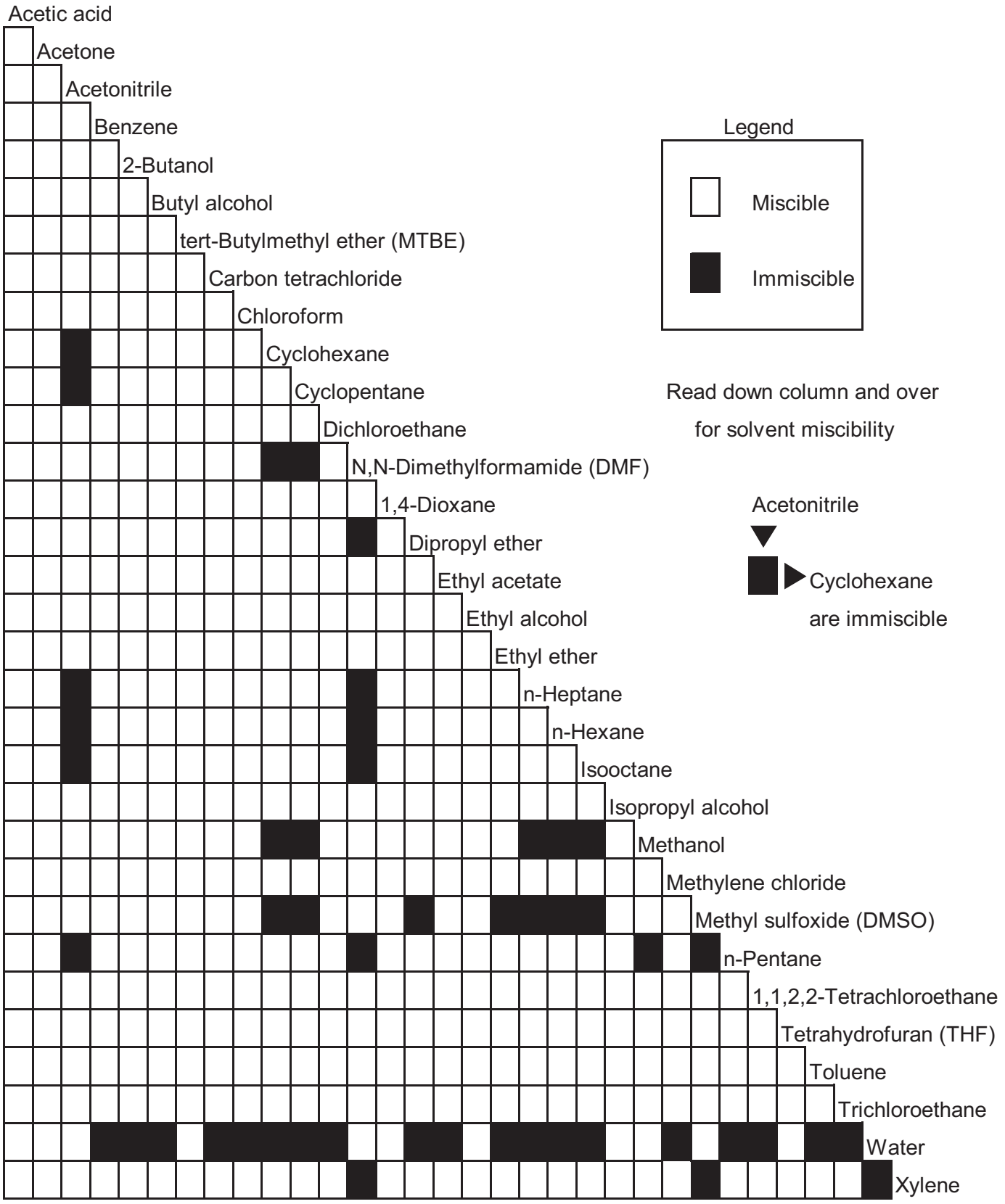
The above formula gives the final concentration for the solution. The formula to obtain the volume to inject in order to make the dilution for this final volume is:

$$\frac{FC \times FV \times CF}{IC} = VI$$

As one can see, these calculations can be manipulated to allow you to achieve any final volume or concentration you need. They can also be used to convert to other types of concentrations (weight/weight or volume/volume).

LEGEND

FC	=	final concentration	**IC**	=	initial concentration
FV	=	final volume	**VI**	=	volume injected
W	=	weight needed	**CF**	=	conversion factor
d	=	density	**V**	=	volume needed



Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Chemicals in Small Quantities

Chem Service specializes in providing chemicals in small quantities. This allows you to order only what you need, when you need it… from us… the leader in small quantity chemical supply. With our small quantity neat chemicals, you can reduce your need for storage space, as well as your cost of waste disposal.

Chem Service products are manufactured in conformance to ISO 9001:2008 and our laboratory is accredited to ISO/IEC 17025-2005.

As always at Chem Service, if you have any questions or requests for new products or materials, please feel free to call, fax or visit our website at **www.chemservice.com**



Chem Service inc

Category Name	Specification	Catalog#	Size	CAS#
Austral		PS-1072	100mg	**70124-77-5**
Aatrex™		PS-380	250mg	**1912-24-9**
Abamectin		PS-2068	100mg	**71751-41-2**
	100ug/mL in Acetonitrile	PS-2068AJS	1mL	
Abaphos™		PS-665	100mg	**3383-96-8**
Abar™		PS-677	100mg	**21609-90-5**
Abat™		PS-665	100mg	**3383-96-8**
Abate™		PS-665	100mg	**3383-96-8**
	100ug/mL Acetonitrile	PS-665AJS	1mL	
	100ug/mL in Toluene	PS-665JS	1mL	
Abathion™		PS-665	100mg	**3383-96-8**
Abietic acid (TECH)		S-15	10g	**514-10-3**
Abound™		PS-2141	250mg	**131860-33-8**
Abuphenile citrate		1515F	1g	**R**
AC 263, 222™		PS-2197	250mg	**104098-48-8**
Acaban™		PS-2216	100mg	**134098-61-6**
Acarben™		PS-854	100mg	**510-15-6**
Acaralate™		PS-857	250mg	**5836-10-2**
Acaristop™		PS-2015	100mg	**74115-24-5**
Acaritan™		PS-2216	100mg	**134098-61-6**
Acarol™		PS-1062	250mg	**18181-80-1**
	100ug/mL in Acetonitrile	PS-1062AJS	1mL	
Accent™		PS-2005	100mg	**111991-09-4**
	100ug/mL in Acetonitrile	PS-2005AJS	1mL	
	100ug/mL in Toluene	PS-2005JS	1mL	
Acclaim		PS-1088	100mg	**66441-23-4**
Acclaim™		PS-2223	100mg	**71283-80-2**
Accothion™		PS-678	250mg	**122-14-5**
Acenaphthene (S.G.)		F1	1g	**83-32-9**
	100ug/mL in Methanol	F1JS	1mL	
	100ug/mL in Methanol	F1S	5mL	
Acenaphthene (S.G.)		0-782	5g	**83-32-9**
		0-782	10g	**83-32-9**
Acenaphthene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC1S	1.2mL	
Acenaphthene-d10 (S.G.)		F720	50mg	**15067-26-2**
	2000ug/mL in Methanol	F720JS	1mL	
	2000ug/mL in Methanol	F720S	5mL	
Acenaphthylene (S.G.)		F77	100mg	**208-96-8**
	100ug/mL in Toluene	F77JS	1mL	
	100ug/mL in Toluene	F77S	5mL	
	100ug/mL in Methanol	F77MJS	1mL	
	100ug/mL in Methanol	F77MS	5mL	
Acenaphthylene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC77S	1.2mL	
Acenaphthylene (d8) (S.G.)		FD77-A	0.1g	**R**
	200ug/mL in Isooctane	FD77S	1.2mL	
Acenite™		PS-2040	100mg	**34256-82-1**
Acephate (S.G.)		F2440	250mg	**30560-19-1**
	1000ug/mL in Acetone	F2440JS	1mL	
	1000ug/mL in Acetone	F2440S	5mL	
Acephate		PS-738	250mg	**30560-19-1**
	100ug/mL in Acetonitrile	PS-738AJS	1mL	
Acequinocyl		PS-2296	250mg	**57960-19-7**
	100ug/mL in Acetonitrile	PS-2296AJS	1mL	
	100ug/mL in Toluene	PS-2296JS	1mL	
Acer™		PS-2219	100mg	**135410-20-7**
Acetal (S.G.)		0-1	1g	**105-57-7**
		0-1	5g	**105-57-7**
Acetaldehyde (S.G.)		F2322	1g	**75-07-0**
	1000ug/mL in Acetonitrile	F2322JS	1mL	
	1000ug/mL in Acetonitrile	F2322S	5mL	
	1000ug/mL in De-ionized water	F1105JS	1mL	
	1000ug/mL in De-ionized water	F1105S	5mL	
Acetaldehyde (S.G.)		0-2000	1g	**75-07-0**
Acetaldehyde (DNPH Derivative) (S.G.)		F2338	100mg	**1019-57-4**
	100ug/mL in Acetonitrile	F2338AJS	1mL	
	100ug/mL in Acetonitrile	F2338AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2338JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2338S	5mL	
Acetaldehyde ammonia trimer, trihydrate (S.G.)		0-238	500mg	**58052-80-5**
		0-238	5g	**58052-80-5**
Acetaldehyde diethylacetal see 0-1 Acetal		0-1	1g	**105-57-7**
Acetaldoxime		1410K	1g	**107-29-9**
Acetamide (S.G.)		0-248	2g	**60-35-5**
		0-248	10g	**60-35-5**
Acetamidine hydrochloride		1420K	1g	**124-42-5**
p-Acetamidobenzoic acid		1518F	5g	**556-08-1**
2-Acetamidofluorene (S.G.)		F911	100mg	**53-96-3**
	100ug/mL in Toluene	F911JS	1mL	
	100ug/mL in Toluene	F911S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
b-Acetamidonaphthalene (S.G.)		0-2348	100mg	**581-97-5**
2-Acetamido-5-nitrothiazole		1517F	1g	**R**
3-Acetamidophenol (R.G.)		1430K	1g	**621-42-1**
4-Acetamidophenol (R.G.)		1440K	1g	**103-90-2**
p-Acetaminoaniline		1524F	1g	**122-80-5**
Acetamiprid		PS-2219	100mg	**135410-20-7**
	100ug/mL in Acetonitrile	PS-2219AJS	1mL	
	100ug/mL in Toluene	PS-2219JS	1mL	
Acetanilide (S.G.)		F2275	5g	**103-84-4**
	500ug/mL in Acetonitrile	F2275JS	1mL	
	500ug/mL in Acetonitrile	F2275S	5mL	
Acetanilide (S.G.)		0-262	5g	**103-84-4**
		0-262	10g	**103-84-4**
p-Acetanisidide		1525F	5g	**51-66-1**
Acetate @ 1000ug/ml in water		XIC-AC-M-A	100mL	
		XIC-AC-M-B	250mL	
		XIC-AC-M-C	500mL	
		XIC-AC-A	100mL	
		XIC-AC-B	250mL	
		XIC-AC-C	500mL	
Acethydrazide		1520	5g	**1068-57-1**
Acetic acid (S.G.)		0-4	10g	**64-19-7**
Acetic acid 2-methylbutyl ester		1525J	5g	**624-41-9**
Acetic anhydride (S.G.)		0-122	10g	**108-24-7**
Acetoacetanilide (S.G.)		0-270	5g	**102-01-2**
		0-270	10g	**102-01-2**
Acetochlor	100ug/mL in Methanol	PS-2040JS	1mL	
Acetochlor ESA sodium salt		MET-2040A	25mg	**187022-11-3**
Acetochlor ESA sodium salt Solution	100ug/mL in Methanol	MET-2040AJS	1mL	
Acetochlor OA Solution	100ug/mL in Methanol	MET-2040BJS	1mL	
Acetochlor OA		MET-2040B	10mg	**194992-44-4**
Acetoguanamine		1530	1g	**542-02-9**
Acetohydroxamic acid		1460K	100mg	**546-88-3**
Acetol (R.G.)		1480K	1g	**116-09-6**
1'-Acetonaphthone (S.G.)		0-819	2g	**941-98-0**
2'-Acetonaphthone (S.G.)		0-820	1g	**93-08-3**
		0-820	10g	**93-08-3**
Acetone (S.G.)		F700	5g	**67-64-1**
	100ug/mL in Methanol:Water (90:10)	F700JS	1mL	
	100ug/mL in Methanol:Water (90:10)	F700S	5mL	
Acetone (S.G.)		0-798	5g	**67-64-1**
Acetone-d6		1535E	2.5g	**666-52-4**
Acetone (DNPH Derivative) (S.G.)		F2339	50mg	**1567-89-1**
	100ug/mL in Acetonitrile	F2339JS	1mL	
	100ug/mL in Acetonitrile	F2339S	5mL	
Acetone cyanohydrin (S.G.)		F2393	1g	**75-86-5**
Acetone ketal of glycerine		1535B	10g	**100-79-8**
Acetone oxime (S.G.)		0-866	1g	**127-06-0**
		0-866	5g	**127-06-0**
Acetone semicarbazone		1490K	1g	**110-20-3**
Acetone sodium bisulfite		1542F	5g	**540-92-1**
Acetonitrile (S.G.)		F974	5g	**75-05-8**
	1000ug/mL in De-ionized water	F974AJS	1mL	
	1000ug/mL in De-ionized water	F974AS	5mL	
	100ug/mL in Methanol	F974JS	1mL	
	100ug/mL in Methanol	F974S	5mL	
Acetonitrile (S.G.)		0-834	5g	**75-05-8**
3-(a-Acetonlylbenzyl)-4-hydroxycoumarin		PS-104	1g	**81-81-2**
Acetonyl acetate (S.G.)		0-464	500mg	**592-20-1**
		0-464	5g	**592-20-1**
p-Acetophenetidide (S.G.)		F912	5g	**62-44-2**
	100ug/mL in Toluene	F912JS	1mL	
	100ug/mL in Toluene	F912S	5mL	
Acetophenone (S.G.)		F985	5g	**98-86-2**
	100ug/mL in Methanol	F985JS	1mL	
	100ug/mL in Methanol	F985S	5mL	
Acetophenone (S.G.)		0-821	10g	**98-86-2**
Acetophenone oxime		1505K	100mg	**613-91-2**
o-Acetoxybenzoic acid		0-111	5g	**50-78-2**
p-(Acetoxymercuric)aniline		1543F	5g	**6283-24-5**
3-Acetoxy-2-(1H)-pyridone		1515K	10mg	**61296-14-8**
Acetoxy-triphenylstannane		PS-1021	250mg	**900-95-8**
Acetylacetone (S.G.)		0-815	5g	**123-54-6**
Acetylated glycerol monostearate (TECH)		S-242	10g	**68990-54-5**
Acetylated lanolin (TECH)		S-214	10g	**R**
2-Acetylbenzoic acid		1545F	5g	**577-56-0**
4-Acetylbenzoic acid		1547F	1g	**586-89-0**

Category Name	Specification	Catalog#	Size	CAS#
p-Acetylbenzonitrile		1546F	1g	**1443-80-7**
Acetylcholine chloride		O-320	5g	**67-48-1**
2-Acetylcyclohexanone		1560	5g	**874-23-7**
(Acetylcyclopentadienyl)cyclopentadienyl iron		1562F	5g	**1271-55-2**
N-Acetyl-L-cysteine		1618L	1g	**616-91-1**
Acetylenedicarboxylic acid monopotassium salt		1565B	10g	**928-04-1**
N-Acetylethylenediamine		1615H	1g	**1001-53-2**
2-Acetylfluorene		1003L	500mg	**781-73-7**
2-Acetylfuran (S.G.)		O-2401	5g	**1192-62-7**
N-Acetyl-D-galactosamine		CARB-39	100mg	**14215-68-0**
N-Acetyl-D-glucosamine		CARB-40	5g	**7512-17-6**
Acetylglycine		1573B	10g	**543-24-8**
N-Acetyl-dl-homocysteinethiolactone		1566F	5g	**1195-16-0**
2-Acetyl hydroquinone		1600J	100mg	**490-78-8**
3-Acetylindole		1525K	100mg	**703-80-0**
3-Acetyl-6-methyl-2H-pyran-2,4-(3H)-dione		O-59	2g	**520-45-6**
1-Acetyl-3-methylurea		1572E	5g	**R**
N-Acetyl-DL-phenylalanine		1621L	100mg	**R**
1-Acetyl-2-phenylhydrazine		1588F	10g	**114-83-0**
2-Acetylpyridine		1850F	5g	**350-03-8**
Acetylsalicylic acid (S.G.)		O-111	5g	**50-78-2**
		O-111	10g	**50-78-2**
N-4-Acetylsulfanilamide		1572F	100mg	**121-61-9**
S-Acetylthiocholine bromide		1009L	100mg	**25025-59-6**
S-Acetylthiocholine iodide		1156L	100mg	**1866-15-5**
2-Acetylthiophene		5969F	1g	**88-15-3**
1-Acetyl-3-thiosemicarbazide		1105L	1g	**2302-88-7**
1-Acetyl-2-thiourea (S.G.)		F2086	500mg	**591-08-2**
	100ug/mL in Methanol	F2086JS	1mL	
	100ug/mL in Methanol	F2086S	5mL	
1-Acetyl-2-thiourea (S.G.)		O-982	500mg	**591-08-2**
		O-982	5g	**591-08-2**
Acetyl tributyl citrate (TECH)		Pz-75	10g	**77-90-7**
Acetyl triethyl citrate (TECH)		Pz-74	10g	**77-89-4**
Acetyl tris(2-ethylhexyl)citrate (TECH)		Pz-76	10g	**R**
N-Acetyl-L-tyrosine ethyl ester		1135L	100mg	**36546-50-6**
Achieve™		PS-2135	500mg	**87820-88-0**
Acibenzolar-S-methyl		PS-2212	250mg	**135158-54-2**
	100ug/mL in Acetonitrile	PS-2212AJS	1mL	
	100ug/mL in Toluene	PS-2212JS	1mL	
Acid fuchsin, calcium salt		3127L	500mg	**R**
Acifluorfen (S.G.)		F2037	250mg	**50594-66-6**
	100ug/mL in Acetone	F2037JS	1mL	
	100ug/mL in Acetone	F2037S	5mL	
Acifluorfen		PS-1016	250mg	**50594-66-6**
Acifluorfen	100ug/mL in Acetonitrile	PS-1016AJS	1mL	
Acifluorfen,amino		MET-1016A	10mg	**R**
Acifluorfen methyl ester (S.G.)		F2224	100mg	**50594-67-7**
	100ug/mL in Isooctane:Acetone (90:10)	F2224JS	1mL	
	100ug/mL in Isooctane:Acetone (90:10)	F2224S	5mL	
Acifluorfen methyl ester		PS-1111	100mg	**50594-67-7**
trans-Aconitic acid		3244L	1g	**4023-65-8**
Acord™		PS-2105	100mg	**93697-74-6**
ACP 63303™		PS-397	100mg	**1689-83-4**
Acquinite™		PS-4	1g	**76-06-2**
Acridine (S.G.)		O-2001	1g	**260-94-6**
		O-2001	5g	**260-94-6**
Acridine (d9) (S.G.)		O-D2001-A	0.1g	**R**
		O-D2001-B	0.5g	**R**
Acridine orange basic/C,I,#46005		BS-71	1g	**494-38-2**
Acridine yellow/C,I,#46025		BS-152	1g	**135-49-9**
9-Acridone (10H)		1580B	5g	**578-95-0**
Acriflavine hydrochloride		1573F	1g	**86-40-8**
Acrobat™		PS-2138	100mg	**110488-70-5**
Acrolein (S.G.)		F2	1g	**107-02-8**
Acrolein (S.G.)	100ug/mL in De-ionized water	F2JS	1mL	
	100ug/mL in De-ionized water	F2S	5mL	
Acrolein (DNPH Derivative) (S.G.)		F2340	50mg	**888-54-0**
	100ug/mL in Acetonitrile	F2340JS	1mL	
	100ug/mL in Acetonitrile	F2340S	5mL	
Acrolein diacetate		O-495	500mg	**869-29-4**
Acrolein diethyl acetal		1574F	1g	**3054-95-3**
Acrylamide (S.G.)		F2193	5g	**79-06-1**
	1000ug/mL in De-ionized water	F2193JS	1mL	
	1000ug/mL in De-ionized water	F2193S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Acrylamide (S.G.)		O-1000	5g	**79-06-1**
		O-1000	10g	**79-06-1**
Acrylic acid (S.G.)		O-1001	10g	**79-10-7**
Acrylonitrile (S.G.)		F3	5g	**107-13-1**
	1000ug/mL in Methanol	F3AJS	1mL	
	1000ug/mL in Methanol	F3AS	5mL	
	100ug/mL in Methanol	F3JS	1mL	
	100ug/mL in Methanol	F3S	5mL	
Acrylonitrile (13C3) (S.G.)		FC3-A	0.1g	**R**
Acrylonitrile (d3) (S.G.)		FD3-1	1g	**R**
		FD3-5	5g	**R**
Acrylonitrile (S.G.)		O-1002	5g	**107-13-1**
Actara™		PS-2215	100mg	**153719-23-4**
Actellic™		PS-644	250mg	**29232-93-7**
Acti-Aid™		PS-1002	100mg	**66-81-9**
Actril™		PS-397	100mg	**1689-83-4**
Adamantanamine hydrochloride		1580	5g	**665-66-7**
Adamantane (S.G.)		F951	1g	**281-23-2**
	100ug/mL in Toluene	F951JS	1mL	
	100ug/mL in Toluene	F951S	5mL	
1-Adamantanecarbonitrile		1581B	1g	**23074-42-2**
1-Adamantane-methanol		1577F	1g	**770-71-8**
Adamantanol		1580E	2.5g	**31878-59-8**
Adeal™		PS-2110	100mg	**95737-68-1**
Adenine		1550K	1g	**73-24-5**
Adipamide (S.G.)		O-249	500mg	**628-94-4**
		O-249	2g	**628-94-4**
Adipic acid (S.G.)		O-60	5g	**124-04-9**
		O-60	10g	**124-04-9**
Adipic 1,3-butylene glycol polymer (TECH)		Pz-998	10g	**R**
Adipoin		1555K	10mg	**30282-14-5**
Adiponitrile (S.G.)		O-835	5g	**111-69-3**
Adipyl chloride (S.G.)		O-133	500mg	**111-50-2**
		O-133	10g	**111-50-2**
Admiral™		PS-2110	100mg	**95737-68-1**
Admire™		PS-2086	500mg	**138261-41-3**
Advantage™		PS-1063	250mg	**55285-14-8**
Afalon™		PS-372	250mg	**330-55-2**
Aflix™		PS-2036	100mg	**2540-82-1**
Afugan™		PS-2049	100mg	**13457-18-6**
Agar-Agar		1584C	10g	**9002-18-0**
Agarose		1584D	5g	**9012-36-6**
Agreen™		PS-2105	100mg	**93697-74-6**
Agribrom		PS-2089	500mg	**16079-88-2**
Agri-Mek™		PS-2068	100mg	**71751-41-2**
Agrisil™		PS-2007	100mg	**327-98-0**
Agritox™		PS-2007	100mg	**327-98-0**
Agrocol™		PS-2062	250mg	**9016-72-2**
Agrothrin™		PS-2203	250mg	**65731-84-2**
Agroxone™		PS-40	250mg	**94-74-6**
Aim™		PS-2170	100mg	**128639-02-1**
AIP				
Airone™		PS-2062	250mg	**9016-72-2**
Akar™		PS-854	100mg	**510-15-6**
Akton		PS-675	1g	**1757-18-2**
	100ug/mL in Acetonitrile	PS-675AJS	1mL	
	100ug/mL in Toluene	PS-675JS	1mL	
Alachlor (S.G.)		F2072	250mg	**15972-60-8**
	100ug/mL in Methanol	F2072JS	1mL	
	100ug/mL in Methanol	F2072S	5mL	
Alachlor		PS-357	250mg	**15972-60-8**
Alachlor (ring 13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC2072S	1.2mL	
Alachlor ESA sodium salt		MET-357D	25mg	**140939-15-7**
	100ug/mL in Methanol	MET-357DJS	1mL	
Alachlor OA		MET-357E	10mg	**171262-17-2**
Alachlor OA Solution	100ug/mL in Methanol	MET-357EJS	1mL	
Alanap™		PS-343	250mg	**132-66-1**
b-Alanine (S.G.)		O-32	5g	**107-95-9**
		O-32	10g	**107-95-9**
D-Alanine		1586F	1g	**338-69-2**
DL-Alanine (R.G.)		AA-1	1g	**302-72-7**
		AA-1	5g	**302-72-7**
DL-Alanine (S.G.)		O-31	2g	**302-72-7**
		O-31	10g	**302-72-7**

Category Name	Specification	Catalog#	Size	CAS#
DL-Alanine ethyl ester hydrochloride		1012L	500mg	**617-27-6**
DL-Alanine methyl ester hydrochloride		1627L	100mg	**13515-97-4**
DL-Alanyl-b-naphthylamide		1630L	100mg	**R**
Alar™		PS-391	250mg	**1596-84-5**
Aldicarb (S.G.)		F2002	10mg	**116-06-3**
	100ug/mL in Methanol	F2002JS	1mL	
	100ug/mL in Methanol	F2002S	5mL	
Aldicarb		PS-734	10mg	**116-06-3**
Aldicarb oxime		MET-734A	10mg	**1646-75-9**
Aldicarb sulfone (S.G.)		F2003	10mg	**1646-88-4**
	100ug/mL in Methanol	F2003JS	1mL	
	100ug/mL in Methanol	F2003S	5mL	
Aldicarb sulfone		PS-1055	10mg	**1646-88-4**
Aldicarb sulfoxide (S,G)		F2004	10mg	**1646-87-3**
	100ug/mL in Acetonitrile	F2004JS	1mL	
	100ug/mL in Acetonitrile	F2004S	5mL	
Aldicarb sulfoxide		PS-1054	10mg	**1646-87-3**
Aldol (S.G.)		0-236	2g	**107-89-1**
		0-236	10g	**107-89-1**
Aldoxycarb		F2003	10mg	**1646-88-4**
Aldoxycarb		PS-1055	10mg	**1646-88-4**
Aldrin		F89	250mg	**309-00-2**
	100ug/mL in Methanol	F89JS	1mL	
	100ug/mL in Methanol	F89S	5mL	
Aldrin (13C12) Solution (S.G.)	100ug/mL in Nonane	FC89S	1.2mL	
Aldrin		PS-69	250mg	**309-00-2**
Alfa-4™		PS-2112	250mg	**15879-93-3**
Alfacron™		PS-1202	5mL	**35575-96-3**
Alfamat™		PS-2112	250mg	**15879-93-3**
Alfa-Tox™		PS-90	250mg	**333-41-5**
Alfa Z™		PS-2112	250mg	**15879-93-3**
Aliette™		PS-2026	100mg	**39148-24-8**
Alificron™		PS-1202	5mL	**35575-96-3**
Aliphatic hydrocarbons-sulfonic acid (TECH)		S-428	10g	**R**
Alizarin/C,I,#58000		BS-85	1g	**72-48-0**
Alizarin blue black B/C,I,#63615		BS-155	1g	**1324-21-6**
Alizarin cyanone green B/C,I,#61570		BS-154	1g	**4403-90-1**
Alizarin red S/C,I,#58005		BS-86	1g	**130-22-3**
Alizarin yellow GC/C,I,#14025		BS-18	1g	**584-42-9**
Alizarin yellow R/C,I,#14030		BS-19	1g	**2243-76-7**
Alkron™		PS-95	500mg	**56-38-2**
n-Alkyl (60% C11) dimethyl benzyl ammonium chloride (TECH)		S-618-1	5g	**R**
Alkylammonium dodecyl-benzene sulfonate (TECH)		S-426	10g	**R**
Alkylaryl polyether sulfate, sodium salt (TECH)		S-392-1	10g	**R**
Alkylated arylphosphite (TECH)		0u-56	3g	**R**
		0u-56	10g	**R**
Alkyl benzene sulfonic acid (propylene tetramer) (TECH)		S-649	1g	**R**
Alkyldimethyl-3,4-dichloro-benzyl ammonium chloride (TECH)		S-620	10g	**R**
C11-C15 secondary Alkyl ether of POE/POP (TECH)		S-374-1	5g	**68551-14-4**
Allantoin		1598F	10g	**97-59-6**
d-trans-Allethrin		PS-791	250mg	**28057-48-9**
Allethrin (0,1mg/ml in Methylene chloride)		PS-96	5mL	**584-79-2**
	0.1mg/mL in Methylene chloride	PS-96JS	1mL	
Alliage™		PS-2182	250mg	**143390-89-0**
Allidochlor		PS-351	250mg	**93-71-0**
Allisan™		PS-293	250mg	**99-30-9**
Alloocimene dioxide		1600	5g	**R**
Alloxantin		1607F	100mg	**76-24-4**
Alloxydim - Sodium		PS-1200	5mL	**66003-55-2**
Alltex™		PS-79	250mg	**8001-35-2**
Allyl acetate (S.G.)		0-405	2g	**591-87-7**
		0-405	10g	**591-87-7**
Allyl alcohol (S.G.)		F2010	1g	**107-18-6**
	100ug/mL in Methanol	F2010JS	1mL	
	100ug/mL in Methanol	F2010S	5mL	
Allyl alcohol (S.G.)		0-138	1g	**107-18-6**
Allylamine (S.G.)		0-272	1g	**107-11-9**
Allyl benzene		1610	5g	**300-57-2**
Allyl bromide (S.G.)		0-655	2g	**106-95-6**
Allyl chloride (S.G.)		F975	5g	**107-05-1**
	100ug/mL in Methanol	F975JS	1mL	
	100ug/mL in Methanol	F975S	5mL	
Allyl chloride (S.G.)		0-656	5g	**107-05-1**
Allylcyclohexylamine		1565K	100mg	**6628-00-8**

Category Name	Specification	Catalog#	Size	CAS#
Allyl ether (S.G.)		0-559	500mg	**557-40-4**
		0-559	2g	**557-40-4**
Allyl glycidyl ether (S.G.)		0-2002	1g	**106-92-3**
		0-2002	5g	**106-92-3**
Allylguaiacol™		PS-940	250mg	**97-53-0**
4-Allyl-2-methoxyphenol		PS-940	250mg	**97-53-0**
	100ug/mL in Methanol	PS-940JS	1mL	
Allyl-2-nonenoate		1639J	1g	**R**
3-Allyloxy-1,2-benz[d]isothiazole 1,1-dioxide		PS-2082	500mg	**27605-76-1**
(+/-)-1-(B-Allyloxy-2,4-dichlophenylethyl)imidazole		PS-2043	100mg	**35554-44-0**
2-Allyl phenol (R.G.)		1634E	5g	**1745-81-9**
Allyl phenyl ether		1635B	5g	**1746-13-0**
N-Allyl-2-pyrrolidone		1635E	5g	**R**
Allyl sodium sulfonate		1652C	10g	**R**
Allyl trimethylammonium bromide		PS-360	1g	**3004-51-1**
	100ug/mL in H2O	PS-360AJS	1mL	
	100ug/mL in Toluene	PS-360JS	1mL	
Allylurea		1640	5g	**557-11-9**
Ally 60 DF Weed Killer™		PS-1078	100mg	**74223-64-6**
Alon™		PS-2000	100mg	**34123-59-6**
alpha,alpha,alpha-Trifluoro-3′-hydroxy-O-toluanilide		MET-2057C	250mg	**R**
alpha,alpha,alpha-Trifluoro-O-toluic acid		MET-2057B	500mg	**433-97-6**
(1R,alpha-S)-cis-Cypermethrin		PS-2203	250mg	**65731-84-2**
(+-)-alpha-Cyano-3-phenoxybenzyl 2,2-dimethyl-3-(2,2-dichlorovinyl)cyclopropane carboxylate		PS-2203	250mg	**65731-84-2**
Alphamethrin™		PS-2083	250mg	**67375-30-8**
alpha-Mevinphos		PS-87-1	100mg	**26718-65-0**
Alphazurin A/C,I,#42080		BS-128	100mg	**3486-30-4**
Alsystine™		PS-2176	100mg	**64628-44-0**
Alto™		PS-2130	50mg	**94361-06-5**
Altosid™				
Alumina activated		I-1010	10g	**1344-28-1**
Aluminum metal granular 8-20 mesh		I-1112	10g	**7429-90-5**
Aluminum metal granular 30 mesh and finer		I-1114	10g	**7429-90-5**
Aluminum metal dust		I-1116	10g	**7429-90-5**
Aluminum metal filings		I-1117	10g	**7429-90-5**
Aluminum metal turnings		I-1118	10g	**7429-90-5**
Aluminum metal foil		I-1119	10g	**7429-90-5**
Aluminum - Al metal, 99,999%, 2% HNO3		X10001-1-A	100mL	
		X10001-1-B	250mL	
		X10001-1-C	500mL	
Aluminum - Al metal,99,999%,2% HCl		X10001-2-A	100mL	
		X10001-2-B	250mL	
		X10001-2-C	500mL	
Aluminum - 4% HNO3		X10M 1-1-100	100mL	
		X10M 1-1-250	250mL	
		X10M 1-1-500	500mL	
Aluminum - 10% HCl		X10M 1-2-100	100mL	
		X10M 1-2-250	250mL	
		X10M 1-2-500	500mL	
Aluminum acetate basic powder		I-1020	10g	**142-03-0**
Aluminum acetylacetonate		I-1030	10g	**13963-57-0**
Aluminum ammonium sulfate		I-1	10g	**7784-25-0**
Aluminum antimonide		I-1035	100mg	**25152-52-7**
Aluminum arsenate		I-1040	1g	**13462-91-4**
Aluminum-n-butoxide		1648E	5g	**R**
Aluminum-tert-butoxide		1650E	5g	**556-91-2**
Aluminum chloride		I-2	10g	**7446-70-0**
Aluminum chloride hexahydrate		I-1075	5g	**7784-13-6**
Aluminum ethoxide		I-1085	5g	**555-75-9**
Aluminum fluoride powder		I-1090	10g	**15098-87-0**
Aluminum hydroxide powder		I-1105	10g	**21645-51-2**
Aluminum isopropoxide (S.G.)		0-991	5g	**555-31-7**
		0-991	10g	**555-31-7**
Aluminum Metallo - Organic Standard 1000ug/g in Mineral Oil		XALOMS	100g	
Aluminum nitrate		I-3	10g	**7784-27-2**
Aluminum octoate		I-1120	10g	**30745-55-2**
Aluminum oleate (TECH)		S-88	10g	**688-37-9**
Aluminum Oxide (-40 mesh) (Al) 99,999%		XAL-O-A	10g	
		XAL-O-B	25g	
Aluminum oxide-ignited pwdr,		I-1140	10g	**1344-28-1**
Aluminum palmitate (TECH)		S-86	10g	**555-35-1**
Aluminum phenolsulfonate		I-1150	10g	**1300-35-2**
Aluminum phosphate		I-1160	10g	**7784-30-7**

Category Name	Specification	Catalog#	Size	CAS#
Aluminum phosphate-tribasic		I-1170	10g	**7784-30-7**
Aluminum potassium sulfate		I-4	10g	**10043-67-1**
Aluminum Shot (Al) 99,999%		XAL-MS-A	10g	
		XAL-MS-B	25g	
Aluminum stearate (TECH)		S-87	5g	**637-12-7**
Aluminum sulfate		I-5	10g	**10043-01-3**
Aluminum tris(O-ethyl phosphonate)		PS-2026	100mg	**39148-24-8**
Amaranth/C,I,#16185		BS-132	1g	**915-67-3**
Amaze™		PS-1003	100mg	**25311-71-1**
Amber™		PS-2042	100mg	**82097-50-5**
Ambush		PS-758	250mg	**52645-53-1**
Ambush C™		PS-2203	250mg	**65731-84-2**
Amchem 3CP™		PS-317	1g	**101-10-0**
Amcide™		PS-344	1g	**7773-06-0**
Amdol 3CP™		PS-317	1g	**101-10-0**
Amdro		PS-1001	100mg	**67485-29-4**
	100ug/mL in Acetonitrile	PS-1001AJS	1mL	
	100ug/mL in Hexane	PS-1001JS	1mL	
Amethopterin™		PS-2122	100mg	**841-06-5**
Ametryne		PS-383	500mg	**834-12-8**
	100ug/mL in Acetonitrile	PS-383AJS	1mL	
Ametryne (S.G.)		F2209	500mg	**834-12-8**
	100ug/mL in t-Butylmethyl ether	F2209JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2209S	5mL	
Amex™		PS-1004	500mg	**33629-47-9**
Amiben™		PS-314	100mg	**133-90-4**
Amido naphthol red G/C,I,#18050		BS-135	1g	**3734-67-6**
Amidosulfuron		PS-2380	100mg	**120923-37-7**
Amigol™		PS-382	250mg	**61-82-5**
Amines Functional Group		0am-140A	KIT	
Aminoacetaldehyde diethylacetal		1642F	5g	**645-36-3**
Aminoacetaldehyde dimethyl acetal		1595K	1g	**22483-09-6**
Aminoacetic acid		O-37	5g	**56-40-6**
Aminoacetonitrile hydrochloride		1600K	1g	**6011-14-9**
o-Aminoacetophenone		1096L	100mg	**551-93-9**
m-Aminoacetophenone		1656F	10g	**99-03-6**
p-Aminoacetophenone		1657B	5g	**99-92-3**
1-Aminoanthracene (S.G.)		O-2373	100mg	**610-49-1**
2-Aminoanthracene (S.G.)		O-2374	100mg	**613-13-8**
1-Aminoanthraquinone (S.G.)		2357K	10g	**82-45-1**
2-Aminoanthraquinone (S.G.)		F2087	1g	**117-79-3**
	100ug/mL in Methanol	F2087JS	1mL	
	100ug/mL in Methanol	F2087S	5mL	
2-Aminoanthraquinone (S.G.)		O-930	1g	**117-79-3**
		O-930	10g	**117-79-3**
4-Aminoantipyrine		1659F	10g	**83-07-8**
Aminoaromatic Hydrocarbons Kit		AMAR-1N	KIT	
4-Aminoazobenzene		O-386	2g	**60-09-3**
o-Aminoazotoluene/C,I,#11160		BS-8	1g	**97-56-3**
o-Aminoazotoluene (S.G.)		O-2397	1g	**97-56-3**
Aminoazoxylene hydrochloride		1659B	10g	**R**
o-Aminobenzenethiol (S.G.)		O-378	2g	**137-07-5**
3-Aminobenzenethiol hydrochloride		2180L	500mg	**R**
p-Aminobenzesulfonylamine		O-968	2g	**63-74-1**
2-Aminobenzimidazole		MET-222A	250mg	**934-32-7**
m-Aminobenzoic acid		O-94	2g	**118-92-3**
p-Aminobenzoic acid (S.G.)		O-93	2g	**150-13-0**
		O-93	10g	**150-13-0**
2-Aminobenzoic acid methyl ester		PS-2055	100mg	**134-20-3**
3-Aminobenzonitrile		1625K	100mg	**2237-30-1**
4-Amino benzophenone		1630K	100mg	**1137-41-3**
2-Aminobenzothiazole		1676B	10g	**136-95-8**
2-Aminobenzotrifluoride		1640K	1g	**88-17-5**
3-Aminobenzotrifluoride		1645K	1g	**98-16-8**
N-(p-Aminobenzoyl)-L-glutamic acid		1756L	100mg	**532-63-8**
p-Aminobenzoyl hydrazide		1132L	1g	**5351-17-7**
m-Aminobenzyl alcohol		1650K	10mg	**1877-77-6**
2-Aminobiphenyl (S.G.)		O-2376	1g	**90-41-5**
4-Aminobiphenyl (S.G.)		F913	100mg	**92-67-1**
	100ug/mL in Methanol	F913JS	1mL	
	100ug/mL in Methanol	F913S	5mL	
2-Amino-6-bromobenzothiazole		1655K	100mg	**R**

Category Name	Specification	Catalog#	Size	CAS#
2-Amino-5-bromopyridine		1057L	1g	**1072-97-5**
2-Amino-5-bromothiazole monohydrobromide		1665K	100mg	**3034-22-8**
2-Aminobutane		O-275	5g	**13952-84-6**
(R)-(-)-2-Amino-1-butanol		1680K	10mg	**5856-63-3**
(+/-)-2-Amino-1-butanol		2323L	1g	**13054-87-0**
4-Amino-6-tert-butyl-3-[methylthiol-1,2,4-triazine-5[4H]-one		PS-398	250mg	**21087-64-9**
2-Amino-4-tert-butyl phenol		1690K	100mg	**1199-46-8**
2-Amino-5-tert-butyl-1,3,4-thiadiazole		1685K	50mg	**R**
4-Amino butyraldehyde diethylacetal		1669F	1g	**6346-09-4**
DL-3-Aminobutyric acid		1695K	100mg	**2835-82-7**
4-Aminobutyric acid		1738L	1g	**56-12-2**
DL-2-Aminobutyric acid (R.G.)		AA-2	1g	**2835-81-6**
		AA-2	5g	**2835-81-6**
DL-2-Aminobutyric acid (S.G.)		O-33	1g	**2835-81-6**
		O-33	5g	**2835-81-6**
a-Amino-g-butyrolactone hydrobromide		1670F	1g	**6305-38-0**
6-Aminocaproic acid		1738C	5g	**60-32-2**
DL-a-Amino-e-caprolactam		1700K	1g	**17929-90-7**
Aminocarb (S.G.)		F2370	250mg	**2032-59-9**
	1000ug/mL in Acetonitrile	F2370JS	1mL	
	1000ug/mL in Acetonitrile	F2370S	5mL	
Aminocarb		PS-751	250mg	**2032-59-9**
	100ug/mL in Toluene	PS-751JS	1mL	
3-Amino-4-carbethoxy-2-phenylpyrazole		1683F	1g	**R**
3-Amino-4-carbethoxypyrazole		1054L	100mg	**6994-25-8**
Aminocarb-phenol		MET-751A	POR	**14143-25-0**
2-Amino-4-chlorobenzoic acid		1705K	100mg	**89-77-0**
2-Amino-5-chlorobenzoic acid		1680F	1g	**635-21-2**
4-Amino-2-chlorobenzoic acid		1672F	1g	**2457-76-3**
2-Amino-5-chlorobenzonitrile		1710K	100mg	**5922-60-1**
2-Amino-5-chlorobenzophenone		1677F	5g	**719-59-5**
2-Amino-4-chlorobenzothiazole		1673F	1g	**19952-47-7**
3-Amino-4-chlorobenzotrifluoride		1715K	1g	**121-50-6**
2-Amino-5-chlorobenzoxazole		1720K	100mg	**61-80-3**
2-Amino-5-chloro-4-methylbenzenesulfonic acid (S.G.)		O-951	1g	**88-53-9**
		O-951	3g	**88-53-9**
4-Amino-6-chloro-2-methylmercaptopyrimidine		1015L	500mg	**1005-38-5**
2-Amino-4-chloro-6-methylpyrimidine		1676F	1g	**5600-21-5**
1-Amino-4-chloronaphthalene		1725K	100mg	**4684-12-2**
2-Amino-4-chloro-5-nitrophenol (R.G.)		1730K	100mg	**6358-07-2**
5-Amino-4-chloro-2-phenyl-3(2H)-pyridazinone		PS-430	250mg	**1698-60-8**
2-Amino-6-chloropurine		1737K	50mg	**10310-21-1**
2-Amino-5-chloropyridine		1740K	100mg	**1072-98-6**
3-Amino-2-chloropyridine		1674H	1g	**6298-19-7**
4-Amino-2-chloropyridine		1745K	100mg	**14432-12-3**
6-Amino-4-chloro-m-toluene sulfonic acid (S.G.)		O-950	500mg	**88-51-7**
		O-950	5g	**88-51-7**
6-Aminochrysene (S.G.)		O-2377	50mg	**2642-98-0**
p-Aminocinnamic acid hydrochloride		1018L	500mg	**54057-95-3**
4-Amino-m-cresol		1021L	1g	**2835-99-6**
2-Amino-p-cresol		1755K	1g	**95-84-1**
6-Amino-m-cresol		1760K	100mg	**2835-98-5**
Aminocrotonic acid methyl ester		1684F	1g	**14205-39-1**
1-Amino-1-cyclohexane carboxylic acid		1147L	1g	**2756-85-6**
2-Aminocyclohexanol hydrochloride		1765K	100mg	**R**
1-Amino-1-cyclopentane carboxylic acid		1027L	100mg	**52-52-8**
2-Amino-3,5-dibromopyridine		1770K	10mg	**35486-42-1**
3-Amino-2,5-dichlorobenzoic acid		F2039	100mg	**133-90-4**
3-Amino-2,5-dichlorobenzoic acid		PS-314	100mg	**133-90-4**
	100ug/mL in Acetonitrile	PS-314AJS	1mL	
3-Amino-2,5-dichlorobenzoic acid, ethyl ester		PS-326	100mg	**60541-86-8**
3-Amino-2,5-dichlorobenzoic acid methyl ester		PS-1113	100mg	**7286-84-2**
2-Amino-2',5-dichlorobenzophenone		1084L	100mg	**2958-36-3**
((4-Amino-3,5-dichloro-6-fluoro-2-pyridinyl)oxy)acetic acid, 1-methylheptyl ester acetic acid		PS-2191	100mg	**81406-37-3**
2-Amino-4,6-dichloro-5-methylpyrimidine		1772K	10mg	**R**
4-Amino-2,6-dichlorophenol hydrochloride		1690F	1g	**42486-53-3**
2-Amino-3,5-dichloropyridine		1775K	100mg	**4214-74-8**
3-Amino-2,6-dichloropyridine		1780K	10mg	**R**
2-Amino-4,6-dichloropyrimidine		1785K	10mg	**56-05-3**
5-Amino-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(1R,S)-(tr		PS-2136	100mg	**120068-37-3**

Category Name	Specification	Catalog#	Size	CAS#
2-Amino-5-diethylaminotoluene monohydrochloride		1700B	10g	2051-79-8
4-Amino-4,5-dihydro-3-methyl-6-phenyl-1,2,4-triazin-5-one		PS-2117	250mg	41394-05-2
5-Amino-2,3-dihydro-1,4-phthalazinedione		1689J	100mg	521-31-3
2-Amino-6,8-dihydroxypurine		1795K	10mg	5614-64-2
4-Amino-2,6-dihydroxy pyrimidine		1800K	1g	873-83-6
3-Amino-2,6-dimethoxy pyridine monohydrochloride		1805K	10mg	80789-72-6
2-Amino-1,4-dimethylbenzene		0-2053	5g	95-78-3
4-Amino-1,3-dimethylbenzene		0-342	1g	95-68-1
2-Amino-5,6-dimethylbenzimidazole		1699F	1g	29096-75-1
2-Amino-5,6-dimethylbenzothiazole		1810K	100mg	29927-08-0
4-Amino-6-(1,1-dimethylethyl)-3-(ethylthio)-1,2,4-triazin-5(4H		PS-1092	100mg	64529-56-2
5-Amino-3,4-dimethylisoxazole		1747L	1g	19947-75-2
6-Amino-2,4-dimethylphenol		1815K	100mg	41458-65-5
2-Amino-4,6-dimethylpyridine		1820K	1g	5407-87-4
2-Amino-4,6-dimethylpyrimidine		1825K	1g	767-15-7
4-Amino-2,6-dimethylpyrimidine		1830K	10g	461-98-3
3-Amino-5,6-dimethyl-1,2,4-triazine		1840K	100mg	17584-12-2
2-Amino-4,6-dinitrotoluene (S.G.)		F2492	10mg	35572-78-2
	1000ug/mL in Acetonitrile	F2492JS	1mL	
	1000ug/mL in Acetonitrile	F2492S	5mL	
4-Amino-2,6-dinitrotoluene (S.G.)		F2491	10mg	19406-51-0
	1000ug/mL in Acetonitrile	F2491JS	1mL	
	1000ug/mL in Acetonitrile	F2491S	5mL	
2-Aminoethanethiol hydrochloride		1705B	1g	156-57-0
2-Aminoethanethiolsulfuric acid		1726L	1g	2937-53-3
2-(2-Aminoethoxy)ethanol (R.G.)		1845K	1g	929-06-6
2-(2-Aminoethylamino)ethanol (S.G.)		0-334	10g	111-41-1
2-(2-Aminoethylamino)-5-nitropyridine		1705F	1g	29602-39-9
3-Amino-9-ethylcarbazole (S.G.)		F2143	50mg	132-32-1
	100ug/mL in Methanol	F2143JS	1mL	
	100ug/mL in Methanol	F2143S	5mL	
2-Aminoethyl hydrogen sulfate (S.G.)		0-940	1g	926-39-6
		0-940	10g	926-39-6
3-(2-Aminoethyl)indole hydrochloride		1066L	100mg	343-94-2
S-(2-Aminoethyl)isothiouronium bromide hydrobromide		3151L	1g	56-10-0
N-(2-Aminoethyl)morpholine		1710	5g	2038-03-1
3-Amino-N-ethylpiperidine		1855K	100mg	6789-94-2
2-Amino-2-ethyl-1,3-propanediol		1860K	1g	115-70-8
2-(2-Aminoethyl)pyridine		1723A	1g	2706-56-1
N-(2-Aminoethyl)pyrrolidine		1725F	1g	7154-73-6
2-Aminofluorene (S.G.)		0-2378	1g	153-78-6
9-Aminofluorene hydrochloride		1657L	100mg	5978-75-6
Aminoguanidine carbonic acid		1735E	5g	2582-30-1
Aminoguanidine hydrochloride		1863K	500mg	1937-19-5
Aminoguanidine nitrate		1733F	5g	10308-82-4
Aminoguanidine nitrate dihyrate		1048L	1g	R
Aminoguanidine sulfate		1730	5g	996-19-0
2-Aminoheptane		1735B	5g	123-82-0
6-Aminohexanoic acid		1738C	5g	60-32-2
p-Aminohippuric acid		1739D	1g	61-78-9
1-Aminohomopiperidine		1750L	1g	5906-35-4
5-Amino-2-hydroxybenzoic acid		1744L	1g	89-57-6
DL-4-Amino-3-hydroxybutyric acid		1099L	100mg	352-21-6
4-Amino-6-hydroxy-2-mercaptopyrimidine monohydrate		1865K	100mg	65802-56-4
2-Amino-2-(hydroxymethyl)-1,3-propanediol (S.G.)		0-299	5g	77-86-1
		0-299	10g	77-86-1
2-Amino-4-hydroxy-6-methylpyrimidine		3049L	500mg	3977-29-5
2-Amino-4-hydroxypteridine		1600L	100mg	938-42-1
2-Amino-3-hydroxypyridine		1880K	100mg	16867-03-1
5-Aminoindan		1885K	100mg	24425-40-9
2-Amino-5-iodobenzoic acid		1770	5g	5326-47-6
2-Aminoisobutyric acid		1752J	1g	62-57-7
dl-b-Aminoisobutyric acid hydrate		1701H	100mg	10569-72-9
5-Aminoisophthalic acid		1780	5g	99-31-0
2-Amino-N-isopropyl benzamide		MET-1011C	50mg	R
2-Amino-4-mercaptopyrimidine		1886K	50mg	R
3-Amino-5-mercapto-1,2,4-triazole		1093L	100mg	16691-43-3
Aminomethane sulfonic acid		1887K	10mg	13881-91-9
2-Amino-1-methoxybutane		1889K	100mg	63448-63-5
5-Amino-2-methoxypyridine		1901K	100mg	6628-77-9
p-Aminomethyl benzenesulfonamide hydrochloride		1903K	100mg	R
2-Amino-3-methylbenzoic acid		1790	1g	4389-45-1

Category Name	Specification	Catalog#	Size	CAS#
2-Amino-6-methylbenzothiazole		1801J	1g	2536-91-6
5-Amino-2-methylbenzothiazole dihydrochloride		1153L	100mg	32770-99-3
DL-2-Amino-3-methyl-1-butanol		1905K	100mg	16369-05-4
7-Amino-4-methyl coumarin		2662L	10mg	26093-31-2
5-Amino-3-methylisothiazole hydrochloride		1802F	1g	52547-00-9
5-Amino-3-methylisoxazole		1850J	10mg	R
3-Amino-5-methylisoxazole		1907K	1g	1072-67-9
2-Amino-4-methyl-6-methylthio-5-triazine		1909K	100mg	R
3-Amino-3-methylpentane		1912K	10mg	R
Aminomethyl phosphonic acid		MET-1051A	100mg	1066-51-9
1-Amino-2-methyl propane		0-274	5g	78-81-9
2-Amino-2-methyl propane		0-276	5g	75-64-9
2-Amino-2-methyl-1,3-propanediol (S.G.)		0-300	500mg	115-69-5
		0-300	10g	115-69-5
2-Amino-2-methyl-1-propanol (S.G.)		0-301	5g	124-68-5
		0-301	10g	124-68-5
2-(Aminomethyl)pyridine		1920K	100mg	3731-51-9
2-Amino-3-methylpyridine		1975K	1g	1603-40-3
2-Amino-4-methylpyridine		1819B	10g	695-34-1
2-Amino-5-methylpyridine		1825B	5g	1603-41-4
2-Amino-6-methylpyridine		1820	5g	1824-81-3
3-(Aminomethyl)pyridine		1809H	1g	3731-52-0
4-(Aminomethyl)pyridine		1810H	1g	3731-53-1
2-Amino-4-methylpyrimidine		1923K	100mg	108-52-1
2-Amino-5-methyl-1,3,4-thiadiazole		1825F	5g	108-33-8
2-Amino-4-methylthiazole		1929K	100mg	1603-91-4
4-Aminomorpholine		1932K	100mg	4319-49-7
2-Amino-1,5-naphthalene disulfonic acid		1841F	10g	117-62-4
7-Amino-1,3-naphthalene disulfonic acid (S.G.)		0-952	2g	86-65-7
		0-952	10g	86-65-7
1-Amino-2-naphthalenesulfonic acid		1842F	10g	81-06-1
6-Amino-2-naphthalene sulfonic acid		1848B	10g	93-00-5
8-Amino-1-naphthalene sulfonic acid		1849B	10g	82-75-7
4-Amino-1-naphthalene sulfonic acid		1850	10g	84-86-6
4-Amino-1,8-naphthalic anhydride		1171L	100mg	6492-86-0
4-Amino-1,8-naphthalimide		1072L	5g	1742-95-6
3-Amino-2-naphthol		1069L	1g	5417-63-0
5-Amino-1-naphthol		1150L	1g	83-55-6
4-Amino-1-naphthol hydrochloride		1030L	1g	5959-56-8
1-Amino-2-naphthol hydrochloride		1853F	1g	1198-27-2
1-Amino-2-naphthol-4-sulfonic acid		1855	5g	116-63-2
2-Amino-8-naphthol-6-sulfonic acid		1857A	10g	90-51-7
6-Amino-1-naphthol-3-sulfonic acid		1870	5g	87-02-5
5-Amino-1-naphthylamine-5-sulfonic acid		1465L	1g	84-89-9
6-Aminonicotinamide		1102L	100mg	329-89-5
4-Amino-3-nitrobenzoic acid		1081L	500mg	1588-83-6
2-Amino-6-nitrobenzothiazole		1141L	1g	6285-57-0
4-Amino-3-nitrobenzotrifluoride		1875F	5g	400-98-6
1-Amino-4-nitronaphthalene (S.G.)		0-2379	100mg	776-34-1
2-Amino-5-nitrophenol (R.G.)		1087L	1g	121-88-0
2-Amino-4-nitrophenol (S.G.)		0-898	500mg	99-57-0
		0-898	5g	99-57-0
2-Amino-5-nitropyridine		1942K	100mg	4214-76-0
2-Amino-5-nitrothiazole		1875B	10g	121-66-4
2-Amino-4-nitrotoluene		F934	1g	99-55-8
3-Amino-2-oxazolidinone sulfate		1949K	100mg	32957-26-9
3-Amino-2-oxazolidinone sulfate		1949K	100mg	32957-26-9
2-Aminopentane		1955K	100mg	625-30-9
5-Amino-1-pentanol		1878F	1g	2508-29-4
DL-2-Amino-1-pentanol		1958K	100mg	4146-04-7
o-Aminophenol (S.G.)		0-881	2g	95-55-6
		0-881	10g	95-55-6
m-Aminophenol (S.G.)		0-882	2g	591-27-5
		0-882	10g	591-27-5
p-Aminophenol (S.G.)		0-883	2g	123-30-8
		0-883	10g	123-30-8
p-Aminophenol hydrochloride		1880B	10g	51-78-5
DL-a-Aminophenylacetic acid		1717L	1g	2835-06-5
m-Aminophenylboronic acid hemisulfate		2725L	100mg	66472-86-4
2-Aminophenyl disulfide		1881F	10g	1141-88-4
4-Aminophenyl disulfide		1882E	10g	722-27-0
2-Amino-1-phenylethanol		1882F	1g	7568-93-6

Category Name	Specification	Catalog#	Size	CAS#
4-Aminophenyl ether		F2127	500mg	**101-80-4**
p-Aminophenylethyl alcohol (S.G.)		O-367	1g	**104-10-9**
		O-367	10g	**104-10-9**
b-(4-Aminophenyl)ethylamine		1883F	1g	**13472-00-9**
DL-3-Amino-3-phenylpropionic acid		1960K	100mg	**614-19-7**
4-Aminophenyl sulfone		3455J	1g	**80-08-0**
5-Amino-3-phenyl-1,2,4-thiadiazole		1963K	100mg	**17467-15-1**
2-Amino-4-phenylthiazole hydrobromide		1753L	1g	**52253-69-7**
m-Aminophenyl trifluoromethyl ether		1969K	100mg	**R**
4-Aminophthalhydrazide		1723L	100mg	**3682-14-2**
4-Aminophthalimide		1078L	1g	**3676-85-5**
3-Aminophthalimide		1120L	100mg	**2518-24-3**
2-Amino-3-picoline		1975K	1g	**1603-40-3**
2-Amino-4-picoline		1819B	10g	**695-34-1**
2-Amino-5-picoline		1825B	5g	**1603-41-4**
2-Amino-6-picoline		1820	5g	**1824-81-3**
N-Aminopiperidine		1884A	1g	**2213-43-6**
1-Amino-2,3-propanediol		1885F	1g	**616-30-8**
DL-2-Amino-1-propanol		1985K	100mg	**6168-72-5**
1-Amino-2-propanol (S.G.)		O-302	10g	**78-96-6**
3-Amino-1-propanol (S.G.)		O-303	5g	**156-87-6**
™ 3-Aminopropene see O-272 Allylamine				
3-Aminopropionitrile fumarate		1114L	1g	**2079-89-2**
p-Aminopropiophenone		1075L	100mg	**70-69-9**
N-(3-Aminopropyl)cyclohexylamine		1886H	5g	**3312-60-5**
6-Aminopurine		1550K	1g	**73-24-5**
Aminopyralid		PS-2315	100mg	**150114-71-9**
Aminopyrazine		1987K	100mg	**5049-61-6**
3-Aminopyrazole		1891F	1g	**1820-80-0**
5-Amino-4-pyrazolecarboxamide hemisulfate		1138L	100mg	**27511-79-1**
2-Aminopyridine (S.G.)		O-692	2g	**504-29-0**
		O-692	5g	**504-29-0**
3-Aminopyridine		1890	10g	**462-08-8**
4-Aminopyridine		PS-1010	1g	**504-24-5**
2-Aminopyrimidine		1895H	1g	**109-12-6**
1-Aminopyrrolidine hydrochloride		1989K	10mg	**16596-41-1**
8-Aminoquinoline		1042L	100mg	**578-66-5**
3-Aminoquinuclidine dihydrochloride		1897F	1g	**6530-09-2**
3-Aminorhodanine		1993K	10mg	**1438-16-0**
4-Aminosalicylic acid		1895E	5g	**65-49-6**
4-Aminosalicylic acid, sodium salt		2494L	1g	**6018-19-5**
4-Aminosulfonyl-1-hydroxy-2-naphthoic acid		4015L	100mg	**64415-15-2**
1-Amino-5,6,7,8-tetrahydronaphthalene (S.G.)		O-2380	100mg	**2217-41-6**
4-Amino-2,2,6,6-tetramethylpiperidine		1997K	100mg	**36768-62-4**
5-Aminotetrazole monohydrate		1919K	1g	**4418-61-5**
2-Amino-1,3,4-thiadiazole		1916F	100mg	**4005-51-0**
5-Amino-1,3,4-thiadiazole-2-thiol		1045L	1g	**2349-67-9**
2-Aminothiazole (S.G.)		O-710	2g	**96-50-4**
		O-710	5g	**96-50-4**
2-Amino-2-thiazoline		1063L	100mg	**1779-81-3**
4-Aminothiophenol		1913A	1g	**1193-02-8**
3-Aminothiophenol		2001K	100mg	**22948-02-3**
2-Aminotoluene		O-354	10g	**95-53-4**
3-Aminotoluene		O-355	5g	**108-44-1**
4-Aminotoluene		O-356	5g	**106-49-0**
Aminotriacetic acid		8440	5g	**139-13-9**
3-Amino-1,2,4-triazine		2005K	1g	**1120-99-6**
Aminotriazole		PS-382	250mg	**61-82-5**
3-Amino-1,2,4-triazole		PS-382	250mg	**61-82-5**
	100ug/mL in Acetonitrile	PS-382AJS	1mL	
	100ug/mL in Acetone	PS-382JS	1mL	
4-Amino-1,2,4-triazole		1927F	1g	**584-13-4**
4-Amino-1,2,4-triazole hydrochloride		1926F	1g	**R**
4-Amino-3,5,6-trichloropicolinic acid		F2041	250mg	**1918-02-1**
4-Amino-3,5,6-trichloropicolinic acid		PS-274	250mg	**1918-02-1**
4-Amino-3,5,6-trichloropicolinic acid methyl ester		PS-1108	100mg	**14143-55-6**
2-Amino-5-trifluoromethyl-1,3,4-thiadiazole		2010K	100mg	**10444-89-0**
3-Amino-2,4,6-triiodobenzoic acid		1711L	1g	**3119-15-1**
Amino tri(methylene phosphonic acid) (TECH)		CDF-16	5g	**6419-19-8**
Aminotri-2-propene		O-295	500mg	**102-70-5**

Category Name	Specification	Catalog#	Size	CAS#
5-Aminouracil		2012K	100mg	**932-52-5**
Aminozide™		PS-391	250mg	**1596-84-5**
Amiral™		PS-1013	500mg	**43121-43-3**
Amistar™		PS-2141	250mg	**131860-33-8**
Amitraz		PS-1005	250mg	**33089-61-1**
	100ug/mL in Acetonitrile	PS-1005AJS	1mL	
	100ug/mL in Toluene	PS-1005JS	1mL	
Amitrole™		PS-382	250mg	**61-82-5**
Amizine		PS-58	500mg	**122-34-9**
Amizol™		PS-2157	100mg	**79983-71-4**
Amizol™		PS-382	250mg	**61-82-5**
Ammo™		PS-1068	100mg	**52315-07-8**
Ammo™		PS-2203	250mg	**65731-84-2**
Ammonium @ 1000ug/ml in Water		XIC-NH-A	100mL	
		XIC-NH-B	250mL	
		XIC-NH-C	500mL	
		XIC-NH-M-A	100mL	
		XIC-NH-M-B	250mL	
		XIC-NH-M-C	500mL	
Ammonium reineckate		2755L	1g	**13573-16-5**
Ammonium reineckate		2755L	1g	**13573-16-5**
Ammonium abietate (TECH)		S-64	10g	**R**
Ammonium acetate		I-6	10g	**631-61-8**
Ammonium Acetate (NH4Ac) 99,999%		XNH-AC-S-A	5g	
		XNH-AC-S-B	25g	
Ammonium amidosulphate		PS-344	1g	**7773-06-0**
Ammonium bicarbonate		I-7	10g	**1066-33-7**
Ammonium bifluoride-crystal		I-1230	10g	**1341-49-7**
Ammonium bisulfate-crystal		I-1240	10g	**7803-63-6**
Ammonium Bromide (NH4Br) 99,999%		XNH-B-S-A	5g	
		XNH-B-S-B	25g	
Ammonium bromide-granular		I-1250	10g	**12124-97-9**
Ammonium caprate (TECH)		S-54	10g	**R**
Ammonium carbonate		I-1260	10g	**10361-29-2**
Ammonium Carbonate ((NH4)2C03) 99,999%		XNH-CO-S-A	5g	
		XNH-CO-S-B	25g	
Ammonium chloride		I-8	10g	**12125-02-9**
Ammonium Chloride (NH4Cl) 99,999%		XNH-CL-S-A	5g	
		XNH-CL-S-B	25g	
Ammonium chromate-powder		I-1265	10g	**7788-98-9**
Ammonium citrate-dibasic		I-1270	10g	**3012-65-5**
Ammonium dichromate-crystal		I-1280	10g	**7789-09-5**
Ammonium Dihydrogen Phosphate (NH4H2P04) 99,999%		XP-NH-S-A	5g	
		XP-NH-S-B	25g	
Ammonium ethyl carbamoylphosphonate		PS-414	1g	**25954-13-6**
Ammonium fluoride-crystal		I-1290	10g	**12125-01-8**
Ammonium fluosilicate Solution				
Ammonium fluosilicate		PS-291	1g	**16919-19-0**
	100ug/mL in Toluene	PS-291JS	1mL	
	100ug/mL in De-ionized water	PS-291AJS	1mL	
Ammonium formate		1916C	10g	**540-69-2**
Ammonium hexafluorophosphate		I-1315	10g	**16941-11-0**
Ammonium Hexafluorosilicate ((NH4)2SiF6) 99,999%		XSI-F-S-A	5g	
		XSI-F-S-B	25g	
Ammonium hexafluorotitanate		I-1335	10g	**16962-40-6**
Ammonium hydroxide		I-9	10g	**1336-21-6**
Ammonium-4-[hydroxy(methyl)phosphinoyl]-DL-homoalaninate		PS-2124	250mg	**77182-82-2**
Ammonium iodide		I-10	10g	**12027-06-4**
Ammonium laurate (TECH)		S-55	10g	**R**
Ammonium lauryl sulfate (TECH)		S-389	10g	**68081-96-9**
Ammonium linoleate (TECH)		S-61	10g	**R**
Ammonium magnesium phosphate		I-1345	1g	**13478-16-5**
Ammonium Molybdate ((NH4)6Mo7024 X 4 H20) 99,999%		XMO-NH-S-A	5g	
		XMO-NH-S-B	20g	
Ammonium molybdate tetrahydrate		I-11	10g	**12054-85-2**
Ammonium monoethylphenyl-phenol monosulfonate (TECH)		S-452	10g	**R**
Ammonium myristate (TECH)		S-56	10g	**R**
Ammonium naphthenate (TECH)		S-63	10g	**R**
Ammonium Nitrate (NH4N03) 99,999%		XNH-NO-S-A	5g	
		XNH-NO-S-B	25g	
Ammonium oleate (TECH)		S-60	10g	**544-60-5**
Ammonium oxalate		I-1350	10g	**6009-70-7**
Ammonium palmitate (TECH)		S-57	10g	**593-26-0**

Category Name	Specification	Catalog#	Size	CAS#
Ammonium persulfate		I-1360	10g	**7727-54-0**
Ammonium petroleum sulfonate - (MW 445) (TECH)		S-435	10g	**R**
Ammonium phosphated castor oil (TECH)		S-479	10g	**R**
Ammonium phosphate-dibasic		I-14	10g	**7783-28-0**
Ammonium phosphate-monobasic		I-13	10g	**7722-76-1**
Ammonium phosphomolybdate		I-1370	5g	**12026-66-3**
Ammonium rhodanilate		1937H	100mg	**R**
Ammonium ricinoleate (TECH)		S-62	10g	**R**
Ammonium salicylate		1939F	10g	**528-94-9**
Ammonium stearate (TECH)		S-58	10g	**1002-89-7**
Ammonium sulfamate		PS-344	1g	**7773-06-0**
	100ug/mL in H2O	PS-344AJS	1mL	
	100ug/mL in Toluene	PS-344JS	1mL	
Ammonium sulfate		I-15	10g	**7783-20-2**
Ammonium Sulfate ((NH4)2SO4) 99,99+%		XSO-S-A	5g	
		XSO-S-B	25g	
Ammonium sulfide (20% solution in H20)		I-16	10g	**12135-76-1**
Ammonium sulfite		I-1410	10g	**10196-04-0**
Ammonium tartrate		1940F	10g	**3164-29-2**
Ammonium tetrafluoroborate		I-1416	1g	**13826-83-0**
Ammonium thiocyanate		I-17	10g	**1762-95-4**
Ammonium undecylenate (TECH)		S-59	10g	**R**
Ammonium-m-vanadate		I-18	10g	**7803-55-6**
Ammonium Vanadate (NH4VO3)		XV-NH-S-A	5g	
		XV-NH-S-B	25g	
Ammonium xylene sulfonate (TECH)		S-424	10g	**R**
Amobam		PS-228	1g	**3566-10-7**
Ampicillin anhydrous		1459L	1g	**69-53-4**
Amprolium		1943F	1g	**121-25-5**
AMS		PS-344	1g	**7773-06-0**
n-Amyl acetate (S.G.)		F2533	5g	**628-63-7**
n-Amyl acetate (S.G.)		O-2003	5g	**628-63-7**
		O-2003	10g	**628-63-7**
n-Amyl alcohol (S.G.)		F2534	5g	**71-41-0**
n-Amyl alcohol (S.G.)		O-139	10g	**71-41-0**
tert-Amyl alcohol (S.G.)		O-141	10g	**75-85-4**
Amylamine (S.G.)		O-2004	1g	**110-58-7**
		O-2004	5g	**110-58-7**
tert-Amylamine		2013K	10mg	**594-39-8**
sec-Amyl benzene		1957E	2.5g	**2719-52-0**
n-Amyl borate		1960	5g	**R**
sec-Amyl iodide		1954F	1g	**637-97-8**
n-Amyl iodide		2014K	1g	**628-17-1**
n-Amyl isopropyl ketone		1975E	1g	**R**
n-Amyl mercaptan (S.G.)		O-2005	2g	**110-66-7**
tert-Amyl mercaptan (S.G.)		O-2006	1g	**1679-09-0**
tert-Amyl methyl ether (S.G.)		F2461	1g	**994-05-8**
	100ug/mL in t-Butyl methyl ether	F2461JS	1mL	
	100ug/mL in t-Butyl methyl ether	F2461S	5mL	
p-n-Amyl phenol		1957F	100mg	**14938-35-3**
p-tert-Amyl phenol		1958F	10g	**80-46-6**
tert-Amylurea (mono)		1982B	10g	**R**
Anchor™		PS-2137	100mg	**77732-09-3**
Ancymidol		PS-1008	100mg	**12771-68-5**
	100ug/mL in Methanol	PS-1008JS	1mL	
5-alpha-Androstane (S.G.)		F2516	10mg	**438-22-2**
	1000ug/mL in Methylene chloride	F2516AJS	1mL	
	1000ug/mL in Methylene chloride	F2516AS	5mL	
	2000ug/mL in Methylene chloride	F2516JS	1mL	
	2000ug/mL in Methylene chloride	F2516S	5mL	
Anethole (S.G.)		O-580	1g	**4180-23-8**
		O-580	10g	**4180-23-8**
a-Angelicalactone		1999E	5g	**591-12-8**
Anilazine	100ug/mL in Acetonitrile	PS-388AJS	1mL	
Anilazine (S.G.)		F2089	250mg	**101-05-3**
	100ug/mL in Toluene	F2089JS	1mL	
	100ug/mL in Toluene	F2089S	5mL	
Anilazine		PS-388	250mg	**101-05-3**
Aniline (S.G.)		F701	5g	**62-53-3**
	100ug/mL in Methanol	F701JS	1mL	
	100ug/mL in Methanol	F701S	5mL	
Aniline (S.G.)		O-335	10g	**62-53-3**
Aniline (13C6) (S.G.)		FC701-A	0.1g	**R**
		FC701-C	0.25g	**R**
Aniline-d5 (S.G.) (S.G.)		F300	100mg	**4165-61-1**
	2000ug/mL in Methanol	F300JS	1mL	
	2000ug/mL in Methanol	F300S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Aniline-d7 (S.G.)		F2549	100mg	**14545-23-4**
Aniline blue/C,I,#42755		BS-57	1g	**28631-66-5**
Aniline blue black/C,I,#20470		BS-33	1g	**1064-48-8**
Aniline hydrobromide		1990E	5g	**542-11-0**
Aniline hydrochloride (S.G.)		O-336	2g	**142-04-1**
		O-336	10g	**142-04-1**
Aniline sulfate		2001B	10g	**542-16-5**
2-Anilinoethanol (S.G.)		O-368	5g	**122-98-5**
		O-368	10g	**122-98-5**
p-Anilinophenol (S.G.)		O-884	2g	**122-37-2**
		O-884	5g	**122-37-2**
3-Anilinopropionitrile		1111L	1g	**1075-76-9**
p-Anisaldehyde (S.G.)		O-245	2g	**123-11-5**
p-Anisic acid (S.G.)		O-113	2g	**100-09-4**
		O-113	10g	**100-09-4**
m-Anisidine		2002E	5g	**536-90-3**
o-Anisidine (S.G.)		F2090	2g	**90-04-0**
	100ug/mL in Methanol	F2090JS	1mL	
	100ug/mL in Methanol	F2090S	5mL	
o-Anisidine (S.G.)		O-358	2g	**90-04-0**
p-Anisidine (S.G.)		O-359	5g	**104-94-9**
		O-359	10g	**104-94-9**
o-Anisidine hydrochloride		1987F	5g	**134-29-2**
p-Anisidine hydrochloride		1117L	1g	**20265-97-8**
Anisole (S.G.)		O-581	5g	**100-66-3**
p-Anisyl alcohol (S.G.)		O-220	2g	**105-13-5**
		O-220	10g	**105-13-5**
Anisylidene barbituric acid		2005E	1g	**R**
N-(p-Anisylidene)-p-phenylazoaniline		1594L	100mg	**R**
Anitmony Metallo-Organic Standard 1000ug/g in Mineral Oil		XSBOMS	100g	
Anofex™		PS-74	250mg	**8017-34-3**
Ansar™		PS-51	500mg	**75-60-5**
Ansar 170™		PS-429	100mg	**2163-80-6**
Ansar 8100		PS-281	500mg	**144-21-8**
Anthio™		PS-2036	100mg	**2540-82-1**
Anthiphen™		PS-6	250mg	**97-23-4**
Anthon		PS-608	1g	**52-68-6**
Anthracene (S.G.)		F78	1g	**120-12-7**
	100ug/mL in Toluene	F78JS	1mL	
	100ug/mL in Toluene	F78S	5mL	
Anthracene (S.G.)	100ug/mL in Methanol	F78MJS	1mL	
Anthracene (S.G.)	100ug/mL in Methanol	F78MS	5mL	
Anthracene (S.G.)		O-783	1g	**120-12-7**
		O-783	10g	**120-12-7**
Anthracene (13C6)	100ug/mL in n-Nonane	FC78S	1.2mL	
Anthracene-d10 (S.G.)		F207	100mg	**1719-06-8**
	2000ug/mL in Methylene chloride	F207AJS	1mL	
	2000ug/mL in Methylene chloride	F207AS	5mL	
	100ug/mL in Methanol	F207JS	1mL	
	100ug/mL in Methanol	F207S	5mL	
9-Anthraldehyde		1051L	1g	**642-31-9**
Anthranilamide		2015F	5g	**88-68-6**
Anthranilic acid (S.G.)		O-94	2g	**118-92-3**
		O-94	5g	**118-92-3**
Anthranilonitrile		2020K	1g	**1885-29-6**
Anthraquinone (S.G.)		O-926	5g	**84-65-1**
		O-926	10g	**84-65-1**
9,10-Anthraquinone		PS-926	1g	**84-65-1**
Anthraquinone		PS-926	1g	**84-65-1**
	100ug/mL in Methanol	PS-926JS	1mL	
1,5-Anthraquinone disulfonic acid disodium salt		2005	5g	**853-35-0**
1-Anthraquinone sulfonic acid sodium salt		2007B	10g	**128-56-3**
2-Anthraquinonesulfonic acid sodium salt monohydrate (S.G.)		O-953	2g	**131-08-8**
		O-953	10g	**131-08-8**
Anthrone		1991A	5g	**90-44-8**
Antiborer 3767™		PS-2203	250mg	**65731-84-2**
Anticarie™		PS-690	250mg	**118-74-1**
Anti-K™		PS-2056	10mg	**59-40-5**
Antimilace™		PS-2030	1g	**9002-91-9**
Antimony - 10% HNO3 + 2% HF		X10M 2-3-100	100mL	
		X10M 2-3-250	250mL	
		X10M 2-3-500	500mL	
Antimony - 50% HCl		X10M 2-2-100	100mL	
		X10M 2-2-250	250mL	
		X10M 2-2-500	500mL	
Antimony - Sb metal as Sb+3, 99,999%, 20% HCl		X10002-6-A	100mL	
		X10002-6-B	250mL	
		X10002-6-C	500mL	

Category Name	Specification	Catalog#	Size	CAS#
Antimony - Sb metal, 99,999%, 20% HCl		X10002-2-A	100mL	
		X10002-2-B	250mL	
		X10002-2-C	500mL	
Antimony - Sb metal, 99,999%, 5% Tartaric Acid		X10002-8-A	100mL	
		X10002-8-B	250mL	
		X10002-8-C	500mL	
Antimony - Sb metal,99,999%,5% HNO3 + 0,1% HF		X10002-3-A	100mL	
		X10002-3-B	250mL	
		X10002-3-C	500mL	
Antimony - Sb2O5, 99,999%, 5% HBr		X10002-7-A	100mL	
		X10002-7-B	250mL	
		X10002-7-C	500mL	
Antimony acetate		I-1420	10g	**6923-52-0**
Antimony arsenite		I-1460	10g	**28980-48-5**
Antimony Metal Sb 99,999%		XSB-M-A	2g	
		XSB-M-B	10g	
Antimony Metal Sb 99,999%		XSB-M-A	2g	
		XSB-M-B	10g	
Antimony Oxide (Sb2O3) 99,998%		XSB-O-A	2g	
		XSB-O-B	10g	
Antimony oxychloride		I-1500	1g	**7791-08-4**
Antimony pentachloride		I-1510	10g	**7647-18-9**
Antimony pentoxide		I-1530	10g	**1314-60-9**
Antimony phosphate		I-1540	1g	**12036-46-3**
Antimony phosphide		I-1545	500mg	**25889-81-0**
Antimony potassium tartrate powder		I-1550	10g	**28300-74-5**
Antimony sulfate		I-1560	5g	**7446-32-4**
Antimony tetroxide		I-1580	1g	**1332-81-6**
Antimony trichloride		I-19	10g	**10025-91-9**
Antimony triethoxide		I-1600	1g	**10433-06-4**
Antimony trioxide-powder		I-1620	10g	**1309-64-4**
Antimony trisulfide-red		I-1630	10g	**1345-04-6**
Antinonnin™		PS-57	1g	**534-52-1**
Antipyrene		2021F	10g	**60-80-0**
Antor™		PS-1006	100mg	**38727-55-8**
Antracol™		PS-2062	250mg	**9016-72-2**
ANTU		PS-106	250mg	**86-88-4**
Anturat™		PS-106	250mg	**86-88-4**
Anvil™		PS-2157	100mg	**79983-71-4**
4-Aminopyridine		PS-1010	1g	**504-24-5**
	100ug/mL in Methanol	PS-1010JS	1mL	
Apache™		PS-2199	100mg	**95465-99-9**
Aparasin™		PS-71	500mg	**58-89-9**
Aphamite™		PS-95	500mg	**56-38-2**
Aphtiria		PS-71	500mg	**58-89-9**
Apistan™		PS-1071	100mg	**102851-06-9**
Apl-Luster™		PS-1057	1g	**148-79-8**
Apogee™		PS-2226	100mg	**127277-53-6**
Apollo™		PS-2015	100mg	**74115-24-5**
Appendix IX		Appendix IX	KIT	
Applaud™		PS-2067	100mg	**69327-76-0**
Aprocarb™		PS-551	1g	**114-26-1**
Apron™		PS-1099	100mg	**57837-19-1**
Aquacide™		PS-365	500mg	**6385-62-2**
Aquacycline™		PS-2200	250mg	**2058-46-0**
Aqua-Kleen™		PS-315	250mg	**1929-73-3**
D-Arabinitol		CARB-24	1g	**488-82-4**
L-Arabinitol		CARB-25	1g	**7643-75-6**
(+)-Arabinogalactan		2000H	1g	**9036-66-2**
DL-Arabinose		CARB-1	2g	**20235-19-2**
		CARB-1	5g	**20235-19-2**
L-Arabinose		CARB-2	5g	**87-72-9**
D-Araboascorbic acid		1975H	1g	**89-65-6**
Arachidic acid		O-2327	500mg	**506-30-9**
Aracide™	100ug/mL in Hexane	PS-850	5mL	**140-57-8**
Aramite	100ug/mL in Hexane	PS-850	5mL	**140-57-8**
Arasan™		PS-24	1g	**137-26-8**
Arbotec™		PS-1057	1g	**148-79-8**
Ardap™		PS-2203	250mg	**65731-84-2**
Arelon™		PS-2000	100mg	**34123-59-6**
Aresin™		PS-2210	250mg	**1746-81-2**
A-Rest™		PS-1008	100mg	**12771-68-5**

Category Name	Specification	Catalog#	Size	CAS#
Arezine™		PS-2210	250mg	**1746-81-2**
L-(+)-Arginine hydrochloride (TECH)		AA-3	1g	**1119-34-2**
L-(+)-Arginine hydrochloride (TECH)		AA-3	5g	**1119-34-2**
Arginine-b-naphthylamide hydrochloride		1897L	100mg	**R**
Arial Gramoxone™		PS-366	500mg	**1910-42-5**
Armor™		PS-2073	250mg	**66215-27-8**
Armour™		PS-2177	100mg	**76674-21-0**
Arochlor 1016 (S.G.)		F107	50mg	**12674-11-2**
	1000ug/mL in Hexane	F107AJS	1mL	
	1000ug/mL in Hexane	F107AS	5mL	
	100ug/mL in Transformer Oil	F107BJS	1mL	
	100ug/mL in Transformer Oil	F107BS	5mL	
	1000ug/mL in Isooctane	F107CJS	1mL	
	1000ug/mL in Isooctane	F107CS	5mL	
	100ug/mL in Methanol	F107JS	1mL	
	100ug/mL in Methanol	F107S	5mL	
Arochlor 1221 (S.G.)		F108	1g	**11104-28-2**
	1000ug/mL in Hexane	F108AJS	1mL	
	1000ug/mL in Hexane	F108AS	5mL	
	100ug/mL in Transformer Oil	F108BJS	1mL	
	100ug/mL in Transformer Oil	F108BS	5mL	
	1000ug/mL in Isooctane	F108CJS	1mL	
	1000ug/mL in Isooctane	F108CS	5mL	
	100ug/mL in Methanol	F108JS	1mL	
	100ug/mL in Methanol	F108S	5mL	
Arochlor 1232 (S.G.)		F113	10mg	**11141-16-5**
	1000ug/mL in Hexane	F113AJS	1mL	
	1000ug/mL in Hexane	F113AS	5mL	
	100ug/mL in Transformer Oil	F113BJS	1mL	
	100ug/mL in Transformer Oil	F113BS	5mL	
	1000ug/mL in Isooctane	F113CJS	1mL	
	1000ug/mL in Isooctane	F113CS	5mL	
	100ug/mL in Methanol	F113JS	1mL	
	100ug/mL in Methanol	F113S	5mL	
Arochlor 1242 (S.G.)		F109	100mg	**53469-21-9**
	1000ug/mL in Hexane	F109AJS	1mL	
	1000ug/mL in Hexane	F109AS	5mL	
	100ug/mL in Transformer Oil	F109BJS	1mL	
	100ug/mL in Transformer Oil	F109BS	5mL	
	1000ug/mL in Isooctane	F109CJS	1mL	
	1000ug/mL in Isooctane	F109CS	5mL	
	100ug/mL in Methanol	F109JS	1mL	
	100ug/mL in Methanol	F109S	5mL	
Arochlor 1248 (S.G.)		F110	50mg	**12672-29-6**
	1000ug/mL in Hexane	F110AJS	1mL	
	1000ug/mL in Hexane	F110AS	5mL	
	100ug/mL in Transformer Oil	F110BJS	1mL	
	100ug/mL in Transformer Oil	F110BS	5mL	
	1000ug/mL in Isooctane	F110CJS	1mL	
	1000ug/mL in Isooctane	F110CS	5mL	
	100ug/mL in Methanol	F110JS	1mL	
	100ug/mL in Methanol	F110S	5mL	
Arochlor 1254 (S.G.)		F111	50mg	**11097-69-1**
	1000ug/mL in Hexane	F111AJS	1mL	
	1000ug/mL in Hexane	F111AS	5mL	
	100ug/mL in Transformer Oil	F111BJS	1mL	
	100ug/mL in Transformer Oil	F111BS	5mL	
	1000ug/mL in Isooctane	F111CJS	1mL	
	1000ug/mL in Isooctane	F111CS	5mL	
	100ug/mL in Methanol	F111JS	1mL	
	100ug/mL in Methanol	F111S	5mL	
Arochlor 1260 (S.G.)		F112	50mg	**11096-82-5**
	2000ug/mL in Methanol	F112AJS	1mL	
	2000ug/mL in Methanol	F112AS	5mL	
	1000ug/mL in Hexane	F112BJS	1mL	
	1000ug/mL in Hexane	F112BS	5mL	
	100ug/mL in Transformer Oil	F112CJS	1mL	
	100ug/mL in Transformer Oil	F112CS	5mL	
	1000ug/mL in Isooctane	F112DJS	1mL	
	1000ug/mL in Isooctane	F112DS	5mL	
	100ug/mL in Methanol	F112JS	1mL	
	100ug/mL in Methanol	F112S	5mL	
Arochlor 1262 (S.G.)		F293	1g	**37324-23-5**
	100ug/mL in Transformer Oil	F293AJS	1mL	
	100ug/mL in Transformer Oil	F293AS	5mL	
	1000ug/mL in Isooctane	F293BJS	1mL	
	1000ug/mL in Isooctane	F293BS	5mL	
	100ug/mL in Methanol	F293JS	1mL	
	100ug/mL in Methanol	F293S	5mL	
Arochlor 1268 (S.G.)		F295	1g	**11100-14-4**
	100ug/mL in Transformer Oil	F295AJS	1mL	
	100ug/mL in Transformer Oil	F295AS	5mL	
	100ug/mL in Methanol	F295JS	1mL	
	100ug/mL in Methanol	F295S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Arochlor 2565 (S.G.)		F870	100mg	**37324-24-6**
	100ug/mL in Methanol	F870JS	1mL	
	100ug/mL in Methanol	F870S	5mL	
Arochlor 5432 (S.G.)		F290	1g	**63496-31-1**
	100ug/mL in Methanol	F290JS	1mL	
	100ug/mL in Methanol	F290S	5mL	
Arochlor 5442 (S.G.)		F860	100mg	**12642-23-8**
	100ug/mL in Methanol	F860JS	1mL	
	100ug/mL in Methanol	F860S	5mL	
Arochlor 5460 (S.G.)		F292	1g	**11126-42-4**
	100ug/mL in Methanol	F292JS	1mL	
	100ug/mL in Methanol	F292S	5mL	
Arochlor 6040 (S.G.)		F294	1g	**8068-50-6**
	100ug/mL in Methanol	F294JS	1mL	
	100ug/mL in Methanol	F294S	5mL	
Arochlor 6062 (S.G.)		F296	1g	**39295-99-3**
	100ug/mL in Methanol	F296JS	1mL	
	100ug/mL in Methanol	F296S	5mL	
Arochlor 6070 (S.G.)		F298	1g	**R**
	100ug/mL in Methanol	F298JS	1mL	
	100ug/mL in Methanol	F298S	5mL	
Arrat™		PS-1014	250mg	**13684-63-4**
p-Arsanilic acid (S.G.)		O-992	5g	**98-50-0**
		O-992	10g	**98-50-0**
Arsenal™		PS-2016	100mg	**81334-34-1**
Arsenic metal		I-1650	1g	**7440-38-2**
Arsenic - 10% HN03		X10M 3-1-100	100mL	
		X10M 3-1-250	250mL	
		X10M 3-1-500	500mL	
Arsenic - 15% HCl		X10M 3-2-100	100mL	
		X10M 3-2-250	250mL	
		X10M 3-2-500	500mL	
Arsenic - As metal 99,999%,2% HCl		X10003-2-A	100mL	
		X10003-2-B	250mL	
		X10003-2-C	500mL	
Arsenic - As metal, 99,999%, 2% HN03		X10003-1-A	100mL	
		X10003-1-B	250mL	
		X10003-1-C	500mL	
Arsenic - As203 as As+3, 99,999%, 2% HCl		X10003-6-A	100mL	
		X10003-6-B	250mL	
		X10003-6-C	500mL	
Arsenic - As203 as As+5, 99,999%, 2% NaOH		X10003-7-A	100mL	
		X10003-7-B	250mL	
		X10003-7-C	500mL	
Arsenic Metallo-Organic Standard 50ug/g in Mineral Oil		XASOMS	100g	
Arsenic Metal As 99,999%		XAS-M-A	5g	
		XAS-M-B	25g	
Arsenic Oxide (As203) 99,999%		XAS-O-A	5g	
		XAS-O-B	25g	
Arsenic phosphide		I-1660	500mg	**12255-33-3**
Arsenic trioxide		I-1690	10g	**1327-53-3**
Arsenic trisulfide		I-1695	100mg	**1303-33-9**
Arsenous acid		I-1690	10g	**1327-53-3**
Arsinyl™		PS-281	500mg	**144-21-8**
l-Arterenol-d-bitartrate monohydrate		2030F	1g	**R**
DL-Arterenol		2635L	100mg	**55-27-6**
Arylam™		PS-84	250mg	**63-25-2**
Asalto™		PS-2216	100mg	**134098-61-6**
Ascabin		PS-904	1g	**120-51-4**
Ascabiol™		PS-904	1g	**120-51-4**
L-Ascorbic acid (S.G.)		O-933	2g	**50-81-7**
		O-933	10g	**50-81-7**
L-Ascorbic acid		V-16	2g	**50-81-7**
Ascurit™		PS-2175	250mg	**67747-09-5**
Asp-51		PS-663	50mg	**3244-90-4**
DL-Asparagine monohydrate (S.G.)		O-34	500mg	**3130-87-8**
		O-34	5g	**3130-87-8**
L-(+)-Aspartic acid		2028F	5g	**56-84-8**
DL-Aspartic acid (R.G.)		AA-4	1g	**617-45-8**
		AA-4	5g	**617-45-8**
DL-Aspartic acid (S.G.)		O-72	5g	**617-45-8**
		O-72	10g	**617-45-8**
Aspilan™		PS-2219	100mg	**135410-20-7**
Aspon (TM)		PS-663	50mg	**3244-90-4**
	100ug/mL in Acetonitrile	PS-663JS	1mL	
Aspon (TM) (S.G.)		F2420	50mg	**3244-90-4**
	1000ug/mL in Hexane	F2420JS	1mL	
	1000ug/mL in Hexane	F2420S	5mL	
Assert™		PS-2195	100mg	**81405-85-8**
Assure II™		PS-2151	500mg	**100646-51-3**
Assure Weed Killer™		PS-1080	100mg	**76578-14-8**

Category Name	Specification	Catalog#	Size	CAS#
Asulam (S.G.)		F2217	250mg	**3337-71-1**
	100ug/mL in Methanol	F2217JS	1mL	
	100ug/mL in Methanol	F2217S	5mL	
Asulam		PS-1009	250mg	**3337-71-1**
Asulox™		PS-1009	250mg	**3337-71-1**
Asulox 40™		PS-1009	250mg	**3337-71-1**
Asulox F™		PS-1009	250mg	**3337-71-1**
Asuntol™		PS-656	100mg	**56-72-4**
ATA™		PS-382	250mg	**61-82-5**
Atemi™		PS-2130	50mg	**94361-06-5**
Athrombine-K™		PS-104	1g	**81-81-2**
Atominal™		PS-2110	100mg	**95737-68-1**
Atraton	100ug/mL in Acetonitrile	PS-395AJS	1mL	
Atratol™		PS-380	250mg	**1912-24-9**
Atraton (S.G.)		F2211	250mg	**1610-17-9**
	100ug/mL in t-Butylmethyl ether	F2211JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2211S	5mL	
Atraton		PS-395	250mg	**1610-17-9**
Atrazine	100ug/mL in Acetonitrile	PS-380AJS	1mL	
Atrazine (S.G.)		F2208	250mg	**1912-24-9**
	100ug/mL in t-Butylmethyl ether	F2208JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2208S	5mL	
Atrazine		PS-380	250mg	**1912-24-9**
Atrazine (13C3) Solution (S.G.)	100ug/mL in n-Nonane	FC2208S	1.2mL	
Atrazine (ethylamine-d5) (S.G.)		FD2208-5	5mg	**R**
	100ug/mL in n-Nonane	FD2208S	1.2mL	
Atrazine desethyl		MET-380B	50mg	**6190-65-4**
Atrazine desethyl desisopropyl-2-hydroxy		MET-380E	50mg	**645-92-1**
Atrazine desethyl-2-hydroxy		MET-380D	50mg	**19988-24-0**
Atrazine desisopropyl		MET-58A	50mg	**1007-28-9**
Atrazine-2-hydroxy		MET-380F	50mg	**2163-68-0**
Atrolactic acid hemihydrate		2020	100mg	**515-30-0**
Atropine		2872L	500mg	**51-55-8**
Atropine methyl nitrate		2031F	1g	**52-88-0**
Auligen		PS-66	250mg	**502-55-6**
Aulinogen		PS-66	250mg	**502-55-6**
Auramine O/C,I,#41000		BS-43	1g	**2465-27-2**
Aurin tricarboxylic acid ammonium salt		2035C	1g	**569-58-4**
Authority™		PS-2132	250mg	**122836-35-5**
Avadex™		PS-507	100mg	**2303-16-4**
Avadex BW™		PS-506	1g	**2303-17-5**
Avenge™		PS-404	250mg	**43222-48-6**
Avermectin B1		PS-2068	100mg	**71751-41-2**
Avid™		PS-2068	100mg	**71751-41-2**
Avitrol™		PS-1010	1g	**504-24-5**
Avolin™		PS-901	1g	**131-11-3**
3-Azabicyclo[3,2,2]nonane		2040	100mg	**283-24-9**
Azak™		PS-550	100mg	**1918-11-2**
2-Azacyclononanone		2034F	1g	**935-30-8**
1-Azacyclopentane		O-294	1g	**123-75-1**
2-Azacyclotridecanone		2035F	10g	**947-04-6**
Azadirachtin		PS-2075	10mg	**11141-17-6**
7-Azaindole		2041B	500mg	**271-63-6**
Azamethiphos		PS-1202	5mL	**35575-96-3**
Azatin™		PS-2075	10mg	**11141-17-6**
Azelaic acid (S.G.)		O-61	2g	**123-99-9**
		O-61	5g	**123-99-9**
N-5-Azido-2-nitrobenzoyloxy succinimide		2023K	10mg	**R**
Azinphos ethyl		PS-673	100mg	**2642-71-9**
Azinphos-methyl		F2055	250mg	**86-50-0**
Azinphos methyl		PS-666	250mg	**86-50-0**
Azinphos-methyl oxon	100 ug/mL in Toluene	MET-666A	5mL	**961-22-8**
Azobenzene (S.G.)		F2007	500mg	**103-33-3**
	100ug/mL in Methanol	F2007JS	1mL	
	100ug/mL in Methanol	F2007S	5mL	
Azobenzene (S.G.)		O-383	500mg	**103-33-3**
		O-383	10g	**103-33-3**
Azobenzene		PS-851	1g	**103-33-3**
2,2-Azobis(2-methylpropionitrile)		O-384	10g	**78-67-1**
Azocarmine G/C,I,#50085		BS-74	1g	**25641-18-3**
Azocyclotin		PS-2063	250mg	**41083-11-8**
	100ug/mL in Acetonitrile	PS-2063AJS	1mL	
Azodicarbonamide		1168L	1g	**123-77-3**

Category Name	Specification	Catalog#	Size	CAS#
2,2'-Azodiisobutyronitrile (S.G.)		O-384	2g	**78-67-1**
		O-384	10g	**78-67-1**
Azodrin		PS-609	250mg	**6923-22-4**
Azofene		PS-682	100mg	**2310-17-0**
Azofume™		PS-851	1g	**103-33-3**
Azolitmin		2034J	100mg	**1395-18-2**
4,4'-Azoxyanisole		2025K	100mg	**1562-94-3**
Azoxybenzene (S.G.)		O-385	500mg	**495-48-7**
		O-385	2g	**495-48-7**
Azoxystrobin		PS-2141	250mg	**131860-33-8**
	100ug/mL in Acetonitrile	PS-2141AJS	1mL	
	100ug/mL in Toluene	PS-2141JS	1mL	
Azulene (S.G.)		F1000	10mg	**275-51-4**
	100ug/mL in Toluene	F1000JS	1mL	
	100ug/mL in Toluene	F1000S	5mL	
Azure B bromide/C,I,#52010		BS-161	1g	**531-55-5**
Azure C		BS-105	1g	**531-57-7**
B-622		PS-388	250mg	**101-05-3**
BAAM™		PS-1005	250mg	**33089-61-1**
Balan™		PS-389	250mg	**1861-40-1**
Balance™		PS-2166	100mg	**141112-29-0**
Balsam canada (neutral in xylene)		2056H	5g	**R**
Bancol™		PS-2106	250mg	**17606-31-4**
Banol		PS-1085	100mg	**671-04-5**
	100ug/mL in Acetonitrile	PS-1085AJS	1mL	
	100ug/mL in Toluene	PS-1085JS	1mL	
Banol turf fungicide™		PS-2167	250mg	**25606-41-1**
Bantrol™		PS-397	100mg	**1689-83-4**
Bantu™		PS-106	250mg	**86-88-4**
Banvel™		PS-346	250mg	**1918-00-9**
BAP		PS-2206	250mg	**1214-39-7**
Barbamate™		PS-540	100mg	**101-27-9**
Barban (S.G.)		F2091	100mg	**101-27-9**
	100ug/mL in Methanol	F2091JS	1mL	
	100ug/mL in Methanol	F2091S	5mL	
Barban		PS-540	100mg	**101-27-9**
Barben™		PS-666	250mg	**86-50-0**
Barbituric acid (R.G.)		2100K	1g	**67-52-7**
Barium metal		I-1700	1g	**7440-39-3**
Barium - 4% HNO3		X10M 4-1-100	100mL	
		X10M 4-1-250	250mL	
		X10M 4-1-500	500mL	
Barium - 5% HCl		X10M 4-2-100	100mL	
		X10M 4-2-250	250mL	
		X10M 4-2-500	500mL	
Barium - BaCO3, 99,99%, 2% HCl		X10004-2-A	100mL	
		X10004-2-B	250mL	
		X10004-2-C	500mL	
Barium - BaCO3, 99,99%, 2% HNO3		X10004-1-A	100mL	
		X10004-1-B	250mL	
		X10004-1-C	500mL	
Barium acetate		I-20	10g	**543-80-6**
Barium antimonate		I-1710	10g	**15600-59-6**
Barium antimony tartrate		I-1720	1g	**12655-04-8**
Barium-m-borate		I-1725	500mg	**13701-59-2**
Barium cadmium laurate (TECH)		Ou-60	3g	**R**
		Ou-60	10g	**R**
Barium carbonate		I-21	10g	**513-77-9**
Barium Carbonate (BaCO3) 99,999%		XBA-CO-S-A	5g	
		XBA-CO-S-B	25g	
Barium chlorate		I-1730	10g	**13477-00-4**
Barium chloride		I-22	10g	**10361-37-2**
Barium Chloride (BaCl2) 99,999%		XBA-CL-S-A	10g	
		XBA-CL-S-B	25g	
Barium chromate		I-1736	1g	**10294-40-3**
Barium dioxide		I-1740	10g	**1304-29-6**
Barium diphenylamine sulfonate		2046F	1g	**6211-24-1**
Barium hexafluorogermanate		I-1750	100mg	**60897-63-4**
Barium hexafluorosilicate		I-1760	10g	**17125-80-3**
Barium hydroxide-octahydrate		I-23	10g	**12230-71-6**
Barium Metallo - Organic Standard 1000ug/g in Mineral Oil		XBAOMS	100g	
Barium naphthenate (TECH)		S-90	10g	**68514-62-5**
Barium nitrate		I-24	10g	**10022-31-8**
Barium Nitrate (Ba(NO3)2) 99,999%		XBA-NO-S-A	5g	
		XBA-NO-S-B	25g	

Category Name	Specification	Catalog#	Size	CAS#
Barium oxide-monoxide anhydrous		I-1780	10g	**1304-28-5**
Barium perchlorate hydrate		I-7030	1g	**10294-39-0**
Barium peroxide		I-1740	10g	**1304-29-6**
Barium phosphite		I-1800	1g	**26946-37-2**
Barium silicate		I-1810	10g	**13255-26-0**
Barium stearate (TECH)		Ou-59	3g	**6865-35-6**
		Ou-59	10g	**6865-35-6**
Barium stearate (TECH)		S-89	10g	**6865-35-6**
Barium sulfate		I-25	10g	**7727-43-7**
Baron™		PS-2029	1g	**640-19-7**
Barricade™		PS-2133	100mg	**29091-21-2**
Barricade™		PS-2203	250mg	**65731-84-2**
Barricide™		PS-1068	100mg	**52315-07-8**
BAS 08300W		PS-1047	10mg	**24307-26-4**
Basagran™		PS-1011	250mg	**25057-89-0**
Basamid™		PS-17	250mg	**533-74-4**
Basathrin™		PS-2203	250mg	**65731-84-2**
Baseline™		PS-2226	100mg	**127277-53-6**
Base Mineral Oil Standard		XBMOMS	500mL	
Basic fuchsin/C,I,#42500		BS-49	1g	**569-61-9**
Basic fuchsin/C,I,#42510		BS-50	1g	**632-99-5**
Basic Red 9		BS-49	1g	**569-61-9**
Basic Violet 14		BS-50	1g	**632-99-5**
Basilex™		PS-2156	500mg	**57018-04-9**
Basitac™		PS-2227	100mg	**55814-41-0**
Bassa™		PS-1046	250mg	**3766-81-2**
Basta™		PS-2124	250mg	**77182-82-2**
Basudin™		PS-90	250mg	**333-41-5**
Batasan™		PS-1021	250mg	**900-95-8**
Battalion™		PS-2108	100mg	**100784-20-1**
Bavistin™		PS-1077	100mg	**10605-21-7**
BAY FOE 5043™		PS-2205	100mg	**142459-58-3**
Baycarb (TM)		PS-1046	250mg	**3766-81-2**
	100ug/mL in Methanol	PS-1046JS	1mL	
Baycid™		PS-655	250mg	**55-38-9**
Baycidal™		PS-2176	100mg	**64628-44-0**
Baycor (TM)		PS-1093	100mg	**55179-31-2**
	100ug/mL in Acetonitrile	PS-1093AJS	1mL	
	100ug/mL in Toluene	PS-1093JS	1mL	
Bayleton™		PS-1013	500mg	**43121-43-3**
Bayluscide™		PS-1207	250mg	**50-65-7**
Baymat™		PS-1093	100mg	**55179-31-2**
BAY-MAT 7484™		PS-2192	100mg	**96182-53-5**
Bayrusil™		PS-2010	250mg	**13593-03-8**
Baytan (TM) Solution	100ug/mL in Acetonitrile	PS-1064AJS	1mL	
	100ug/mL in Toluene	PS-1064JS	1mL	
Baytex™		PS-655	250mg	**55-38-9**
Baythion™		PS-2100	100mg	**14816-18-3**
Baythroid (TM) (S.G.)		PS-1090	250mg	**68359-37-5**
	100ug/mL in Toluene	PS-1090JS	1mL	
	1000ug/mL in Acetonitrile	F2460JS	1mL	
	1000ug/mL in Acetonitrile	F2460S	5mL	
BDMC (S.G.)		F2054	100mg	**672-99-1**
	100ug/mL in Methanol	F2054JS	1mL	
	100ug/mL in Methanol	F2054S	5mL	
BDMC		PS-450	100mg	**672-99-1**
Beam (TM) (S.G.)		F2221	50mg	**41814-78-2**
	100ug/mL in t-Butylmethyl ether	F2221JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2221S	5mL	
Beam		PS-1083	50mg	**41814-78-2**
	100ug/mL in Acetonitrile	PS-1083AJS	1mL	
Beacon™		PS-2169	100mg	**86209-51-0**
Behenamide (TECH)		S-591	10g	**R**
Behenic acid		O-12	100mg	**112-85-6**
Behenic amido alkyl dimethylamine (TECH)		S-573	10g	**R**
Belmark™		PS-1032	250mg	**51630-58-1**
Benalaxyl		PS-2142	250mg	**71626-11-4**
	100ug/mL in Methanol	PS-2142JS	1mL	
Benazolin		PS-2372	100mg	**3813-05-6**
Benazolin-ethyl		PS-2193	250mg	**25059-80-7**
	100ug/mL in Acetonitrile	PS-2193AJS	1mL	
	100ug/mL in MTBE	PS-2193JS	1mL	
Bendas™		PS-1082	100mg	**83055-99-6**

Category Name	Specification	Catalog#	Size	CAS#
Bendiocarb (S.G.)		F2387	250mg	**22781-23-3**
	1000ug/mL in Acetonitrile	F2387JS	1mL	
	1000ug/mL in Acetonitrile	F2387S	5mL	
Bendiocarb		PS-739	250mg	**22781-23-3**
	100ug/mL in Toluene	PS-739JS	1mL	
Benefin™		PS-389	250mg	**1861-40-1**
Benfluralin (S.G.)		F2364	250mg	**1861-40-1**
	1000ug/mL in Hexane	F2364JS	1mL	
	1000ug/mL in Hexane	F2364S	5mL	
Benfluralin		PS-389	250mg	**1861-40-1**
	100ug/mL in Acetonitrile	PS-389AJS	1mL	
Benfuracarb		PS-2241	100mg	**82560-54-1**
	100ug/mL in Acetonitrile	PS-2241AJS	1mL	
	100ug/mL in Toluene	PS-2241JS	1mL	
Ben-Hex™		PS-71	500mg	**58-89-9**
Benlate™		PS-222	100mg	**17804-35-2**
Benomyl		PS-222	100mg	**17804-35-2**
Bensofume™		PS-851	1g	**103-33-3**
Bensulfuron-methyl		PS-1082	100mg	**83055-99-6**
	100ug/mL in Acetonitrile	PS-1082AJS	1mL	
Bensulide (S.G.)		F2383	250mg	**741-58-2**
	1000ug/mL in Methanol	F2383JS	1mL	
	1000ug/mL in Methanol	F2383S	5mL	
Bensulide		PS-425	250mg	**741-58-2**
	100ug/mL in Acetonitrile	PS-425AJS	1mL	
Bensultap		PS-2106	250mg	**17606-31-4**
	100ug/mL in Methanol	PS-2106JS	1mL	
Bensumec™		PS-425	250mg	**741-58-2**
Bentazon (S.G.)		F2038	250mg	**25057-89-0**
	1000ug/mL in Acetonitrile	F2038AJS	1mL	
	1000ug/mL in Acetonitrile	F2038AS	5mL	
	100ug/mL in Acetone	F2038JS	1mL	
	100ug/mL in Acetone	F2038S	5mL	
Bentazon		PS-1011	250mg	**25057-89-0**
Bentazon methyl derivative (S.G.)		F2244	50mg	**2225-40-3**
	100ug/mL in Isooctane:Acetone (90:10)	F2244JS	1mL	
	100ug/mL in Isooctane:Acetone (90:10)	F2244S	5mL	
Bentazon methyl derivative		PS-1112	50mg	**2225-40-3**
Benthiocarb		PS-1017	250mg	**28249-77-6**
	100ug/mL in Methanol	PS-1017JS	1mL	
Bentonite		I-1840	10g	**1302-78-9**
Benylate™		PS-904	1g	**120-51-4**
Benzal chloride		0-680	500mg	**98-87-3**
Benzaldehyde (S.G.)		F2323	5g	**100-52-7**
	1000ug/mL in Acetonitrile	F2323JS	1mL	
	1000ug/mL in Acetonitrile	F2323S	5mL	
Benzaldehyde (S.G.)		0-239	5g	**100-52-7**
Benzaldehyde (DNPH Derivative) (S.G.)		F2341	100mg	**1157-84-2**
	100ug/mL in Acetonitrile	F2341JS	1mL	
	100ug/mL in Acetonitrile	F2341S	5mL	
Benzaldehydecyanohydrin		2170K	100mg	**532-28-5**
Benzaldehyde phenylhydrazone		1240L	1g	**588-64-7**
Benzaldoxime		2175K	100mg	**932-90-1**
Benzamide (S.G.)		0-263	2g	**55-21-0**
		0-263	5g	**55-21-0**
Benzanilide (S.G.)		0-264	1g	**93-98-1**
		0-264	10g	**93-98-1**
1,2-Benzanthracene (S.G.)		F72	100mg	**56-55-3**
	100ug/mL in Toluene	F72JS	1mL	
	100ug/mL in Toluene	F72S	5mL	
	100ug/mL in Methanol	F72MJS	1mL	
	100ug/mL in Methanol	F72MS	5mL	
Benz(a)anthracene		F72	100mg	**56-55-3**
Benz[a]anthracene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC72S	1.2mL	
Benz[a]anthracene (d12) (S.G.)		FD72-1	1g	**R**
		FD72-A	0.1g	**R**
	200ug/mL in Isooctane	FD72S	1.2mL	
Benz(a)anthracene-d12 (S.G.)		F902	10mg	**1718-53-2**
	2000ug/mL in Methylene chloride	F902JS	1mL	
	2000ug/mL in Methylene chloride	F902S	5mL	
Benzene (S.G.)		F4	5g	**71-43-2**
	100ug/mL in Methanol	F4JS	1mL	
	100ug/mL in Methanol	F4S	5mL	
Benzene (S.G.)		0-760	1g	**71-43-2**
		0-760	5g	**71-43-2**
Benzene (13C6) (S.G.)		FC4-A	0.1g	**R**
		FC4-B	0.5g	**R**
Benzene (d1) (S.G.)		FD4-5	5g	**R**
Benzene-d6 (S.G.)		F900	1g	**1076-43-3**
	2000ug/mL in Methanol	F900JS	1mL	
	2000ug/mL in Methanol	F900S	5mL	
Benzenearsonic acid		6846F	1g	**98-05-5**

Category Name	Specification	Catalog#	Size	CAS#
Benzeneazo-1-naphthylamine/C,I,#11350		BS-10	1g	**131-22-6**
1,4-Benzenedimethanol		2073E	10g	**589-29-7**
1,3-Benzenediol		0-909	5g	**108-46-3**
1,4-Benzenediol		0-905	5g	**123-31-9**
m-Benzenedisulfonic acid disodium salt (S.G.)		0-954	1g	**831-59-4**
		0-954	10g	**831-59-4**
Benzene hexachloride		PS-70	250mg	**608-73-1**
alpha-Benzenehexachloride		PS-692	100mg	**319-84-6**
beta-Benzenehexachloride		PS-691	100mg	**319-85-7**
delta-Benzenehexachloride		PS-693	100mg	**319-86-8**
gamma-Benzenehexachloride		PS-71	500mg	**58-89-9**
Benzenephosphonic acid (S.G.)		0-911	2g	**1571-33-1**
		0-911	10g	**1571-33-1**
Benzenepropanoic acid		0-85	1g	**501-52-0**
Benzenesulfonamide (S.G.)		0-966	1g	**98-10-2**
		0-966	10g	**98-10-2**
S-2-Benzenesulfonamidoethyl-0,0-di-isopropylphosphorodithioate		PS-425	250mg	**741-58-2**
Benzenesulfonic acid (S.G.)		0-955	1g	**98-11-3**
Benzene sulfonic acid sodium salt		2078A	5g	**515-42-4**
Benzenesulfonyl chloride (S.G.)		0-972	2g	**98-09-9**
Benzene sulfonyldiethylamide		2079B	10g	**R**
1,2,4,5-Benzenetetracarboxylic		0-90	2g	**89-05-4**
1,2,4,5-Benzenetetracarboxylic anhydride		2081B	10g	**89-32-7**
1,2,4,5,-Benzenetetramine tetrahydrochloride		1246L	100mg	**4506-66-5**
Benzenethiol (S.G.)		F2071	1g	**108-98-5**
Benzenethiol (S.G.)		0-978	1g	**108-98-5**
1,2,4-Benzenetriamine dihydrochloride		2080	10g	**615-47-4**
1,2,3-Benzenetriol		0-908	2g	**87-66-1**
Benzhydrazide		2190K	100mg	**613-94-5**
Benzhydrol (S.G.)		0-212	1g	**91-01-0**
		0-212	10g	**91-01-0**
Benzidine (S.G.)		F5	250mg	**92-87-5**
	100ug/mL in Ethanol	F5JS	1mL	
	100ug/mL in Ethanol	F5S	5mL	
Benzidine-d8 (S.G.)	100ug/mL in Methanol	F2455JS	1mL	
	100ug/mL in Methanol	F2455S	5mL	
Benzidine hydrochloride (S.G.)		F946	100mg	**531-85-1**
Benzil (S.G.)		0-822	2g	**134-81-6**
		0-822	10g	**134-81-6**
Benzil antimonoxine		2195K	100mg	**14090-77-8**
Benzilic acid (S.G.)		0-102	1g	**76-93-7**
		0-102	5g	**76-93-7**
Benzimidazole (S.G.)		0-693	1g	**51-17-2**
		0-693	5g	**51-17-2**
Benzocaine		2107F	10g	**94-09-7**
1,3-Benzodioxole		2117F	5g	**274-09-9**
Benzo(b)fluoranthene (S.G.)		F74	100mg	**205-99-2**
	100ug/mL in Toluene	F74JS	1mL	
	100ug/mL in Toluene	F74S	5mL	
	100ug/mL in Methanol	F74MJS	1mL	
	100ug/mL in Methanol	F74MS	5mL	
Benzo(j)fluoranthene (S.G.)		F952	10mg	**205-82-3**
	100ug/mL in Methanol	F952JS	1mL	
	100ug/mL in Methanol	F952S	5mL	
Benzo(b)fluoranthene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC74S	1.2mL	
Benzo(b)fluoranthene (d12) (S.G.)		FD74-E	0.01g	**R**
	200ug/mL in Isooctane	FD74S	1.2mL	
Benzo(k)fluoranthene (S.G.)		F75	10mg	**207-08-9**
	100ug/mL in Toluene	F75JS	1mL	
	100ug/mL in Toluene	F75S	5mL	
	100ug/mL in Methanol	F75MJS	1mL	
	100ug/mL in Methanol	F75MS	5mL	
Benzo(k)fluoranthene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC75S	1.2mL	
Benzo(k)fluoranthene (d12) (S.G.)		FD75-E	0.01g	**R**
	200ug/mL in Isooctane	FD75S	1.2mL	
1,2-Benzofluorene (S.G.)		F1001	POR	**238-84-6**
	100ug/mL in Toluene	F1001JS	1mL	
	100ug/mL in Toluene	F1001S	5mL	
2,3-Benzofluorene (S.G.)		F1002	10mg	**243-17-4**
	100ug/mL in Toluene	F1002JS	1mL	
	100ug/mL in Toluene	F1002S	5mL	
2,3-Benzofuran (S.G.)		F2285	1g	**271-89-6**
	1000ug/mL in Methanol	F2285JS	1mL	
	1000ug/mL in Methanol	F2285S	5mL	
Benzofuroline		PS-1000	250mg	**10453-86-8**
Benzoguanamine		2099B	10g	**91-76-9**
Benzoic acid (S.G.)		F702	5g	**65-85-0**
	100ug/mL in Toluene	F702JS	1mL	
	100ug/mL in Toluene	F702S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Benzoic acid (S.G.)		O-81	5g	**65-85-0**
		O-81	10g	**65-85-0**
Benzoic acid (d5) (S.G.)		FD702-1	1g	**R**
		FD702-5	5g	**R**
Benzoic acid benzyl ester		PS-904	1g	**120-51-4**
Benzoic acid sodium salt (R.G.)		2200K	1g	**532-32-1**
Benzoic anhydride		2105	5g	**93-97-0**
o-Benzoic sulfimide (S.G.)		O-795	2g	**81-07-2**
		O-795	5g	**81-07-2**
Benzoin (S.G.)		O-222	2g	**119-53-9**
		O-222	10g	**119-53-9**
Benzoin 2-ethylhexyl ether		2210K	100mg	**R**
Benzoin isobutyl ether		2320L	1g	**22499-12-3**
Benzoin methyl ether		2127F	1g	**3524-62-7**
Benzoin a-oxime		2125F	5g	**441-38-3**
Benzoin n-propyl ether		2205K	100mg	**R**
Benzonitrile (S.G.)		O-836	10g	**100-47-0**
1,12-Benzoperylene (S.G.)		F79	10mg	**191-24-2**
	100ug/mL in Toluene	F79JS	1mL	
	100ug/mL in Toluene	F79S	5mL	
	100ug/mL in Methanol	F79MJS	1mL	
	100ug/mL in Methanol	F79MS	5mL	
1,12-Benzoperylene (13C12) (S.G.)	100ug/mL in n-Nonane	FC79S	1.2mL	
Benzo(ghi)perylene		F79	10mg	**191-24-2**
Benzo[g,h,i]perylene (d12) (S.G.)		FD79-E	0.01g	**R**
	200ug/mL in Toluene (d8)	FD79S	1.2mL	
Benzophenone (S.G.)		F2277	2g	**119-61-9**
	250ug/mL in Methanol	F2277JS	1mL	
	250ug/mL in Methanol	F2277S	5mL	
Benzophenone (S.G.)		O-823	2g	**119-61-9**
		O-823	10g	**119-61-9**
Benzophenone (d10) (S.G.)	100ug/mL in n-Nonane	FD2277S	1.2mL	
Benzophenone (TECH)		Pz-161	10g	**119-61-9**
Benzophenone hydrazone		1213L	1g	**5350-57-2**
3,3′,4,4′-Benzophenone tetracarboxylic dianhydride		2110E	5g	**2421-28-5**
Benzopinacole		2215K	100mg	**464-72-2**
Benzopurpurin 4B/C,I,#23500		BS-36	1g	**992-59-6**
2H-1-Benzopyran-2-one		O-829	2g	**91-64-5**
Benzo(a)pyrene (S.G.)		F73	10mg	**50-32-8**
	100ug/mL in Toluene	F73JS	1mL	
	100ug/mL in Toluene	F73S	5mL	
	100ug/mL in Methanol	F73MJS	1mL	
	100ug/mL in Methanol	F73MS	5mL	
Benzo(a)pyrene (d12) (S.G.)		FD73-A	0.1g	**R**
		FD73-D	0.05g	**R**
		FD73-E	0.01g	**R**
	200ug/mL in Isooctane	FD73S	1.2mL	
Benzo(e)pyrene (S.G.)		F1003	10mg	**192-97-2**
	100ug/mL in Toluene	F1003JS	1mL	
	100ug/mL in Toluene	F1003S	5mL	
Benzo(e)pyrene (d12) (S.G.)		FD1003-E	0.01g	**R**
	200ug/mL in Isooctane	FD1003S	1.2mL	
1-Benzo(b)pyrrole		O-347	500mg	**120-72-9**
Benzo(1,2,3)thiadiazole-7-carbothioic acid-S-methyl ester		PS-2212	250mg	**135158-54-2**
Benzothiazole (S.G.)		O-711	2g	**95-16-9**
3-Benzothiazolineacetic acid, 4-chloro-2-oxo-, ethyl ester		PS-2193	250mg	**25059-80-7**
2-Benzothiazolol (S.G.)		O-712	500mg	**934-34-9**
		O-712	2g	**934-34-9**
1-(1,3-Benzothiazol-2-yl)-1,3-dimethylurea		PS-2048	100mg	**18691-97-9**
1-(1,3-Benzothiazol-2-yl)-3-methylurea (100ug/ml in Methylene		PS-1201	5mL	**1929-88-0**
2-(1,3-benzothiazol-2-yloxy)-N-methylacetanilide		PS-2140	250mg	**73250-68-7**
2-(2-benzothiazolyloxy)-N-methyl-N-phenylacetamide		PS-2140	250mg	**73250-68-7**
Benzotriazole		2129H	5g	**95-14-7**
Benzotrifluoride		F450	1g	**98-08-8**
Benzoxazole (S.G.)		O-709	500mg	**273-53-0**
		O-709	5g	**273-53-0**
2-Benzoxazolinone		2220K	100mg	**59-49-4**
1-Benzoylacetone		2126A	1g	**93-91-4**
Benzoylacetonitrile		2225K	100mg	**614-16-4**
Benzoylacrylic acid		2130	5g	**583-06-2**
DL-N-Benzoylalanine		2136F	1g	**1205-02-3**
n-Benzoyl-dl-analine		2136F	1g	**1205-02-3**
m-Benzoyl benzoic acid		2240K	10mg	**579-18-0**
o-Benzoylbenzoic acid		2140	10g	**85-52-9**
4-Benzoylbenzoic acid		2235K	10mg	**611-95-0**

Category Name	Specification	Catalog#	Size	CAS#
Benzoyl chloride (S.G.)		O-134	10g	**98-88-4**
Benzoylcyclohexane		2132F	1g	**712-50-5**
Benzoyleneurea		2142E	5g	**86-96-4**
Benzoylformic acid		2131F	1g	**611-73-4**
N-Benzoylglycine		O-109	2g	**495-69-2**
Benzoylhydrazine		2190K	100mg	**613-94-5**
6-Benzoyl-2-naphthol		2869L	100mg	
Benzoyl peroxide (S.G.)		O-2007	1g	**94-36-0**
		O-2007	5g	**94-36-0**
N-Benzoyl-DL-phenylalanine		1903L	1g	**R**
Benzoylprop ethyl (S.G.)		F2493	100mg	**22212-55-1**
	1000ug/mL in Acetonitrile	F2493JS	1mL	
	1000ug/mL in Acetonitrile	F2493S	5mL	
Benzoylprop ethyl		PS-2079	100mg	**22212-55-1**
	100ug/mL in Toluene	PS-2079JS	1mL	
3-Benzoylpropionic acid		1198L	1g	**2051-95-8**
2-Benzoylpyridine		2953L	1g	**91-02-1**
3-Benzoylpyridine		2255K	100mg	**5424-19-1**
4-Benzoylpyridine		2257K	1g	**14548-46-0**
2-Benzoylthiophene		2260K	100mg	**135-00-2**
Benzthiazuron		PS-1201	5mL	**1929-88-0**
Benzyl acetate (S.G.)		O-514	10g	**140-11-4**
Benzyl acrylate		2133F	1g	**R**
6-Benzyladenine		PS-2206	250mg	**1214-39-7**
Benzyl alcohol (S.G.)		F703	5g	**100-51-6**
	100ug/mL in Methanol	F703JS	1mL	
	100ug/mL in Methanol	F703S	5mL	
Benzyl alcohol (S.G.)		O-213	5g	**100-51-6**
		O-213	10g	**100-51-6**
Benzyl alcohol (TECH)		Pz-136	10g	**100-51-6**
Benzylamine (S.G.)		O-337	2g	**100-46-9**
		O-337	10g	**100-46-9**
p-Benzylaminophenol		2265K	1g	**103-14-0**
6-Benzylaminopurine		PS-2206	250mg	**1214-39-7**
	100ug/mL in Acetonitrile	PS-2206AJS	1mL	
	100ug/mL in Toluene	PS-2206JS	1mL	
Benzyl benzenecarboxylate		PS-904	1g	**120-51-4**
a-Benzylbenzhydrol		2270K	100mg	**R**
Benzyl benzoate		PS-904	1g	**120-51-4**
	100ug/mL in Acetonitrile	PS-904AJS	1mL	
Benzyl benzoate (S.G.)		F1093	5g	**120-51-4**
	5000ug/mL in Hexane	F1093AJS	1mL	
	5000ug/mL in Hexane	F1093AS	5mL	
	2000ug/mL in Hexane	F1093JS	1mL	
	2000ug/mL in Hexane	F1093S	5mL	
Benzyl benzoate (S.G.)		O-515	10g	**120-51-4**
N-Benzyl-tert-butylamine		2135F	1g	**3378-72-1**
1-Benzyl-3-carbethoxy-4-piperidone hydrochloride		2138F	1g	**R**
Benzyl chloride (S.G.)		F801	5g	**100-44-7**
	100ug/mL in Toluene	F801JS	1mL	
	100ug/mL in Toluene	F801S	5mL	
Benzyl chloride (S.G.)		O-665	10g	**100-44-7**
o-Benzyl-p-chlorophenol		PS-170	100mg	**120-32-1**
	100ug/mL in Methanol	PS-170JS	1mL	
Benzyl cyanide		O-838	10g	**140-29-4**
Benzyl diethyl phosphite		2139F	1g	**2768-31-2**
S-Benzyl O,O-di-isopropyl phosphorothioate		PS-2065	250mg	**26087-47-8**
Benzyl disulfide (S.G.)		O-945	2g	**150-60-7**
		O-945	10g	**150-60-7**
Benzyl ether (S.G.)		O-582	10g	**103-50-4**
Benzyl 2-ethylhexyl phthalate (S.G.)		Pt-1	10g	**R**
Benzyldiethyl [(2,6-xylylcarbamoyl)ammonium benzoate		PS-2084	1g	**3734-33-6**
Benzyl formate		2145B	10g	**104-57-4**
(5-Benzyl-3-furyl)methyl-2,2-dimethyl-3-(2-methylpropenyl)cycl		PS-1000	250mg	**10453-86-8**
N-Benzylglycine ethyl ester		1177L	100mg	**6436-90-4**
Benzylhexadecyldimethyl ammonium chloride		2146F	1g	**30251-10-6**
O-Benzylhydroxylamine hydrochloride		2150F	1g	**2687-43-6**
1-Benzyl-3-hydroxypiperidine		2154F	1g	**R**
Benzylidene azine		2160F	10g	**588-68-1**
Benzyl isohexyl phthalate (TECH)		Pz-409	10g	**R**
Benzyl isothiocyanate		2162F	1g	**622-78-6**
Benzylmalonic acid		2280K	100mg	**616-75-1**
Benzyl methacrylate		2161F	1g	**2495-37-6**
Benzyl methylamine		2163F	10g	**103-67-3**

Category Name	Specification	Catalog#	Size	CAS#
Benzyl-3-methyl butyl ether		0-579	5g	**122-73-6**
3-Benzyloxyaniline		2164F	1g	**1484-26-0**
4-Benzyloxyaniline hydrochloride		2166F	1g	**51388-20-6**
4-Benzyloxybenzaldehyde		2290K	100mg	**4397-53-9**
1-Benzyl-1-phenylhydrazine hydrochloride		2167F	1g	**5705-15-7**
4-Benzylpiperidine		2295K	1g	**31252-42-3**
2-Benzylpyridine		2156C	10g	**101-82-6**
Benzyl rhodanide		PS-98	1g	**3012-37-1**
Benzyl salicylate		1450L	100mg	**118-58-1**
Benzyl sulfide (S.G.)		0-946	500mg	**538-74-9**
		0-946	5g	**538-74-9**
Benzyl thiocyanate (S.G.)		0-402	2g	**3012-37-1**
		0-402	10g	**3012-37-1**
Benzyl thiocyanate		PS-98	1g	**3012-37-1**
	100ug/mL in Acetonitrile	PS-98AJS	1mL	
	100ug/mL in Toluene	PS-98JS	1mL	
Benzyltributylammonium chloride		2305K	1g	**23616-79-7**
Benzyltriethyl ammonium bromide		4018L	1g	
Benzyltrimethylammonium chloride (x% in water)		2160E	1g	**56-93-9**
Benzyltrimethylammonium hydroxide (40% in methanol)		2160B	10g	**100-85-6**
Benzyltriphenylphosphonium chloride		2161E	5g	**1100-88-5**
o-Benzyl-L-tyrosine		1174L	100mg	**16652-64-5**
Beosit™		PS-81	500mg	**115-29-7**
Berberine sulfate		2344L	500mg	**6190-33-6**
Beryllium metal - flake		RE-10	100mg	**7440-41-7**
Beryllium - 4% HN03		X10M 5-1-100	100mL	
		X10M 5-1-250	250mL	
		X10M 5-1-500	500mL	
Beryllium - 10% HCl		X10M 5-2-100	100mL	
		X10M 5-2-250	250mL	
		X10M 5-2-500	500mL	
Beryllium - Be metal, 99,5%, 2% HN03		X10005-1-A	100mL	
		X10005-1-B	250mL	
		X10005-1-C	500mL	
Beryllium - Be metal, 99,9%, 2% HCl		X10005-2-A	100mL	
		X10005-2-B	250mL	
		X10005-2-C	500mL	
Beryllium Metal (Be) 99,9+%		XBE-M-A	5g	
		XBE-M-B	25g	
Beryllium Metallo-Organic Standard 1000ug/g in Mineral Oil		XBEOMS	100g	
Beryllium oxide		RE-15	1g	**1304-56-9**
Beryllium Oxide (BeO) 99,99+%		XBE-O-A	5g	
		XBE-O-B	25g	
Beryllium silicate		RE-16	1g	**15191-85-2**
Beryllium sulfate		I-26	10g	**13510-49-1**
Bestox™		PS-2083	250mg	**67375-30-8**
Beta-Baythroid™		PS-2204	250mg	**68359-37-5**
beta-Cyfluthrin		PS-2204	250mg	**68359-37-5**
	100ug/mL in Acetonitrile	PS-2204AJS	1mL	
	100ug/mL in MTBE	PS-2204JS	1mL	
beta-Cypermethrin		PS-2203	250mg	**65731-84-2**
	100ug/mL in Acetonitrile	PS-2203AJS	1mL	
	100ug/mL in MTBE	PS-2203JS	1mL	
Betaine ethyl ester chloride		1195L	1g	**3032-11-9**
Betaine hydrate		2170	5g	**17146-86-0**
Betaine hydrochloride (S.G.)		0-35	5g	**590-46-5**
		0-35	10g	**590-46-5**
Betamethrate™		PS-2203	250mg	**65731-84-2**
Betanal™		PS-1014	250mg	**13684-63-4**
Betanal AM™		PS-1015	250mg	**13684-56-5**
Betanex™		PS-1015	250mg	**13684-56-5**
Betapost™		PS-1014	250mg	**13684-63-4**
Betasan™		PS-425	250mg	**741-58-2**
Bexide™		PS-66	250mg	**502-55-6**
BHC (mixed isomers)		PS-70	250mg	**608-73-1**
	100ug/mL in Acetonitrile	PS-70AJS	1mL	
	100ug/mL in Toluene	PS-70JS	1mL	
BHC (alpha isomer) (S.G.)		F102	100mg	**319-84-6**
	100ug/mL in Toluene	F102JS	1mL	
	100ug/mL in Toluene	F102S	5mL	
a-BHC		PS-692	100mg	**319-84-6**
alpha-BHC		PS-692	100mg	**319-84-6**
BHC (alpha isomer) (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC102S	1.2mL	
BHC (beta isomer) (S.G.)		F103	100mg	**319-85-7**
	100ug/mL in Toluene	F103JS	1mL	
	100ug/mL in Toluene	F103S	5mL	
b-BHC		PS-691	100mg	**319-85-7**

Category Name	Specification	Catalog#	Size	CAS#
BHC beta isomer		PS-691	100mg	**319-85-7**
BHC (beta isomer) (13C6) (S.G.)	50ug/mL in n-Nonane	FC103S	2x1.2	
BHC (delta isomer) (S.G.)		F105	100mg	**319-86-8**
	100ug/mL in Toluene	F105JS	1mL	
	100ug/mL in Toluene	F105S	5mL	
d-BHC		PS-693	100mg	**319-86-8**
BHC delta isomer		PS-693	100mg	**319-86-8**
BHC (delta isomer) (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC105S	1.2mL	
BHC (epsilon isomer)	100ug/mL in Toluene	PS-2222	1mL	**6108-10-7**
g-BHC		PS-71	500mg	**58-89-9**
BHC gamma isomer		PS-71	500mg	**58-89-9**
BH™ Mecoprop		PS-324	100mg	**7085-19-0**
Bibenzyl (S.G.)		F1061	1g	**103-29-7**
	100ug/mL in Hexane	F1061JS	1mL	
	100ug/mL in Hexane	F1061S	5mL	
Bibenzyl (S.G.)		0-761	1g	**103-29-7**
		0-761	5g	**103-29-7**
Bicyclo[2,2,1]hepta-2,5-diene		2180	5g	**121-46-0**
Bicyclo[2,2,1]5-heptene-2,3-dicarboxylic anhydride (S.G.)		0-123	2g	**826-62-0**
		0-123	10g	**826-62-0**
Bicyclo[2,2,2]octane-2,3-dicarboxylic anhydride		2210F	50mg	**R**
Biebrich scarlet/C,I,#26905		BS-142	1g	**4196-99-0**
Bifenazate		PS-2194	250mg	**149877-41-8**
	100ug/mL in Acetonitrile	PS-2194AJS	1mL	
	100ug/mL in Toluene	PS-2194JS	1mL	
Bifenox		PS-311	250mg	**42576-02-3**
	100ug/mL in Methanol	PS-311JS	1mL	
Bifenthrin		PS-2003	100mg	**82657-04-3**
	100ug/mL in Acetonitrile	PS-2003AJS	1mL	
	100ug/mL in tert-Butyl methyl ether	PS-2003JS	1mL	
Bim™		PS-1083	50mg	**41814-78-2**
Binapacryl		PS-2087	100mg	**485-31-4**
	100ug/mL in Acetonitrile	PS-2087AJS	1mL	
	100ug/mL in MTBE	PS-2087JS	1mL	
1,1′-Binaphthyl (S.G.)		F1004	100mg	**604-53-5**
	100ug/mL in Toluene	F1004JS	1mL	
	100ug/mL in Toluene	F1004S	5mL	
Bindone		2220F	1g	**R**
Binnell™		PS-389	250mg	**1861-40-1**
s-Bioallethrin		PS-790	250mg	**28434-00-6**
	100ug/mL in Acetonitrile	PS-790AJS	1mL	
	100ug/mL in MTBE	PS-790JS	1mL	
Bioallethrin		PS-791	250mg	**28057-48-9**
	100ug/mL in Acetonitrile	PS-791AJS	1mL	
	100ug/mL in MTBE	PS-791JS	1mL	
Biocide N521™		PS-17	250mg	**533-74-4**
Bioguard™		PS-1057	1g	**148-79-8**
Biological Stains Kit		BS-100A	KIT	
Bioquin		PS-18	1g	**148-24-3**
Bioresmethrin		PS-2080	250mg	**28434-01-7**
	100ug/mL in Acetonitrile	PS-2080AJS	1mL	
	100ug/mL in MTBE	PS-2080JS	1mL	
Biosolvomycin™		PS-2200	250mg	**2058-46-0**
Biothion™		PS-665	100mg	**3383-96-8**
d-Biotin		V-21	100mg	**58-85-5**
p,p′-Biphenol		F2165	100mg	**92-88-6**
Biphenyl (S.G.)		F1062	5g	**92-52-4**
	1000ug/mL in Methanol	F1062AJS	1mL	
	1000ug/mL in Methanol	F1062AS	5mL	
	100ug/mL in Hexane	F1062JS	1mL	
	100ug/mL in Hexane	F1062S	5mL	
Biphenyl (S.G.)		0-762	5g	**92-52-4**
		0-762	10g	**92-52-4**
Biphenyl		PS-2032	1g	**92-52-4**
Biphenyl (13C12) (S.G.)	100ug/mL in n-Nonane	FC1062S	1.2mL	
Biphenyl (d10) (S.G.)		FD1062-1	1g	**1486-01-7**
		FD1062-5	5g	**1486-01-7**
4-Biphenylcarbonitrile		2230F	1g	**2920-38-9**
4-Biphenylcarboxylic acid		2190	10g	**92-92-2**
4,4′-Biphenyldicarbonitrile		1189L	1g	**1591-30-6**
2,2′-Biphenyldiol (S.G.)		2160G	100mg	**1806-29-7**
2,5-Biphenyldiol (S.G.)		F2166	100mg	**1079-21-6**
3,4-Biphenyldiol (S.G.)		2164G	100mg	**92-05-7**
4,4′-Biphenyldiol (S.G.)		F2165	100mg	**92-88-6**
4,4′-Biphenyldisulfonic acid		2200	250mg	**R**
Biphenylene (S.G.)		F1005	10mg	**259-79-0**
	100ug/mL in Toluene	F1005JS	1mL	
	100ug/mL in Toluene	F1005S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
2-Biphenylol (S.G.)		F2225	1g	**90-43-7**
	2000ug/mL in Methanol	F2225JS	1mL	
	2000ug/mL in Methanol	F2225S	5mL	
2-Biphenylol (phenyl-13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC2225S	1.2mL	
3-Biphenylol (S.G.)		2169G	100mg	**580-51-8**
B-([1,1′-Biphenyl]-4-yloxy)-a-(1,1-dimethylethyl)-1H-1,2,4-tri		PS-1093	100mg	**55179-31-2**
3-[3-(1,1′-Biphenyl)-4-yl-1,2,3,4-tetrahydro-1-naphthalenyl]-4-hydroxy-2H-1-benzopyran-2-one		PS-2143	100mg	**56073-07-5**
3-(3-Biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin		PS-2143	100mg	**56073-07-5**
2,2′-Bipyridine		2229F	1g	**366-18-7**
2,2-Biquinoline		2226F	100mg	**119-91-5**
Birlane™		PS-1087	250mg	**470-90-6**
Bis(2,4,6-trichlorophenoxy)methyl ether (S.G.)		F2924	POR	**R**
Bis(2-hydroxyethyl) cocoamine oxide (TECH)		S-659	10g	**61791-47-7**
Bis-(2-hydroxyethyl)-tallowamine oxide (TECH)		S-662	10g	**61791-46-6**
Bis(p,p′-tert-octylphenyl)amine (S.G.)		F2921	1g	**15721-78-5**
Bis(4-aminophenyl)sulfide		O-2400	500mg	**139-65-1**
Bis(aminopropyl)piperazine		2222A	10g	**7209-38-3**
Bis(p-bromophenyl)ether (S.G.)		O-597	500mg	**2050-47-7**
		O-597	5g	**2050-47-7**
Bis[2-(2-butoxyethoxy)ethoxy]methane (TECH)		Pz-975	10g	**143-29-3**
Bis(butoxyethoxyethyl)adipate (TECH)		Pz-30	10g	**R**
Bis(2-butoxyethyl)adipate (TECH)		Pz-305	10g	**141-18-4**
Bis(butoxyethyl)ether (TECH)		Pz-119	10g	**112-73-2**
Bis(2-n-butoxyethyl)phthalate (S.G.)		F2315	1g	**117-83-9**
	1000ug/mL in Hexane	F2315JS	1mL	
	1000ug/mL in Hexane	F2315S	5mL	
Bis(2-n-butoxyethyl)phthalate (S.G.)		O-545	1g	**117-83-9**
		O-545	5g	**117-83-9**
Bis(2-n-butoxyethyl)phthalate (S.G.)		Pt-2	5g	**117-83-9**
Bis(2-n-butoxyethyl)phthalate (TECH)		Pz-58	10g	**R**
Bis(2-n-butoxyethyl)sebacate (TECH)		Pz-66	10g	**R**
2,3:4,5-Bis(2-butylene)tetrahydro-2-furaldehyde				
1,2-Bis(2-chloroethoxy)ethane (S.G.)		O-576	5g	**112-26-5**
Bis(2-chloroethoxy)methane (S.G.)		F43	1g	**111-91-1**
	100ug/mL in Methanol	F43JS	1mL	
	100ug/mL in Methanol	F43S	5mL	
Bis(2-chloroethoxy)methane (chloroethoxy-d8) (S.G.)		FD43-A	0.1g	**R**
Bis-(2-chloroethyl)amine hydrochloride		1201L	1g	**821-48-7**
Bis(2-chloroethyl)carbonate (S.G.)		O-401	500mg	**623-97-2**
		O-401	5g	**623-97-2**
Bis(2-chloroethyl)ether (S.G.)		F18	5g	**111-44-4**
	100ug/mL in Acetone	F18JS	1mL	
	100ug/mL in Acetone	F18S	5mL	
Bis(2-chloroethyl)ether (d8) (S.G.)		FD18-A	0.1g	**R**
		FD18-D	0.05g	**R**
Bis(2-chloroethyl)ether (S.G.)		O-577	2g	**111-44-4**
1,4-Bis(chloromethyl)benzene		3705	5g	**623-25-6**
Bis(chloromethyl)ether (S.G.)		F17	100mg	**542-88-1**
Bis(2-chloro-1-methylethyl) ether (S.G.)		F42	50mg	**108-60-1**
	100ug/mL in Hexane	F42JS	1mL	
	100ug/mL in Hexane	F42S	5mL	
3,3-Bis(chloromethyl)oxetane		3048F	1g	**78-71-7**
1,3-Bis(chloromethyl)tetramethyl disiloxane		2235E	5g	**2362-10-9**
1,1-Bis(p-chlorophenyl)-2,2-dichloroethane		PS-72	250mg	**72-54-8**
2,2-Bis(p-chlorophenyl)-1,1-dichloroethane		PS-72	250mg	**72-54-8**
Bis(p-chlorophenyl)disulfide		2315K	1g	**R**
Bis(p-chlorophenyl)sulfone		2234F	10g	**80-07-9**
3,6-Bis(2-chlorophenyl)-1,2,4,5-tetrazine		PS-2015	100mg	**74115-24-5**
1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethanol		PS-82	250mg	**115-32-2**
N,N′-Bis(p-chlorophenyl)urea (S.G.)		MET-59A	500mg	**1219-99-4**
Bis(chloropropyl)propenyl-2-phosphonate		2240B	10g	**R**
Bis(2,3-dibromopropyl)phosphoric acid		2244F	5g	**5412-25-9**
N,N′-Bis(3,4-dichlorophenyl)urea (S.G.)		MET-60A	100mg	**R**
4,4′-Bis(dimethylamino)benzophenone		2250B	10g	**90-94-8**
1,8-Bis(dimethylamino)naphthalene (S.G.)		O-2391	100mg	**20734-58-1**
1,8-Bis(dimethylamino)naphthalene hydrochloride		2434L	100mg	**R**
4,4′-Bis(dimethylamino)thiobenzophenone		1231L	1g	**1226-46-6**
N,N′-Bis(1,4-dimethylpentyl)-p-phenylenediamine (TECH)		Ou-29	3g	**3081-14-9**
		Ou-29	10g	**3081-14-9**
2,5-Bis(1,1-dimethylpropyl)-1,4-benzendiol		O-903	500mg	**79-74-3**
Bis(dimethylthiocarbamyl) disulfide		PS-24	1g	**137-26-8**
Bis(dimethylthiocarbamyl)disulfide (S.G.)		O-387	1g	**137-26-8**

Category Name	Specification	Catalog#	Size	CAS#
1,2-Bis(diphenyl phosphine) ethane		4565B	1g	**1663-45-2**
1,2-Bis(3-ethoxycarbonyl-2-thioureido) benzene		PS-223	1g	**23564-06-9**
Bis[2-(2-ethoxyethoxy)ethyl]phthalate (S.G.)		Pt-3	10g	**117-85-1**
Bis[2-(2-ethoxyethoxy)ethyl]phthalate (TECH)		Pz-435	10g	**117-85-1**
Bis(2-ethoxyethyl)adipate (S.G.)		O-502	500mg	**109-44-4**
		O-502	5g	**109-44-4**
Bis(2-ethoxyethyl)adipate (TECH)		Pz-29	10g	**109-44-4**
Bis(2-ethoxyethyl)ether (S.G.)		O-561	5g	**112-36-7**
		O-561	10g	**112-36-7**
Bis(2-ethoxyethyl)phthalate (S.G.)		F2312	500mg	**605-54-9**
	1000ug/mL in Hexane	F2312JS	1mL	
	1000ug/mL in Hexane	F2312S	5mL	
Bis(2-ethoxyethyl)phthalate (S.G.)		O-546	500mg	**605-54-9**
		O-546	5g	**605-54-9**
Bis(2-ethoxyethyl)phthalate (S.G.)		Pt-4	10g	**605-54-9**
Bis(2-ethoxyethyl)phthalate (TECH)		Pz-57	10g	**R**
Bis(2-ethoxyethyl)sebacate (S.G.)		O-503	500mg	**624-10-2**
		O-503	2g	**624-10-2**
Bis(2-ethoxyethyl)sebacate (TECH)		Pz-65	10g	**624-10-2**
2,4-Bis(ethylamino)-6-methylthio-1,3,5-triazine		PS-381	50mg	**1014-70-6**
Bis(2-ethylbutyl)azelate (TECH)		Pz-360	10g	**109-31-9**
Bis(2-ethylhexyl)adipate (S.G.)		F2074	500mg	**103-23-1**
	100ug/mL in Hexane	F2074JS	1mL	
	100ug/mL in Hexane	F2074S	5mL	
Bis(2-ethylhexyl)adipate (adipate-13C6) (S.G.)	100ug/mL in n-Nonane	FC2074S	1.2mL	
Bis(2-ethylhexyl)adipate (S.G.)		O-467	500mg	**103-23-1**
		O-467	5g	**103-23-1**
Bis(2-ethylhexyl)adipate (TECH)		Pz-25	10g	**103-23-1**
Bis(2-ethylhexyl)azelate (TECH)		Pz-31	10g	**103-24-2**
Bis(2-ethylhexyl)fumarate (TECH)		Pz-36	10g	**141-02-6**
Bis(2-ethylhexyl)glycolate (TECH)		Pz-400	10g	**R**
Bis(2-ethylhexyl)hexahydro phthalate (S.G.)		Pt-5	10g	**R**
Bis(2-ethylhexyl)hexahydro phthalate (TECH)		Pz-440	10g	**R**
Bis(2-ethylhexyl)isophthalate (S.G.)		Pt-6	10g	**137-89-3**
Bis(2-ethylhexyl)isophthalate (TECH)		Pz-48	10g	**137-89-3**
Bis(2-ethylhexyl)maleate (TECH)		Pz-40	10g	**142-16-5**
Bis(2-ethylhexyl)phosphite		2272C	10g	**R**
Bis(2-ethylhexyl)phosphoric acid		2271B	10g	**298-07-7**
Bis(2-ethylhexyl)phthalate (S.G.)		F66	1g	**117-81-7**
	100ug/mL in Hexane	F66JS	1mL	
	100ug/mL in Hexane	F66S	5mL	
Bis(2-ethylhexyl)phthalate (S.G.)		O-516	5g	**117-81-7**
		O-516	10g	**117-81-7**
Bis(2-ethylhexyl)phthalate (S.G.)		Pt-7	10g	**117-81-7**
Bis(2-ethylhexyl)phthalate (TECH)		Pz-47	10g	**117-81-7**
Bis(2-ethylhexyl)phthalate (ring-d4) (S.G.)		FD66-A	0.1g	**R**
		FD66-C	0.25g	**R**
	100ug/mL in n-Nonane	FD66S	1.2mL	
Bis(2-ethylhexyl)sebacate (TECH)		Pz-62	10g	**122-62-3**
N,N′-Bis(1-ethyl-3-methyl-pentyl)-p-phenylenediamine (TECH)		Ou-30	3g	**R**
		Ou-30	10g	**R**
2,2-Bis(p-ethylphenyl)-1,1-dichloroethane		PS-73	1g	**72-56-0**
Bis(4-fluorophenyl)(methyl)(1H-1,2,4-triazol-1-ylmethyl)silane		PS-2041	100mg	**85509-19-9**
4,4′-Bis(heptyloxy)azoxybenzene		1216L	100mg	**2635-26-9**
1,2-Bis(2-hydroxyethoxy)ethane		O-210	10g	**112-27-6**
Bis(2-hydroxyethyl)azelate (TECH)		Pz-350	10g	**29602-44-6**
Bis(2-hydroxyethyl)dimerate (TECH)		Pz-390	10g	**68855-78-7**
N,N′-Bis(2-hydroxyethyl)dithiooxamide		2225A	1g	**120-86-5**
N,N-Bis(2-hydroxyethyl)glycine		2851L	1g	**150-25-4**
1,4′-Bis(2-hydroxyethyl)piperazine		2325K	100mg	**122-96-3**
N,N-Bis(2-hydroxyethyl)-p-toulene sulfonamide		2227A	10g	**R**
1,4-Bis(hydroxymethyl)benzene		3932A	5g	**589-29-7**
1,1-Bis(4-hydroxy-3-methylphenyl)cyclohexane		2274E	5g	**R**
b,b-Bis(4-hydroxy-3-methylphenyl)propane		2273E	5g	**79-97-0**
2,2-Bis(hydroxymethyl)propionic acid		2273B	10g	**4767-03-7**
4,8-Bis(hydroxymethyl)tricyclo[5,2,1,02,6]decane		2231A	10g	**26896-48-0**
1,3-Bis(hydroxymethyl)urea		2274F	10g	**140-95-4**
2,2-Bis(4-hydroxyphenyl)butane (TECH)		Ou-1	3g	**77-40-7**
		Ou-1	10g	**77-40-7**
Bis(8-hydroxyquinolino)magnesium		2275B	5g	**R**
2,4-Bis(isopropylamino)-6-methylthio-s-triazine		PS-384	1g	**7287-19-6**
Bismark brown Y/C,I,#21000		BS-34	1g	**10114-58-6**
1,2-Bis(2-methoxyethoxy)ethane (S.G.)		O-562	2g	**112-49-2**

Category Name	Specification	Catalog#	Size	CAS#
Bis[2-(2-methoxyethoxy)ethyl]ether (S.G.)		O-563	2g	**143-24-8**
Bis(2-methoxyethyl)amine		2330K	100mg	**111-95-5**
Bis(2-methoxyethyl)ether (S.G.)		O-564	1g	**111-96-6**
		O-564	5g	**111-96-6**
Bis(2-methoxyethyl)phthalate (S.G.)		F2268	500mg	**117-82-8**
	1000ug/mL in Hexane	F2268AJS	1mL	
	1000ug/mL in Hexane	F2268AS	5mL	
	2000ug/mL in Acetonitrile	F2268JS	1mL	
	2000ug/mL in Acetonitrile	F2268S	5mL	
Bis(2-methoxyethyl)phthalate (S.G.)		O-547	500mg	**117-82-8**
		O-547	10g	**117-82-8**
Bis(2-methoxyethyl)phthalate (S.G.)		Pt-8	10g	**117-82-8**
Bis(2-methoxyethyl)phthalate (TECH)		Pz-56	10g	**117-82-8**
Bis(o-methoxyphenyl)carbonate (S.G.)		O-400	1g	**553-17-3**
Bis(a-methylbenzyl)ether (S.G.)		O-583	500mg	**93-96-9**
2,4-Bis(1-methylbutyl)phenol (TECH)		Ou-2	3g	**R**
		Ou-2	10g	**R**
Bis(4-methylcyclohexyl)phthalate (S.G.)		Pt-25	10g	**R**
Bis(4-methylcyclohexyl)phthalate (TECH)		Pz-411	10g	**R**
N,N′-Bis(1-methylheptyl)-p-phenylenediamine (TECH)		Ou-31	3g	**R**
		Ou-31	10g	**R**
Bis(4-methyl-2-pentyl)phthalate (S.G.)		F2309	5g	**146-50-9**
	1000ug/mL in Hexane	F2309JS	1mL	
	1000ug/mL in Hexane	F2309S	5mL	
Bis(4-methyl-2-pentyl)phthalate (S.G.)		Pt-9	10g	**146-50-9**
1,4-Bis[2-(4-methyl-5-phenyloxazolyl)]benzene		2276B	100mg	**3073-87-8**
2,5-Bis(2-methyl-2-propyl)-1,4-benzenediol		O-904	2g	**88-58-4**
Bis(2-methylpropyl)phthalate		O-522	10g	**84-69-5**
2,4-Bis(methylthio)-1-chlorobenzene		2275F	1g	**R**
Bismith Shot (Bi) 99,999%		XBI-MS-A	10g	
		XBI-MS-B	25g	
Bismuth metal		I-1870	10g	**7440-69-9**
Bismuth - 4% HNO3		X10M 6-1-100	100mL	
		X10M 6-1-250	250mL	
		X10M 6-1-500	500mL	
Bismuth - Bi metal, 99,999%, 2% HNO3		X10006-1-A	100mL	
		X10006-1-B	250mL	
		X10006-1-C	500mL	
Bismuth - Bi metal,99,999%,2% HCl		X10006-2-A	100mL	
		X10006-2-B	250mL	
		X10006-2-C	500mL	
Bismuth borate		I-1860	1g	**R**
Bismuth nitrate-pentahydrate		I-27	10g	**10035-06-0**
Bismuth Oxide (Bi2O3) 99,998%		XBI-O-A	5g	
		XBI-O-B	25g	
Bismuth oxychloride powder		I-1880	10g	**7787-59-9**
Bismuth oxyfluoride		I-1890	10g	**13520-72-4**
Bismuth Powder (Bi) 99,998%		XBI-MP-A	5g	
		XBI-MP-B	25g	
Bismuth subcarbonate		I-1900	10g	**5892-10-4**
Bismuth subnitrate		I-1910	10g	**10361-46-3**
Bismuth tribromide		I-1920	1g	**7787-58-8**
Bismuth triiodide		I-1940	5g	**7787-64-6**
Bis(p-nitrophenyl)carbonate		2335K	100mg	**5070-13-3**
Bis(p-nitrophenyl)disulfide		6568K	1g	**100-32-3**
Bis(p-nitrophenyl)phosphate		1210L	100mg	**645-15-8**
Bis(pentachloro-2,4-cyclopentadien-1-yl)		PS-862	250mg	**2227-17-0**
4,4′-Bis(pentyloxy)azoxybenzene		1207L	100mg	**19482-05-4**
Bis(perfluorophenyl) phenylphosphine oxide		F2456	10mg	**R**
Bisphenol A (ring 13C12) Solution (S.G.)	100ug/mL in Acetonitrile	F7295S	1.2mL	
Bis(2-phenoxyethyl)ether (S.G.)		O-584	100mg	**622-87-7**
1,4-Bis-2-(5-phenyloxazolyl)benzene		2310F	100mg	**1806-34-4**
N,N-Bis(phosphonomethyl) glycine		PS-2164	100mg	**2439-99-8**
Bis(phosphorylomethylol)amide		2277E	5g	**R**
Bispyribac Sodium		PS-2246	100mg	**125401-92-5**
	100ug/mL in Methanol	PS-2246AJS	1mL	
1,2-Bis(4-pyridyl)ethane		1252L	100mg	**4916-57-8**
1,2-Bis(2-pyridyl)ethylene		2273C	1g	**1437-15-6**
trans-1,2-Bis(4-pyridyl)ethylene		2345K	100mg	**13362-78-2**
2,5-Bis(4-pyridyl)-1,3,4-thiadiazole		2350K	100mg	**54010-21-8**
Bis[tri-n-butyltin]oxide		PS-282	1g	**56-35-9**
Bis(tributyltin)oxide		PS-282	1g	**56-35-9**
Bitertanol		PS-1093	100mg	**55179-31-2**
o,o′-Bitolyl		F1016	10mg	**605-39-0**
m,m′-Bitolyl		F1017	100mg	**612-75-9**
p,p′-Bitolyl		F1018	100mg	**613-33-2**

Category Name	Specification	Catalog#	Size	CAS#
Bitrex (TM)		PS-2084	1g	**3734-33-6**
	100ug/mL in H2O	PS-2084AJS	1mL	
	100ug/mL in Toluene	PS-2084JS	1mL	
Bitterguard™		PS-2084	1g	**3734-33-6**
Biurea (S.G.)		O-983	500mg	**110-21-4**
		O-983	5g	**110-21-4**
Biuret (S.G.)		O-984	1g	**108-19-0**
		O-984	5g	**108-19-0**
Black Leaf 40		PS-85	1g	**54-11-5**
Bladafum™		PS-2024	50mg	**3689-24-5**
Bladan™		PS-95	500mg	**56-38-2**
Bladex (S.G.)		F2487	250mg	**21725-46-2**
	1000ug/mL in t-Butylmethyl ether	F2487JS	1mL	
	1000ug/mL in t-Butylmethyl ether	F2487S	5mL	
Bladex		PS-387	250mg	**21725-46-2**
	100ug/mL in Acetonitrile	PS-387AJS	1mL	
Blattanex™		PS-551	1g	**114-26-1**
Blazer™		PS-1016	250mg	**50594-66-6**
Blazer methyl ester		PS-1111	100mg	**50594-67-7**
Bloc™		PS-1073	100mg	**60168-88-9**
B-Nine™		PS-391	250mg	**1596-84-5**
Bolero™		PS-1017	250mg	**28249-77-6**
Bolstar™		PS-1018	100mg	**35400-43-2**
Bolstar™		PS-2176	100mg	**64628-44-0**
Boltage™		PS-2046	50mg	**77458-01-6**
Bonzi™		PS-2097	500mg	**76738-62-0**
Borax glass-ground		I-1960	10g	**1330-43-4**
Bordeaux red/C,I,#16180		BS-27	1g	**5858-33-3**
Boric acid-crystal		I-1972	10g	**10043-35-3**
Boric anhydride powder		I-1974	10g	**1303-86-2**
Borneol		2280E	5g	**507-70-0**
Boron - H2O(5000ug/ml)		X5M 7-4-100	100mL	
		X5M 7-4-250	250mL	
		X5M 7-4-500	500mL	
Boron - H3BO3, 99,99%, H2O		X10007-4-A	100mL	
		X10007-4-B	250mL	
		X10007-4-C	500mL	
Boron Metallo - Organic Standard 1000ug/g in Mineral Oil		XBBOMS	100g	
Boron Oxide (B2O3) 99,999%		XB-O-A	5g	
		XB-O-B	25g	
Boron phosphate		I-1980	10g	**13308-51-5**
Boron tribromide		I-1995	1g	**10294-33-4**
Boron trifluoride-ether complex		I-2000	5g	**109-63-7**
Boscalid		PS-2260	100mg	**188425-85-6**
	100ug/mL in Acetonitrile	PS-2260AJS	1mL	
	100ug/mL in Toluene	PS-2260JS	1mL	
Botran™		PS-293	250mg	**99-30-9**
Bovine Liver Solution		XCRM-BL-A	100mL	
		XCRM-BL-B	250mL	
		XCRM-BL-C	500mL	
BPMC		PS-1046	250mg	**3766-81-2**
Brambicide™		PS-309	1g	**2545-59-7**
Brassicol™		PS-150	1g	**82-68-8**
Bravo™		PS-1020	250mg	**1897-45-6**
Brestan™		PS-1021	250mg	**900-95-8**
Brigade™		PS-2003	100mg	**82657-04-3**
Brilliant cresyl blue/C,I,#51010		BS-79	1g	**10127-36-3**
Brilliant green/C,I,#42040		BS-45	1g	**633-03-4**
Brilliant yellow/C,I,#24890		BS-38	1g	**3051-11-4**
Broadstrike™		PS-2111	500mg	**98967-40-9**
Brodifacoum		PS-1056	50mg	**56073-10-0**
	100ug/mL in Acetonitrile	PS-1056AJS	1mL	
	100ug/mL in Toluene	PS-1056JS	1mL	
Bromacil (S.G.)		F2200	250mg	**314-40-9**
	100ug/mL in t-Butylmethyl ether	F2200JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2200S	5mL	
Bromacil		PS-62	250mg	**314-40-9**
	100ug/mL in Acetonitrile	PS-62AJS	1mL	
Bromadiolone		PS-1038	100mg	**28772-56-7**
Bromeflor™		PS-325	250mg	**16672-87-0**
Bromide @ 100ug/ml in Water		XIC-BR-A	100mL	
		XIC-BR-B	250mL	
		XIC-BR-C	500mL	
Bromide @ 1000ug/ml in water		XIC-BR-M-A	100mL	
		XIC-BR-M-B	250mL	
		XIC-BR-M-C	500mL	
Brominal™		PS-426	250mg	**1689-84-5**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Bromine		I-2020	1g	**7726-95-6**
Brominil™		PS-426	250mg	**1689-84-5**
Bromoacetaldehyde diethylacetal		2278F	10g	**2032-35-1**
Bromoacetaldehyde dimethylacetal		2278B	10g	**7252-83-7**
4′-Bromoacetanilide (S.G.)		O-268	1g	**103-88-8**
		O-268	10g	**103-88-8**
Bromoacetic acid (S.G.)		F2085	2g	**79-08-3**
	100ug/mL in t-Butylmethyl ether	F2085JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2085S	5mL	
Bromoacetic acid (S.G.)		O-40	2g	**79-08-3**
		O-40	10g	**79-08-3**
2-Bromo-2′-acetonaphthone		2286F	1g	**613-54-7**
a-Bromo-2′-acetonaphthone		2286F	1g	**613-54-7**
Bromoacetone (S.G.)		F2011	100mg	**598-31-2**
	100ug/mL in Acetone	F2011JS	1mL	
	100ug/mL in Acetone	F2011S	5mL	
Bromoacetonitrile		2375K	1g	**590-17-0**
2-Bromoacetophenone		2290	10g	**70-11-1**
m-Bromoacetophenone		2380K	100mg	**2142-63-4**
p-Bromoacetophenone		2289F	5g	**99-90-1**
Bromoacetyl bromide		PS-273	500mg	**598-21-0**
	100ug/mL in Acetonitrile	PS-273AJS	1mL	
	100ug/mL in Toluene	PS-273JS	1mL	
3-Bromo-4-aminotoluene		2294B	1g	**583-68-6**
5-Bromo-2-aminotoluene		2295B	5g	**583-75-5**
m-Bromoaniline		2296B	5g	**591-19-5**
o-Bromoaniline		2298A	5g	**615-36-1**
p-Bromoaniline (S.G.)		F2497	1g	**106-40-1**
	1000ug/mL in Toluene	F2497JS	1mL	
	1000ug/mL in Toluene	F2497S	5mL	
p-Bromoaniline		MET-374B	1g	**106-40-1**
m-Bromoanisole		2291F	1g	**2398-37-0**
o-Bromoanisole (S.G.)		O-2396	1g	**578-57-4**
p-Bromoanisole		2297B	5g	**104-92-7**
5-Bromoanthranillic acid		2959L	500mg	
4-Bromobenzaldehyde		2294F	1g	**1122-91-4**
Bromobenzene (S.G.)		F802	5g	**108-86-1**
	100ug/mL in Methanol	F802JS	1mL	
	100ug/mL in Methanol	F802S	5mL	
Bromobenzene (S.G.)		O-666	10g	**108-86-1**
Bromobenzene (13C6) (S.G.)		FC802-B	0.5g	**R**
Bromobenzene (d5) (S.G.)		FD802-10	10g	**R**
		FD802-5	5g	**R**
m-Bromobenzoic acid		2293E	1g	**585-76-2**
o-Bromobenzoic acid		2291C	10g	**88-65-3**
p-Bromobenzoic acid		2292B	5g	**586-76-5**
m-Bromobenzotrifluoride		2293F	5g	**401-78-5**
4-Bromobenzylamine hydrochloride		2390K	10mg	**26177-44-6**
p-Bromobenzyl bromide		2395K	1g	**589-15-1**
2-Bromobiphenyl (S.G.)		2320G	50mg	**2052-07-5**
	100ug/mL in Hexane	2320GS	2mL	
3-Bromobiphenyl (S.G.)		2321G	50mg	**2113-57-7**
	100ug/mL in Hexane	2321GS	2mL	
4-Bromobiphenyl (S.G.)		2322G	50mg	**92-66-0**
	100ug/mL in Hexane	2322GS	2mL	
3-[3-(4′-Bromo[1.1′biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-1-benzopyran-2-one		PS-1038	100mg	**28772-56-7**
3-[3-(4′-Bromo[1,1′-biphenyl]-4-yl])-1,2,3,4-tetrahydro-1-naphthalenyl]-4-hydroxy-2H-benzopyran-2-one		PS-1056	50mg	**56073-10-0**
1-Bromobutane (S.G.)		O-601	5g	**109-65-9**
2-Bromobutane (S.G.)		O-602	2g	**78-76-2**
2-Bromobutanoic acid (S.G.)		F2941	2g	**80-58-0**
	100ug/mL in t-Butylmethyl ether	F2941JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2941S	5mL	**80-58-0**
4-Bromo-n-butyl acetate		2302B	10g	**4753-59-7**
5-Bromo-3-sec-butyl-6-methyluracil		PS-62	250mg	**314-40-9**
N-(4-Bromobutyl)phthalimide		1237L	100mg	**5394-18-3**
2-Bromo-n-butyric acid (S.G.)		O-41	2g	**80-58-0**
3-Bromo-d-camphor		1369L	100mg	**10293-06-8**
Bromochloroacetic acid (S.G.)		F2031	10mg	**5589-96-8**
	100ug/mL in t-Butylmethyl ether	F2031JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2031S	5mL	
1-Bromo-2-chlorobenzene (R.G.)		2304B	5g	**694-80-4**
1-Bromo-3-chlorobenzene (R.G.)		2305B	5g	**108-37-2**

Category Name	Specification	Catalog#	Size	CAS#
1-Bromo-4-chlorobenzene (S.G.)		F1089	5g	**106-39-8**
	100ug/mL in Methanol	F1089JS	1mL	
	100ug/mL in Methanol	F1089S	5mL	
1-Bromo-4-chlorobenzene (S.G.)		O-667	5g	**106-39-8**
		O-667	10g	**106-39-8**
p-Bromo-g-chlorobutyrophenone		2304F	5g	**4559-96-0**
1-Bromo-3-chloro-5,5-dimethyl-2,4-imidazolidinedione		PS-2089	500mg	**16079-88-2**
1-Bromo-2-chloroethane (S.G.)		O-603	500mg	**107-04-0**
		O-603	10g	**107-04-0**
Bromochloromethane (S.G.)		F206	2g	**74-97-5**
	2000ug/mL in Methanol	F206AJS	1mL	
	2000ug/mL in Methanol	F206AS	5mL	
	20,000ug/mL in Methanol	F206BJS	1mL	
	20,000ug/mL in Methanol	F206BS	5mL	
	100ug/mL in Methanol	F206JS	1mL	
	100ug/mL in Methanol	F206S	5mL	
Bromochloromethane (S.G.)		O-604	5g	**74-97-5**
Bromochloromethane (d2) (S.G.)		FD206-A	0.1g	**R**
1-Bromo-3-chloro-2-methylpropane		4000L	1g	
2-Bromo-6-chloro-4-nitroaniline (S.G.)		F2498	1g	**99-29-6**
	1000ug/mL in Toluene	F2498JS	1mL	
	1000ug/mL in Toluene	F2498S	5mL	
1-Bromo-4-chloro-2-nitrobenzene		2410K	100mg	**R**
4-Bromo-2-chlorophenol (R.G.)		2415K	1g	**3964-56-5**
4-Bromo-2-chlorophenol		MET-1024A	500mg	**3964-56-5**
4-Bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile		PS-2171	100mg	**122453-73-0**
O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propyl phosphorothioate		PS-1024	250mg	**41198-08-7**
3-[4-Bromo-3-chlorophenyl]-1-methoxy-1-methylurea		PS-368	250mg	**13360-45-7**
1-Bromo-3-chloropropane (S.G.)		O-605	2g	**109-70-6**
2-Bromo-1-chloropropane (S.G.)		F205	500mg	**3017-95-6**
	2000ug/mL in Methanol	F205AJS	1mL	
	2000ug/mL in Methanol	F205AS	5mL	
	20,000ug/mL in Methanol	F205BJS	1mL	
	20,000ug/mL in Methanol	F205BS	5mL	
	100ug/mL in Methanol	F205JS	1mL	
	100ug/mL in Methanol	F205S	5mL	
2-Bromo-1-chloropropane (S.G.)		O-606	500mg	**3017-95-6**
m-Bromocinnamic acid		1228L	1g	**32862-97-8**
Bromocyclohexane (S.G.)		O-607	1g	**108-85-0**
		O-607	10g	**108-85-0**
1-Bromodecane (S.G.)		O-608	2g	**112-29-8**
Bromodichloroacetic acid (S.G.)		F2512	10mg	**71133-14-7**
1-Bromo-2,6-dichlorobenzene		2420K	100mg	**19393-92-1**
4-Bromo-1,2-dichlorobenzene		2310	10g	**18282-59-2**
Bromodichloromethane (S.G.)		F48	1g	**75-27-4**
	100ug/mL in Methanol	F48JS	1mL	
	100ug/mL in Methanol	F48S	5mL	
4-Bromo-2,5-dichlorophenol (S.G.)		F2926	100mg	**1940-42-7**
4-Bromo-2,5-dichlorophenol		MET-2009A	100mg	**1940-42-7**
4-Bromo-2,5-dichlorophenol		MET-677B	100mg	**1940-42-7**
4-Bromo-2,6-dichlorophenol (S.G.)		O-2405	250mg	**3217-15-0**
6-Bromo-2,5-dichlorophenol (R.G.)		2430K	100mg	**R**
O-(4-Bromo-2,5-dichlorophenyl)-O,0-diethylphosphorothioate		PS-2008	100mg	**4824-78-6**
O-(4-Bromo-2,5-dichlorophenyl)-O,0-dimethylphosphorothioate		PS-2009	50mg	**2104-96-3**
O-(4-Bromo-2,5-dichlorophenyl)-O-methylphenyl phosphonothioate		PS-677	100mg	**21609-90-5**
4-Bromo-3,5-dimethyl phenyl-N-methyl carbamate		PS-450	100mg	**672-99-1**
4-Bromo-3,5-dimethylphenyl-N-methyl carbamate		F2054	100mg	**672-99-1**
1-Bromo-2,2-dimethyl propane		2315H	500mg	**630-17-1**
4-Bromo-3,5-dimethylpyrazole		2288F	1g	**3398-16-1**
2-Bromo-4,6-dinitroaniline (S.G.)		F2499	1g	**1817-73-8**
	1000ug/mL in Toluene	F2499JS	1mL	
	1000ug/mL in Toluene	F2499S	5mL	
1-Bromo-2,4-dinitrobenzene		2200J	500mg	**584-48-5**
1-Bromododecane (S.G.)		O-609	5g	**143-15-7**
		O-609	10g	**143-15-7**
Bromoethane		O-640	10g	**74-96-4**
Bromoethane (d5) (S.G.)		O-D640-10	10g	**R**
2-Bromoethane sulfonic acid sodium salt monohydrate		2333B	5g	**4263-52-9**
2-Bromoethanol (S.G.)		O-2406	5g	**540-51-2**
2-Bromoethanol (1,2-13C2) (S.G.)		O-C2406-C	0.25g	**R**
2-Bromoethanol (1,1,2,2-d4) (S.G.)		O-D2406-1	1g	**R**
		O-D2406-5	5g	**R**
2-Bromoethyl acetate		2340	10g	**927-68-4**
2-Bromoethylamine hydrobromide		2331A	5g	**2576-47-8**

Category Name	Specification	Catalog#	Size	CAS#
(1-Bromoethyl)benzene		2435K	1g	**585-71-7**
(2-Bromoethyl)benzene		2440K	1g	**103-63-9**
2-(2-Bromoethyl)-1,3-dioxane		2445K	100mg	**33884-43-4**
2-Bromoethyl ethyl ether		2332F	1g	**592-55-2**
2-Bromoethyl methyl ether		2450K	1g	**6482-24-2**
1-(2-Bromoethyl)naphthalene (S.G.)		0-2349	1g	**13686-49-2**
N-(2-Bromoethyl)phthalimide		2337F	5g	**574-98-1**
(2-Bromoethyl)trimethyl ammonium bromide		PS-361	1g	**2758-06-7**
	100ug/mL in H2O	PS-361AJS	1mL	
	100ug/mL in Toluene	PS-361JS	1mL	
2-Bromofluorobenzene (S.G.)		0-2308	1g	**1072-85-1**
4-Bromofluorobenzene (S.G.)		F833	5g	**460-00-4**
	10,000ug/mL in Acetone	F833AJS	1mL	
	10,000ug/mL in Acetone	F833AS	5mL	
	2000ug/mL in Methanol	F833JS	1mL	
	2000ug/mL in Methanol	F833S	5mL	
Bromoform (S.G.)		F47	5g	**75-25-2**
	100ug/mL in Methanol	F47JS	1mL	
	100ug/mL in Methanol	F47S	5mL	
Bromoform (S.G.)		0-610	2g	**75-25-2**
Bromoform (13C) (S.G.)		FC47-A	0.1g	**R**
		FC47-B	0.5g	**R**
Bromoform (D, 99,5%) (S.G.)		FD47-B	10g	**R**
Bromofume™		PS-154	1g	**106-93-4**
5-Bromofuroic acid		2455K	1g	**585-70-6**
1-Bromoheptane (R.G.)		2345D	10g	**629-04-9**
3-Bromoheptane		2326H	500mg	**1974-05-6**
1-Bromohexadecane		2465K	1g	**112-82-3**
1-Bromohexane (S.G.)		0-611	2g	**111-25-1**
2-Bromohexane (R.G.)		2335H	1g	**3377-86-4**
3-Bromohexane		2336H	1g	**3377-87-5**
2-Bromohexanoic acid		2470K	100mg	**616-05-7**
6-Bromohexanoic acid		2346B	5g	**4224-70-8**
Bromohydroquinone		2348B	1g	**583-69-7**
5-Bromoindole		2349B	1g	**10075-50-0**
5-Bromoindole-2,3-dione		1222L	100mg	**87-48-9**
5-Bromoindoxyl diacetate		2475K	10mg	**33588-54-4**
2-Bromoisobutyric acid		2347B	5g	**2052-01-9**
a-Bromoisobutyrophenone		2282F	1g	**10409-54-8**
4-Bromoisophthalic acid		2345E	1g	**6939-93-1**
b-Bromoisopropylbenzene		2485K	100mg	**1459-00-3**
a-Bromoisovaleric acid		2355B	1g	**565-74-2**
p-Bromomandelic acid		2340H	500mg	**6940-50-7**
Bromomethane	10,000ug/ml in Methanol	F46AJS	1ml	
	10,000ug/ml in Methanol	F46ARPS	5x1ml	
	10,000ug/ml in Methanol	F46AS	5ml	
	100ug/ml in Methanol	F46JS	1ml	
	100ug/ml in Methanol	F46RPS	5x1ml	
	100ug/ml in Methanol	F46S	5ml	
2-Bromo-2′-methoxyacetophenone		1234L	100mg	**31949-21-0**
p-Bromo-a-methylbenzylamine		2495K	100mg	**73918-56-6**
1-Bromo-2-methylbutane		2345H	1g	**10422-35-2**
1-Bromo-3-methylbutane (S.G.)				
1-Bromo-2-methylpentane		2356H	1g	**R**
1-Bromo-4-methylpentane		2357H	500mg	**626-88-0**
2-Bromo-2-methylpentane		2358H	500mg	**4283-80-1**
1-Bromo-2-methylpropane (S.G.)		0-613	2g	**78-77-3**
		0-613	10g	**78-77-3**
2-Bromo-2-methylpropane (S.G.)		0-614	1g	**507-19-7**
		0-614	10g	**507-19-7**
1-Bromonaphthalene (S.G.)		0-2351	10g	**90-11-9**
2-Bromonaphthalene (S.G.)		F2437	500mg	**580-13-2**
	2000ug/mL in Methanol	F2437JS	1mL	
	2000ug/mL in Methanol	F2437S	5mL	
1-Bromo-2-naphthol		2367A	5g	**573-97-7**
6-Bromo-2-naphthol		2368E	5g	**15231-91-1**
4-Bromo-1-naphthylamine		1243L	1g	**2298-07-9**
6-Bromo-2-naphthyl-b-D-tetraacetylglucopyranoside		1906L	100mg	**R**
2-Bromo-4-nitroaniline		2505K	100mg	**13296-94-1**
1-Bromo-2-nitrobenzene (S.G.)		F2319	1g	**577-19-5**
	5000ug/mL in Isooctane	F2319AJS	1mL	
	5000ug/mL in Isooctane	F2319AS	5mL	
	1000ug/mL in Isooctane	F2319JS	1mL	
	1000ug/mL in Isooctane	F2319S	5mL	
1-Bromo-4-nitrobenzene		2384H	1g	**586-78-7**

Category Name	Specification	Catalog#	Size	CAS#
2-Bromo-2-nitro-1,3-propanediol		PS-2128	1g	**52-51-7**
2-Bromo-5-nitrothiazole		2507K	10mg	**3034-48-8**
a-Bromo-p-nitrotoluene		2375B	5g	**100-11-8**
1-Bromononane (R.G.)		2388H	1g	**693-58-3**
1-Bromooctadecane		2380	10g	**112-89-0**
1-Bromooctane		2385	5g	**111-83-1**
2-Bromooctane (R.G.)		2392H	1g	**557-35-7**
3-Bromooctane (R.G.)		2393H	500mg	**999-64-4**
8-Bromooctanoic acid		1192L	1g	**17696-11-6**
Bromopentafluorobenzene		2295F	1g	**344-04-7**
1-Bromopentane (S.G.)		0-615	2g	**110-53-2**
		0-615	10g	**110-53-2**
2-Bromopentane (S.G.)		0-616	2g	**107-81-3**
p-Bromophenacylbromide		3540	10g	**99-73-0**
b-Bromophenetole		2393E	10g	**589-10-6**
m-Bromophenol (R.G.)		3265L	1g	**591-20-8**
o-Bromophenol (S.G.)		F2467	100mg	**95-56-7**
	2000ug/mL in Methanol	F2467JS	1mL	
	2000ug/mL in Methanol	F2467S	5mL	
p-Bromophenol (S.G.)		0-2407	5g	**106-41-2**
Bromophenol blue		BS-162	500mg	**115-39-9**
p-Bromophenoxy acetic acid		PS-312	1g	**R**
	100ug/mL in Acetonitrile	PS-312AJS	1mL	
	100ug/mL in MTBE	PS-312JS	1mL	
2-Bromophenylacetic acid		2511K	500mg	**18698-97-0**
a-Bromophenylacetic acid		2514K	1g	**4870-65-9**
p-Bromophenylacetic acid		2397F	1g	**1878-68-8**
p-Bromophenylacetonitrile		2517K	1g	**16532-79-9**
2-Bromo-2-phenylacetophenone		2401F	1g	**1484-50-0**
2-Bromo-4′-phenylacetophenone		2400F	1g	**135-73-9**
a-Bromo-p-phenylacetophenone		2400F	1g	**135-73-9**
2-Bromophenylhydrazine hydrochloride		2303F	1g	**50709-33-6**
p-Bromophenyl Isocyanate		4006L	100mg	
3-(p-Bromophenyl)-1-methoxy-1-methylurea		PS-374	250mg	**3060-89-7**
3-(p-Bromophenyl)-1-methyl-1-methoxyurea		PS-374	250mg	**3060-89-7**
4-Bromophenyl phenyl ether (S.G.)		F41	1g	**101-55-3**
	100ug/mL in Methanol	F41JS	1mL	
	100ug/mL in Methanol	F41S	5mL	
4-Bromophenyl phenyl ether (phenyl-d5) (S.G.)		FD41-A	0.1g	**R**
		FD41-B	0.5g	**R**
1-Bromo-3-phenyl propane		2520K	1g	**637-59-2**
2-Bromo-1-phenyl propane		2398H	500mg	**2114-39-8**
Bromophos		PS-2009	50mg	**2104-96-3**
Bromophos ethyl		PS-2008	100mg	**4824-78-6**
	100ug/mL in Acetonitrile	PS-2008AJS	1mL	
	100ug/mL in Hexane	PS-2008JS	1mL	
	100ug/mL in Hexane	PS-2008JS	1mL	
Bromophos methyl		PS-2009	50mg	**2104-96-3**
	100ug/mL in Acetonitrile	PS-2009AJS	1mL	
	100ug/mL in Hexane	PS-2009JS	1mL	
1-Bromopinacolone		2523K	500mg	**5469-26-1**
1-Bromopropane (S.G.)		0-617	2g	**106-94-5**
2-Bromopropane (S.G.)		0-618	5g	**75-26-3**
3-Bromo-1-propanol		2400	10g	**627-18-9**
3-Bromo-1-propene		0-655	2g	**106-95-6**
2-Bromopropionic acid (S.G.)		F2444	5g	**598-72-1**
	2000ug/mL in t-Butylmethyl ether	F2444JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2444S	5mL	
3-Bromopropionic acid		2403F	5g	**590-92-1**
2-Bromopropiophenone		1564L	1g	**2114-00-3**
3-Bromopropylamine hydrobromide		2307F	1g	**5003-71-4**
Bromopropylate		PS-1062	250mg	**18181-80-1**
N-(3-Bromopropyl)-phthalimide		1186L	1g	**5460-29-7**
2-Bromopyridine		2538K	1g	**109-04-6**
3-Bromopyridine		2410F	1g	**626-55-1**
4-Bromopyridine hydrochloride		2411F	1g	**19524-06-2**
4-Bromoresorcinol		2544K	10mg	**6626-15-9**
5-Bromosalicylaldehyde		2410	10g	**1761-61-1**
5-Bromosalicylic acid		2412B	10g	**89-55-4**
Bromosuccinic acid		2430	2g	**923-06-8**
N-Bromosuccinimide (S.G.)		0-796	2g	**128-08-5**
		0-796	10g	**128-08-5**
1-Bromotetradecane		6060	10g	**112-71-0**
2-Bromothiazole		2405F	1g	**3034-53-5**

Category Name	Specification	Catalog#	Size	CAS#
2-Bromothiophene		2435C	5g	1003-09-4
2-Bromothiophenol (R.G.)		2556K	100mg	6320-02-1
3-Bromothiophenol (R.G.)		2553K	100mg	6320-01-0
4-Bromothiophenol		2550K	100mg	106-53-6
Bromothymol blue		2875L	100mg	76-59-5
Bromothymol blue sodium salt		1525L	1g	34722-90-2
a-Bromotoluene		2440	10g	100-39-0
m-Bromotoluene (R.G.)		2452B	5g	591-17-3
o-Bromotoluene		2450	5g	95-46-5
p-Bromotoluene (S.G.)		O-668	1g	106-38-7
		O-668	10g	106-38-7
a-Bromo-p-toluic acid		2460E	1g	6232-88-8
a-Bromo-m-tolunitrile		1180L	1g	28188-41-2
a-Bromo-o-tolunitrile		2413F	1g	22115-41-9
a-Bromo-p-tolunitrile		2413H	500mg	17201-43-3
Bromotrichloromethane (S.G.)		O-619	2g	75-62-7
1-Bromotridecane		2415H	500mg	765-09-3
1-Bromo-3,3,3-trifluoroacetone		2559K	100mg	431-35-6
1-Bromoundecane (R.G.)		2568K	10mg	693-67-4
a-Bromo-n-valeric acid		2456B	5g	584-93-0
a-Bromo-o-xylene		2461B	5g	89-92-9
a-Bromo-p-xylene		2571K	100mg	104-81-4
Bromoxynil (S.G.)		F2093	250mg	1689-84-5
	100ug/mL in Methanol	F2093JS	1mL	
	100ug/mL in Methanol	F2093S	5mL	
Bromoxynil		PS-426	250mg	1689-84-5
Bromoxynil (ring 13C6) Solution (S.G.)	50ug/mL in n-Nonane	FC2093S	1.2mL	
Bromoxynil-heptanoate		MET-426A	50mg	R
Bromoxynil-methyl ether		MET-426B	100mg	R
Bromoxynil octanoic acid ester (S.G.)		F2439	250mg	1689-99-2
	1000ug/mL in Isooctane	F2439JS	1mL	
	1000ug/mL in Isooctane	F2439S	5mL	
Bromoxynil octanoic acid ester		PS-434	250mg	1689-99-2
	100ug/mL in Acetonitrile	PS-434AJS	1mL	
Bromuconazole		PS-2301	100mg	116255-48-2
Bronopol		PS-2128	1g	52-51-7
	100ug/mL in Methanol	PS-2128JS	1mL	
Brucine		2465B	1g	357-57-3
Brucine nitrate dihydrate		3247L	1g	
Brucine sulfate		2466E	2.5g	4845-99-2
Bryton barium sulfonate (TECH)		S-433-1	10g	R
BTS 27419		PS-1005	250mg	33089-61-1
Bucid™		PS-2186	25mg	10004-44-1
Buctril™		PS-426	250mg	1689-84-5
Bueno™		PS-429	100mg	2163-80-6
Bugle™		PS-2223	100mg	71283-80-2
Bullet™		PS-2157	100mg	79983-71-4
Bunt-cure™		PS-690	250mg	118-74-1
Bunt-no-more™		PS-690	250mg	118-74-1
Bupirimate		PS-2309	100mg	41483-43-6
Buprofezin		PS-2067	100mg	69327-76-0
	100ug/mL in Acetonitrile	PS-2067AJS	1mL	
	100ug/mL in Toluene	PS-2067JS	1mL	
Busan 30A		PS-2021	10mg	21564-17-0
Busan 40		PS-2019	100mg	51026-28-9
	100ug/mL in H2O	PS-2019AJS	1mL	
	100ug/mL in Toluene	PS-2019JS	1mL	
Busan 85		PS-2020	100mg	128-03-0
	100ug/mL in H2O	PS-2020AJS	1mL	
	100ug/mL in Toluene	PS-2020JS	1mL	
Butachlor (S.G.)		F2204	100mg	23184-66-9
	100ug/mL in t-Butylmethyl ether	F2204JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2204S	5mL	
Butachlor		PS-348	100mg	23184-66-9
	100ug/mL in Acetonitrile	PS-348AJS	1mL	
	100ug/mL in Methanol	MET-348AJS	1mL	
Butacide™		PS-100	100mg	51-03-6
Butadiene monoxide		2468E	1g	930-22-3
Butadiene sulfone		2480	10g	77-79-2
Butanal		O-225	5g	123-72-8
1,2-Butanediol		2480H	5g	584-03-2
1,3-Butanediol (S.G.)		O-189	10g	107-88-0
1,4-Butanediol (S.G.)		O-190	10g	110-63-4

Category Name	Specification	Catalog#	Size	CAS#
2,3-Butanediol		2580	10g	513-85-9
1,4-Butanediol dicaprylate (TECH)		Pz-750	10g	R
1,4-Butanediol dinonanoate (TECH)		Pz-755	10g	R
2,3-Butanedione (S.G.)		O-816	1g	431-03-8
2,3-Butanedione monoxime		2488B	10g	57-71-6
2,3-Butanedione-2-oxime		2488B	10g	57-71-6
1,4-Butanedithiol		2477F	1g	1191-08-8
1-Butanesulfonic acid sodium salt		2484F	1g	2386-54-1
1,2,3,4-Butanetetracarboxylic acid		2492B	5g	1703-58-8
1,2,4-Butanetriol		2580K	1g	3068-00-6
1-Butanol		O-142	10g	71-36-3
2-Butanol		O-144	5g	78-92-2
2-Butanone (S.G.)		F704	5g	78-93-3
	100ug/mL in Methanol:Water (90:10)	F704JS	1mL	
	100ug/mL in Methanol:Water (90:10)	F704S	5mL	
2-Butanone (4,4,4-d3) (S.G.)		FD704-1	1g	R
		FD704-A	0.1g	R
2-Butanone		O-810	5g	78-93-3
2-Butanone (DNPH Derivative) (S.G.)		F2473	100mg	958-60-1
	100ug/mL in Acetonitrile	F2473JS	1mL	
	100ug/mL in Acetonitrile	F2473S	5mL	
2-Butanone oxime		2493A	5g	96-29-7
2-Butanone peroxide (S.G.)		F2409	1g	1338-23-4
2-Butenal		O-228	1g	4170-30-3
2-Butene-1,4-dicarboxylic acid (S.G.)		O-62	500mg	4436-74-2
		O-62	5g	4436-74-2
2-Butene-1,4-diol		2496A	10g	110-64-5
trans-2-Butenoic acid		O-8	5g	3724-65-0
1-Buten-3-ol		2493F	1g	598-32-3
2-Buten-1-ol		2494B	10g	6117-91-5
3-Buten-1-ol		2494F	1g	627-27-0
Butopyronoxyl		PS-907	1g	532-34-3
Butox™		PS-2071	250mg	52918-63-5
Butoxide™		PS-100	100mg	51-03-6
Butoxone™		PS-306	250mg	94-82-6
p-Butoxybenzyl alcohol		2586K	100mg	6214-45-5
2-Butoxyethanol (S.G.)		O-176	500mg	111-76-2
		O-176	5g	111-76-2
2-(2-Butoxyethoxy)ethanol (S.G.)		O-172	10g	112-34-5
2-(2-Butoxyethoxy)ethyl acetate (S.G.)		O-441	10g	124-17-4
2-[2-Butoxyethoxy]ethyl thiocyanate		PS-730	250mg	112-56-1
	100ug/mL in Acetonitrile	PS-730AJS	1mL	
2-Butoxyethyl acetate (R.G.)		O-2297	5g	112-07-2
		O-2297	10g	112-07-2
Butoxyethyl-2,4-dichlorophenoxyacetate		PS-315	250mg	1929-73-3
2-Butoxyethyl nonanoate (TECH)		Pz-240	10g	R
2-Butoxyethyl oleate (TECH)		Pz-9	10g	R
2-Butoxyethyl stearate (TECH)		Pz-18	10g	109-38-6
Butoxyethyl-2,4,5-trichlorophenoxy-acetate		PS-309	1g	2545-59-7
N-(Butoxymethyl)-2-chloro-2',6'-diethylacetanilide		PS-348	100mg	23184-66-9
p-Butoxyphenol (S.G.)		O-886	500mg	122-94-1
		O-886	5g	122-94-1
Butoxypolypropylene glycol		PS-908	1g	9003-13-8
	100ug/mL in Methanol	PS-908JS	1mL	
Butralin		PS-1004	500mg	33629-47-9
	100ug/mL in Acetonitrile	PS-1004AJS	1mL	33629-47-9
	100ug/mL in Isooctane	PS-1004JS	1mL	
Butsid™		PS-2186	25mg	10004-44-1
Butyl Isocyanate (S.G.)		O-2419	500mg	111-36-4
N-n-Butylacetanilide		2500	10g	91-49-6
n-Butyl acetate (S.G.)		F2538	5g	123-86-4
sec-Butyl acetate (S.G.)		O-2008	5g	105-46-4
		O-2008	10g	105-46-4
tert-Butyl acetate (S.G.)		O-2009	1g	540-88-5
		O-2009	5g	540-88-5
n-Butyl acetate (S.G.)		O-407	10g	123-86-4
tert-Butylacetic acid		2595F	1g	1070-83-3
tert-Butyl acetoacetate		2502B	10g	1694-31-1
Butyl acetoxystearate (TECH)		Pz-250	10g	R
Butyl acetyl ricinoleate (TECH)		Pz-14	10g	R
n-tert-Butylacrylamide (S.G.)		O-1003	500mg	107-58-4
		O-1003	10g	107-58-4
sec-Butyl acrylate		2400J	100mg	2998-08-5

Category Name	Specification	Catalog#	Size	CAS#
n-Butyl acrylate (S.G.)		0-1004	10g	141-32-2
n-Butyl alcohol (S.G.)		F2451	5g	71-36-3
	100ug/mL in Methanol	F2451JS	1mL	
	100ug/mL in Methanol	F2451S	5mL	
n-Butyl alcohol (S.G.)		0-142	10g	71-36-3
sec-Butyl alcohol (S.G.)		0-144	5g	78-92-2
tert-Butyl alcohol (S.G.)		F2535	5g	75-65-0
tert-Butyl alcohol (S.G.)		0-145	10g	75-65-0
n-Butylamine (S.G.)		0-273	5g	109-73-9
sec-Butylamine (S.G.)		0-275	5g	13952-84-6
tert-Butylamine (S.G.)		0-276	5g	75-64-9
(n-Butylamino)acetonitrile		2592K	100mg	3010-04-6
2-tert-Butylamino-4-chloro-6-ethylamino-1,3,5-triazine		PS-413	50mg	5915-41-3
2-(tert-Butylamino)ethanol		2507B	10g	4620-70-6
2-tert-Butylamino-4-ethylamino-6-methoxy-s-triazine		PS-2120	1g	33693-04-8
2-tert-Butylamino-4-ethylamino-6-methyl-thio-s-triazine		PS-379	1g	886-50-0
2-tert-Butylamino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-on		PS-2067	100mg	69327-76-0
n-Butylaniline		2520	10g	1126-78-9
p-tert-Butylaniline		2595K	100mg	769-92-6
2-tert-Butylanthracene (S.G.)		F1006	100mg	18801-00-8
	100ug/mL in Toluene	F1006JS	1mL	
	100ug/mL in Toluene	F1006S	5mL	
2-tert-Butylanthraquinone		2599F	5g	84-47-9
Butylate (S.G.)		F2212	1g	2008-41-5
	100ug/mL in t-Butylmethyl ether	F2212JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2212S	5mL	
Butylate		PS-503	1g	2008-41-5
	100ug/mL in Acetonitrile	PS-503AJS	1mL	
Butylated hydroxyanisole (S.G.)		0-1022	1g	25013-16-5
Butyl Isocyanate		0-2419	500mg	111-36-4
Butylated hydroxytoluene		0-873	5g	128-37-0
p-Butylbenzaldehyde		2600F	1g	1200-14-2
n-Butylbenzene (S.G.)		F815	1g	104-51-8
	100ug/mL in Methanol	F815JS	1mL	
	100ug/mL in Methanol	F815S	5mL	
n-Butylbenzene (ring-13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC815S	1.2mL	
sec-Butylbenzene (S.G.)		F816	1g	135-98-8
	100ug/mL in Methanol	F816JS	1mL	
	100ug/mL in Methanol	F816S	5mL	
tert-Butylbenzene (S.G.)		F817	2g	98-06-6
	100ug/mL in Methanol	F817JS	1mL	
	100ug/mL in Methanol	F817S	5mL	
tert-Butylbenzene (S.G.)		0-763	2g	98-06-6
		0-763	5g	98-06-6
Butyl benzoate (S.G.)		0-517	10g	136-60-7
p-tert-Butylbenzoic acid (S.G.)		0-82	5g	98-73-7
		0-82	10g	98-73-7
n-Butyl-o-benzoylbenzoate		2535B	10g	R
4-(tert-Butyl)benzyl bromide		2601K	100mg	18880-00-7
Butyl benzyl phthalate (S.G.)		F67	1g	85-68-7
	100ug/mL in Hexane	F67JS	1mL	
	100ug/mL in Hexane	F67S	5mL	
Butyl benzyl phthalate (S.G.)		Pt-10	5g	85-68-7
Butyl benzyl phthalate (TECH)		Pz-53	10g	85-68-7
Butyl benzyl phthalate (ring-d4) Solution (S.G.)	100ug/mL in n-Nonane	FD67S	1.2mL	
Butyl benzyl sebacate (TECH)		Pz-64	10g	R
tert-Butyl bromide		0-614	1g	507-19-7
tert-Butylbromoacetate		2604K	100mg	5292-43-3
2-tert-Butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H		PS-2125	1g	96489-71-3
Butyl butyrate (S.G.)		0-408	2g	109-21-7
Butyl caprate		2602H	1g	30673-36-0
Butyl caproate		2603H	1g	626-82-4
Butyl caprylate		2605H	1g	589-75-3
tert-Butylcarbamate		2607F	1g	4248-19-5
Butyl carbamate (S.G.)		0-2404	1g	592-35-8
tert-Butyl carbazate		2570	5g	870-46-2
4-tert-Butylcatechol (TECH)		0u-3	3g	98-29-3
		0u-3	10g	98-29-3
tert-Butyl chloride		0-628	5g	507-20-0
N-tert-butyl-N′-(4-Chlorobenzoyl)benzohydrazide		PS-2146	500mg	112226-61-6
n-Butyl chloroformate (S.G.)		0-448	1g	592-34-7
3-tert-Butyl-5-chloro-6-methyluracil		PS-375	1g	5902-51-2
4-tert-Butyl-2-chlorophenol		MET-607A	10mg	98-28-2
4-tert-Butyl-2-chlorophenylmethyl-N-methyl-phosphoramidate		PS-607	50mg	299-86-5

Category Name	Specification	Catalog#	Size	CAS#
a,n-Butyl-a-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitril		PS-2006	100mg	88671-89-0
N-Butylcitrate		0-511	10g	77-94-1
6-tert-Butyl-m-cresol & sulfur dichloride reaction product (TECH)		0u-32	3g	R
		0u-32	10g	R
4-tert-Butylcyclohexanol		2613K	1g	98-52-2
4-tert-Butylcyclohexanone		2588F	1g	98-53-3
n-Butyl cyclohexyl adipate (TECH)		Pz-300	10g	R
Butyl cyclohexyl phthalate (S.G.)		Pt-11	10g	84-64-0
Butyl cyclohexyl phthalate (TECH)		Pz-410	10g	84-64-0
Butyl-n-decyl phthalate (S.G.)		Pt-12	10g	89-19-0
Butyl-n-decyl phthalate (TECH)		Pz-415	10g	89-19-0
2-tert-Butyl-4-(2,4-dichloro-5-isopropoxyphenyl)- 2-1,3,4-oxad		PS-1050	250mg	19666-30-9
Butyl-2,4-dichlorophenoxyacetate		PS-42	250mg	94-80-4
1-n-Butyl-3-[3,4-dichlorophenyl]-1-methylurea		PS-377	250mg	555-37-3
tert-Butyldiethanolamine		2575C	10g	2160-93-2
Butyl-3,4-dihydro-2,2-dimethyl-4-oxo-1,2-H-pyran-[6-carboxylat		PS-907	1g	532-34-3
4-tert-Butyl-1,2-dihydroxy benzene		0-901	2g	98-29-3
tert-Butyl-5-(4,6-dimethylpyrimidine-2-yl)thiolcarbonate		2616K	100mg	41840-28-2
tert-Butyldimethylsilyl chloride		2604H	500mg	18162-48-6
2-sec-Butyl-4,6-dinitrophenol, ethanolamine salt		PS-433	1g	R
2-sec-Butyl-4,6-dinitrophenol triethanolamine salt		PS-436	1g	6420-47-9
	100ug/mL in H2O	PS-436AJS	1mL	
	100ug/mL in Toluene	PS-436JS	1mL	
2-sec-Butyl-4,6-dinitrophenyl 3-methylcrotonate		PS-2087	100mg	485-31-4
sec-Butyl disulfide		2619K	1g	5943-30-6
tert-Butyl disulfide (S.G.)		0-947	5g	110-06-5
t-Butyl (E)-alpha-(1,3-dimethyl-5-phenoxypyrazol-4-ylmethyleneaminooxy)-p-toluate		PS-2216	100mg	134098-61-6
2,3-Butylene glycol		2580	10g	513-85-9
Butyl epoxystearate (TECH)		0u-78	3g	106-83-2
		0u-78	10g	106-83-2
Butyl epoxystearate (TECH)		Pz-905	10g	106-83-2
Butyl ether (S.G.)		0-565	10g	142-96-1
N-Butyl-N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toluidine		PS-389	250mg	1861-40-1
N-tert-Butyl-N′-(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide		PS-2188	100mg	112410-23-8
n-Butyl ethyl ether		2589F	1g	628-81-9
tert-Butyl ethyl ether (S.G.)		F2462	1g	637-92-3
	100ug/mL in Methanol	F2462JS	1mL	
	100ug/mL in Methanol	F2462S	5mL	
Butyl-2-ethylhexyl phthalate (S.G.)		Pt-13	10g	85-69-8
Butyl-2-ethylhexyl phthalate (TECH)		Pz-420	10g	85-69-8
N2-tert-Butyl-N4-ethyl-6-methoxy-1,3,5-triazine-2,4-diamine		PS-2120	1g	33693-04-8
2-Butyl-2-ethyl-1,3-propanediol		PS-101	1g	115-84-4
	100ug/mL in Methanol	PS-101JS	1mL	
N-Butyl-N-ethyl-m-toluidine		2156H	1g	R
n-Butyl formate		2592A	10g	592-84-7
Butyl heptanoate		2610H	1g	R
tert-Butylhydrazine hydrochloride		2596F	1g	7400-27-3
tert-Butylhydroquinone (S.G.)		0-900	2g	1948-33-0
		0-900	10g	1948-33-0
Butyl-2-hydroxypropanoate		0-456	5g	138-22-7
2-(5-tert-Butyl-6-hydroxy-m-tolyl)-5-chlorobenzotriazole (TECH)		0u-86	3g	R
		0u-86	10g	R
4,4′-Butylidene bis(6-tert-butyl-m-cresol) (TECH)		0u-5	3g	85-60-9
		0u-5	10g	85-60-9
Butyl isodecyl phthalate (S.G.)		Pt-14	10g	R
Butyl isodecyl phthalate (TECH)		Pz-50	10g	R
5-tert-Butylisophthalic acid		2649C	10g	R
n-Butyl isothiocyanate		2600	5g	592-82-5
n-Butyl lactate (S.G.)		0-456	5g	138-22-7
Butyl lactate (TECH)		Pz-3	10g	138-22-7
Butyl laurate (TECH)		Pz-4	10g	106-18-3
n-Butyl mercaptan (S.G.)		0-2011	5g	109-79-5
sec-Butyl mercaptan (S.G.)		0-2012	5g	513-53-1
tert-Butyl mercaptan		0-2013	1g	75-66-1
Butylmesityl oxide oxalate		PS-907	1g	532-34-3
	100ug/mL in Acetonitrile	PS-907AJS	1mL	
	100ug/mL in Toluene	PS-907JS	1mL	
Butyl methacrylate (S.G.)		0-1005	1g	97-88-1
N-tert-Butylmethylamine		2628K	10mg	14610-37-8
tert-Butyl methyl ether (S.G.)		F909	1g	1634-04-4
	2000ug/mL in Methanol	F909JS	1mL	
	2000ug/mL in Methanol	F909S	5mL	
2-tert-Butyl-4-methylphenol (R.G.)		4024L	1g	2409-55-4

Category Name	Specification	Catalog#	Size	CAS#
4-tert-Butyl-2-methylphenol		2610F	2g	**98-27-1**
6-tert-Butyl-2-methylphenol (R.G.)		2613F	2g	**2219-82-1**
Butyl myristate (TECH)		Pz-210	10g	**110-36-1**
Butyl nitrite (S.G.)		O-832	500mg	**544-16-1**
		O-832	5g	**544-16-1**
n-Butyl octadecanoate		O-410	5g	**123-95-5**
n-Butyl octadecenoate		O-409	500mg	**142-77-8**
Butyl octyl phthalate (S.G.)		Pt-15	10g	**84-78-6**
n-Butyl-n-octyl phthalate (TECH)		Pz-425	10g	**84-78-6**
Butyl oleate (S.G.)		O-409	500mg	**142-77-8**
		O-409	2g	**142-77-8**
Butyl oleate (TECH)		Pz-8	10g	**142-77-8**
tert-Butyloxycarbazate		2611F	1g	**R**
Butyl palmitate		2625H	1g	**111-06-8**
Butyl paraben (S.G.)		O-2426	5g	**94-26-8**
2-tert-Butylphenol (R.G.)		2606F	10g	**88-18-6**
4-tert-Butylphenol (S.G.)		O-869	5g	**98-54-4**
		O-869	10g	**98-54-4**
4-tert-Butylphenol (TECH)		Ou-4	3g	**98-54-4**
		Ou-4	10g	**98-54-4**
2-(4-tert-Butylphenoxy)cyclohexanol		MET-858A	100mg	**1942-71-8**
2-[p-tert-Butylphenoxy]cylcohexyl-2-propynyl sulfite		PS-858	100mg	**2312-35-8**
2[p-tert-Butylphenoxy]iso-propyl-2-chloroethyl sulfite (0,1mg/	100ug/mL in Hexane	PS-850	5mL	**140-57-8**
a-(p-tert-Butylphenoxy)propionic acid		2609F	1g	**R**
n-Butyl phenylacetate		2614F	1g	**122-43-0**
Butyl phenyl ether		2616F	1g	**1126-79-0**
2-sec-Butylphenyl-N-methylcarbamate		PS-1046	250mg	**3766-81-2**
(+/-)cis-4-[3-(4-tert-Butylphenyl)-2-methylpropyl]-2,6-dimethy		PS-1214	5mL	**67564-91-4**
p-tert-Butylphenyl salicylate (TECH)		Ou-87	3g	**87-18-3**
		Ou-87	10g	**87-18-3**
Butyl phthalyl butylglycolate (TECH)		Pz-79	10g	**85-70-1**
Butyl propionate (S.G.)		O-2408	1g	**590-01-2**
4-tert-Butylpyridine		2620	10g	**3978-81-2**
4-tert-Butylpyrocatechol (S.G.)		O-901	2g	**98-29-3**
		O-901	10g	**98-29-3**
Butyl ricinoleate (TECH)		Pz-245	10g	**151-13-3**
Butyl stearate (S.G.)		O-410	5g	**123-95-5**
		O-410	10g	**123-95-5**
Butyl stearate (TECH)		Pz-17	10g	**123-95-5**
tert-Butyl sulfide		2628E	5g	**107-47-1**
n-Butyl sulfone		2618F	1g	**598-04-9**
Butyl tallate (TECH)		Pz-19	10g	**R**
4-tert-Butylthiophenol (R.G.)		2634K	10mg	**2396-68-1**
4-tert-Butyl-3-thiosemicarbazide		2637K	100mg	**R**
N-Butylthiourea		1453L	100mg	**1516-32-1**
4-tert-Butyltoluene (S.G.)		O-2320	1g	**98-51-1**
3-Butyl-1,3,5-triazino[1,2a]benzamidazole-2,4-dione		MET-222B	500mg	**132827-25-9**
R,S-Butyl-2-[4-(5-trifluoromethyl-2-pyridyloxy)phenoxy]propino		PS-1097	100mg	**79241-46-6**
n-Butylurea		2640K	1g	**592-31-4**
tert-Butylurea (mono)		2640	10g	**1118-12-3**
Butyl valerate		2650H	1g	**591-68-4**
n-Butyl vinyl ether		2619F	10g	**111-34-2**
2-Butyne-1,4-diol		2645B	10g	**110-65-6**
Butyrac™		PS-306	250mg	**94-82-6**
n-Butyraldehyde (S.G.)		F2324	5g	**123-72-8**
	1000ug/mL in Acetonitrile	F2324JS	1mL	
	1000ug/mL in Acetonitrile	F2324S	5mL	
n-Butyraldehyde (S.G.)		O-225	5g	**123-72-8**
Butyraldehyde (DNPH Derivative) (S.G.)		F2342	100mg	**1527-98-6**
	100ug/mL in Acetonitrile	F2342AJS	1mL	
	100ug/mL in Acetonitrile	F2342AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2342JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2342S	5mL	
Butyraldehyde-aniline reaction product (TECH)		Ou-50	3g	**R**
		Ou-50	10g	**R**
n-Butyraldoxime		2643K	1g	**110-69-0**
n-Butyramide		2656B	5g	**541-35-5**
2-ketoButyric acid		2860L	1g	
a-ketoButyric acid		1960L	100mg	**600-18-0**
Butyric acid (S.G.)		O-5	10g	**107-92-6**
Butyric anhydride (S.G.)		O-124	1g	**106-31-0**
		O-124	5g	**106-31-0**

Category Name	Specification	Catalog#	Size	CAS#
g-Butyrolactam		O-321	10g	**616-45-5**
(+/-)-b-Butyrolactone		2652K	100mg	**36536-46-6**
4-Butyrolactone (S.G.)		O-827	10g	**96-48-0**
n-Butyrophenone (S.G.)		F2250	1g	**495-40-9**
	3000ug/mL in Methanol	F2250JS	1mL	
	3000ug/mL in Methanol	F2250S	5mL	
Butyrylcholine iodide		2908L	100mg	**2494-56-6**
Cacodylic acid		PS-51	500mg	**75-60-5**
Cadminate™		PS-280	1g	**141-00-4**
Cadmium metal-sticks		I-2090	10g	**7440-43-9**
Cadmium - 4% HNO3		X10M 8-1-100	100mL	
		X10M 8-1-250	250mL	
		X10M 8-1-500	500mL	
Cadmium - 10% HCl		X10M 8-2-100	100mL	
		X10M 8-2-250	250mL	
		X10M 8-2-500	500mL	
Cadmium - Cd metal, 99,999%, 2% HNO3		X10008-1-A	100mL	
		X10008-1-B	250mL	
		X10008-1-C	500mL	
Cadmium - Cd metal,99,999%,2% HCl		X10008-2-A	100mL	
		X10008-2-B	250mL	
		X10008-2-C	500mL	
Cadmium acetate-dihydrate		I-28	10g	**5743-04-4**
Cadmium borate		I-2030	1g	**51222-60-7**
Cadmium bromide		I-2040	10g	**13464-92-1**
Cadmium carbonate		I-2050	10g	**513-78-0**
Cadmium chloride		I-29	10g	**10108-64-2**
Cadmium Chloride (CdCl2) 99,998%		XCD-CL-S-A	5g	
		XCD-CL-S-B	25g	
Cadmium cyanide		I-2060	5g	**542-83-6**
Cadmium iodide		I-2080	10g	**7790-80-9**
Cadmium Metallo - Organic Standard 1000ug/g in Mineral Oil		XCDOMS	100g	
Cadmium nitrate		I-30	10g	**10022-68-1**
Cadmium Nitrate (Cd(NO3)2) 99,999%		XCD-NO-S-A	5g	
		XCD-NO-S-B	25g	
Cadmium octoate-liquid		I-2110	1g	**2191-10-8**
Cadmium oxide		I-2120	10g	**1306-19-0**
Cadmium Oxide (CdO) 99,998%		XCD-O-A	5g	
		XCD-O-B	25g	
Cadmium potassium cyanide		I-2130	1g	**14402-75-6**
Cadmium Shot Cd 99,999%		XCD-MS-A	5g	
		XCD-MS-B	25g	
Cadmium-m-silicate		I-2100	1g	**13477-19-5**
Cadmium silicofluoride		I-2140	1g	**17010-21-8**
Cadmium stearate (TECH)		Ou-62	3g	**2223-93-0**
		Ou-62	10g	**2223-93-0**
Cadmium stearate (TECH)		S-91	5g	**2223-93-0**
Cadmium succinate		PS-280	1g	**141-00-4**
	100ug/mL in H2O	PS-280AJS	1mL	
	100ug/mL in Toluene	PS-280JS	1mL	
Cadmium sulfate-crystal		I-2150	10g	**7790-84-3**
Cadmium sulfide		I-2160	1g	**1306-23-6**
Cadre™		PS-2197	250mg	**104098-48-8**
Cadusafos		PS-2199	100mg	**95465-99-9**
	100ug/mL in Acetonitrile	PS-2199AJS	1mL	
	100ug/mL in Toluene	PS-2199JS	1mL	
Caffeine (S.G.)		F2428	5g	**58-08-2**
	5000ug/mL in Acetonitrile	F2428JS	1mL	
	5000ug/mL in Acetonitrile	F2428S	5mL	
Caid™		PS-2085	250mg	**3691-35-8**
Calcium - 4% HNO3		X10M 9-1-100	100mL	
		X10M 9-1-250	250mL	
		X10M 9-1-500	500mL	
Calcium - 5% HCl		X10M 9-2-100	100mL	
		X10M 9-2-250	250mL	
		X10M 9-2-500	500mL	
Calcium - CaCO3, 99,99%, 2% HNO3		X10009-1-A	100mL	
		X10009-1-B	250mL	
		X10009-1-C	500mL	
Calcium - CaCO3, 99,99+%, 2% HCl		X10009-2-A	100mL	
		X10009-2-B	250mL	
		X10009-2-C	500mL	
Calcium	100ug/mL in Water	XIC-CA-A	100mL	
	100ug/mL in Water	XIC-CA-B	250mL	
	100ug/mL in Water	XIC-CA-C	500mL	
	1000ug/mL in Water	XIC-CA-M-A	100mL	
	1000ug/mL in Water	XIC-CA-M-B	250mL	
	1000ug/mL in Water	XIC-CA-M-C	500mL	

Category Name	Specification	Catalog#	Size	CAS#
Calcium acetate monohydrate		I-31	10g	**62-54-4**
Calcium acetylacetonate		I-2165	5g	**19372-44-2**
Calcium arsenate		I-2170	10g	**7778-44-1**
Calcium-m-borate		I-2300	1g	**R**
Calcium bromide		I-2190	10g	**7789-41-5**
Calcium camphorsulfonate		I-2195	5g	**R**
Calcium carbide		I-2196	1g	**75-20-7**
Calcium carbonate		I-32	10g	**471-34-1**
Calcium Carbonate (CaC03) 99,997%		XCA-CO-S-A	5g	
		XCA-CO-S-B	25g	
Calcium chloride anhydrous		I-33	10g	**10043-52-4**
Calcium citrate		I-2200	10g	**5785-44-4**
Calcium cyanamide		I-2205	10g	**156-62-7**
Calcium cyanide		I-2210	1g	**592-01-8**
Calcium dodecylbenzene sulfonate (TECH)		S-423	10g	**26264-06-2**
Calcium fluoride		I-2220	10g	**7789-75-5**
Calcium gluconate		2676F	1g	**299-28-5**
Calcium glycerophosphate		2677F	1g	**27214-00-2**
Calcium hexafluorosilicate dihydrate		I-2240	1g	**16961-80-1**
Calcium hexafluorostannate		I-2245	1g	**R**
Calcium hexafluorotitanate		I-2250	10g	**R**
Calcium hydroxide		I-34	10g	**1305-62-0**
Calcium hypochlorite		I-2265	1g	**7778-54-3**
Calcium lactate		I-2280	10g	**R**
Calcium lignosulfonate		S-476	10g	**8061-52-7**
Calcium Metallo - Organic Standard	1000ug/g in Mineral Oil	XCAOMS	100g	
Calcium naphthenate (TECH)		S-96	10g	**R**
Calcium nitrite		I-2320	1g	**13780-06-8**
Calcium oleate (TECH)		S-93	10g	**142-17-6**
Calcium oxide		I-36	10g	**1305-78-8**
Calcium Oxide (CaO) 99,999%		XCA-O-A	5g	
		XCA-O-B	25g	
Calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate		PS-2226	100mg	**127277-53-6**
Calcium pantothenate		V-11	1g	**137-08-6**
Calcium petroleum sulfonate - (MW 900) (TECH)		S-432	10g	**R**
Calcium phosphate-monobasic		I-2350	10g	**10031-30-8**
Calcium phosphate-dibasic		I-2360	10g	**7789-77-7**
Calcium phosphate-tribasic		I-37	10g	**7758-87-4**
Calcium polymerized alkyl-benzene sulfonate (TECH)		S-456	10g	**R**
Calcium ricinoleate (TECH)		S-95	10g	**R**
Calcium salicylate		I-2385	10g	**824-35-1**
Calcium-m-silicate		I-2310	10g	**10101-39-0**
Calcium silicofluoride		I-2240	1g	**16961-80-1**
Calcium stannate		I-2400	10g	**12013-46-6**
Calcium stearate (TECH)		Ou-63	3g	**1592-23-0**
		Ou-63	5g	**1592-23-0**
Calcium stearate (TECH)		S-92	5g	**1592-23-0**
Calcium stearoyl-2-lactylate (TECH)		S-299	10g	**5793-94-2**
Calcium sulfamate		I-2405	1g	**13770-92-8**
Calcium sulfate dihydrate		I-38	10g	**10101-41-4**
Calcium sulfide		I-2420	5g	**20548-54-3**
Calcium sulfite		I-2430	5g	**15091-91-5**
Calcium tartrate		I-2440	10g	**5892-21-7**
Calcium thioglycolate		I-2460	1g	**37457-75-3**
Calcium-m-xylene sulfonate		I-2475	5g	**R**
Calibration Standard 1 - EPA Method 200,7		XICP-200-7-1-A	100mL	
		XICP-200-7-1-B	250mL	
Calibration Standard 2 - EPA Method 200,7		XICP-200-7-2-A	100mL	
		XICP-200-7-2-B	250mL	
Calibration Standard 3 - EPA Method 200,7		XICP-200-7-3-A	100mL	
		XICP-200-7-3-B	250mL	
Calibration Standard 4 - EPA Method 200,7		XICP-200-7-4-A	100mL	
		XICP-200-7-4-B	250mL	
tert-C 11-14 Amine (TECH)		S-488	10g	**68955-53-3**
Camphechlor		PS-79	250mg	**8001-35-2**
Camphene (S.G.)		F2475	2g	**79-92-5**
	1000ug/mL in Methanol	F2475JS	1mL	
	1000ug/mL in Methanol	F2475S	5mL	
Camphene (S.G.)		O-747	2g	**79-92-5**
		O-747	10g	**79-92-5**
Camphor (TECH)		Pz-162	10g	**76-22-2**

Category Name	Specification	Catalog#	Size	CAS#
d-Camphor (S.G.)		F2404	2g	**464-49-3**
	1000ug/mL in Methanol	F2404JS	1mL	
	1000ug/mL in Methanol	F2404S	5mL	
d-Camphor (S.G.)		O-799	2g	**464-49-3**
		O-799	10g	**464-49-3**
L-(-)-Camphor		1282L	100mg	**464-48-2**
dl-Camphor		2680K	1g	**21368-68-3**
d-Camphoric acid (S.G.)		O-63	1g	**124-83-4**
		O-63	10g	**124-83-4**
Camphoric anhydride unspecified stereo isomer		2709	5g	**76-32-4**
d-Camphor oxime		2683K	10mg	**13559-66-5**
dl-10-Camphorsulfonic acid		2730	10g	**5872-08-2**
dl-10-Camphorsulfonic acid sodium salt		2740	10g	**34850-66-3**
Candelilla wax		2750A	10g	**R**
Candit™		PS-2182	250mg	**143390-89-0**
Cantrol		PS-307	100mg	**94-81-5**
Canvil™		PS-2157	100mg	**79983-71-4**
Caparol™		PS-384	1g	**7287-19-6**
Capric acid		O-11	2g	**334-48-5**
Capric acid (TECH)		S-3	10g	**334-48-5**
N-Caproamide		2685F	1g	**628-02-4**
Caproic acid		O-7	2g	**142-62-1**
Caprolactam (S.G.)		O-828	5g	**105-60-2**
Caprolactam (S.G.)		O-828	10g	**105-60-2**
Caprylic acid		O-22	2g	**124-07-2**
Caprylic acid (TECH)		S-1	10g	**124-07-2**
Capryl polyphosphate sodium salt (TECH)		S-481	10g	**R**
Capsaicin, Natural (S.G.)		F2910	100mg	**R**
Capsaicin, Natural		PS-2254	100mg	**R**
	100ug/mL in Acetonitrile	PS-2254AJS	1mL	
	100ug/mL in Toluene	PS-2254JS	1mL	
Captafol (S.G.)		F2094	250mg	**2425-06-1**
	100ug/mL in Toluene	F2094JS	1mL	
	100ug/mL in Toluene	F2094S	5mL	
Captafol		PS-260	250mg	**2425-06-1**
	100ug/mL in Acetonitrile	PS-260AJS	1mL	
Captan (S.G.)		F2095	250mg	**133-06-2**
	100ug/mL in Toluene	F2095JS	1mL	
	100ug/mL in Toluene	F2095S	5mL	
Captan		PS-25	250mg	**133-06-2**
Caragard™		PS-2120	1g	**33693-04-8**
Carbamate™		PS-20	250mg	**14484-64-1**
Carbamothioic acid methyl monopotasium salt				
Car-Ban™		PS-282	1g	**56-35-9**
Carbanilide (S.G.)		O-388	1g	**102-07-8**
		O-388	5g	**102-07-8**
Carbanolate		PS-1085	100mg	**671-04-5**
Carbaryl (S.G.)		F2005	250mg	**63-25-2**
	1000ug/mL in Acetonitrile	F2005JS	1mL	
	1000ug/mL in Acetonitrile	F2005S	5mL	
Carbaryl		PS-84	250mg	**63-25-2**
Carbaryl (ring-13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC2005S	1.2mL	
Carbazole (S.G.)		F2001	2g	**86-74-8**
	2000ug/mL in Methylene chloride	F2001JS	1mL	
	2000ug/mL in Methylene chloride	F2001S	5mL	
Carbazole (S.G.)		O-694	2g	**86-74-8**
		O-694	5g	**86-74-8**
Carbazole (ring-d8) (S.G.)		FD2001-A	0.1g	**R**
9H-Carbazole		O-694	2g	**86-74-8**
Carbendazim (S.G.)		F2369	100mg	**10605-21-7**
	100ug/mL in Methanol	F2369JS	1mL	
	100ug/mL in Methanol	F2369S	5mL	
Carbendazim		PS-1077	100mg	**10605-21-7**
N-Carbenzoxy-DL-phenylalanine		6850	5g	**3588-57-6**
(Carbethoxyethylidene)triphenylphosphorane		1399L	100mg	**5717-37-3**
(Carbethoxymethylene) triphenylphosphorane		2753C	5g	**1099-45-2**
3-Carbethoxy-2-piperidone		2697F	1g	**3731-16-6**
Carbicron		PS-602	100mg	**141-66-2**
Carbobenzoxy-L-glutamic acid		1366L	1g	**1155-62-0**
N-Carbobenzoxyglycine-p-nitrophenyl ester		1852L	100mg	**1738-86-9**
N-Carbobenzoxyglycyl-L-proline		1651L	100mg	**1160-54-9**
N-Carbobenzoxy-DL-methionine		2089L	100mg	**R**
N-Carbobenzoxy-L-tryptophan-p-nitropheny ester		2731L	250mg	**16624-64-9**
Carbobenzyloxy-L-alanine		2689K	100mg	**1142-20-7**
N-Carbobenzyloxy-1-glutonicacid		2751A	10g	**R**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Carbobenzyloxyglycine		2692K	1g	**1138-80-3**
Carbofuran (S.G.)		F2006	250mg	**1563-66-2**
	100ug/mL in Methanol	F2006JS	1mL	
	100ug/mL in Methanol	F2006S	5mL	
Carbofuran		PS-754	250mg	**1563-66-2**
Carbofuran (ring 13C6) Solution (S.G.)	100ug/mL in Acetonitrile	FC2006S	1.2mL	
Carbofuran-3-keto		MET-754E	100mg	**R**
Carbofuranphenol-3-keto		MET-754F	50mg	**17781-16-7**
Carbohydrazide		2707F	1g	**497-18-7**
2-Carbomethoxy-1-methylvinyl dimethyl-phosphate		PS-87	250mg	**7786-34-7**
Carbon - Na2C2O4, 99,9+%, H2O		X100071-4-A	100mL	
		X100071-4-B	250mL	
		X100071-4-C	500mL	
Carbon disulfide (S.G.)		F705	1g	**75-15-0**
	100ug/mL in Hexane	F705AJS	1mL	
	100ug/mL in Hexane	F705AS	5mL	
	100ug/mL in Methanol	F705JS	1mL	
	100ug/mL in Methanol	F705S	5mL	
Carbon disulfide (S.G.)		O-948	1g	**75-15-0**
Carbon tetrabromide		2758E	10g	**558-13-4**
Carbon tetrachloride (S.G.)		F6	5g	**56-23-5**
	100ug/mL in Methanol	F6JS	1mL	
	100ug/mL in Methanol	F6S	5mL	
Carbon tetrachloride (S.G.)		O-620	10g	**56-23-5**
Carbon tetrachloride (13C) (S.G.)		FC6-1	1g	**R**
		FC6-A	0.1g	**R**
		FC6-B	0.5g	**R**
2,4-Carbonyldibenzoic acid		2752E	5g	**R**
N,N′-Carbonyldiimidazole		1267L	1g	**530-62-1**
Carbophenothion (S.G.)		F2096	1g	**786-19-6**
	100ug/mL in Methanol	F2096JS	1mL	
	100ug/mL in Methanol	F2096S	5mL	
Carbophenothion		PS-88	1g	**786-19-6**
Carbophenothion methyl 100ug/ml in Methanol		MET-88A	5mL	**953-17-3**
Carbophenothion methyl-O-analog		MET-88B	50mg	**R**
Carbophenothion methyl sulfoxide 10ng/ul in Ethylacetate		MET-88D	5mL	**R**
Carbosulfan		PS-1063	250mg	**55285-14-8**
	100ug/mL in Acetonitrile	PS-1063AJS	1mL	
	100ug/mL Toluene	PS-1063JS	1mL	
Carboxin (S.G.)		F2203	250mg	**5234-68-4**
	100ug/mL in t-Butylmethyl ether	F2203JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2203S	5mL	
Carboxin		PS-294	250mg	**5234-68-4**
	100ug/mL in Acetonitrile	PS-294AJS	1mL	
2-Carboxybenzaldehyde		2698K	1g	**119-67-5**
4-Carboxybenzaldehyde		2755B	1g	**619-66-9**
p-Carboxybenzenesulfonamide		2760	10g	**138-41-0**
1-Carboxy-3-butanone		O-55	2g	**123-76-2**
(4-Carboxybutyl)triphenyl-phosphonium bromide		2743F	5g	**17814-85-6**
2-Carboxyfuran		O-53	1g	**88-14-2**
o-(Carboxymethoxy)benzoic acid		2790B	5g	**R**
Carboxymethoxylamine hemihydrochloride		2701K	10mg	**2921-14-4**
N-Carboxymethyl-N,N-bis(methylenephosphonic acid)-amine		PS-2164	100mg	**2439-99-8**
N-(Carboxymethyl)-N′-2-hydroxyethyl-n,n-ethylenediglycine trisodium salt (TECH)		CDF-5	5g	**63938-38-5**
1-(Carboxymethyl)pyridiniumchloride		2800	5g	**6266-23-5**
(Carboxymethyl)trimethyl ammonium chloride hydrazide		2748E	5g	**123-46-6**
o-Carboxyphenyl phosphate		2801F	100mg	**6064-83-1**
s-o-Carboxyphenylthioglycolic acid		2817F	1g	**R**
Carbyne™		PS-540	100mg	**101-27-9**
Cardomec™		PS-2220	100mg	**70288-86-7**
3-Carene (delta)		3397	5g	**13466-78-9**
Carfentrazone-ethyl		PS-2170	100mg	**128639-02-1**
	100ug/mL in Acetonitrile	PS-2170AJS	1mL	
	100ug/mL in Toluene	PS-2170JS	1mL	
Carmine/C,I,#75470		BS-97	1g	**1260-17-9**
L-Carnosine		2750H	100mg	**305-84-0**
Cartap hydrochloride		PS-2069	250mg	**22042-59-7**
	100ug/mL in H2O	PS-2069AJS	1mL	
	100ug/mL in Toluene	PS-2069JS	1mL	
(-)-Carveol		2710K	1g	**99-48-9**
Carvil™		PS-1046	250mg	**3766-81-2**
Caryophyllic acid™		PS-940	250mg	**97-53-0**
Carzol SP™		PS-400	250mg	**23422-53-9**
Cascade™		PS-2213	50mg	**101463-69-8**

Category Name	Specification	Catalog#	Size	CAS#
Casein		2810	10g	**9000-71-9**
Casoron™		PS-392	250mg	**1194-65-6**
Castor oil (TECH)		Pz-107	10g	**8001-79-4**
Castor oil (TECH)		S-25	10g	**8001-79-4**
Castor oil maleate (TECH)		Pz-980	10g	**R**
Castrix D™		PS-2143	100mg	**56073-07-5**
Catechol (S.G.)		O-902	5g	**120-80-9**
		O-902	10g	**120-80-9**
Catechol (13C6) (S.G.)		O-C902-1	1g	**R**
Catechol (13C6) (S.G.)		O-C902-5	5g	**R**
Catechol-0,0-diacetic acid		2809E	5g	**R**
CD-68™		PS-75	250mg	**57-74-9**
CDAA		PS-351	250mg	**93-71-0**
CDEC™		PS-19	250mg	**95-06-7**
CDT™		PS-58	500mg	**122-34-9**
Cedar oil		2311L	1g	**8000-27-9**
Cela S-2225		PS-2008	100mg	**4824-78-6**
Cela W524		PS-2014	100mg	**26644-46-2**
Celest™		PS-2172	100mg	**131341-86-1**
Celest Special™		PS-2172	100mg	**131341-86-1**
Cellobiose		CARB-3	5g	**528-50-7**
Cellosolve acetate		O-443	10g	**111-15-9**
a-Cellulose		CARB-33	5g	**9004-34-6**
Cellulose acetate		2811B	10g	**9004-35-7**
Cellulose acetate butyrate		2812B	10g	**9004-36-8**
Cellulose cyanoethylated		3013L	100mg	**R**
Cellulose diethylaminoethyl ether		1276L	1g	**9013-34-7**
Cellulose triacetate		2814B	10g	**9012-09-3**
Cellulose tridecanoate		2812E	5g	**R**
(2-Chloroethyl)phosphonic acid		PS-325	250mg	**16672-87-0**
Cercobin		PS-223	1g	**23564-06-9**
Cercobin-M™		PS-230	250mg	**23564-05-8**
Ceresan™		PS-209	250mg	**107-27-7**
Cerium - 4% HNO3		X10M 10-1-100	100mL	
		X10M 10-1-250	250mL	
		X10M 10-1-500	500mL	
Cerium - 10% HCl		X10M 10-2-100	100mL	
		X10M 10-2-250	250mL	
		X10M 10-2-500	500mL	
Cerium - CeO2, 99,99+%, 2% HCl		X100010-2-A	100mL	
		X100010-2-B	250mL	
		X100010-2-C	500mL	
Cerium - CeO2,99,99%,2% HNO3		X100010-1-A	100mL	
		X100010-1-B	250mL	
		X100010-1-C	500mL	
Cerium acetylacetonate		I-2520	1g	**15653-01-7**
Cerium (IV) ammonium nitrate		I-39	10g	**16774-21-3**
Cerium (IV) ammonium sulfate		I-2490	10g	**10378-47-9**
Cerium (III) carbonate		I-2530	1g	**72520-94-6**
Cerium (III) chloride		I-7034	1g	
Cerium (III) chloride heptahydrate		I-7028	100mg	
Cerium (IV) hydroxide		I-2500	1g	**12014-56-1**
Cerium (III) nitrate		I-2540	10g	**10294-41-4**
Cerium (III) oxalate		I-2550	10g	**13266-83-6**
Cerium Oxide (CeO2) 99,999%		XCE-O-A	5g	
		XCE-O-B	25g	
Cerium oxide - anhydrous		RE-20	1g	**1306-38-3**
Cerium (IV) stannate		I-2510	1g	**53169-23-6**
Cerium (IV) sulfate - anhydrous		I-2570	10g	**13590-82-4**
Cerium sulfate hydrated		I-2590	10g	**10450-59-6**
Cerium titanium fluoride		I-2580	1g	**R**
Certified Reference Material - Sea Water		XCRM-SW-A	100mL	
		XCRM-SW-B	250mL	
		XCRM-SW-C	500mL	
Certified Waste Water - Demand Solution	TOC 1ug/mL	XTOC-A	5g	
	TOC 10ug/mL	XTOC-B	5mL	
	TOC 20ug/mL	XTOC-C	5mL	
	TOC 30ug/mL	XTOC-D	5mL	
	TOC 40ug/mL	XTOC-E	5mL	
Certified Wastewater - Cyanide		XCWW-CN-A-F	10mL	
Certified Wastewater - Tracemetals		XCWW-TM-A-H	10mL	
Certified Wastewater-Nutrients		XCWW-N-A-C	10mL	
Certrol™		PS-397	100mg	**1689-83-4**

Category Name	Specification	Catalog#	Size	CAS#
Cesium - 1% HCl		X10M 11-2-100	100mL	
		X10M 11-2-250	250mL	
		X10M 11-2-500	500mL	
Cesium - 1% HNO3		X10M 11-1-100	100mL	
		X10M 11-1-250	250mL	
		X10M 11-1-500	500mL	
Cesium - Cs2CO3, 99,99+%, 1% HNO3		X100011-1-A	100mL	
		X100011-1-B	250mL	
		X100011-1-C	500mL	
Cesium - Cs2CO3,99,99+%,1% HCl		X100011-2-A	100mL	
		X100011-2-B	250mL	
		X100011-2-C	500mL	
5% Cesium in 1% HNO3		XIB-CS-B5-B	250mL	
		XIB-CS-B5-C	500mL	
Cesium Carbonate (Cs2CO3) 99,99+%		XCS-C0-S-A	5g	
		XCS-C0-S-B	25g	
Cesium chloride		RE-30	100mg	**7647-17-8**
Cesium Chloride (CsCl) 99,999%		XCS-CL-S-A	5g	
		XCS-CL-S-B	25g	
CET™		PS-58	500mg	**122-34-9**
Cetyl alcohol (S.G.)		0-146	2g	**36653-82-4**
		0-146	5g	**36653-82-4**
Cetyl alcohol (TECH)		S-302	10g	**36653-82-4**
Cetyl betaine (TECH)		S-565	10g	**96-56-0**
Cetylbromide		2465K	1g	**112-82-3**
Cetyldimethylethyl ammonium bromide (TECH)		S-609	10g	**R**
Cetyl lactate (TECH)		S-294	10g	**35274-05-6**
Cetyl pyridinium chloride		2833L	1g	**6004-24-6**
Cetyltrimethyl ammonium bromide (TECH)		S-608	10g	**R**
Cetyl vinyl ether		2815B	10g	**R**
Chalcone		2814E	10g	**94-41-7**
Challenge™		PS-2124	250mg	**77182-82-2**
Checkmate™		PS-2013	100mg	**74051-80-2**
Chemagro B-1776		PS-562	250mg	**78-48-8**
Chemathion™		PS-86	500mg	**121-75-5**
Chem Bam™		PS-220	250mg	**142-59-6**
Chem-O-Bam™		PS-228	1g	**3566-10-7**
Chemical 109™		PS-106	250mg	**86-88-4**
Chem Neb™		PS-22	1g	**12427-38-2**
Chicago blue/C,I,#24410		BS-139	1g	**2610-05-1**
Chinmix™		PS-2203	250mg	**65731-84-2**
Chinomethionat™		PS-860	100mg	**2439-01-2**
Chipco 26019		PS-1052	100mg	**36734-19-7**
Chitin		CARB-34	5g	**1398-61-4**
Chloral hydrate	1000ug/mL in Acetone	F804AJS	1mL	
	1000ug/mL in Methanol	F804S	1mL	
a-Chloralose		PS-2112	250mg	**15879-93-3**
	100ug/mL in Acetonitrile	PS-2112AJS	1mL	
	100ug/mL in Toluene	PS-2112JS	1mL	
b-Chloralose		PS-2113	1g	**16376-36-6**
	100ug/mL in Acetonitrile	PS-2113AJS	1mL	
	100ug/mL in Toluene	PS-2113JS	1mL	
Chloramben (S.G.)		F2039	100mg	**133-90-4**
	100ug/mL in Acetone	F2039JS	1mL	
	100ug/mL in Acetone	F2039S	5mL	
Chloramben		PS-314	100mg	**133-90-4**
Chloramben ethyl ester		PS-326	100mg	**60541-86-8**
Chloramben methyl ester (S.G.)		F2226	100mg	**7286-84-2**
	100ug/mL in Isooctane:Acetone (90:10)	F2226JS	1mL	
	100ug/mL in Isooctane:Acetone (90:10)	F2226S	5mL	
Chloramben methyl ester		PS-1113	100mg	**7286-84-2**
Chloramizol™		PS-2043	100mg	**35554-44-0**
Chloranil		PS-11	250mg	**118-75-2**
	100ug/mL in Methanol	PS-11AJS	1mL	
	100ug/mL in Toluene	PS-11JS	1mL	
Chloranilic acid lanthanum salt		2875F	100mg	**32607-23-1**
Chloranilic acid sodium salt		2884F	1g	**36275-66-8**
Chloranocryl		PS-63	1g	**2164-09-2**
	100ug/mL in Acetonitrile	PS-63AJS	1mL	
	100ug/mL in Toluene	PS-63JS	1mL	
Chlorantraniliprole		PS-2355	100mg	**500008-45-7**
Chlorazol black E/C,I,#30235		BS-42	1g	**1937-37-7**
Chlorbenside		PS-853	100mg	**103-17-3**
	100ug/mL in Acetonitrile	PS-853AJS	1mL	
	100ug/mL in Toluene	PS-853JS	1mL	
Chlorbromuron		PS-368	250mg	**13360-45-7**
	100ug/mL in Acetonitrile	PS-368AJS	1mL	
	100ug/mL in Toluene	PS-368JS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Chlordane (S.G.)		F91	250mg	**57-74-9**
	1000ug/mL in Hexane	F91AJS	1mL	
	1000ug/mL in Hexane	F91AS	5mL	
	100ug/mL in Methanol	F91JS	1mL	
	100ug/mL in Methanol	F91S	5mL	
Chlordane		PS-75	250mg	**57-74-9**
Chlordane (random-13C1) Solution (S.G.)	100ug/mL in n-Nonane	FC91S	1.2mL	
Chlordane (random-13C1) Solution (S.G.)	100ug/mL in n-Nonane	FC91S	1.2mL	
alpha-Chlordane		PS-75-1	10mg	**5103-71-9**
beta-Chlordane		PS-75-2	10mg	**5103-74-2**
cis-Chlordane (S.G.)		F907	10mg	**5103-71-9**
	100ug/mL in Methanol	F907JS	1mL	
	100ug/mL in Methanol	F907S	5mL	
cis-Chlordane		PS-75-1	10mg	**5103-71-9**
gamma-Chlordane		PS-75-2	10mg	**5103-74-2**
trans-Chlordane (S.G.)		F908	10mg	**5103-74-2**
	100ug/mL in Methanol	F908JS	1mL	
	100ug/mL in Methanol	F908S	5mL	
trans-Chlordane		PS-75-2	10mg	**5103-74-2**
trans-Chlordane (13C10) Solution (S.G.)	100ug/mL in n-Nonane	FC908S	1.2mL	
Chlordecone (S.G.)		F2441	50mg	**143-50-0**
Chlordecone		PS-701	50mg	**143-50-0**
	100ug/mL in Acetonitrile	PS-701AJS	1mL	
Chlordene		MET-75D	250mg	**3734-48-3**
Chlordimeform		PS-840	250mg	**6164-98-3**
	100ug/mL in Acetonitrile	PS-840AJS	1mL	
	100ug/mL in Toluene	PS-840JS	1mL	
Chlorea™		PS-59	250mg	**150-68-5**
Chlorendic acid		2820	5g	**115-28-6**
Chlorendic anhydride		2825	5g	**115-27-5**
Chlorethoxyfos		PS-2217	250mg	**54593-83-8**
	100ug/mL in Acetonitrile	PS-2217AJS	1mL	
	100ug/mL in Toluene	PS-2217JS	1mL	
Chlorfenac		PS-308	250mg	**85-34-7**
Chlorfenapyr		PS-2171	100mg	**122453-73-0**
	100ug/mL in Acetonitrile	PS-2171AJS	1mL	
	100ug/mL in Toluene	PS-2171JS	1mL	
Chlorfenson™		PS-855	250mg	**80-33-1**
Chlorfenvinphos (S.G.)		F2097	250mg	**470-90-6**
	100ug/mL in Isooctane	F2097JS	1mL	
	100ug/mL in Isooctane	F2097S	5mL	
Chlorfenvinphos		PS-1087	250mg	**470-90-6**
Chlorfluazuron		PS-2248	25mg	**71422-67-8**
	100ug/mL in Acetonitrile	PS-2248AJS	1mL	
	100ug/mL in Toluene	PS-2248JS	1mL	
Chlorflurecol-methyl ester		PS-1022	100mg	**2536-31-4**
	100ug/mL in Methanol	PS-1022JS	1mL	
Chloridazon		PS-430	250mg	**1698-60-8**
Chloride for Ion Chromatography	100ug/mL in Water	XIC-CL-A	100mL	
	100ug/mL in Water	XIC-CL-B	250mL	
	100ug/mL in Water	XIC-CL-C	500mL	
	1000ug/mL in Water	XIC-CL-M-A	100mL	
	1000ug/mL in Water	XIC-CL-M-B	250mL	
	1000ug/mL in Water	XIC-CL-M-C	500mL	
Chlorimuron ethyl		PS-1081	100mg	**90982-32-4**
	100ug/mL in Acetonitrile	PS-1081AJS	1mL	
	100ug/mL in Toluene	PS-1081JS	1mL	
Chlorinated camphene		PS-79	250mg	**8001-35-2**
Chlorinated paraffin (45% chlorine) (TECH)		Pz-955	10g	**63449-39-8**
Chlormephos		PS-2209	250mg	**24934-91-6**
	100ug/mL in Acetonitrile	PS-2209AJS	1mL	
	100ug/mL in Toluene	PS-2209JS	1mL	
Chlormequat chloride		PS-363	250mg	**999-81-5**
	100ug/mL in H2O	PS-363AJS	1mL	
	100ug/mL in Toluene	PS-363JS	1mL	
Chloroacetal		2903F	5g	**621-62-5**
Chloroacetaldehyde (water added) (S.G.)		F803	1g	**107-20-0**
	100ug/mL in Methanol	F803JS	1mL	
	100ug/mL in Methanol	F803S	5mL	
Chloroacetaldehyde dimethylacetal		2902F	10g	**97-97-2**
2-Chloroacetamide (S.G.)		0-258	5g	**79-07-2**
		0-258	10g	**79-07-2**
3'-Chloroacetanilide		2905F	1g	**588-07-8**
p-Chloroacetanilide		2840	10g	**539-03-7**
Chloroacetic acid (S.G.)		F2082	1g	**79-11-8**
	100ug/mL in t-Butylmethyl ether	F2082JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2082S	5mL	
Chloroacetic acid (S.G.)		0-42	10g	**79-11-8**
Chloroacetic acid		PS-31	1g	**79-11-8**

Category Name	Specification	Catalog#	Size	CAS#
Chloroacetic acid sodium salt		2830	10g	**3926-62-3**
Chloroacetic anhydride		2845B	1g	**541-88-8**
Chloroacetone		O-814	5g	**78-95-5**
Chloroacetonitrile (S.G.)		F2432	5g	**107-14-2**
	100ug/mL in tert-Butyl methyl ether	F2432JS	1mL	
	100ug/mL in tert-Butyl methyl ether	F2432S	5mL	
2-Chloroacetophenone (S.G.)		O-2015	1g	**532-27-4**
		O-2015	5g	**532-27-4**
3′-Chloroacetophenone		2728K	100mg	**99-02-5**
N-Chloroacetyl-DL-a-amino-butyric acid		2731K	100mg	**R**
Chloroacetyl chloride		2855A	1g	**79-04-9**
N-Chloroacetyl-N-(2,6-diethylphenyl)-glycine ethyl ester		PS-1006	100mg	**38727-55-8**
N-Chloroacetyl glycine		2734K	100mg	**6319-96-6**
N-Chloroacetyl glycyl glycine		2737K	100mg	**15474-96-1**
N-Chloroacetyl-L-isoleucine		2740K	10mg	**688-12-0**
N-Chloroacetyl-L-phenylalanine		2746K	100mg	**R**
N-Chloroacetyl-L-tryptophan		2749K	10mg	**64709-57-5**
N-Chloroacetyl-L-tyrosine		2752K	10mg	**1145-56-8**
N-Chloroacetyl-L-valine		2755K	10mg	**2279-16-5**
2-Chloroacrylonitrile (S.G.)		F2553	500mg	**920-37-6**
	1000ug/mL in Methanol	F2553JS	1mL	
	1000ug/mL in Methanol	F2553S	5mL	
a-Chloroallyl chloride		PS-152	1g	**542-75-6**
2-Chloroallyl diethyldithiocarbamate		PS-19	250mg	**95-06-7**
1-cis-3-Chloroallyl-3,5,7-triaza-		PS-2234	100mg	**51229-78-8**
1-azonia-adamantane chloride	100ug/mL in Methanol	PS-2234JS	1mL	
6-Chloro-2-aminotoluene		3037F	10g	**87-60-5**
p-Chloroanilidophosphonic acid		1882L	100mg	**R**
2-Chloroaniline (S.G.)		F2500	1g	**95-51-2**
	1000ug/mL in Toluene	F2500JS	1mL	
2-Chloroaniline (S.G.)		O-361	1g	**95-51-2**
3-Chloroaniline (S.G.)		F2501	1g	**108-42-9**
	1000ug/mL in Toluene	F2501JS	1mL	
	1000ug/mL in Toluene	F2501S	5mL	
3-Chloroaniline (S.G.)		O-362	1g	**108-42-9**
4-Chloroaniline (S.G.)		F706	1g	**106-47-8**
	100ug/mL in Methanol	F706JS	1mL	
	100ug/mL in Methanol	F706S	5mL	
4-Chloroaniline (S.G.)		O-363	1g	**106-47-8**
m-Chloroanisole		2909F	1g	**2845-89-8**
o-Chloroanisole		2870C	10g	**766-51-8**
p-Chloroanisole		2870	10g	**623-12-1**
2-Chloroanthraquinone		1273L	1g	**131-09-9**
2-Chlorobenzaldehyde		2895C	10g	**89-98-5**
3-Chlorobenzaldehyde		2890	10g	**587-04-2**
4-Chlorobenzaldehyde		2911B	5g	**104-88-1**
2-Chlorobenzamide		2770K	100mg	**609-66-5**
3-Chlorobenzamide		2764K	10mg	**618-48-4**
4-Chlorobenzamide		2767K	100mg	**619-56-7**
Chlorobenzene (S.G.)		F7	5g	**108-90-7**
	100ug/mL in Methanol	F7JS	1mL	
	100ug/mL in Methanol	F7S	5mL	
Chlorobenzene (S.G.)		O-669	5g	**108-90-7**
Chlorobenzene-d5 (S.G.)		F1088	100mg	**3114-55-4**
	100ug/mL in Methanol	F1088JS	1mL	
	100ug/mL in Methanol	F1088S	5mL	
4-Chloro-m-benzenedithiol		2773K	10mg	**58593-78-5**
p-Chlorobenzenesulfonic acid (S.G.)		O-956	2g	**98-66-8**
		O-956	5g	**98-66-8**
4-Chlorobenzhydrol		2782K	1g	**119-56-2**
N-(p-Chlorobenzhydryl)-piperazine		1387L	100mg	**303-26-4**
Chlorobenzilate (S.G.)		F986	100mg	**510-15-6**
	100ug/mL in Hexane	F986JS	1mL	
	100ug/mL in Hexane	F986S	5mL	
Chlorobenzilate		PS-854	100mg	**510-15-6**
	100ug/mL in Acetonitrile	PS-854AJS	1mL	
4-Chlorobenzoate 2-benzoyl-2-(1,1-dimethylethyl)-hydrazide		PS-2146	500mg	**112226-61-6**
2-Chlorobenzoic acid (S.G.)		O-97	5g	**118-91-2**
		O-97	10g	**118-91-2**
3-Chlorobenzoic acid (S.G.)		F2257	1g	**535-80-8**
	2000ug/mL in Methanol	F2257JS	1mL	
	2000ug/mL in Methanol	F2257S	5mL	
4-Chlorobenzoic acid (S.G.)		O-98	500mg	**74-11-3**
		O-98	5g	**74-11-3**
2-Chlorobenzonitrile		MET-2015A	250mg	**873-32-5**

Category Name	Specification	Catalog#	Size	CAS#
4-Chlorobenzonitrile		2788K	100mg	**623-03-0**
2-Chlorobenzothiazole		2791K	100mg	**615-20-3**
2-Chlorobenzotrichloride		3043L	2g	**2136-89-2**
4-Chlorobenzotrichloride		2915F	5g	**5216-25-1**
3-Chlorobenzotrifluoride		3217L	100mg	**98-15-7**
p-Chlorobenzotrifluoride (R.G.)		2794K	1g	**98-56-6**
2-Chlorobenzoxazole		2910F	1g	**615-18-9**
2-Chlorobenzyl alcohol		2806K	1g	**17849-38-6**
3-Chlorobenzyl alcohol		2915	1g	**873-63-2**
2-Chlorobenzylamine		2809K	100mg	**89-97-4**
4-Chlorobenzylamine		2920	10g	**104-86-9**
2-Chlorobenzyl bromide		2815K	10mg	**611-17-6**
3-Chlorobenzyl bromide		2812K	1g	**766-80-3**
3-Chlorobenzyl chloride		2824K	100mg	**620-20-2**
p-Chlorobenzyl-p-chlorophenyl sulfide		PS-853	100mg	**103-17-3**
4-Chlorobenzyl mercaptan		2830K	1g	**6258-66-8**
7-Chlorobicyclo(3,2,0)hepta-2,6-dien-6-yl dimethyl phosphate		PS-2225	100mg	**23560-59-0**
2-Chlorobiphenyl (S.G.)		2800G	50mg	**2051-60-7**
	100ug/mL in Hexane	2800GS	2mL	
3-Chlorobiphenyl (S.G.)		2801G	10mg	**2051-61-8**
	100ug/mL in Hexane	2801GS	2mL	
4-Chlorobiphenyl (S.G.)		F2164	50mg	**2051-62-9**
	100ug/mL in Hexane	F2164JS	1mL	
	100ug/mL in Hexane	F2164S	5mL	
2-Chloro-4-biphenylol (S.G.)		2803G	5mg	**R**
3-Chloro-2-biphenylol (S.G.)		2804G	10mg	**R**
3-Chloro-4-biphenylol (S.G.)		2805G	10mg	**R**
4′-Chloro-4-biphenylol (S.G.)		2806G	10mg	**R**
2-Chloro-4,6-bis(ethylamino)-s-triazine		PS-58	500mg	**122-34-9**
2-Chloro-4,6-bis(isopropylamino)-s-triazine		PS-385	500mg	**139-40-2**
2-Chloro-1,3-butadiene (x% in Xylene) (S.G.)		F914	1g	**126-99-8**
	5000ug/mL in P&T Methanol	F914JS	1mL	
	5000ug/mL in P&T Methanol	F914S	5mL	
1-Chlorobutane (S.G.)		F2433	5g	**109-69-3**
	100ug/mL in Methanol	F2433JS	1mL	
	100ug/mL in Methanol	F2433S	5mL	
1-Chlorobutane (S.G.)		O-621	10g	**109-69-3**
2-Chlorobutane (S.G.)		O-622	2g	**78-86-4**
		O-622	5g	**78-86-4**
4-Chloro-1-butanol		2921F	1g	**928-51-8**
4-Chloro-2-butynyl-m-chlorocarbanilate		PS-540	100mg	**101-27-9**
4-Chlorobutyric acid		2930F	1g	**627-00-9**
4-Chlorobutyronitrile		2930	2g	**628-20-6**
g-Chloro-2-butyrothienone		2931F	1g	**43076-59-1**
5-Chloro-N-(2-chloro-4-nitrophenyl)salicylamide (100ug/ml in M		PS-1207	250mg	**50-65-7**
Chlorocholine chloride		PS-363	250mg	**999-81-5**
o-Chlorocinnamic acid		1375L	1g	**3752-25-8**
p-Chlorocinnamic acid		2843K	1g	**1615-02-7**
4-Chloro-o-cresoxyacetic acid		PS-40	250mg	**94-74-6**
Chlorocyclohexane (R.G.)		2950	10g	**542-18-7**
2-Chlorocyclohexanone		2845K	100mg	**822-87-7**
2-Chloro-4-(cyclopropylamino)-6-(isopropylamino)-s-triazine		PS-2104	50mg	**22936-86-3**
2-[[-4-Chloro-6-(cyclopropylamino)-1,3,5-triazin-2-yl]-amino]-		PS-402	1g	**32889-48-8**
1-Chlorodecane (R.G.)		2985B	5g	**28519-06-4**
a-Chloro-N,N-diallylacetamide		PS-351	250mg	**93-71-0**
2-Chloro-4,6-diamino-1,3,5-triazine		MET-58C	100mg	**3397-62-4**
1-Chlorodibenzo-p-dioxin (S.G.)		2860G	25mg	**39227-53-7**
	50ug/mL in Toluene	2860GS	1mL	
2-Chlorodibenzo-p-dioxin (S.G.)		2861G	25mg	**R**
	50ug/mL in Toluene	2861GS	1mL	
Chlorodibromoacetic acid (S.G.)		F2514	10mg	**5278-95-5**
Chlorodibromomethane (S.G.)		F51	1g	**124-48-1**
	100ug/mL in Methanol	F51JS	1mL	
	100ug/mL in Methanol	F51S	5mL	
2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphate		PS-1087	250mg	**470-90-6**
0-[2-Chloro-1-[2,5-dichlorophenyl]vinyl]0,0-diethyl phosphorot		PS-675	1g	**1757-18-2**
2-Chloro-N,N-diethylacetamide		2960	5g	**2315-36-8**
2-Chloro-2′,6′-diethylacetanilide		MET-357A	100mg	**R**
2-Chloro-4-diethylamino-6-ethylamino-1,3,5-triazine		PS-2107	100mg	**1912-26-1**
2-Chloro-2′,6′-diethyl-N-(butoxymethyl)acetanilide		PS-348	100mg	**23184-66-9**
2-Chlorodiethylcarbamoyl methylvinyl dimethyl phosphate		PS-606	250mg	**13171-21-6**
2-Chloro-2′,6′-diethyl-N-methoxymethylacetanilide		PS-357	250mg	**15972-60-8**

Category Name	Specification	Catalog#	Size	CAS#
Chlorodifluoroacetic acid		2970B	5g	**76-04-0**
S-6-Chloro-2,3-dihydro-2-oxo-oxazolo[4,5-b]pyridin-3-ylmethyl		PS-1202	5mL	**35575-96-3**
4-Chloro-2,5-dimethoxyaniline		2851K	100mg	**R**
6-Chloro-2,4-dimethoxypyrimidine		2854K	100mg	**6320-15-6**
a-Chloro-2,4-dimethylacetophenone		2857K	10mg	**R**
4-Chloro-3,5-dimethylphenol		2749L	1g	**88-04-0**
(RS)-2-Chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)acetamide		PS-2161	100mg	**87674-68-8**
2-Chloro-4,6-dinitroaniline (S.G.)		F2502	5g	**3531-19-9**
	1000ug/mL in Toluene	F2502JS	1mL	
	1000ug/mL in Toluene	F2502S	5mL	
1-Chloro-2,4-dinitrobenzene (S.G.)		F2169	1g	**97-00-7**
	1000ug/mL in Hexane	F2169JS	1mL	
	1000ug/mL in Hexane	F2169S	5mL	
1-Chloro-2,6-dinitrobenzene		2979F	1g	**R**
1-Chloro-3,4-dinitrobenzene		2866K	100mg	**610-40-2**
2-Chloro-3,5-dinitrobenzoic acid		1258L	1g	**2497-91-8**
4-Chloro-3,5-dinitrobenzoic acid		2875K	1g	**118-97-8**
4-Chloro-3,5-dinitrobenzonitrile		2878K	100mg	**1930-72-9**
4-Chloro-3,5-dinitrobenzotrifluoride		2981H	100mg	**393-75-9**
4-Chloro-2,6-dinitrophenol (R.G.)		2881K	10mg	**R**
2-Chloro-3,5-dinitropyridine		2884K	10mg	**2578-45-2**
3-Chlorodiphenylamine		2887K	100mg	**101-17-7**
Chlorodiphenylmethane (S.G.)		O-670	1g	**90-99-3**
1-Chlorododecane		2986A	5g	**112-52-7**
1-Chloro-2,3-epoxypropane		O-578	10g	**106-89-8**
Chloroethane	10,000ug/mL in Methanol	F16AJS	1mL	
	10,000ug/mL in Methanol	F16AS	5mL	
	100ug/mL in Methanol	F16JS	1mL	
	100ug/mL in Methanol	F16S	5mL	
2-Chloroethanesulfonic acid sodium salt monohydrate		2890K	100mg	**15484-44-3**
2-Chloroethanol (S.G.)		F2012	1g	**107-07-3**
	100ug/mL in Methanol	F2012JS	1mL	
	100ug/mL in Methanol	F2012S	5mL	
2-Chloroethanol (S.G.)		O-182	1g	**107-07-3**
2-Chloroethanol (1,1,2,2-d4) (S.G.)		FD2012-B	0.5g	**R**
2-Chloro-N-ethoxymethyl-6′-ethylacet-o-toluidide		PS-2040	100mg	**34256-82-1**
2-Chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzen		PS-1033	250mg	**42874-03-3**
1-(2-Chloroethoxy)-2-phenoxyethane		2998B	5g	**R**
1-[2-(2-Chloroethoxy)phenylsulfonyl]-3-(4-methoxy-6-methyl)-1,		PS-2042	100mg	**82097-50-5**
2-Chloroethyl acetate		3000	5g	**542-58-5**
2-Chloro-4-ethylamino-6-isopropylamino-s-triazine		PS-380	250mg	**1912-24-9**
2-[(4-Chloro-6-ethylamino-s-triazin-2-yl)amino]-2-methylpropio		PS-387	250mg	**21725-46-2**
(2-Chloroethyl)benzene		3010	10g	**622-24-2**
g-Chloro-p-ethyl-butyrophenone		2993F	5g	**R**
™™ Chloroethylene see F88 Vinyl chloride				
2-Chloroethyl isothiocyanate		3001F	1g	**R**
2-Chloro-N-[2-ethyl-6-methylphenyl]-N-[2-methoxy-1-methylethyl		PS-403	100mg	**51218-45-2**
Mix of [(aRS,1S)-2-Chloro-6′-ethyl-N-(2-methoxy-1-methylethyl) aceto-o-toluidide and (aRS,1R)-2-Chlor		PS-403-1	100mg	**87392-12-9**
2-Chloroethyl methyl ether		2899K	1g	**627-42-9**
(2-Chloroethyl)phosphonic acid		PS-325	250mg	**16672-87-0**
	1000ug/mL in H20	PS-325AJS	1mL	
N-(b-Chloroethyl)phthalimide		3003F	1g	**R**
N-(b-Chloroethyl)piperidine hydrochloride		3005F	1g	**2008-75-5**
N-(2-Chloroethyl)pyrrolidine hydrochloride		2820H	1g	**7250-67-1**
2-Chloroethyl-p-toluenesulfonate		3007F	1g	**80-41-1**
[2-Chloroethyl]trimethylammonium chloride		PS-363	250mg	**999-81-5**
2-Chloroethyl vinyl ether (S.G.)		F19	5g	**110-75-8**
	100ug/mL in Methanol	F19JS	1mL	
	100ug/mL in Methanol	F19S	5mL	
1-Chloro-2-fluorobenzene (S.G.)		F2168	1g	**348-51-6**
	2500ug/mL in Methanol	F2168JS	1mL	
	100ug/mL in Methanol	F2168S	5mL	
1-Chloro-3-fluorobenzene (S.G.)		O-2409	1g	**625-98-9**
1-Chloro-4-fluorobenzene (S.G.)		F2167	1g	**352-33-0**
	2500ug/mL in Methanol	F2167JS	1mL	
	2500ug/mL in Methanol	F2167S	5mL	
2-Chloro-6-fluorobenzyl chloride		2908K	1g	**55117-15-2**
N-(2-Chloro-6-fluorobenzyl)-N-ethyl-a,a,a-trifluoro-2,6-dinitr		PS-1211	5mL	**62924-70-3**
g-Chloro-p-fluorobutyrophenone		3011F	1g	**3874-54-2**
3-Chloro-4-fluoronitrobenzene		2911K	1g	**350-30-1**
2-Chloro-4-fluorotoluene		3015F	1g	**452-73-3**
Chloroform (S.G.)		F23	5g	**67-66-3**
	100ug/mL in Methanol	F23JS	1mL	
	100ug/mL in Methanol	F23S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Chloroform (S.G.)		O-623	10g	**67-66-3**
Chloroform (13C) (S.G.)		FC23-1	1g	**R**
		FC23-A	0.1g	**R**
		FC23-B	0.5g	**R**
Chloroform-d		3020E	1g	**865-49-6**
Chlorofos		PS-608	1g	**52-68-6**
1-Chloroheptane		3015	5g	**629-06-1**
1-Chlorohexane (S.G.)		F805	500mg	**544-10-5**
	100ug/mL in Methanol	F805JS	1mL	
	100ug/mL in Methanol	F805S	5mL	
1-Chlorohexane (S.G.)		O-624	500mg	**544-10-5**
		O-624	5g	**544-10-5**
2-Chlorohydroquinone		2920K	1g	**615-67-8**
5-Chloro-2-hydroxyaniline		2923K	1g	**95-85-2**
3-Chloro-4-hydroxybenzoic acid hemihydrate		2926K	100mg	**3964-58-7**
5-Chloro-2-hydroxybenzophenone		2929K	10mg	**R**
4′-Chloro-2-hydroxy-4-methoxybenzophenone		2932K	10mg	**R**
5-Chloroindole		3021B	100mg	**17422-32-1**
5-Chloroindole-2-carboxylic acid		2938K	100mg	**10517-21-2**
1-Chloro-4-iodobenzene		2935K	1g	**637-87-6**
Chloro IPC™		PS-52	250mg	**101-21-3**
5-Chloroisatin		3025B	100mg	**R**
5-Chloroisatoic anhydride		3028B	10g	**4743-17-3**
a-2-Chloroisodurene		3030H	1g	**1585-16-6**
2-Chloro-N-isopropylacetanilide		PS-355	250mg	**1918-16-7**
p-Chloromandelic acid		PS-310	1g	**492-86-4**
	100ug/mL in Acetonitrile	PS-310AJS	1mL	
	100ug/mL in MTBE	PS-310JS	1mL	
4-Chloromercuribenzoic acid		3035H	100mg	**59-85-8**
Chloromethane	100ug/mL in Methanol	F45JS	1mL	
	100ug/mL in Methanol	F45S	5mL	
2-Chloro-6-methoxybenzonitrile		2950K	100mg	**R**
2-Chloro-N-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbo		PS-1065	100mg	**64902-72-3**
2-Chloro-6-methoxy-(3 or 5)-nitropyridine		2953K	10mg	**R**
N-(3-Chloro-4-methoxyphenyl)-N′,N′-dimethylurea		PS-2178	250mg	**19937-59-8**
4-Chloro-5-(methylamino)-2-(a,a,a-trifluoro-m-tolyl)-3(2H)-pyr		PS-1044	100mg	**27314-13-2**
2-Chloro-4-methylaniline		2962K	100mg	**615-65-6**
2-Chloro-6-methylaniline		3036F	1g	**87-63-8**
3-Chloro-2-methylaniline		3037F	10g	**87-60-5**
3-Chloro-4-methylaniline		3038F	10g	**95-74-9**
4-Chloro-2-methylaniline		MET-840A	1g	**95-69-2**
4-Chloro-N-methylaniline		2959K	100mg	**932-96-7**
5-Chloro-2-methylaniline (S.G.)		F2153	2g	**95-79-4**
	100ug/mL in Methanol	F2153JS	1mL	
	100ug/mL in Methanol	F2153S	5mL	
5-Chloro-2-methylaniline (S.G.)		O-364	2g	**95-79-4**
4-Chloro-5-methylaniline-2-sulfonic acid		3039F	5g	**R**
2-Chloromethylbenzimidazole		3040F	1g	**4857-04-9**
p-Chloro-a-methylbenzylamine		2971K	10mg	**R**
1-Chloro-3-methylbutane (S.G.)		O-625	500mg	**107-84-6**
		O-625	5g	**107-84-6**
2-Chloro-2-methylbutane (S.G.)		O-626	1g	**594-36-5**
		O-626	10g	**594-36-5**
S-Chloromethyl-0,0-diethylphosphorothiolothionate		PS-2209	250mg	**24934-91-6**
1-(Chloromethyl)-3,4-dimethylbenzene		4043F	5g	**102-46-5**
3-(Chloromethyl)heptane (S.G.)		O-627	500mg	**123-04-6**
		O-627	2g	**123-04-6**
4-Chloromethyl-6-methylcoumarin		3046F	500mg	**R**
Chloromethyl methyl ether (S.G.)		F806	500mg	**107-30-2**
3-Chloromethyl-1-methylpiperidine hydrochloride		2983K	100mg	**66496-82-0**
Chloromethylmethylsulfide		3009K	1g	**2373-51-5**
1-(Chloromethyl)naphthalene (S.G.)		O-2352	10g	**86-52-2**
3-Chloro-6-methyl-4-nitroaniline		2986K	100mg	**13852-51-2**
2-Chloromethyl-4-nitrophenol (R.G.)		1339L	1g	**2973-19-5**
5-Chloromethyl-2-oxazolidinone		2989K	100mg	**22625-57-6**
2-Chloro-5-methylphenol (R.G.)		3268L	1g	**615-74-7**
4-Chloro-2-methylphenol		MET-40A	1g	**1570-64-5**
4-Chloro-3-methylphenol (S.G.)		F22	5g	**59-50-7**
	100ug/mL in Methanol	F22JS	1mL	
	100ug/mL in Methanol	F22S	5mL	
4-Chloro-3-methylphenol (S.G.)		O-888	5g	**59-50-7**
		O-888	10g	**59-50-7**
4-Chloro-3-methylphenol (ring-2,6-d2) (S.G.)		FD22-A	0.1g	**R**
		FD22-E	0.01g	**R**

Category Name	Specification	Catalog#	Size	CAS#
(4-Chloro-2-methylphenoxy)acetic acid		PS-40	250mg	**94-74-6**
4-(4-Chloro-2-methylphenoxy)butyric acid, methyl ester		PS-1084	250mg	**57153-18-1**
2-(4-Chloro-2-methylphenoxy)propanoic acid		PS-324	100mg	**7085-19-0**
(+)-(R)-2-(4-Chloro-2-methylphenoxy)propionic acid		PS-2116	250mg	**16484-77-8**
2-(4-Chloro-2-methylphenoxy)propanoic acid methyl ester		PS-1106	100mg	**23844-56-6**
1-(3-Chloro-4-methylphenyl)-3-methylurea		MET-2078A	100mg	**22175-22-0**
N-(Chloromethyl)phthalimide		3047F	1g	**17564-64-6**
1-Chloro-2-methylpropane		3040	10g	**513-36-0**
2-Chloro-2-methylpropane (S.G.)		O-628	5g	**507-20-0**
1-Chloro-2-methylpropanol-2-ol		3042E	5g	**558-42-9**
3-Chloro-2-methylpropene (S.G.)		O-657	10g	**563-47-3**
3-(Chloromethyl)pyridine hydrochloride		F2098	1g	**6959-48-4**
2-(Chloromethyl)quinoline monohydrochloride		3006K	100mg	**3747-74-8**
2-Chloro(4-methylsulfonyl)aniline		3012K	10mg	**R**
Chloromethylthiocyanate		3015K	100mg	**3268-79-9**
4-Chloro-2-methylthiopyrimidine		3018K	100mg	**49844-90-8**
6-(Chloromethyl)uracil		3024K	1g	**18592-13-7**
1-Chloronaphthalene (S.G.)		F2021	5g	**90-13-1**
	100ug/mL in Methanol	F2021JS	1mL	
	100ug/mL in Methanol	F2021S	5mL	
1-Chloronaphthalene (S.G.)		O-671	5g	**90-13-1**
2-Chloronaphthalene (S.G.)		F20	100mg	**91-58-7**
	100ug/mL in Methanol	F20JS	1mL	
	100ug/mL in Methanol	F20S	5mL	
2-Chloronaphthalene (d7) (S.G.)		FD20-A	0.1g	**R**
2-Chloronaphthalene (d7) (S.G.)		FD20-E	0.01g	**R**
4-Chloro-1-naphthol		3027K	100mg	**604-44-4**
Chloroneb (S.G.)		F2201	250mg	**2675-77-6**
	100ug/mL in t-Butylmethyl ether	F2201JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2201S	5mL	
Chloroneb		PS-255	250mg	**2675-77-6**
	100ug/mL in Acetonitrile	PS-255AJS	1mL	
6-Chloronicotinamide		3030K	100mg	**6271-78-9**
2-Chloro-4-nitroaniline (S.G.)		F2503	1g	**121-87-9**
	1000ug/mL in Toluene	F2503JS	1mL	
	1000ug/mL in Toluene	F2503S	5mL	
2-Chloro-5-nitroaniline		3033K	1g	**6283-25-6**
4-Chloro-2-nitroaniline (S.G.)		F2504	5g	**89-63-4**
	1000ug/mL in Toluene	F2504JS	1mL	
	1000ug/mL in Toluene	F2504S	5mL	
4-Chloro-2-nitroaniline (S.G.)		O-375	5g	**89-63-4**
		O-375	10g	**89-63-4**
4-Chloro-3-nitroaniline		3039K	1g	**635-22-3**
4-Chloro-2-nitroanisole		3202L	250mg	**89-21-4**
4-Chloro-3-nitroanisole		3044F	1g	**10298-80-3**
5-Chloro-2-nitroanisole		3042K	100mg	**6627-53-8**
2-Chloro-5-nitrobenzaldehyde		1288L	100mg	**6361-21-3**
4-Chloro-3-nitrobenzaldehyde		3048K	10mg	**16588-34-4**
5-Chloro-2-nitrobenzaldehyde		3045K	100mg	**6628-86-0**
1-Chloro-3-nitrobenzene (S.G.)		F2495	500mg	**121-73-3**
	1000ug/mL in Isooctane	F2495JS	1mL	
	1000ug/mL in Isooctane	F2495S	5mL	
1-Chloro-2-nitrobenzene (S.G.)		O-861	5g	**88-73-3**
		O-861	10g	**88-73-3**
1-Chloro-3-nitrobenzene (S.G.)		O-862	500mg	**121-73-3**
		O-862	10g	**121-73-3**
1-Chloro-4-nitrobenzene (S.G.)		O-863	5g	**100-00-5**
		O-863	10g	**100-00-5**
4-Chloro-7-nitrobenzofurazan		2920L	100mg	**10199-89-0**
2-Chloro-3-nitrobenzoic acid		1255L	100mg	**3970-35-2**
2-Chloro-4-nitrobenzoic acid		3043B	10g	**99-60-5**
2-Chloro-5-nitrobenzoic acid		3045B	10g	**2516-96-3**
4-Chloro-2-nitrobenzoic acid		3051K	100mg	**6280-88-2**
4-Chloro-3-nitrobenzoic acid		3044B	5g	**96-99-1**
5-Chloro-2-nitrobenzoic acid		3054K	1g	**2516-95-2**
2-Chloro-5-nitrobenzonitrile		3060K	100mg	**16588-02-6**
5-Chloro-2-nitrobenzonitrile		3057K	10mg	**34662-31-2**
6-Chloro-2-nitrobenzonitrile		3063K	100mg	**6575-07-1**
2-Chloro-5-nitrobenzophenone		3066K	100mg	**34052-37-4**
2-Chloro-5-nitrobenzotrifluoride		3069K	1g	**777-37-7**
4-Chloro-3-nitrobenzotrifluoride (S.G.)		F2320	5g	**121-17-5**
	1000ug/mL in Isooctane	F2320JS	1mL	
	1000ug/mL in Isooctane	F2320S	5mL	
4-Chloro-2-nitrobenzyl alcohol		1291L	100mg	**22996-18-5**

Category Name	Specification	Catalog#	Size	CAS#
4-Chloro-3-nitrobenzyl alcohol		3081K	100mg	**55912-20-4**
5-Chloro-2-nitrobenzyl alcohol		3078K	100mg	**73033-58-6**
1-Chloro-1-nitroethane		3084K	100mg	**598-92-5**
4-Chloro-6-nitro-m-cresol		1315L	1g	**7147-89-9**
2-Chloro-4-nitrophenol		MET-669A	1g	**619-08-9**
4-Chloro-2-nitrophenol (S.G.)		0-899	5g	**89-64-5**
		0-899	10g	**89-64-5**
0-(2-Chloro-4-nitrophenyl)-0,0-dimethyl phosphorothioate		PS-669	1g	**2463-84-5**
1-Chloro-1-nitropropane (S.G.)		0-864	500mg	**600-25-9**
2-Chloro-3-nitropyridine		3051F	1g	**5470-18-8**
2-Chloro-5-nitropyridine		3087K	1g	**4548-45-2**
2-Chloro-4-nitrotoluene		3056F	10g	**121-86-8**
2-Chloro-6-nitrotoluene		3057C	10g	**83-42-1**
4-Chloro-3-nitrotoluene		3057F	10g	**89-60-1**
a-Chloro-m-nitrotoluene		3053F	1g	**619-23-8**
1-Chlorononane		3060	10g	**2473-01-0**
1-Chlorooctadecane (S.G.)		F2518	1g	**3386-33-2**
	1000ug/mL in Hexane	F2518AJS	1mL	
	1000ug/mL in Hexane	F2518AS	5mL	
	2000ug/mL in Methylene chloride	F2518JS	1mL	
	2000ug/mL in Methylene chloride	F2518S	5mL	
1-Chlorooctadecane (S.G.)		O-629	1g	**3386-33-2**
		O-629	10g	**3386-33-2**
1-Chlorooctane (S.G.)		F2517	5g	**111-85-3**
	2000ug/mL in Methanol	F2517JS	1mL	
	2000ug/mL in Methanol	F2517S	5mL	
2-Chlorooctane (R.G.)		3072E	5g	**628-61-5**
Chloroparacide™		PS-853	100mg	**103-17-3**
Chloroparaffin 50% Cl (TECH)		Pz-128	10g	**63449-39-8**
Chloropentafluorobenzene		3058F	1g	**344-07-0**
3-Chloropentane (R.G.)		3085B	10g	**616-20-6**
1-Chloropentane (S.G.)		O-630	1g	**543-59-9**
		O-630	10g	**543-59-9**
1-Chloro-3-pentanone		3082A	1g	**32830-97-0**
Chlorophacinone		PS-2085	250mg	**3691-35-8**
	100ug/mL in Acetonitrile	PS-2085AJS	1mL	
Chlorophedine™		PS-840	250mg	**6164-98-3**
Chlorophen™		PS-7	1g	**87-86-5**
5-Chloro-1,10-phenanthroline		1297L	100mg	**4199-89-7**
b-Chlorophenetole		3090C	10g	**R**
p-Chlorophenetole (S.G.)		O-598	500mg	**622-61-7**
		O-598	2g	**622-61-7**
2-Chlorophenol (S.G.)		F24	5g	**95-57-8**
	100ug/mL in Methanol	F24JS	1mL	
	100ug/mL in Methanol	F24S	5mL	
2-Chlorophenol (S.G.)		O-889	5g	**95-57-8**
		O-889	10g	**95-57-8**
2-Chlorophenol (ring-d4) (S.G.)		F944	10mg	**93951-73-6**
	100ug/mL in Methanol	F944JS	1mL	
	100ug/mL in Methanol	F944S	5mL	
3-Chlorophenol (S.G.)		O-2344	5g	**108-43-0**
4-Chlorophenol (S.G.)		F2190	5g	**106-48-9**
	100ug/mL in Methanol	F2190JS	1mL	
	100ug/mL in Methanol	F2190S	5mL	
4-Chlorophenol (S.G.)		O-890	5g	**106-48-9**
		O-890	10g	**106-48-9**
Chlorophenothan		PS-74	250mg	**8017-34-3**
2-Chlorophenothiazine		3059F	1g	**92-39-7**
p-Chlorophenoxyacetic acid (S.G.)		O-99	250mg	**122-88-3**
o-Chlorophenoxy acetic acid		PS-38	1g	**614-61-9**
	100ug/mL in Methanol	PS-38AJS	1mL	
	100ug/mL in MTBE	PS-38JS	1mL	
p-Chlorophenoxy acetic acid		PS-39	250mg	**122-88-3**
	100ug/mL in Methanol	PS-39AJS	1mL	
	100ug/mL in MTBE	PS-39JS	1mL	**122-88-3**
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-b		PS-1013	500mg	**43121-43-3**
1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)buta		PS-1064	250mg	**55219-65-3**
2-(p-Chlorophenoxy)-2-methylpropionic acid		3090K	1g	**882-09-7**
3-[p-(p-Chlorophenoxy)phenyl]1,1-dimethylurea		PS-376	250mg	**1982-47-4**
2-[3-Chlorophenoxy]propionamide		PS-359	1g	**R**
	100ug/mL in Methanol	PS-359JS	1mL	
2-(3-Chlorophenoxy)propionic acid		PS-317	1g	**101-10-0**
	100ug/mL in Acetonitrile	PS-317AJS	1mL	
	100ug/mL in MTBE	PS-317JS	1mL	
2-Chlorophenylacetic acid		3061F	1g	**2444-36-2**
3-Chlorophenylacetic acid		3108K	100mg	**1878-65-5**

Category Name	Specification	Catalog#	Size	CAS#
4-Chlorophenylacetic acid		3093K	1g	1878-66-6
a-Chlorophenylacetic acid		3096K	10mg	R
(p-Chlorophenyl)acetonitrile (S.G.)		0-847	2g	140-53-4
		0-847	10g	140-53-4
p-Chlorophenyl-p-chlorobenzene sulfonate		PS-855	250mg	80-33-1
a-(2-Chlorophenyl)-a-(4-chlorophenyl)-5-(pyrimidinemethanol)		PS-1073	100mg	60168-88-9
trans-5-(4-Chlorophenyl-N-cyclohexyl-4-methyl-2-oxo-3-thiazoli		PS-1079	100mg	78587-05-0
(2RS,3RS;2RS,3SR)-2-(4-Chlorophenyl)-3-cyclopropyl-1-(1H-1,2,4-triazol-1-yl)butan-2-ol		PS-2130	50mg	94361-06-5
1-(4-Chlorophenyl)-3-(2,6-difluorobenzoyl)urea		PS-1028	250mg	35367-38-5
(E,Z)-4-[3-(4-Chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloyl]-m		PS-2138	100mg	110488-70-5
(E)-(RS)-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1		PS-2076	10mg	83657-17-4
(2RS,3RS)-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-		PS-2097	500mg	76738-62-0
3-p-Chlorophenyl-1,1-dimethylurea		PS-59	250mg	150-68-5
3-[p-Chlorophenyl]-1,1-dimethylurea trichloroacetate		PS-371	1g	140-41-0
4-Chloro-o-phenylenediamine (S.G.)		F2099	5g	95-83-0
	100ug/mL in Methanol	F2099JS	1mL	
	100ug/mL in Methanol	F2099S	5mL	
4-Chloro-1,3-phenylenediamine (S.G.)		F2144	100mg	5131-60-2
	100ug/mL in Methanol	F2144JS	1mL	
	100ug/mL in Methanol	F2144S	5mL	
1-(p-Chlorophenyl)ethylamine		3062F	1g	R
a-[2-(4-Chlorophenyl)ethyl]-a-(1,1-dimethylethyl)-1H-1,2,4-tri		PS-1091	100mg	107534-96-3
alpha-(3-(4-Chlorophenyl)ethyl-alpha-phenyl-(1H-1,2,4-triazole		PS-2072	100mg	114369-43-6
2-Chlorophenylhydrazine hydrochloride		3111K	100mg	41052-75-9
3-Chlorophenylhydrazine hydrochloride		3114K	1g	2312-23-4
4-Chlorophenylhydrazine hydrochloride		3098B	1g	1073-70-7
1-(p-Chlorophenyl-3-hydroxy-3-phenyltriazene)		3099F	5g	R
4-(p-Chlorophenyl)-4-hydroxypiperidine		3099B	100mg	39512-49-7
m-Chlorophenyl isocyanate		3117K	1g	2909-38-8
o-Chlorophenyl isocyanate		3096B	5g	3320-83-0
4-Chloro-phenylisothiocyanate		3105K	100mg	2131-55-7
3-(4-Chlorophenyl)-1-methoxy-1-methylurea		PS-2210	250mg	1746-81-2
2-(p-Chlorophenyl)-3-methyl butyric acid		3123K	1g	2012-74-0
2-(p-Chlorophenyl)-3-methyl butyric acid		MET-1032A	100mg	2012-74-0
N-[(4-Chlorophenyl)methyl]-N-cyclopentyl-N′-phenylurea		PS-1095	100mg	66063-05-6
S-(4-Chlorophenyl)methyl diethylcarbamothioate		PS-1017	250mg	28249-77-6
2-(2-Chlorophenyl)methyl-4,4-dimethyl-3-isoxazolidinone		PS-2001	100mg	81777-89-1
p-Chlorophenyl methyl sulfone		3126K	1g	98-57-7
3-(4-Chlorophenyl)methyl urea (S.G.)		MET-60B	100mg	5352-88-5
2-Chloro-4-phenylphenol (R.G.)		3102F	5g	92-04-6
2-[2-(4-Chlorophenyl)-2-phenylacetyl]indan-1,3-dione		PS-2085	250mg	3691-35-8
4-Chlorophenyl phenyl ether (S.G.)		F40	1g	7005-72-3
	100ug/mL in Methanol	F40JS	1mL	
	100ug/mL in Methanol	F40S	5mL	
4-Chlorophenyl phenyl ether (phenyl-d5) (S.G.)		FD40-A	0.1g	R
4-(4-Chlorophenyl)-2-phenyl-2-[1H-1,2,4-triazol-1-yl)methyl]bu		PS-2072	100mg	114369-43-6
1-(m-Chlorophenyl)piperazine dihydrochloride		3103F	1g	R
1-(p-Chlorophenyl)piperazine dihydrochloride		3106F	1g	38869-46-4
1-(m-Chlorophenyl)piperazine hydrochloride		3096F	1g	65369-76-8
1-(o-Chlorophenyl)-piperazine hydrochloride hydrate		3097F	1g	41202-32-8
(RS)-[O-1-(4-Chlorophenyl)pyrazole-4-yl O-ethyl S-propyl phosp		PS-2046	50mg	77458-01-6
O-(6-Chloro-3-phenyl-4-pyridazinyl) S-octyl carbonothioate		PS-2081	500mg	55512-33-9
p-Chlorophenylsulfonyl acetonitrile		3096H	500mg	R
4-Chlorophenyl sulfoxide (S.G.)		F2252	1g	3085-42-5
	2500ug/mL in Methanol	F2252JS	1mL	
	2500ug/mL in Methanol	F2252S	5mL	
S[[(p-Chlorophenyl)thio]methyl]-O,O-diethylphosphorodithioate		PS-88	1g	786-19-6
1-(2-Chlorophenyl)-2-thiourea (S.G.)		F2429	100mg	5344-82-1
	5000ug/mL in Acetonitrile	F2429JS	1mL	
	5000ug/mL in Acetonitrile	F2429S	5mL	
p-Chlorophenyl-p-toluenesulfonate		3095F	2g	R
p-Chlorophenyl-2,4,5-trichlorophenyl sulfone		PS-80	250mg	116-29-0
p-Chlorophenylurea		MET-1028A	100mg	140-38-5
4-Chlorophthalic acid		1390L	1g	89-20-3
4-Chlorophthalic acid monosodium salt		3104F	10g	R
Chlorophthalic anhydride		3105B	10g	R
Chlor-O-Pic™		PS-4	1g	76-06-2
6-Chloro-2-picoline		3132K	100mg	18368-63-3
6-Chloro-2-picolinic acid methyl ester	100ug/mL in Hexane	MET-419B	5mL	R
Chloropicrin (S.G.)		F2023	1g	76-06-2
	100ug/mL in Acetone	F2023JS	1mL	
	100ug/mL in Acetone	F2023S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Chloropicrin		PS-4	1g	76-06-2
b-Chloroprene		F914	1g	126-99-8
1-Chloropropane (R.G.)		3100	1g	540-54-5
2-Chloropropane (S.G.)		O-2016	5g	75-29-6
3-Chloro-1,2-propanediol (S.G.)		O-211	1g	96-24-2
		O-211	10g	96-24-2
1-Chloro-2-propanol		3111F	1g	127-00-4
Chloro-2-propanone (S.G.)		O-814	5g	78-95-5
3-Chloro-1-propene		O-656	5g	107-05-1
E,E-(¦)-2[1-[[3-Chloro-2-propenyl)oxy]imino][propyl]5-[2-(ethy		PS-2045	100mg	99129-21-2
3-Chloropropionamide		3130B	5g	5875-24-1
2-Chloropropionic acid (S.G.)		O-43	2g	598-78-7
3-Chloropropionic acid (S.G.)		O-44	2g	107-94-8
		O-44	10g	107-94-8
3-Chloropropionitrile (S.G.)		F2013	250mg	542-76-7
	100ug/mL in Acetonitrile	F2013JS	1mL	
	100ug/mL in Acetonitrile	F2013S	5mL	
3-Chloropropylamine hydrochloride		1303L	1g	6276-54-6
Chloropropylate (S.G.)		F2289	250mg	5836-10-2
	1000ug/mL in Isooctane	F2289JS	1mL	
	1000ug/mL in Isooctane	F2289S	5mL	
Chloropropylate		PS-857	250mg	5836-10-2
6-Chloropurine		3147K	10mg	87-42-3
2-Chloropyridine		3153K	1g	109-09-1
3-Chloropyridine		3150K	100mg	626-60-8
4-Chloropyridine hydrochloride		3159K	100mg	7379-35-3
4-Chloropyridine-N-oxide		3162K	10mg	1121-76-2
2-Chloropyridine-N-oxide hydrochloride		3165K	100mg	20295-64-1
2-Chloro-3-pyridinol		3168K	100mg	6636-78-8
5-Chloro-2-pyridinol		3171K	100mg	4214-79-3
5-Chloro-3-pyridinol		3177K	100mg	74115-12-1
6-Chloro-2-pyridinol		3174K	1g	16879-02-0
(E)-N-[(6-Chloro-3-pyridinyl)methyl]-N′-cyano-N-methylethanimidamide		PS-2219	100mg	135410-20-7
1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine		PS-2086	500mg	138261-41-3
1-(2-Chloro-4-pyridyl)-3-phenylurea		PS-2150	100mg	68157-60-8
2-Chloropyrimidine		3119F	1g	1722-12-9
4-Chloroquinoline		1327L	100mg	611-35-8
4-Chlororesorcinol		3180K	1g	95-88-5
4-Chlorosalicylic acid		3183K	1g	5106-98-9
5-Chlorosalicylic acid		3160	10g	321-14-2
2-Chlorostyrene		3142J	100mg	2039-87-4
4-Chlorostyrene		3141F	1g	1073-67-2
Chlorosuccinic acid		3186K	100mg	16045-92-4
N-Chlorosuccinimide (S.G.)		O-797	2g	128-09-6
		O-797	10g	128-09-6
Chlorothalonil (S.G.)		F2220	250mg	1897-45-6
	100ug/mL in t-Butylmethyl ether	F2220JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2220S	5mL	
Chlorothalonil		PS-1020	250mg	1897-45-6
	100ug/mL in Acetonitrile	PS-1020AJS	1mL	
2-Chlorotoluene (S.G.)		F807	5g	95-49-8
	100ug/mL in Methanol	F807JS	1mL	
	100ug/mL in Methanol	F807S	5mL	
a-Chlorotoluene		O-665	10g	100-44-7
2-Chlorotoluene (S.G.)		O-672	10g	95-49-8
3-Chlorotoluene (S.G.)		O-673	1g	108-41-8
		O-673	5g	108-41-8
4-Chlorotoluene (S.G.)		F818	5g	106-43-4
	100ug/mL in Methanol	F818JS	1mL	
	100ug/mL in Methanol	F818S	5mL	
4-Chlorotoluene (S.G.)		O-674	10g	106-43-4
4-Chloro-o-toluidine		MET-840A	1g	95-69-2
Chlorotoluron		PS-2078	250mg	15545-48-9
	100ug/mL in Acetonitrile	PS-2078AJS	1mL	
	100ug/mL in Toluene	PS-2078JS	1mL	
N′-(4-Chloro-o-tolyl)-N,N-dimethyl formamidine		PS-840	250mg	6164-98-3
4-Chloro-o-tolyloxyacetic acid (S.G.)		F966	250mg	94-74-6
	100ug/mL in Acetone	F966JS	1mL	
	100ug/mL in Acetone	F966S	5mL	
4-Chloro-o-tolyloxyacetic acid		PS-40	250mg	94-74-6
	100ug/mL in Methanol	PS-40AJS	1mL	
4-Chloro-o-tolyloxyacetic acid methyl ester (S.G.)		F967	100mg	2436-73-9
	100ug/mL in Methanol	F967JS	1mL	
	100ug/mL in Methanol	F967S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
4-Chloro-o-tolyloxyacetic acid methyl ester		PS-1105	100mg	**2436-73-9**
2-Chloro-6-(trichloromethyl)pyridine		PS-419	100mg	**1929-82-4**
2-Chloro-1-[2,4,5-trichlorophenyl]vinyl-dimethylphosphate		PS-611	250mg	**22248-79-9**
2-Chlorotriethylamine hydrochloride		3175A	10g	**869-24-9**
4-Chloro-a,a,a-trifluoro-N-(1-imidazol-1-yl-2-propoxyethyliden		PS-2121	250mg	**68694-11-1**
2-Chloro-N-(((4-(trifluoromethoxy)phenyl)amino)carbonyl)benzamide		PS-2176	100mg	**64628-44-0**
N-((4-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-fluorophenyl)carbamoyl)-2,6-difluorobenzamide		PS-2213	50mg	**101463-69-8**
5-[2-Chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-n		PS-2102	500mg	**72178-02-0**
5-[2-Chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid		PS-1016	250mg	**50594-66-6**
5-[2-Chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoic acid me		PS-1111	100mg	**50594-67-7**
4-Chloro-3-trifluoromethylphenyl isothiocyanate		3195K	10mg	**R**
Chlorotriphenylmethane		3176E	5g	**76-83-5**
5-Chlorovaleric acid		3174C	1g	**1119-46-6**
5-Chlorovaleronitrile		3175B	1g	**6280-87-1**
Chloroxuron		PS-376	250mg	**1982-47-4**
	100ug/mL in Acetonitrile	PS-376AJS	1mL	
	100ug/mL in Toluene	PS-376JS	1mL	
a-Chloro-o-xylene		3204K	1g	**552-45-4**
a-Chloro-m-xylene		7005L	1g	
a-Chloro-p-xylene		3159F	1g	**104-82-5**
4-Chloro-o-xylene		3160F	1g	**615-60-1**
6-Chloro-3,4-xylyl-methyl carbamate		PS-1085	100mg	**671-04-5**
Chloroxynil		PS-2090	500mg	**1891-95-8**
	100ug/mL in Methanol	PS-2090JS	1mL	
Chlorphenamidine™		PS-840	250mg	**6164-98-3**
3-(4-Chlorphenyl)-1-methoxy-1-methylharnstoff		PS-2210	250mg	**1746-81-2**
Chlorphonium chloride		PS-67	50mg	**115-78-6**
Chlorpropham (S.G.)		F2199	250mg	**101-21-3**
	100ug/mL in t-Butylmethyl ether	F2199JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2199S	5mL	
Chlorpropham		PS-52	250mg	**101-21-3**
		PS-52AJS	1mL	
Chlorpropylat		PS-857	250mg	**5836-10-2**
Chlorpyrifos (S.G.)		F2057	250mg	**2921-88-2**
	100ug/mL in Isooctane	F2057JS	1mL	
	100ug/mL in Isooctane	F2057S	5mL	
Chlorpyrifos		PS-674	250mg	**2921-88-2**
	100ug/mL in Acetonitrile	PS-674AJS	1mL	
Chlorpyrifos (diethyl-d10) Solution (S.G.)	100ug/mL in n-Nonane	FD2057S	1.2mL	
Chlorpyrifos Methyl (S.G.)		F2296	250mg	**5598-13-0**
	1000ug/mL in Hexane	F2296JS	1mL	
	1000ug/mL in Hexane	F2296S	5mL	
Chlorpyrifos Methyl		PS-418	250mg	**5598-13-0**
	100ug/mL in Acetonitrile	PS-418AJS	1mL	
Chlorpyrifos methyl-O-analog		MET-418B	50mg	**5598-52-7**
Chlorpyrifos Oxon		MET-674B	100mg	**5598-15-2**
Chlorsulfuron		PS-1065	100mg	**64902-72-3**
	100ug/mL in Acetonitrile	PS-1065AJS	1mL	
Chlorsulfuron-5-hydroxy 10ng/ul in Ethylacetate		MET-1065A	5mL	**R**
Chlorsulphacide™		PS-853	100mg	**103-17-3**
Chlorthal (S.G.)	100ug/mL in Acetone	F2040S	5mL	
Chlorthal-dimethyl (S.G.)		F2040	250mg	**1861-32-1**
	100ug/mL in Acetone	F2040JS	1mL	
Chlorthal-dimethyl		PS-33	250mg	**1861-32-1**
	100ug/mL in Methanol	PS-33AJS	1mL	
Chlorthal-Methyl™		PS-33	250mg	**1861-32-1**
Chlorthiepin™		PS-81	500mg	**115-29-7**
Cholecalciferol		V-18	100mg	**67-97-0**
Cholesterol (S.G.)		O-147	500mg	**57-88-5**
		O-147	5g	**57-88-5**
Cholesterol (TECH)		S-312	5g	**57-88-5**
Cholesterol stearate		1309L	1g	**35602-69-8**
Cholesteryl acetate		2740L	500mg	**604-35-3**
Cholesteryl bromide		1324L	1g	**516-91-6**
Cholesteryl chloride		1321L	1g	**910-31-6**
Cholesteryl erucate		3181F	1g	**24516-39-0**
Cholesteryl 2-(2-ethoxyethoxy)ethyl carbonate		2668L	100mg	**1548-00-1**
Cholesteryl 2-ethylhexanoate		1270L	100mg	**41329-01-5**
Cholesteryl lauryl carbonate		3184F	100mg	**15455-85-3**
Cholesteryl-2-methyl-2-propene-1-yl-carbonate		1888L	100mg	**R**
Cholesteryl octadecyl carbonate		3162F	100mg	**R**
Cholesteryl oleate		1336L	1g	**303-43-5**
Cholesteryl oleyl carbonate		1318L	1g	**17110-51-9**

Category Name	Specification	Catalog#	Size	CAS#
Cholesteryl palmitate		1333L	1g	**601-34-3**
Cholesteryl propionate		1330L	1g	**633-31-8**
Cholic acid		1405L	1g	**81-25-4**
Cholic acid, sodium salt hydrate		2500L	200mg	**361-09-1**
Choline bitartrate		2824L	1g	**87-67-2**
Choline chloride (S.G.)		O-320	5g	**67-48-1**
		O-320	10g	**67-48-1**
Chorus™		PS-2144	250mg	**121552-61-2**
Chrome violet CG Aluminon/C,I,#43810		BS-59	1g	**569-58-4**
Chromic acid		I-42	10g	**1333-82-0**
Chromium metal		I-2601	5g	**7440-47-3**
Chromium - 10% HCl		X10M 12-2-100	100mL	
		X10M 12-2-250	250mL	
		X10M 12-2-500	500mL	
Chromium - 10% HN03		X10M 12-1-100	100mL	
		X10M 12-1-250	250mL	
		X10M 12-1-500	500mL	
Chromium - Cr metal as Cr+3, 99,999%, 2% HCl		X100012-6-A	100mL	
		X100012-6-B	250mL	
		X100012-6-C	500mL	
Chromium - Cr metal, 99,999%, 2% HCl		X100012-2-A	100mL	
		X100012-2-B	250mL	
		X100012-2-C	500mL	
Chromium - Cr metal,99,999%,2% HN03		X100012-1-A	100mL	
		X100012-1-B	250mL	
		X100012-1-C	500mL	
Chromium - K2Cr207 as Cr+6, 99,998%, H20		X100012-7-A	100mL	
		X100012-7-B	250mL	
		X100012-7-C	500mL	
Chromium borate		I-2640	5g	**R**
Chromium (III) chloride		I-40	10g	**10060-12-5**
Chromium hexacarbonyl		I-2650	1g	**13007-92-6**
Chromium K2Cr207-H20		X10M 12-7-100	100mL	
		X10M 12-7-250	250mL	
		X10M 12-7-500	500mL	
Chromium Metallo - Organic Standard	1000ug/g in Mineral Oil	XCROMS	100g	
Chromium (III) nitrate		I-41	10g	**7789-02-8**
Chromium (III) oxide		I-2670	10g	**1308-38-9**
Chromium Oxide (Cr203) 99,997%		XCR-O-A	5g	
		XCR-O-B	25g	
Chromium Pieces Cr 99,999%		XCR-M-A	5g	
		XCR-M-B	25g	
Chromium potassium sulfate crystal		I-2680	10g	**7788-99-0**
Chromium sulfate		I-2690	10g	**10031-37-5**
Chromium (VI) trioxide		I-42	10g	**1333-82-0**
Chromotrope 2B/CI#16575		BS-200	100mg	**548-80-1**
Chromotrope 2R/C,I,#16570		BS-134	1g	**4197-07-3**
Chromotropic acid disodium salt		4021L	1g	**5808-22-0**
Chromyl chloride		I-7035	1g	
2-Chrysenamine		1732L	100mg	**789-47-9**
Chrysene (S.G.)		F76	10mg	**218-01-9**
	100ug/mL in Methanol	F76MJS	1mL	
	100ug/mL in Methanol	F76MS	5mL	
	100ug/mL in Methylene chloride	F76JS	1mL	
	100ug/mL in Methylene chloride	F76S	5mL	
Chrysene (13C6) (S.G.)	100ug/mL in n-Nonane	FC76S	1.2mL	
Chrysene-d12 (S.G.)		F730	10mg	**1719-03-5**
	2000ug/mL in Methylene chloride	F730JS	1mL	
	2000ug/mL in Methylene chloride	F730S	5mL	
Chrysoidine Y/C,I,#11270		BS-9	1g	**532-82-1**
Chrysron™		PS-1000	250mg	**10453-86-8**
CIBA 570		PS-606	250mg	**13171-21-6**
CIBA 2059™		PS-369	1g	**2164-17-2**
CIBA 3126		PS-374	250mg	**3060-89-7**
Cidial™		PS-2025	100mg	**2597-03-7**
L-Cinchonidine		3186F	1g	**485-71-2**
Cinchonine		3187F	1g	**118-10-5**
Cinnamaldehyde		PS-2266	500mg	**104-55-2**
	100ug/mL in Acetonitrile	PS-2266AJS	1mL	
	100ug/mL in Toluene	PS-2266JS	1mL	
trans-Cinnamaldehyde (S.G.)		O-240	5g	**14371-10-9**
Cinnamamide		1360L	1g	**621-79-4**
trans-Cinnamic acid (S.G.)		O-83	2g	**140-10-3**
		O-83	10g	**140-10-3**
Cinnamonitrile		3187B	5g	**1885-38-7**

Category Name	Specification	Catalog#	Size	CAS#
Cinnamyl alcohol (S.G.)		0-214	5g	**104-54-1**
		0-214	10g	**104-54-1**
Cinnamyl bromide		3095H	1g	**4392-24-9**
Cinnamyl chloride		3187E	10g	**2687-12-9**
Cinosulfuron		PS-2304	100mg	**94593-91-6**
Ciodrin™		PS-603	50mg	**7700-17-6**
CIPC™		PS-52	250mg	**101-21-3**
Citraconic anhydride (S.G.)		0-125	1g	**616-02-4**
Citraconic anhydride (S.G.)		0-125	10g	**616-02-4**
Citral (S.G.)		0-226	1g	**5392-40-5**
Citrazinic acid		3190	5g	**99-11-6**
Citric acid monohydrate (S.G.)		0-75	5g	**5949-29-1**
Citric acid monohydrate (S.G.)		0-75	10g	**5949-29-1**
Citronellal (S.G.)		0-227	2g	**106-23-0**
Citronellal (S.G.)		0-227	10g	**106-23-0**
L-(+)-Citrulline		3190H	100mg	**372-75-8**
CL 26691		PS-1025	1g	**115-93-5**
Clermait™		PS-2063	250mg	**41083-11-8**
Classic 25 DF Weed Killer™		PS-1081	100mg	**90982-32-4**
Clayton yellow/C,I,#19540		BS-32	1g	**1829-00-1**
Clethodim		PS-2045	100mg	**99129-21-2**
	100ug/mL in Acetonitrile	PS-2045AJS	1mL	
	100ug/mL in Toluene	PS-2045JS	1mL	
Clipper™		PS-2097	500mg	**76738-62-0**
Clodinafop-propargyl		PS-2276	100mg	**105512-06-9**
	100ug/mL in Acetonitrile	PS-2276AJS	1mL	
	100ug/mL in Toluene	PS-2276JS	1mL	
Clofentezine		PS-2015	100mg	**74115-24-5**
	100ug/mL in Methanol	PS-2015JS	1mL	
Clomazone		PS-2001	100mg	**81777-89-1**
Cloprop		PS-317	1g	**101-10-0**
Clopyralid		PS-1069	250mg	**1702-17-6**
Cloquintocet		PS-2381	50mg	**88349-88-6**
Cloquintocet-mexyl		PS-2320	100mg	**99607-70-2**
Cloransulam-methyl		PS-2165	100mg	**147150-35-4**
	100ug/mL in Acetonitrile	PS-2165AJS	1mL	
	100ug/mL in Toluene	PS-2165JS	1mL	
Clothianidin		PS-2261	100mg	**210880-92-5**
	100ug/mL in Acetonitrile	PS-2261AJS	1mL	
	100ug/mL in Toluene	PS-2261JS	1mL	
Clout™		PS-1200	5mL	**66003-55-2**
CMU™		PS-59	250mg	**150-68-5**
CNC		PS-2028	1g	**1338-02-9**
Coal tar oil (TECH)		Pz-123	10g	**8001-58-9**
Cobalt		RE-40	1g	**7440-48-4**
Cobalt - 4% HNO3		X10M 13-1-100	100mL	
		X10M 13-1-250	250mL	
		X10M 13-1-500	500mL	
Cobalt - 10% HCl		X10M 13-2-100	100mL	
		X10M 13-2-250	250mL	
		X10M 13-2-500	500mL	
Cobalt - Co metal, 99,998%, 2% HNO3		X100013-1-A	100mL	
		X100013-1-B	250mL	
		X100013-1-C	500mL	
Cobalt - Co metal,99,998%,2% HCl		X100013-2-A	100mL	
		X100013-2-B	250mL	
		X100013-2-C	500mL	
Cobalt acetate		I-43	10g	**6147-53-1**
Cobalt (III) acetylacetonate		3189F	10g	**14024-48-7**
Cobalt (II) arsenate		I-2700	1g	**R**
Cobalt borate		I-2710	1g	**R**
Cobalt carbonate-powder		I-2730	10g	**513-79-1**
Cobalt (II) chloride		I-44	10g	**7791-13-1**
Cobalt (II) cyanide		I-2740	1g	**26292-31-9**
Cobalt-2-ethylhexoate		2329L	500mg	**R**
Cobalt (II) fluoride		I-2760	1g	**13817-37-3**
Cobalt (II) hydroxide		I-2770	10g	**21041-93-0**
Cobalt Metallo - Organic Standard	1000ug/g in Mineral Oil	XCOOMS	100g	
Cobalt naphthenate (TECH)		S-98	10g	**61789-51-3**
Cobalt nitrate		I-45	10g	**10026-22-9**
Cobalt (II) oxalate		I-2785	1g	**814-89-1**
Cobalt Oxide (CoC) 99,9%		XCO-O-A	5g	
		XCO-O-B	25g	
Cobalt oxide-black powder		I-2790	10g	**1308-06-1**
Cobalt phosphate		I-2800	10g	**10294-50-5**

Category Name	Specification	Catalog#	Size	CAS#
Cobalt phthalocyanine		2881L	100mg	**3317-67-7**
Cobalt Powder (Co) 99,998%		XCO-MP-A	5g	
		XCO-MP-B	25g	
Cobalt silicate		I-2810	1g	**12017-08-2**
Cobalt meta-silicate		I-2820	1g	**14012-90-9**
Cobalt silicofluoride		I-2830	1g	**12021-68-0**
Cobalt stearate (TECH)		S-97	10g	**R**
Cobalt (II) sulfate-crystal		I-2860	10g	**10026-24-1**
Cobalt sulfate-monohydrate		I-2850	10g	**10124-43-3**
Cobalt (II) sulfide		I-2870	1g	**1317-42-6**
Cobalt titanate		I-2890	1g	**12017-01-5**
Cobra™		PS-2077	100mg	**77501-63-4**
Cochineal/C,I,#75470		BS-157	1g	**R**
Cochineal red A/C,I,#16255		BS-133	1g	**2611-82-7**
Coco dimethylamine oxide (TECH)		S-660	10g	**61788-90-7**
Coco acid diethanolamide (TECH)		S-599	10g	**68603-42-9**
Coco amido alkyl dimethylamine (TECH)		S-572	10g	**68140-01-2**
Cocoamidopropyl dimethyl amine oxide (TECH)		S-551-1	10g	**R**
Cocoamidopropyl PG-dimonium chloride phosphate (TECH)		S-623-1	10g	**R**
Cocoamine (TECH)		S-495	10g	**61788-46-3**
N-Coco-b-aminobutyric acid (TECH)		S-553	10g	**R**
Coco betaine (TECH)		S-566	10g	**R**
N-Coco-1,3-diaminopropane (TECH)		S-505	10g	**R**
Coconut amido betaine (TECH)		S-569	10g	**R**
Coconut oil acid ester of sodium isethionate (TECH)		S-571	10g	**61789-32-0**
Coconut oil fatty acids (TECH)		S-16	10g	**67701-05-7**
Coco trimethyl ammonium chloride (TECH)		S-610	10g	**61789-18-2**
Cocoyl sarcosine (TECH)		S-585	10g	**R**
Codusafos		PS-2199	100mg	**95465-99-9**
Collodion (flexible)		3195B	10g	**9004-70-0**
Collunosol		PS-9	1g	**95-95-4**
Columbian metal		RE-50	10mg	**R**
Columbian pentoxide		RE-60	100mg	**1313-96-8**
Combat™		PS-2129	250mg	**82558-50-7**
Combination of CLP-INF-I & ANALCS II		XCLP-COMB-A	100mL	
		XCLP-COMB-B	250mL	
Command		PS-2001	100mg	**81777-89-1**
	100ug/mL in Methanol	PS-2001JS	1mL	
Commercial Jet Fuel A Solution (S.G.)	50,000ug/mL in Methylene chloride	CSRG0-672-1JS	1mL	
	5000ug/mL in Methylene chloride	CSRG0-671-1JS	1mL	
Commodore™		PS-2018	100mg	**91465-08-6**
Compitox™		PS-324	100mg	**7085-19-0**
Compitox Plus™		PS-324	100mg	**7085-19-0**
Complete ICP Starter Kit A-F		XICP-KIT-A-F-A	100mL	
		XICP-KIT-A-F-B	250mL	
Confidor™		PS-2086	500mg	**138261-41-3**
Confirm™		PS-2188	100mg	**112410-23-8**
Congo red/C,I,#22120		BS-35	1g	**573-58-0**
Conquest™		PS-2124	250mg	**77182-82-2**
Consult™		PS-2074	250mg	**86479-06-3**
Continuing Check Verification Standard I		XCCV-I-A	100mL	
		XCCV-I-B	250mL	
Continuing Check Verification Standard II		XCCV-II-A	100mL	
		XCCV-II-B	250mL	
Continuing Check Verification Standard III		XCCV-III-A	100mL	
		XCCV-III-B	250mL	
Co-Pilot™		PS-2151	500mg	**100646-51-3**
Copper metal-light turnings		I-2902	10g	**7440-50-8**
Copper metal-fine powder		I-2904	10g	**7440-50-8**
Copper		I-2906	10g	**7440-50-8**
Copper metal-granular		I-2908	10g	**7440-50-8**
Copper metal alloy-copper tin		I-2909	10g	**11099-34-6**
Copper - 4% HNO3		X10M 14-1-100	100mL	
		X10M 14-1-250	250mL	
		X10M 14-1-500	500mL	
Copper - 10% HCl		X10M 14-2-100	100mL	
		X10M 14-2-250	250mL	
		X10M 14-2-500	500mL	
Copper - Cu metal, 99,999%, 2% HNO3		X100014-1-A	100mL	
		X100014-1-B	250mL	
		X100014-1-C	500mL	
Copper - Cu metal,99,999%,2% HCl		X100014-2-A	100mL	
		X100014-2-B	250mL	
		X100014-2-C	500mL	

Category Name	Specification	Catalog#	Size	CAS#
Copper (II) acetate monohydrate		I-46	10g	**6046-93-1**
Copper (I) bromide		I-2930	10g	**7787-70-4**
Copper (II) bromide		I-47	10g	**7789-45-9**
Copper (II) carbonate		I-2940	10g	**12069-69-1**
Copper (I) chloride		I-51	10g	**7758-89-6**
Copper Chloride (-80 mesh) (CuCl2) 99,999%		XCU-CL-S-A	5g	
		XCU-CL-S-B	25g	
Copper (II) chloride - dihydrate		I-48	10g	**10125-13-0**
Copper chromite		I-2901	1g	**12053-18-8**
Copper (I) cyanide		I-2960	10g	**544-92-3**
Copper(II)hydroxide		I-7032	1g	**20427-59-2**
Copper (I) iodide		I-2970	10g	**7681-65-4**
Copper Metallo - Organic Standard 1000ug/g in Mineral Oil		XCUOMS	100g	
Copper Naphthenates		PS-2028	1g	**1338-02-9**
	100ug/mL in Acetonitrile	PS-2028AJS	1mL	
	100ug/mL in Toluene	PS-2028JS	1mL	
Copper naphthenates (TECH)		S-101	10g	**1338-02-9**
Copper (II) nitrate trihydrate		I-49	10g	**3251-23-8**
Copper oleate (TECH)		S-100	10g	**R**
Copper (I) oxide - red powder		I-2980	10g	**1317-39-1**
Copper (II) oxide		I-7029	100mg	**1317-38-0**
Copper Oxide (-20 mesh) (Cu2O) 99,999%		XCU-O-A	5g	
		XCU-O-B	25g	
Copper oxychloride		PS-292	1g	**1332-65-6**
	100ug/mL in H2O	PS-292AJS	1mL	
	100ug/mL in Toluene	PS-292JS	1mL	
Copper-8-Quinolinolate		PS-2091	500mg	**10380-28-6**
Copper Shot (2-6mm) (Cu)		XCU-MS-A	5g	
		XCU-MS-B	25g	
Copper stearate (TECH)		S-99	10g	**660-60-6**
Copper (II) sulfate - anhydrous powder		I-3010	10g	**7758-98-7**
Copper (II) sulfate - pentahydrate		I-50	10g	**7758-99-8**
Copper (II) sulphide - anhydrous		I-3020	10g	**1317-40-4**
Copper Uversol™		PS-2028	1g	**1338-02-9**
Coppo W™		PS-2028	1g	**1338-02-9**
7-Co-Ral™		PS-656	100mg	**56-72-4**
Corbel™		PS-1214	5mL	**67564-91-4**
Corbit™		PS-926	1g	**84-65-1**
Corn oil (S.G.)		O-2305	10g	**8001-30-7**
Corn oil (TECH)		Pz-108	10g	**8001-30-7**
Corn oil fatty acids (TECH)		S-17	10g	**8001-30-7**
Cornox M™		PS-40	250mg	**94-74-6**
Coronene (S.G.)		F1007	10mg	**191-07-1**
	100ug/mL in Toluene	F1007JS	1mL	
	100ug/mL in Toluene	F1007S	5mL	
Coronene (d12) (S.G.)		FD1007-A	0.1g	**R**
	200ug/mL in Benzene	FD1007S	1.2mL	
Corozate™		PS-21	1g	**137-30-4**
Corubex™		PS-203	100mg	**102-98-7**
(-)-Cotinine		1294L	100mg	**486-56-6**
Cotoran™		PS-369	1g	**2164-17-2**
Cotton blue CVB/C,I,#42780		BS-138	1g	**28983-56-4**
Cottonseed oil fatty acids (TECH)		S-18	10g	**8001-29-4**
Coumadin™		PS-104	1g	**81-81-2**
Coumafene™		PS-104	1g	**81-81-2**
Coumafuryl Solution		PS-287JS	1mL	
Coumalic acid monohydrate		3193F	1g	**500-05-0**
Coumaphene™		PS-104	1g	**81-81-2**
Coumaphos (S.G.)		F2058	100mg	**56-72-4**
	100ug/mL in Toluene	F2058JS	1mL	
	100ug/mL in Toluene	F2058S	5mL	
Coumaphos		PS-656	100mg	**56-72-4**
	100ug/mL in Acetonitrile	PS-656AJS	1mL	
Coumaphos-O-analog		MET-656D	50mg	**321-54-0**
2-Coumaranone		3222K	10mg	**553-86-6**
Coumarin (S.G.)		O-829	2g	**91-64-5**
		O-829	10g	**91-64-5**
Coumatetralyl		PS-2093	250mg	**5836-29-3**
	100ug/mL in Methanol	PS-2093JS	1mL	
Counter™		PS-680	250mg	**13071-79-9**
4-CPA		PS-39	250mg	**122-88-3**
Crag 1™		PS-313	1g	**149-26-8**
Crage Fungicide 974™		PS-17	250mg	**533-74-4**

Category Name	Specification	Catalog#	Size	CAS#
Crag Fly Repellent™		PS-908	1g	**9003-13-8**
Crag Fruit Fungicide 341™		PS-261	1g	**556-22-9**
Crag Herbicide 1™		PS-313	1g	**149-26-8**
Crag SES		PS-313	1g	**149-26-8**
CRDL Detection Limits Standard (in 5% HNO3)		XCRDL	250mL	
Creatine		MET-250A	1g	**57-00-1**
Creatinine		3200E	5g	**60-27-5**
Creosote		3192F	5g	**8001-58-9**
p-Cresidine		F2100	1g	**120-71-8**
m-Cresol (S.G.)		F987	5g	**108-39-4**
	100ug/mL in Methanol	F987JS	1mL	
	100ug/mL in Methanol	F987S	5mL	
m-Cresol (S.G.)		O-871	10g	**108-39-4**
o-Cresol (S.G.)		O-870	5g	**95-48-7**
		O-870	10g	**95-48-7**
o-Cresol (d8) (S.G.)		O-D870-5	5g	**R**
p-Cresol (S.G.)		O-872	5g	**106-44-5**
		O-872	10g	**106-44-5**
p-Cresol (d8) (S.G.)		O-D872-5	5g	**R**
Cresol diphenyl phosphate		3197F	5g	**26444-49-5**
Croneton™		PS-2058	100mg	**29973-13-5**
Crotonaldehyde (S.G.)		F2325	1g	**4170-30-3**
	1000ug/mL in Acetonitrile	F2325JS	1mL	
	1000ug/mL in Acetonitrile	F2325S	5mL	
Crotonaldehyde (S.G.)		O-228	1g	**4170-30-3**
Crotonaldehyde (DNPH Derivative) (S.G.)		F2343	100mg	**1527-96-4**
	100ug/mL in Acetonitrile	F2343AJS	1mL	
	100ug/mL in Acetonitrile	F2343AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2343JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2343S	5mL	
Crotonic acid (S.G.)		O-8	5g	**3724-65-0**
		O-8	10g	**3724-65-0**
Croton oil		3025L	1g	**8001-28-3**
Crotononitrile		3200	10g	**4786-20-3**
Crotothane™		PS-27	100mg	**39300-45-3**
Crotoxyphos (S.G.)		F2101	50mg	**7700-17-6**
	100ug/mL in Isooctane	F2101JS	1mL	
	100ug/mL in Isooctane	F2101S	5mL	
Crotoxyphos		PS-603	50mg	**7700-17-6**
Crotyl glycine		1312L	100mg	**R**
Crufomate		PS-607	50mg	**299-86-5**
Cultar™		PS-2097	500mg	**76738-62-0**
Cumene (S.G.)		O-764	10g	**98-82-8**
Cumene™		PS-2179	1g	**98-82-8**
3-p-Cumenyl-1,1-dimethylurea		PS-2000	100mg	**34123-59-6**
Cumic acid		3205	5g	**536-66-3**
Cumol™		PS-2179	1g	**98-82-8**
Cunapsol™		PS-2028	1g	**1338-02-9**
Cupene™		PS-250	250mg	**2439-10-3**
Cuprous oxide-red powder		I-2980	10g	**1317-39-1**
Cupferron (S.G.)		O-865	1g	**135-20-6**
		O-865	10g	**135-20-6**
Cuprinol™		PS-2028	1g	**1338-02-9**
Curacron™		PS-1024	250mg	**41198-08-7**
Curap 20™		PS-2028	1g	**1338-02-9**
Curbiset™		PS-1022	100mg	**2536-31-4**
Curcumin/C,I,#75300		BS-95	1g	**458-37-7**
Curzate™		PS-1067	100mg	**57966-95-7**
Cutless ™		PS-2131	100mg	**56425-91-3**
Cyalane™		PS-842	1g	**947-02-4**
Cyanazine		PS-387	250mg	**21725-46-2**
Cyanide @ 100ug/mL in 0,5% KOH		XIC-CN-A	100mL	
Cyanide @ 1000ug/ml in water		XIC-CN-M-A	100mL	
2-Cyanoacetamide (S.G.)		O-259	2g	**107-91-5**
		O-259	10g	**107-91-5**
Cyanoacetic acid (S.G.)		O-52	5g	**372-09-8**
		O-52	10g	**372-09-8**
Cyanoacetohydrazide		3234K	100mg	**140-87-4**
1-Cyanoacetylpiperidine		3237K	100mg	**15029-30-8**
Cyanoacetylurea		3240K	1g	**1448-98-2**
N-Cyanoacetylurethane		3243K	1g	**6629-04-5**
2-Cyanoamino-4,6-dimethylpyrimidine		3246K	10mg	**R**
4-Cyanoaniline		1279L	100mg	**873-74-5**

Category Name	Specification	Catalog#	Size	CAS#
Cyanocobalamin		V-14	100mg	68-19-9
2-Cyano-N-[(ethylamino)carbonyl]-2-methoxyimino)acetamide		PS-1067	100mg	57966-95-7
2-Cyanoethyl phosphate barium salt dihydrate		1285L	1g	5015-38-3
N-(2-Cyanoethyl)pyrrole		3225B	5g	43036-06-2
(RS)-alpha-cyano-4-fluoro-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)2,2-dimethylcyclopr		PS-2204	250mg	68359-37-5
Cyano-(4-fluoro-3-phenoxyphenyl)methyl-3-(2,2-dichloroethenyl)		PS-1090	250mg	68359-37-5
1-Cyanoguanidine		0-260	5g	461-58-5
4-[Cyano(hydroxyamino)methyl]-1-methylpyridinium iodide		3255K	10mg	35013-90-2
4-Cyano-2,6-lutidine		3258K	10mg	39965-81-6
1-Cyanonaphthalene (S.G.)		0-2353	1g	86-53-3
9-Cyanophenanthrene (S.G.)		0-2354	10mg	2510-55-6
4-Cyanophenol		3243F	1g	767-00-0
3-Cyanophenol (R.G.)		3264K	100mg	873-62-1
(S)-a-Cyano-3-phenoxy benzyl-(S)-2-(4-chlorophenyl)-3-methylbu		PS-2004	100mg	66230-04-4
(RS)-a-Cyano-3-phenoxybenzyl (R)-2-[2-chloro-4-(trifluoromethy		PS-1071	100mg	102851-06-9
(1:1) mix of (S)-a-Cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chlo		PS-2018	100mg	91465-08-6
(S)-a-Cyano-3-phenoxybenzyl(1R,3R)-3-(2,2-dibromovinyl)-2,2-di		PS-2071	250mg	52918-63-5
(+/-)(a)-Cyano-3-phenoxybenzyl(+) cis,trans-3-(2,2-dichlorovin		PS-1068	100mg	52315-07-8
(S)-a-Cyano-3-phenoxybenzyl(1R,3S)-2,2-dimethyl-3-[(RS)-1,2,2,		PS-2115	100mg	66841-25-6
Cyano(3-phenoxyphenyl)-methyl-4-chloro-alpha-(1-methylethyl)be		PS-1032	250mg	51630-58-1
[1a(S™),3a]-(+/-)-Cyano-(3-phenoxyphenyl)methyl-3-(2,2-dichlor		PS-2083	250mg	67375-30-8
(+-)-Cyano(3-phenoxyphenyl)methyl(+)-4-(difluoromethoxy)-alpha-(1-methylethyl)benzeneacetate		PS-1072	100mg	70124-77-5
(E)-2-2-6-(2-Cyanophenoxy)pyrimidin-4-yloxy-phenyl-3-methoxyacrylate		PS-2141	250mg	131860-33-8
O-4-Cyanophenyl-O,O-dimethylphosphorothioate		PS-2034	100mg	2636-26-2
p-Cyanophenyl isothiocyanate		3270K	10mg	2719-32-6
Cyanophos		PS-2034	100mg	2636-26-2
	100ug/mL in Acetonitrile	PS-2034AJS	1mL	
	100ug/mL in Toluene	PS-2034JS	1mL	
3-Cyanopyridine		3244H	10g	100-54-9
4-Cyanopyridine		3246F	10g	100-48-1
Cyanoquanidine		0-260	5g	461-58-5
Cyanox™		PS-2034	100mg	2636-26-2
Cyanuric acid (S.G.)		0-695	2g	108-80-5
		0-695	5g	108-80-5
Cyanuric acid (13C3) (S.G.)		O-C695-A	1.2mL	R
Cyazofamid		PS-2336	100mg	120116-88-3
CyBolt™		PS-1072	100mg	70124-77-5
Cybutryne		PS-2279	100mg	28159-98-0
	100ug/mL in Acetonitrile	PS-2279AJS	1mL	
	100ug/mL in Toluene	PS-2279JS	1mL	
Cyclanilide		PS-2243	100mg	113136-77-9
	100ug/mL in Acetonitrile	PS-2243AJS	1mL	
	100ug/mL in Toluene	PS-2243JS	1mL	
Cycle™		PS-402	1g	32889-48-8
Cyclic ethylene[diethoxy phosphinyl]dithio-imidocarbonate		PS-842	1g	947-02-4
Cycloate (S.G.)		F2227	250mg	1134-23-2
	100ug/mL in t-Butylmethyl ether	F2227JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2227S	5mL	
Cycloate		PS-502	250mg	1134-23-2
	100ug/mL in Acetonitrile	PS-502AJS	1mL	
Cyclobutylamine hydrochloride		3251F	1g	R
Cyclocel™		PS-363	250mg	999-81-5
Cyclodan™		PS-81	500mg	115-29-7
Cyclododecane (S.G.)		0-2020	5g	294-62-2
		0-2020	10g	294-62-2
Cyclododecanol		3273K	100mg	1724-39-6
Cyclododecanone		3253F	10g	830-13-7
1,5,9-Cyclododecatriene (S.G.)		0-2018	5g	4904-61-4
		0-2018	10g	4904-61-4
Cyclododecene (S.G.)		0-2021	5g	1501-82-2
		0-2021	10g	1501-82-2
4-Cyclododecyl-2,6-dimethylmorpholine		PS-1086	250mg	1593-77-7
Cycloheptanone		3259F	1g	502-42-1
Cycloheptatriene (S.G.)		0-2017	5g	544-25-2
Cycloheptyl bromide		3261F	1g	2404-35-5
1,3-Cyclohexadiene (S.G.)		0-2019	500mg	592-57-4
2,5-Cyclohexadiene-1,4-dione cmpd with 1,4-Benzenediol		0-928	500mg	106-34-3
Cyclohexane (S.G.)		F2410	5g	110-82-7
	1000ug/mL in Methanol	F2410JS	1mL	
	1000ug/mL in Methanol	F2410S	5mL	
Cyclohexane (S.G.)		0-742	5g	110-82-7
Cyclohexane-d12 (S.G.)		F2542	100mg	1735-17-7

Category Name	Specification	Catalog#	Size	CAS#
Cyclohexaneacetic acid (S.G.)		0-9	500mg	5292-21-7
		0-9	2g	5292-21-7
Cyclohexane-1,1-bis(mercaptoacetic acid)		3264A	10g	R
1,4-Cyclohexane-bis(methylamine)		3260	10g	2549-93-1
Cyclohexanecarboxylic acid (S.G.)		0-10	2g	98-89-5
		0-10	5g	98-89-5
1,2-Cyclohexanedicarboxylic anhydride (S.G.)		0-126	5g	85-42-7
		0-126	10g	85-42-7
1,4-Cyclohexanedimethanol		3270	10g	105-08-8
trans-1,4-Cyclohexanedimethanol		3279B	1g	105-08-8
cis-1,2-Cyclohexanedimethanol		3282K	100mg	15753-50-1
trans-1,2-Cyclohexanediol		3274E	1g	1460-57-7
1,2-Cyclohexanediol (cis & trans mixture)		MET-858B	1g	931-17-9
1,4-Cyclohexanediol (cis & trans mixture)		3275A	10g	556-48-9
1,2-Cyclohexanedione dioxime		3279F	1g	492-99-9
Cyclohexane methylamine		3283F	1g	3218-02-8
1,2,3-Cyclohexanetrione-1,3-dioxime		3288K	10mg	R
Cyclohexanol (S.G.)		0-148	5g	108-93-0
		0-148	10g	108-93-0
Cyclohexanone (S.G.)		F2326	5g	108-94-1
	2000ug/mL in Isooctane	F2326AJS	1mL	
	2000ug/mL in Isooctane	F2326AS	5mL	
	1000ug/mL in Acetonitrile	F2326JS	1mL	108-94-1
	1000ug/mL in Acetonitrile	F2326S	5mL	108-94-1
Cyclohexanone (S.G.)		0-800	10g	108-94-1
Cyclohexanone (DNPH Derivative) (S.G.)		F2344	100mg	1589-62-4
	100ug/mL in Acetonitrile	F2344AJS	1mL	
	100ug/mL in Acetonitrile	F2344AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2344JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2344S	5mL	
Cyclohexanone oxime		3300	10g	100-64-1
Cyclohexene (S.G.)		F2411	5g	110-83-8
	1000ug/mL in Methanol	F2411JS	1mL	
	1000ug/mL in Methanol	F2411S	5mL	
Cyclohexene (S.G.)		0-748	5g	110-83-8
cis-4-Cyclohexene-1,2-dicarboximide		MET-260A	5g	27813-21-4
Cyclohex-1-ene-1,2-dicarboximidomethyl-(1RS,3RS;1RS,3SR)-2,2-d		PS-1042	100mg	7696-12-0
cis-4-Cyclohexene-1,2-dicarboxylic acid		3287B	5g	2305-26-2
cis-4-Cyclohexene-1,2-dicarboxylic anhydride (S.G.)		0-127	5g	85-43-8
		0-127	10g	85-43-8
3-Cyclohexene-1,1-dimethanol		1342L	1g	2160-94-3
Cyclohexene sulfide		3308A	500mg	286-28-2
2-Cyclohexen-1-one		3306F	1g	930-68-7
1-Cyclohexenylacetonitrile		3313F	1g	6975-71-9
p-(2-Cyclohexenyloxy)benzoic acid		1351L	1g	7355-51-3
Cycloheximide		PS-1002	100mg	66-81-9
	100ug/mL in Acetonitrile	PS-1002AJS	1mL	
	100ug/mL in Toluene	PS-1002JS	1mL	
Cyclohexyl acetate (S.G.)		0-411	500mg	622-45-7
		0-411	5g	622-45-7
Cyclohexylamine (S.G.)		0-277	10g	108-91-8
2-Cyclohexylcyclohexanone (R.G.)		3312E	1g	90-42-6
3-Cyclohexyl-6,7-dihydro-1(H)-cyclopentapyrimidine-2,4-(3H,5H)		PS-415	100mg	2164-08-1
3-Cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4-(1H		PS-416	250mg	51235-04-2
2-Cyclohexyl-4,6-dinitrophenol (S.G.)		F2468	100mg	131-89-5
	1000ug/mL in Isopropanol	F2468JS	1mL	
	1000ug/mL in Isopropanol	F2468S	5mL	
N-Cyclohexylformamide		3314E	5g	766-93-8
Cyclohexyl isocyanate		3321A	10g	3173-53-3
Cyclohexylmercaptan		3291K	100mg	1569-69-3
Cyclohexyl methacrylate		3312F	10g	101-43-9
Cyclohexylmethanol		3294K	1g	100-49-2
1-Cyclohexyl-3-(2-morpholinoethyl)thiourea		1381L	1g	21545-54-0
Cyclohexyl oxalate		3325	5g	R
Cyclohexylsulfamic acid		3327A	10g	100-88-9
N-Cyclohexyl-p-toluenesulfonamide (TECH)		Pz-146	10g	R
3-Cyclohexyl-5,6-trimethyleneuracil		PS-415	100mg	2164-08-1
1,3-Cyclooctadiene (S.G.)		0-2023	5g	1700-10-3
		0-2023	10g	1700-10-3
1,5-Cyclooctadiene (S.G.)		0-2024	5g	111-78-4
		0-2024	10g	111-78-4
Cyclooctane (S.G.)		0-2022	5g	292-64-8
		0-2022	10g	292-64-8
Cyclooctanone		3319F	1g	502-49-8
Cyclooctene		3318H	1g	931-88-4
Cyclooctyl bromide		3320F	1g	R

Category Name	Specification	Catalog#	Size	CAS#
Cyclopentadecanone		1306L	100mg	**502-72-7**
Cyclopentadiene dimer		PS-2033	500mg	**77-73-6**
Cyclopentadienyliron dicarbonyl dimer		3340E	5g	**R**
Cyclopentane (S.G.)		0-743	1g	**287-92-3**
		0-743	5g	**287-92-3**
Cyclopentane carboxylic acid		3321F	1g	**3400-45-1**
Cyclopentane propionic acid		3322F	1g	**140-77-2**
cis-cis-cis-cis-1,2,3,4-Cyclopentanetetracarboxylic dianhydride		3323H	10g	**3786-91-2**
Cyclopentanol		3215H	1g	**96-41-3**
Cyclopentanone (S.G.)		0-801	5g	**120-92-3**
Cyclopentanone oxime		3297K	100mg	**1192-28-5**
Cyclopentene (S.G.)		0-2025	1g	**142-29-0**
		0-2025	5g	**142-29-0**
Cyclopentylacetic acid		3326F	1g	**1123-00-8**
Cyclopentylamine		3327F	1g	**1003-03-8**
Cyclopentylcarboxylic acid		3333F	1g	**3400-45-1**
Cyclophosphamide monohydrate		3355J	10mg	**6055-19-2**
Cycloprate (S.G.)		F2520	500mg	**54460-46-7**
	1000ug/mL in t-Butylmethyl ether	F2520JS	1mL	
	1000ug/mL in t-Butylmethyl ether	F2520S	5mL	
Cycloprate		PS-2092	500mg	**54460-46-7**
	100ug/mL in Acetonitrile	PS-2092JS	1mL	
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)m		PS-2204	250mg	**68359-37-5**
Cyclopropylamine		3305K	100mg	**765-30-0**
a-Cyclopropyl-a(p-methoxyphenyl)-5-pyrimidine methanol		PS-1008	100mg	**12771-68-5**
Cyclopropyl benzene		3365J	1g	**873-49-4**
Cyclopropyl bromide		3350H	500mg	**4333-56-6**
1-[2-(Cyclopropylcarbonyl)phenylsulfamoyl]-3-(4,6-dimethoxypyrimidin-2-yl)urea		PS-2214	250mg	**136849-15-5**
Cyclopropylcyanide		3360E	1g	**5500-21-0**
a-Cyclopropyl-p-methylbenzyl alcohol		3310K	10mg	**R**
4-Cyclopropyl-6-methyl-N-phenylpyrimidin-2-amine		PS-2144	250mg	**121552-61-2**
5-Cyclopropyl-1,2-oxazol-4-yl a,a,a-trifluoro-2-mesyl-p-tolyl ketone		PS-2166	100mg	**141112-29-0**
Cyclopropyl phenyl ketone		3355H	100mg	**3481-02-5**
N-Cyclopropyl-1,3,5-triazine-2,4,6-triamine		PS-2073	250mg	**66215-27-8**
D-Cycloserine		1300L	100mg	**68-41-7**
Cyclosulfamuron		PS-2214	250mg	**136849-15-5**
	100ug/mL in Acetonitrile	PS-2214AJS	1mL	
	100ug/mL in Toluene	PS-2214JS	1mL	
Cycocel		1348L	1g	**999-81-5**
Cycocel™		PS-363	250mg	**999-81-5**
Cyfen™		PS-678	250mg	**122-14-5**
Cyflee™		PS-1025	1g	**115-93-5**
Cyfluthrin (S.G.)		F2460	250mg	**68359-37-5**
Cyfluthrin		PS-1090	250mg	**68359-37-5**
Cygon™		PS-659	250mg	**60-51-5**
Cyhalofop-butyl		PS-2280	100mg	**122008-85-9**
	100ug/mL in Acetonitrile	PS-2280AJS	1mL	
	100ug/mL in Toluene	PS-2280JS	1mL	
lambda-Cyhalothrin		PS-2018	100mg	**91465-08-6**
	100ug/mL in Acetonitrile	PS-2018AJS	1mL	
	100ug/mL in Hexane	PS-2018JS	1mL	
Cyhexatin		PS-107	250mg	**13121-70-5**
Cylan™		PS-842	1g	**947-02-4**
Cymbush		PS-1068	100mg	**52315-07-8**
Cymbush™		PS-2203	250mg	**65731-84-2**
p-Cymene (S.G.)		0-765	10g	**99-87-6**
Cymoxanil		PS-1067	100mg	**57966-95-7**
	100ug/mL in Acetonitrile	PS-1067AJS	1mL	
	100ug/mL in Toluene	PS-1067JS	1mL	
Cynem™		PS-668	50mg	**297-97-2**
Cyngus™		PS-2182	250mg	**143390-89-0**
Cyolan™		PS-842	1g	**947-02-4**
Cyolane™		PS-842	1g	**947-02-4**
Cyperkill		PS-1068	100mg	**52315-07-8**
Cyperkill™		PS-2203	250mg	**65731-84-2**
Cypermethrin		PS-1068	100mg	**52315-07-8**
	100ug/mL in Acetonitrile	PS-1068AJS	1mL	
	100ug/mL in Toluene	PS-1068JS	1mL	
alpha-Cypermethrin		PS-2083	250mg	**67375-30-8**
	100ug/mL in Acetonitrile	PS-2083AJS	1mL	
	100ug/mL in Hexane	PS-2083JS	1mL	
zeta-Cypermethrin		PS-2244	250mg	**52315-07-8**
	100ug/mL in Acetonitrile	PS-2244AJS	1mL	
	100ug/mL in Toluene	PS-2244JS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Cypermetryna™		PS-2203	250mg	**65731-84-2**
Cyprazine		PS-2104	50mg	**22936-86-3**
	100ug/mL in Acetonitrile	PS-2104AJS	1mL	
	100ug/mL in Acetone	PS-2104JS	1mL	
Cyprex™		PS-250	250mg	**2439-10-3**
Cyproconazole		PS-2130	50mg	**94361-06-5**
	100ug/mL in Acetonitrile	PS-2130AJS	1mL	
	100ug/mL in Cyclohexane	PS-2130JS	1mL	
Cyprodinil		PS-2144	250mg	**121552-61-2**
	100ug/mL in Acetonitrile	PS-2144AJS	1mL	
	100ug/mL in Toluene	PS-2144JS	1mL	
Cyprosulfamide		PS-2367	100mg	**221667-31-8**
Cyromazine		PS-2073	250mg	**66215-27-8**
	100ug/mL in Acetonitrile	PS-2073AJS	1mL	
	100ug/mL in Acetone	PS-2073JS	1mL	
Cystathionine		1885L	10mg	**R**
L-Cysteic acid monohydrate		3264H	1g	**498-40-8**
L-Cysteine		3270H	1g	**52-90-4**
1-Cysteine ethyl ester hydrochloride		3351B	5g	**868-59-7**
L-(+)-Cysteine hydrochloride (R.G.)		AA-5	1g	**52-89-1**
		AA-5	5g	**52-89-1**
DL-Cystine		1393L	100mg	**923-32-0**
L-(-)-Cystine (R.G.)		AA-6	1g	**56-89-3**
		AA-6	5g	**56-89-3**
L-(-)-Cystine (S.G.)		0-36	500mg	**56-89-3**
		0-36	5g	**56-89-3**
Cytel™		PS-678	250mg	**122-14-5**
Cythioate		PS-1025	1g	**115-93-5**
	100ug/mL in Acetonitrile	PS-1025AJS	1mL	
	100ug/mL in Toluene	PS-1025JS	1mL	
Cythion™		PS-86	500mg	**121-75-5**
Cythrin™		PS-1072	100mg	**70124-77-5**
Cytosine		3320K	100mg	**71-30-7**
Cytrol™		PS-382	250mg	**61-82-5**
Cytrolane™		PS-1026	100mg	**950-10-7**
2,4-D (S.G.)		F954	1g	**94-75-7**
	100ug/mL in Acetone	F954JS	1mL	
	100ug/mL in Acetone	F954S	5mL	
2,4-D		PS-41	1g	**94-75-7**
	100ug/mL in Methanol	PS-41AJS	1mL	
2,4-D butoxyethyl ester (S.G.)		F2360	250mg	**1929-73-3**
	1000ug/mL in Acetonitrile	F2360JS	1mL	
	1000ug/mL in Acetonitrile	F2360S	5mL	
2,4-D butoxyethyl ester		PS-315	250mg	**1929-73-3**
	100ug/mL in Acetonitrile	PS-315AJS	1mL	
2,4-D butyl ester		PS-42	250mg	**94-80-4**
	100ug/mL in Acetonitrile	PS-42AJS	1mL	
	100ug/mL in Toluene	PS-42JS	1mL	
2,4-D sec-butyl ester (S.G.)		F2361	1g	**R**
	1000ug/mL in Acetonitrile	F2361JS	1mL	
	1000ug/mL in Acetonitrile	F2361S	5mL	
2,4-D sec-butyl ester		PS-301	1g	**R**
	100ug/mL in Toluene	PS-301JS	1mL	
2,4-D dimethylamine salt		PS-337	1g	**2008-39-1**
	100ug/mL in Methanol	PS-337JS	1mL	
2,4-D ethanolamine salt		PS-338	1g	**3599-58-4**
	100ug/mL in Methanol	PS-338JS	1mL	
2,4-D ethyl ester		PS-304	1g	**533-23-3**
	100ug/mL in Acetonitrile	PS-304AJS	1mL	
	100ug/mL in Hexane	PS-304JS	1mL	
2,4-D 2-ethylhexyl ester (S.G.)		F2363	100mg	**1928-43-4**
	1000ug/mL in Acetonitrile	F2363JS	1mL	
	1000ug/mL in Acetonitrile	F2363S	5mL	
2,4-D 2-ethylhexyl ester		PS-319-1	1g	**1928-43-4**
2,4-D isooctyl ester		PS-319	1g	**25168-26-7**
	100ug/mL in Acetonitrile	PS-319AJS	1mL	
	100ug/mL in MTBE	PS-319JS	1mL	
2,4-D isopropanol amine salt		PS-332	1g	**5742-17-6**
	100ug/mL in Methanol	PS-332JS	1mL	
2,4-D isopropylamine salt		PS-299	1g	**R**
	100ug/mL in Methanol	PS-299JS	1mL	
2,4-D isopropyl ester		PS-43	1g	**94-11-1**
	100ug/mL in Acetonitrile	PS-43AJS	1mL	
	100ug/mL in Toluene	PS-43JS	1mL	
2,4-D methyl ester (S.G.)		F955	250mg	**1928-38-7**
	100ug/mL in Methanol	F955JS	1mL	
	100ug/mL in Methanol	F955S	5mL	
2,4-D methyl ester		PS-41-1	250mg	**1928-38-7**
2,4-D propylene glycol ester		PS-302	1g	**R**
	100ug/mL in Acetonitrile	PS-302AJS	1mL	
	100ug/mL in Hexane	PS-302JS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Daconate™		PS-429	100mg	**2163-80-6**
Daconil 2787™		PS-1020	250mg	**1897-45-6**
Dacthal™		PS-33	250mg	**1861-32-1**
Dagger™		PS-2195	100mg	**81405-85-8**
Dakota™		PS-2223	100mg	**71283-80-2**
Dalapon (S.G.)		F956	250mg	**75-99-0**
	100ug/mL in Acetone	F956JS	1mL	
	100ug/mL in Acetone	F956S	5mL	
Dalapon		PS-32	250mg	**75-99-0**
	100ug/mL in Methanol	PS-32AJS	1mL	
Dalapon Sodium		PS-2236	250mg	**127-20-8**
Dalapon methyl ester (S.G.)		F957	100mg	**17640-02-7**
	100ug/mL in Methanol	F957JS	1mL	
	100ug/mL in Methanol	F957S	5mL	
Dalapon methyl ester		PS-1100	100mg	**17640-02-07**
Dalf™		PS-94	250mg	**298-00-0**
Damfin™		PS-2218	100mg	**30864-28-9**
Daminozide		PS-391	250mg	**1596-84-5**
	100ug/mL in Acetonitrile	PS-391AJS	1mL	
	100ug/mL MTBE	PS-391JS	1mL	
Danitron™		PS-2216	100mg	**134098-61-6**
Dasanit™		PS-667	100mg	**115-90-2**
DATC		PS-507	100mg	**2303-16-4**
Dazomet		PS-17	250mg	**533-74-4**
Dazomet Solution	100ug/mL in Methanol	PS-17JS	1mL	
2,4-DB (S.G.)		F958	250mg	**94-82-6**
	100ug/mL in Acetone	F958JS	1mL	
	100ug/mL in Acetone	F958S	5mL	
2,4-DB		PS-306	250mg	**94-82-6**
	100ug/mL in Acetonitrile	PS-306AJS	1mL	
2,4-DB dimethylamine salt		PS-316	1g	**R**
	100ug/mL in Methanol	PS-316JS	1mL	
2,4-DB methyl ester (S.G.)		F959	100mg	**18625-12-2**
	100ug/mL in Methanol	F959JS	1mL	
	100ug/mL in Methanol	F959S	5mL	
2,4-DB methyl ester		PS-1101	100mg	**18625-12-2**
DBCP™		PS-1	250mg	**96-12-8**
DBCP		F819	250mg	**96-12-8**
DBP™		PS-900	1g	**84-74-2**
DCAA		F2035	100mg	**19719-28-9**
DCMU		PS-60	250mg	**330-54-1**
DCNA		PS-293	250mg	**99-30-9**
DCPA methyl ester™		PS-33	250mg	**1861-32-1**
DCPA		F2040	250mg	**1861-32-1**
4,4′-DDD (S.G.)		F94	250mg	**72-54-8**
	100ug/mL in Isooctane	F94JS	1mL	
	100ug/mL in Isooctane	F94S	5mL	
4,4′-DDD (ring-d8) Solution (S.G.)	100ug/mL in n-Nonane	FD94S	1.2mL	
p,p′-DDA		MET-698A	100mg	**83-05-6**
o,p′-DDD (S.G.)		F2305	250mg	**53-19-0**
	100ug/mL in Methanol	F2305JS	1mL	
	100ug/mL in Methanol	F2305S	5mL	
o,p′-DDD		PS-694	250mg	**53-19-0**
p,p′-DDD		PS-72	250mg	**72-54-8**
	100ug/mL in Acetonitrile	PS-72AJS	1mL	
o,p′-DDD olefin		MET-694A	10mg	**R**
4,4′-DDE (S.G.)		F93	100mg	**72-55-9**
	100ug/mL in Methanol	F93JS	1mL	
	100ug/mL in Methanol	F93S	5mL	
4,4′-DDE (13C12) (S.G.)		FC93-5	5mg	**R**
	100ug/mL in n-Nonane	FC93S	1.2mL	
o,p′-DDE (S.G.)		F2306	50mg	**3424-82-6**
	100ug/mL in Methanol	F2306JS	1mL	
	100ug/mL in Methanol	F2306S	5mL	
o,p′-DDE		PS-695	50mg	**3424-82-6**
o,p′-DDE (13C12) Solution (S.G.)	100ug/mL in n-Nonane	FC2306S	1.2mL	
p,p′-DDE		PS-696	100mg	**72-55-9**
p,p′-DDMU		MET-699B	10mg	**1022-22-6**
o,p′-DDT		PS-698	50mg	**789-02-6**
DDT (mixture p,p′ & o,p′)		PS-74	250mg	**8017-34-3**
	100ug/mL in Methanol	PS-74JS	1mL	
4,4′-DDT (S.G.)		F92	1g	**50-29-3**
	100ug/mL in Hexane	F92JS	1mL	
	100ug/mL in Hexane	F92S	5mL	
4,4′-DDT (13C12) (S.G.)		FC92-5	5mg	**R**
	100ug/mL in n-Nonane	FC92S	1.2mL	

Category Name	Specification	Catalog#	Size	CAS#
o,p′-DDT (S.G.)		F2307	50mg	**789-02-6**
	100ug/mL in Methanol	F2307JS	1mL	
	100ug/mL in Methanol	F2307S	5mL	
	100ug/mL in n-Nonane	FC2307S	1.2mL	
p,p′-DDT		PS-699	1g	**50-29-3**
DDT (mixture p,p′ & o,p′)		PS-74	250mg	**8017-34-3**
DDVF™		PS-89	250mg	**62-73-7**
DDVP™		PS-89	250mg	**62-73-7**
Decabromobiphenyl (S.G.)		O-2027	500mg	**13654-09-6**
Decabromodiphenyl ether		3371C	10g	**1163-19-5**
Decabromodiphenyl oxide		3371C	10g	**1163-19-5**
Decachlorobiphenyl (S.G.)		F2170	10mg	**2051-24-3**
	100ug/mL in Hexane	F2170AJS	1mL	
	100ug/mL in Hexane	F2170AS	5mL	
	500ug/mL in Acetone	F2170BJS	1mL	
	500ug/mL in Acetone	F2170BS	5mL	
	1000ug/mL in Toluene	F2170CJS	1mL	
	1000ug/mL in Toluene	F2170CS	5mL	
	1000ug/mL in Hexane	F2170JS	1mL	
	1000ug/mL in Hexane	F2170S	5mL	
Decachlorobis(2,4-cyclopentadiene-1-yl)		PS-862	250mg	**2227-17-0**
Decachloro octahydro-1,3,4-metheno-2H-cyclobuta[cd]pentalen-2-		PS-701	50mg	**143-50-0**
Decacyclene (S.G.)		F1008	1g	**191-48-0**
	100ug/mL in Toluene	F1008JS	1mL	
	100ug/mL in Toluene	F1008S	5mL	
1,9-Decadiene (S.G.)		O-2026	1g	**1647-16-1**
Decafluorobenzhydrol		3355K	100mg	**1766-76-3**
Decafluorobiphenyl (S.G.)		F904	1g	**434-90-2**
	2000ug/mL in Acetonitrile	F904AJS	1mL	
	2000ug/mL in Acetonitrile	F904AS	5mL	
	1000ug/mL in Acetone	F904BJS	1mL	
	1000ug/mL in Acetone	F904BS	5mL	
	2000ug/mL in Methylene chloride	F904JS	1mL	
	2000ug/mL in Methylene chloride	F904S	5mL	
Decafluorotriphenylphosphine (S.G.)		F834	10mg	**5074-71-5**
	2000ug/mL in Methanol	F843AJS	1mL	
	50ug/mL in Acetone	F834BJS	1mL	
	50ug/mL in Acetone	F834BS	5mL	
	50mg/L in Methylene chloride	F834CJS	1mL	
	2000ug/mL in Methylene chloride	F834JS	1mL	
	2000ug/mL in Methylene chloride	F834S	5mL	
Decafluorotriphenylphosphine oxide (S.G.)		F2456	10mg	**R**
	100ug/mL in Acetonitrile	F2456JS	1mL	
	100ug/mL in Acetonitrile	F2456S	5mL	
Decaglycerol decastearate (TECH)		S-250	10g	**39529-26-5**
Decaglycerol tetraoleate (TECH)		S-249	10g	**R**
Decahydronaphthalene (S.G.)		O-744	5g	**91-17-8**
Decahydronaphthalene (S.G.)		O-744	10g	**91-17-8**
Decahydro-2-naphthol		3363K	1g	**825-51-4**
Decalin (d18) (S.G.)		O-D744-1	1g	**91-17-8**
		O-D744-5	5g	**91-17-8**
Decalin		O-744	5g	**91-17-8**
Decamethylene diamine phenylene-1,4-diacetic acid salt (R.G.)		N-30	1g	**R**
Decamethylene diammonium adipate (R.G.)		N-40	1g	**R**
Decamethylene diammonium bis(phenylene-1,4-diacetate) (R.G.)		N-50	1g	**R**
Decamethylene diammonium sebacate (R.G.)		N-60	1g	**R**
Decamethylene diammonium terephthalate (R.G.)		N-70	1g	**R**
Decanal		O-2034	5g	**112-31-2**
n-Decane (S.G.)		F2182	1g	**124-18-5**
	100ug/mL in Methylene chloride	F2182JS	1mL	
	100ug/mL in Methylene chloride	F2182S	5mL	
n-Decane (S.G.)		O-729	1g	**124-18-5**
		O-729	5g	**124-18-5**
n-Decane (d22) (S.G.)		FD2182-1	1g	**R**
		FD2182-5	5g	**R**
1,10-Decanedicarboxylic acid		4390H	500mg	**693-23-2**
1,10-Decanediol (S.G.)		O-191	500mg	**112-47-0**
		O-191	10g	**112-47-0**
1-Decanethiol		3390	5g	**143-10-2**
Decanoic acid (S.G.)		O-11	2g	**334-48-5**
		O-11	10g	**334-48-5**
1-Decanol		O-149	10g	**112-30-1**
2-Decanol		3381F	1g	**1120-06-5**
3-Decanol		3383F	1g	**1565-81-7**
4-Decanol		3384F	1g	**2051-31-2**
5-Decanol		3385F	1g	**5205-34-5**
2-Decanone (S.G.)		O-2032	1g	**693-54-9**
Deccozil™		PS-2043	100mg	**35554-44-0**

Category Name	Specification	Catalog#	Size	CAS#
1-Decene (S.G.)		O-2033	5g	**872-05-9**
trans-3-Decene (S.G.)		O-2029	100mg	**19150-21-1**
trans-5-Decene (S.G.)		O-2031	100mg	**7433-56-9**
		O-2031	500mg	**7433-56-9**
9-Decen-1-ol		2914L	100mg	**13019-22-2**
Dechlorane™		PS-702	100mg	**2385-85-5**
Decis™		PS-2071	250mg	**52918-63-5**
Decyl alcohol (S.G.)		O-149	10g	**112-30-1**
Decyl aldehyde (S.G.)		F2327	5g	**112-31-2**
	1000ug/mL in Acetonitrile	F2327JS	1mL	
	1000ug/mL in Acetonitrile	F2327S	5mL	
Decyl aldehyde (S.G.)		O-2034	5g	**112-31-2**
Decyl aldehyde (DNPH Derivative) (S.G.)		F2345	100mg	**R**
	100ug/mL in Acetonitrile	F2345AJS	1mL	
	100ug/mL in Acetonitrile	F2345AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2345JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2345S	5mL	
n-Decylamine (S.G.)		O-2036	1g	**2016-57-1**
		O-2036	5g	**2016-57-1**
n-Decylbenzene (S.G.)		F2278	1g	**104-72-3**
	1000ug/mL in Methanol	F2278JS	1mL	
	1000ug/mL in Methanol	F2278S	5mL	
n-Decylbenzene (S.G.)		O-2035	1g	**104-72-3**
		O-2035	5g	**104-72-3**
1-Decyne (S.G.)		O-2038	1g	**764-93-2**
2-Decyne (S.G.)		O-2039	100mg	**2384-70-5**
		O-2039	500mg	**2384-70-5**
3-Decyne (S.G.)		O-2040	100mg	**2384-85-2**
		O-2040	500mg	**2384-85-2**
4-Decyne (S.G.)		O-2041	100mg	**2384-86-3**
		O-2041	500mg	**2384-86-3**
5-Decyne (S.G.)		O-2042	1g	**1942-46-7**
		O-2042	5g	**1942-46-7**
Dedevap™		PS-89	250mg	**62-73-7**
Deet		PS-902	250mg	**134-62-3**
DEET		F2284	250mg	**134-62-3**
DEF™		PS-562	250mg	**78-48-8**
DEF		F2214	250mg	**78-48-8**
Deftor™		PS-2178	250mg	**19937-59-8**
Degradation Calibration Mixture - 508	VARIED in t-Butylmethyl ether	DC-508M	5mL	
Degradation Products Mixture - 508	VARIED in t-Butylmethyl ether	DP508-1M	5mL	
Degreen		PS-562	250mg	**78-48-8**
Degreen		F2214	250mg	**78-48-8**
Dehydroabietic acid		3366K	10mg	**1740-19-8**
Dehydroabietylamine		3852A	5g	**1446-61-3**
Dehydroacetic acid (S.G.)		O-59	2g	**520-45-6**
		O-59	10g	**520-45-6**
Dehydrocholic acid		3396F	1g	**81-23-2**
Dekrysil™		PS-57	1g	**534-52-1**
Delan™		PS-2035	250mg	**3347-22-6**
Deleaf Defolliant		PS-68	250mg	**150-50-5**
		PS-68	1g	**150-50-5**
Delnav™		PS-658	100mg	**78-34-2**
Delphene™		PS-902	250mg	**134-62-3**
Delsan™		PS-24	1g	**137-26-8**
Delsene™		PS-1077	100mg	**10605-21-7**
Deltamethrin		PS-2071	250mg	**52918-63-5**
	100ug/mL in Acetonitrile	PS-2071AJS	1mL	
	100ug/mL in tert-Butyl methyl ether	PS-2071JS	1mL	
Demeton O		PS-661	100mg	**298-03-3**
	100ug/mL in Toluene	PS-661JS	1mL	
Demeton-O-methyl		PS-2347	50mg	**867-27-6**
Demeton O&S		PS-661/662	100mg	**8065-48-3**
	100ug/mL in Toluene	PS-661/662JS	1mL	
Demeton S (S.G.)		F2059	100mg	**126-75-0**
	100ug/mL in Toluene	F2059JS	1mL	
	100ug/mL in Toluene	F2059S	5mL	
Demeton S		PS-662	100mg	**126-75-0**
	100ug/mL in Acetonitrile	PS-662AJS	1mL	
Demeton-S-methyl		PS-1096	50mg	**919-86-8**
Demeton-S-methyl sulfone		PS-642	100mg	**17040-19-6**
Demeton-S-methyl sulfoxide		PS-641	50mg	**301-12-2**
Demosan™		PS-255	250mg	**2675-77-6**
Denarin™		PS-2014	100mg	**26644-46-2**
Denatonium benzoate		PS-2084	1g	**3734-33-6**
Deoxybenzoin		3400B	5g	**451-40-1**

Category Name	Specification	Catalog#	Size	CAS#
Deoxycholic acid		3405J	100mg	**83-44-3**
2-Deoxy-D-glucose		CARB-4	500mg	**154-17-6**
2-Deoxy-D-ribose		CARB-5	500mg	**533-67-5**
Depon™		PS-1088	100mg	**66441-23-4**
Derosal™		PS-1077	100mg	**10605-21-7**
Desmedipham		PS-1015	250mg	**13684-56-5**
	100ug/mL in Methanol	PS-1015JS	1mL	
Desoxycorticosterone acetate		1558L	100mg	**56-47-3**
Detal™		PS-57	1g	**534-52-1**
Detal™		PS-57	1g	**534-52-1**
Detamide™		PS-902	250mg	**134-62-3**
Dethmor™		PS-104	1g	**81-81-2**
Devarda's alloy		I-7000	1g	
Devrinol (TM) (S.G.)		F2238	250mg	**15299-99-7**
	100ug/mL in t-Butylmethyl ether	F2238JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2238S	5mL	
Dextrone X™		PS-366	500mg	**1910-42-5**
DFTPP		F834	10mg	**5074-71-5**
DFTPPO		F2456	10mg	**R**
2,7-Diacetamidofluorene (S.G.)		O-2381	100mg	**304-28-9**
Diacetin (S.G.)		O-509	2g	**25395-31-7**
Diacetonamine hydrogen oxalate hydrate		3369K	100mg	**51283-38-6**
Diacetone acrylamide homopolymer		3425C	10g	**R**
Diacetone alcohol (S.G.)		O-187	2g	**123-42-2**
		O-187	10g	**123-42-2**
1,1-Diacetoxy-2-propene		O-495	500mg	**869-29-4**
Diacetylated glycerol monostearate tartrate (TECH)		S-244	10g	**R**
m-Diacetylbenzene		3372K	100mg	**6781-42-6**
p-Diacetyl benzene		3422F	1g	**1009-61-6**
Diacetylethylenediamine		3425F	5g	**5335-91-1**
1,2-Diacetylhydrazine		1510L	1g	**3148-73-0**
N,N′-Diacetylphenylenediamine		3426J	500mg	**140-50-1**
Diafenthiuron		PS-2221	250mg	**80060-09-9**
	100ug/mL in Acetonitrile	PS-2221AJS	1mL	
	100ug/mL in Toluene	PS-2221JS	1mL	
Dialkyl adipate (mixed linear C7&C9) (TECH)		Pz-340	10g	**R**
Dialkyl phthalate linear C7-C9-C11 (TECH)		Pz-442	10g	**R**
Di-allate (S.G.)		F988	100mg	**2303-16-4**
	100ug/mL in Methanol	F988JS	1mL	
	100ug/mL in Methanol	F988S	5mL	
Di-allate		PS-507	100mg	**2303-16-4**
Diallyl adipate (S.G.)		O-468	500mg	**2998-04-1**
		O-468	5g	**2998-04-1**
Diallylamine (S.G.)		O-278	5g	**124-02-7**
		O-278	10g	**124-02-7**
N,N-Diallyl-2-chloroacetamide		PS-351	250mg	**93-71-0**
	100ug/mL in Methanol	PS-351JS	1mL	
N,N-Diallyl-2,2-dichloroacetamide		PS-2054	100mg	**37764-25-3**
Diallyl maleate (S.G.)		O-469	2g	**999-21-3**
N,N-Diallylmelamine		3429F	5g	**91-77-0**
(3,3′-Diallyloxy-2,2′-dihydroxy)dipropylamine		3432A	1g	**R**
Diallyl phthalate (S.G.)		O-519	10g	**131-17-9**
Diallyl sebacate		3437J	1g	**R**
Diallyl sulfide (S.G.)		O-2037	1g	**592-88-1**
N,N′-Diallyltartardiamide		2716L	250mg	**58477-85-3**
Diallyl terephthalate		3438E	2.5g	**R**
3,6-Diaminoacridine hydrochloride		3431F	1g	**952-23-8**
2,6-Diaminoanthraquinone (S.G.)		O-2382	5g	**131-14-6**
2,5-Diaminobenzenesulfonic acid		1792L	1g	**88-45-9**
3,3′-Diaminobenzidine (S.G.)		O-2383	250mg	**91-95-2**
3,3′-Diaminobenzidine hydrochloride		3435E	1g	**7411-49-6**
3,4-Diaminobenzoic acid		3437F	1g	**619-05-6**
3,5-Diaminobenzoic acid		3440	5g	**535-87-5**
3,5-Diaminobenzoic acid dihydrochloride		3439F	1g	**618-56-4**
1,4-Diaminobutane		3451A	10g	**110-60-1**
1,4-Diaminobutane dihydrochloride		3450	10g	**333-93-7**
1,10-Diaminodecane		3472H	1g	**646-25-3**
2,2-Diaminodiethylamine		O-324	10g	**111-40-0**
6,7-Diamino-dihydroxyquinoxaline dihydrochloride monohydrate		3453E	100mg	**R**
3,5-Diamino-2,6-dimethyoxy pyridine dihydrochloride		3378K	10mg	**R**
2,4-Diaminodiphenylamine		3460	10g	**136-17-4**
4,4′-Diaminodiphenylaminesulfate		3465	5g	**6369-04-6**

Category Name	Specification	Catalog#	Size	CAS#
4,4′-Diaminodiphenylmethane		0-349	2g	**101-77-9**
3,3′-Diaminodiphenylsulfone		3461A	5g	**599-61-1**
4,4′-Diaminodiphenyl sulfone		3455J	1g	**80-08-0**
3,3′-Diaminodipropylamine (S.G.)		0-323	2g	**56-18-8**
		0-323	10g	**56-18-8**
1,12-Diaminododecane		3467E	5g	**2783-17-7**
3,6-Diaminodurene		3229L	100mg	
2,7-Diamino-10-ethyl-9-phenylphenanthridinium bromide		3463H	100mg	**1239-45-8**
2,7-Diaminofluorene (S.G.)		0-2384	50mg	**525-64-4**
N′,N′-Diaminoguanidine monohydrochloride		3457F	1g	**36062-19-8**
4,5-Diamino-6-hydroxy-2-mercaptopyrimidine		3381K	1g	**1004-76-8**
2,4-Diamino-6-hydroxypyrimidine monohydrate		1786L	1g	**56-06-4**
Diaminomaleonitrile		3384K	1g	**1187-42-4**
4,6-Diamino-2-mercaptopyrimidine		3387K	1g	**1004-39-3**
1,5-Diaminonaphthalene (S.G.)		0-2386	1g	**2243-62-1**
1,8-Diaminonaphthalene (S.G.)		0-2387	10g	**479-27-6**
2,3-Diaminonaphthalene (S.G.)		0-2388	100mg	**771-97-1**
1,5-Diaminopentane		3482H	500mg	**462-94-2**
9,10-Diaminophenanthrene (S.G.)		0-2389	100mg	**53348-04-2**
2,4-Diaminophenol dihydrochloride		3470	10g	**137-09-7**
1,2-Diaminopropane		0-332	5g	**78-90-0**
1,3-Diaminopropane		3472J	1g	**109-76-2**
1,3-Diamino-2-propanol		3390K	10mg	**616-29-5**
2,3-Diaminopropionic acid monohydrochloride		3473F	100mg	**1482-97-9**
2,6-Diaminopurine sulfate		3474J	100mg	**7280-83-3**
2,3-Diaminopyridine		3393K	10mg	**452-58-4**
2,6-Diaminopyridine		3478A	10g	**141-86-6**
3,4-Diaminopyridine		3396K	10mg	**54-96-6**
4,6-Diaminopyrimidine sulfate		1789L	1g	**R**
4,4′-Diaminostilbene dihydrochloride		1429L	100mg	**54760-75-7**
4,4′-Diaminostilbene-2,2′-disulfonic acid		3497H	1g	**81-11-8**
2,4-Diaminotoluene (S.G.)		F2102	5g	**95-80-7**
	100ug/mL in Toluene	F2102JS	1mL	
	100ug/mL in Toluene	F2102S	5mL	
2,4-Diaminotoluene (TECH)		0u-46	3g	**95-80-7**
		0u-46	10g	**95-80-7**
2,6-Diaminotoluene (S.G.)		F2417	1g	**823-40-5**
3,4-Diaminotoluene (S.G.)		0-2390	5g	**496-72-0**
2,5-Diaminotoluene sulfate		3492E	10g	**615-50-9**
3,5-Diamino-1,2,4-triazole		1846L	1g	**1455-77-2**
Diamond Arsonate Liquid™		PS-429	100mg	**2163-80-6**
2,5-Di-tert-amylhydroquinone (S.G.)		0-903	500mg	**79-74-3**
		0-903	5g	**79-74-3**
2,5-Di-tert-amylhydroquinone (TECH)		0u-6	3g	**79-74-3**
		0u-6	10g	**79-74-3**
Diamyl phthalate (S.G.)		F2263	500mg	**131-18-0**
	5000ug/mL in Acetone	F2263JS	1mL	
	5000ug/mL in Acetone	F2263S	5mL	
Diamyl phthalate (S.G.)		0-520	500mg	**131-18-0**
		0-520	5g	**131-18-0**
Diamyl phthalate (S.G.)		Pt-16	5g	**131-18-0**
Diamyl phthalate (TECH)		Pz-46	10g	**131-18-0**
Dianisyl trichloroethane		PS-83	250mg	**72-43-5**
1,4-Diazabicyclo[2,2,2]-octane		3506J	1g	**280-57-9**
Diazinon (S.G.)		F2060	250mg	**333-41-5**
	100ug/mL in Toluene	F2060JS	1mL	
	100ug/mL in Toluene	F2060S	5mL	
Diazinon		PS-90	250mg	**333-41-5**
Diazinon (diethyl-d10) Solution (S.G.)	100ug/mL in n-Nonane	FD2060S	1.2mL	
Diazinon-O-analog		MET-90A	100mg	**962-58-3**
Dibavit™		PS-2175	250mg	**67747-09-5**
Dibenz(a,h)acridine (S.G.)		F2490	10mg	**226-36-8**
	100ug/mL in Methanol	F2490JS	1mL	
	100ug/mL in Methanol	F2490S	5mL	
Dibenz(a,j)acridine (S.G.)		F2247	10mg	**224-42-0**
	100ug/mL in Toluene	F2247JS	1mL	
	100ug/mL in Toluene	F2247S	5mL	
Dibenz(a,j)acridine (d13) Solution (S.G.)	50ug/mL in Toluene	FD2247S	1.2mL	
Di-o-benzamidodiphenyldisulfide (TECH)		Pz-142	10g	**135-57-9**
1,2:3,4-Dibenzanthracene (S.G.)		F1009	10mg	**215-58-7**
	100ug/mL in Toluene	F1009JS	1mL	
	100ug/mL in Toluene	F1009S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
1,2:5,6-Dibenzanthracene (S.G.)		F82	10mg	**53-70-3**
	100ug/mL in Toluene	F82JS	1mL	
	100ug/mL in Toluene	F82S	5mL	
	100ug/mL in Methanol	F82MJS	1mL	
	100ug/mL in Methanol	F82MS	5mL	
Dibenz[a,h]anthracene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC82S	1.2mL	
Dibenz[a,h]anthracene (d14) (S.G.)		FD82-A	0.1g	**R**
	200ug/mL in Toluene	FD82S	1.2mL	
Dibenz(a,c)anthracene		F1009	10mg	**215-58-7**
Dibenz(a,h)anthracene		F82	10mg	**53-70-3**
2,4′-Dibenzeneazo-resorcinol		3505B	1g	**R**
Dibenzo-18-crown-6		3501F	1g	**14187-32-7**
Dibenzo-p-dioxane		3405K	10mg	**R**
Dibenzo-p-dioxane (13C12) Solution (S.G.)	50ug/mL in n-Nonane	FC7003S	1.2mL	
Dibenzo-p-dioxin (S.G.)		3505G	25mg	**262-12-4**
	50ug/mL in Toluene	3505GS	1mL	
Dibenzofuran (S.G.)		F707	2g	**132-64-9**
	100ug/mL in Methanol	F707JS	1mL	
	100ug/mL in Methanol	F707S	5mL	
Dibenzofuran (S.G.)		0-585	2g	**132-64-9**
		0-585	10g	**132-64-9**
Dibenzofuran (13C12) Solution (S.G.)	50ug/mL in n-Nonane	FC707S	1.2mL	
Dibenzofuran (d8) (S.G.)		FD707-D	0.05g	**R**
Dibenzosuberone		3503F	1g	**1210-35-1**
Dibenzo-1,4-thiazine		PS-733	1g	**92-84-2**
Dibenzothiophene (S.G.)		F2171	1g	**132-65-0**
	100ug/mL in Acetone	F2171JS	1mL	
	100ug/mL in Acetone	F2171S	5mL	
Dibenzothiophene (d8) (S.G.)		FD2171-A	0.1g	**R**
Dibenzoyl disulfide		3408K	1g	**R**
cis-1,2-Dibenzoylethylene		3525J	200mg	**R**
Dibenzoyl hydrazine (symmetrical)		3530H	1g	**787-84-8**
1,2:4,5-Dibenzpyrene (S.G.)		F1010	10mg	**192-65-4**
	100ug/mL in Toluene	F1010JS	1mL	
	100ug/mL in Toluene	F1010S	5mL	
1,2:4,5-Dibenzpyrene (13C6)	100ug/mL in n-Nonane	FC1010S	1.2mL	
1,2:7,8-Dibenzpyrene Solution	100ug/mL in Toluene	F1011JS	1mL	
	100ug/mL in Toluene	F1011S	5mL	
Dibenzo[a,i]pyrene (13C12)	100ug/mL in n-Nonane	FC1011S	1.2mL	
1,2:6,7-Dibenzpyrene (S.G.)		0-2372	10mg	**189-64-0**
Dibenz(a,e)pyrene		F1010	10mg	**192-65-4**
Dibenz(a,h)pyrene		0-2372	10mg	**189-64-0**
Dibenz(a,i)pyrene	100ug/mL in Toluene	F1011JS	1mL	
Dibenzyl		0-761	1g	**103-29-7**
Dibenzylamine (S.G.)		0-338	2g	**103-49-1**
		0-338	10g	**103-49-1**
9,10-Dibenzylanthracene (S.G.)		0-2355	10mg	**3613-42-1**
N,N′-Dibenzyldithiooxamide		3510	5g	**122-65-6**
N,N′-Dibenzylidenebenzidine		1438L	10mg	**R**
3,4-Dibenzyloxybenzaldehyde		1432L	1g	**5447-02-9**
1,2-Dibenzyloxyethane		3530	5g	**622-22-0**
Dibenzyl phosphite		1417L	1g	**17176-77-1**
Dibenzyl phthalate (S.G.)		F1092	1g	**523-31-9**
	100ug/mL in Hexane	F1092JS	1mL	
	100ug/mL in Hexane	F1092S	5mL	
Dibenzyl sebacate (TECH)		Pz-63	10g	**140-24-9**
Dibenzyl succinate (S.G.)		F2276	1g	**103-43-5**
	5000ug/mL in Methylene chloride	F2276JS	1mL	
	5000ug/mL in Methylene chloride	F2276S	5mL	
Dibenzyl succinate (S.G.)		0-521	1g	**103-43-5**
		0-521	5g	**103-43-5**
Dibenzyltin dilaurate		3538E	1g	**51541-60-7**
Dibrom (S.G.)		F2067	250mg	**300-76-5**
	100ug/mL in Toluene	F2067JS	1mL	
	100ug/mL in Toluene	F2067S	5mL	
Dibromoacetic acid (S.G.)		F2033	1g	**631-64-1**
	100ug/mL in t-Butylmethyl ether	F2033JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2033S	5mL	
Dibromoacetonitrile (S.G.)		F2024	1g	**3252-43-5**
	100ug/mL in Acetone	F2024JS	1mL	
	100ug/mL in Acetone	F2024S	5mL	
2,4′-Dibromoacetophenone		3540	10g	**99-73-0**
2,4-Dibromoaniline		3542C	1g	**615-57-6**
9,10-Dibromoanthracene (S.G.)		0-2356	1g	**523-27-3**
m-Dibromobenzene		3543F	1g	**108-36-1**
p-Dibromobenzene (S.G.)		0-675	2g	**106-37-6**
		0-675	10g	**106-37-6**
2,5-Dibromobenzoic acid		3544F	1g	**610-71-9**

Category Name	Specification	Catalog#	Size	CAS#
2,6-Dibromo-p-benzoquinone		3414K	10mg	**R**
2,5-Dibromobenzotrifluoride		3451C	10g	**R**
2,2′-Dibromobiphenyl (S.G.)		3542G	50mg	**13029-09-9**
	100ug/mL in Hexane	3542GS	2mL	
2,4-Dibromobiphenyl (S.G.)		3543G	15mg	**53592-10-2**
	100ug/mL in Hexane	3543GS	2mL	
2,5-Dibromobiphenyl (S.G.)		3544G	15mg	**57422-77-2**
	100ug/mL in Hexane	3544GS	2mL	
2,6-Dibromobiphenyl (S.G.)		3540G	5mg	**59080-32-9**
	100ug/mL in Hexane	3540GS	2mL	
4,4′-Dibromobiphenyl (S.G.)		0-676	500mg	**92-86-4**
		0-676	5g	**92-86-4**
4,4′-Dibromobiphenyl (S.G.)		F2172	500mg	**92-86-4**
	100ug/mL in Hexane	F2172AJS	1mL	
	100ug/mL in Hexane	F2172AS	5mL	
	2000ug/mL in Ethyl acetate	F2172BJS	1mL	
	2000ug/mL in Ethyl acetate	F2172BS	5mL	
	1000ug/mL in Methylene chloride	F2172JS	1mL	
	1000ug/mL in Methylene chloride	F2172S	5mL	
1,3-Dibromobutane		3490H	1g	**107-80-2**
1,4-Dibromobutane (S.G.)		0-631	2g	**110-52-1**
		0-631	10g	**110-52-1**
trans-2,3-Dibromo-2-butene-1,4-diol		3543B	10g	**3234-02-4**
1,2-Dibromo-3-chloropropane (S.G.)		F819	250mg	**96-12-8**
	100ug/mL in Methanol	F819JS	1mL	
	100ug/mL in Methanol	F819S	5mL	
1,2-Dibromo-3-chloropropane		PS-1	250mg	**96-12-8**
4,6-Dibromo-o-cresol (S.G.)		0-2410	1g	**609-22-3**
trans-1,2-Dibromocyclohexane		3550	10g	**7429-37-0**
1,10-Dibromodecane (R.G.)		3450F	1g	**4101-68-2**
Dibromodibutendiol diacetate		3552B	10g	**R**
1,2-Dibromo-1,1-dichloroethane (S.G.)		0-632	1g	**75-81-0**
		0-632	10g	**75-81-0**
1,2-Dibromo-2,2-dichloroethyl dimethylphosphate		PS-605	250mg	**300-76-5**
Dibromoethane		PS-154	1g	**106-93-4**
1,2-Dibromoethane (S.G.)		F820	1g	**106-93-4**
	100ug/mL in Methanol	F820JS	1mL	
	100ug/mL in Methanol	F820S	5mL	
1,2-Dibromoethane		0-641	1g	**106-93-4**
1,2-Dibromoethane		PS-154	1g	**106-93-4**
1,2-Dibromoethane (1,2-13C2) (S.G.)		FC820-1	1g	**R**
		FC820-A	0.1g	**R**
1,2-Dibromoethane (d4) (S.G.)		FD820-10	10g	**R**
1,2-Dibromoethylene		3417K	1g	**540-49-8**
Dibromofluoroescein/C,I,#45370		BS-64	1g	**596-03-2**
Dibromofluoromethane Solution (S.G.)		F953JS	1mL	
1,6-Dibromohexane		3550B	10g	**629-03-8**
2,5-Dibromohexane		3553B	10g	**24774-58-1**
3,5-Dibromo-4-hydroxybenzonitrile		PS-426	250mg	**1689-84-5**
3,5-Dibromo-4-hydroxybenzonitrile, octanoic acid ester		PS-434	250mg	**1689-99-2**
3,5-Dibromo-4-hydroxyphenyl cyanide		PS-426	250mg	**1689-84-5**
Dibromomethane (S.G.)		F808	5g	**74-95-3**
	100ug/mL in Methanol	F808JS	1mL	
	100ug/mL in Methanol	F808S	5mL	
Dibromomethane (S.G.)		0-633	10g	**74-95-3**
1,4-Dibromonaphthalene (S.G.)		F2251	100mg	**83-53-4**
	1000ug/mL in Acetonitrile	F2251JS	1mL	
	1000ug/mL in Acetonitrile	F2251S	5mL	
2,6-Dibromo-2-naphthol		3556A	5g	**R**
Dibromoneopentylene bis(diphenylphosphate)		3557A	10g	**R**
2,6-Dibromo-4-nitroaniline (S.G.)		F2505	1g	**827-94-1**
	1000ug/mL in Toluene	F2505JS	1mL	
	1000ug/mL in Toluene	F2505S	5mL	
4,4′-Dibromooctafluorobiphenyl (S.G.)		F905	100mg	**10386-84-2**
	100ug/mL in t-Butylmethyl ether	F905AJS	1mL	
	100ug/mL in t-Butylmethyl ether	F905AS	5mL	
	5000ug/mL in Methanol	F905BJS	1mL	
	5000ug/mL in Methanol	F905BS	5mL	
	2000ug/mL in t-Butylmethyl ether	F905CJS	1mL	
	2000ug/mL in t-Butylmethyl ether	F905CS	5mL	
	2000ug/mL in Methylene chloride	F905JS	1mL	
	2000ug/mL in Methylene chloride	F905S	5mL	
1,5-Dibromopentane		3555B	10g	**111-24-0**
2,4-Dibromophenol (S.G.)		F2496	5g	**615-58-7**
	1000ug/mL in Isooctane	F2496JS	1mL	
	1000ug/mL in Isooctane	F2496S	5mL	
2,6-Dibromophenol (R.G.)		3431K	10mg	**608-33-3**
4,5-Dibromo-2-phenylimidazole		3467F	1g	**R**

Category Name	Specification	Catalog#	Size	CAS#
1,2-Dibromopropane (S.G.)		F2562	2g	**78-75-1**
	10,000ug/mL in Hexane	F2562JS	1mL	
	10,000ug/mL in Hexane	F2562S	5mL	
1,2-Dibromopropane (S.G.)		0-634	2g	**78-75-1**
		0-634	5g	**78-75-1**
1,3-Dibromopropane (S.G.)		0-635	1g	**109-64-8**
		0-635	10g	**109-64-8**
1,3-Dibromo-2-propanol		3471F	1g	**96-21-9**
2,3-Dibromo-1-propanol (S.G.)		0-183	2g	**96-13-9**
		0-183	10g	**96-13-9**
2,3-Dibromopropionamide (S.G.)		F2302	1g	**15102-42-8**
	100ug/mL in Acetonitrile	F2302S	5mL	
	100ug/mL in Acetonitrile	F2302JS	1mL	
2,3-Dibromopropionic acid (S.G.)		F2286	5g	**600-05-5**
	2000ug/mL in t-Butylmethyl ether	F2286JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2286S	5mL	
2,3-Dibromopropionic acid methyl ester (S.G.)		F2446	1g	**1729-67-5**
	2000ug/mL in t-Butylmethyl ether	F2446JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2446S	5mL	
Dibromopropyl carbamate		3555C	10g	**R**
2,5-Dibromopyridine		3437K	100mg	**624-28-2**
2,6-Dibromopyridine		3434K	1g	**626-05-1**
2,6-Dibromoquinone-4-chloroimide		3440K	100mg	**537-45-1**
3,5-Dibromosalicylic acid		3557B	1g	**3147-55-5**
2,3-Dibromosuccinic acid		3558B	10g	**526-78-3**
1,4-Dibromo-2,3,5,6-tetramethylbenzene		3556E	500mg	**1646-54-4**
2,5-Dibromothiophene (S.G.)		0-719	500mg	**3141-27-3**
		0-719	5g	**3141-27-3**
2,5-Dibromotoluene (S.G.)		F1094	1g	**615-59-8**
	5000ug/mL in Methanol	F1094AJS	1mL	
	5000ug/mL in Methanol	F1094AS	5mL	
	100ug/mL in Hexane	F1094JS	1mL	
	100ug/mL in Hexane	F1094S	5mL	
3-(2,2-Dibromovinyl)-2,2-dimethyl-		MET-2071A	10mg	**63597-73-9**
(1-cyclopropane)carboxylic acid (cis isomer)	100ug/mL in Methanol	MET-2071B	1mL	**63597-73-9**
2,5-Dibromo-p-xylene		3558E	5g	**1074-24-4**
a,a′-Dibromo-m-xylene (S.G.)		F1096	1g	**626-15-3**
	100ug/mL in Hexane	F1096JS	1mL	
	100ug/mL in Hexane	F1096S	5mL	
a,a′-Dibromo-o-xylene		3559A	5g	**91-13-4**
a,a′-Dibromo-p-xylene		3557	5g	**623-24-5**
p-Dibutoxybenzene (S.G.)		0-586	1g	**104-36-9**
		0-586	5g	**104-36-9**
N,N-Dibutylacetamide		1555B	1g	**1563-90-2**
Dibutyl adipate (S.G.)		0-471	500mg	**105-99-7**
		0-471	5g	**105-99-7**
Dibutyl adipate (TECH)		Pz-23	10g	**105-99-7**
Dibutylamine (S.G.)		0-279	5g	**111-92-2**
2-Dibutylaminoethanol (S.G.)		0-304	2g	**102-81-8**
3-Di-n-butylamino-1-propanol		3559F	1g	**R**
3,5-Di-tert-butyl-o-benzoquinone		2674L	100mg	**3383-21-9**
Dibutyl carbonate (S.G.)		0-394	500mg	**542-52-9**
		0-394	5g	**542-52-9**
Dibutyl carbonate (TECH)		Pz-32	10g	**542-52-9**
Dibutyl chlorendate (S.G.)		F850	1g	**1770-80-5**
	2000ug/mL in Acetone	F850AJS	1mL	
	2000ug/mL in Acetone	F850AS	5mL	
	1000ug/mL in Methylene chloride	F850JS	1mL	
	1000ug/mL in Methylene chloride	F850S	5mL	
2,6-Di-tert-butyl-p-cresol (S.G.)		0-873	5g	**128-37-0**
		0-873	10g	**128-37-0**
2,6-Di-tert-butyl-(a-dimethylamino)-p-cresol (TECH)		0u-24	3g	**R**
		0u-24	10g	**R**
2,6-Di-tert-butyl-4-ethylphenol		3214L	1g	**4130-42-1**
Dibutyl fumarate (S.G.)		0-472	5g	**105-75-9**
		0-472	10g	**105-75-9**
Dibutyl fumarate (TECH)		Pz-35	10g	**105-75-9**
2,5-Di-tert-butylhydroquinone (S.G.)		0-904	2g	**88-58-4**
		0-904	10g	**88-58-4**
2,5-Di-tert-butylhydroquinone (TECH)		0u-7	3g	**88-58-4**
		0u-7	10g	**88-58-4**
3-5-Di-tert-butyl-4-hydroxybenzoic acid		3600	10g	**1421-49-4**
Dibutyl maleate (S.G.)		0-473	5g	**105-76-0**
Dibutyl maleate (TECH)		Pz-39	10g	**105-76-0**
2,6-Di-tert-butyl-4-methylphenol (TECH)		0u-8	3g	**128-37-0**
		0u-8	10g	**128-37-0**
2,6-Di-t-butyl-4-methylphenyl N-methylcarbamate		PS-550	100mg	**1918-11-2**
2,6-Di-tert-butylnaphthalene (S.G.)		0-2358	100mg	**3905-64-4**
Di-tert-butyl nitroxide		2338L	25mg	**2406-25-9**

Category Name	Specification	Catalog#	Size	CAS#
Dibutyl oxalate (S.G.)		O-474	1g	**2050-60-4**
		O-474	10g	**2050-60-4**
Dibutyl oxalate (TECH)		Pz-342	10g	**2050-60-4**
2,6-Di-tert-butylphenol (TECH)		0u-9	3g	**128-39-2**
		0u-9	10g	**128-39-2**
Dibutylphosphate (S.G.)		F2397	5g	**107-66-4**
Dibutyl phosphite (S.G.)		O-913	1g	**1809-19-4**
Di-n-butyl phthalate (S.G.)		F68	1g	**84-74-2**
	100ug/mL in Hexane	F68JS	1mL	
	100ug/mL in Hexane	F68JS	1mL	
	100ug/mL in Hexane	F68S	5mL	
Di-n-butyl phthalate (S.G.)		O-518	10g	**84-74-2**
Di-n-butylphthalate		PS-900	1g	**84-74-2**
	100ug/mL in Acetonitrile	PS-900AJS	1mL	
Dibutylphthalate		PS-900	1g	**84-74-2**
Dibutyl phthalate (S.G.)		Pt-17	10g	**84-74-2**
Dibutyl phthalate (TECH)		Pz-44	10g	**84-74-2**
Di-n-butyl phthalate (ring-d4) (S.G.)		FD68-A	0.1g	**R**
		FD68-C	0.25g	**R**
	100ug/mL in n-Nonane	FD68S	1.2mL	
Dibutyl sebacate (S.G.)		F2267	5g	**109-43-3**
	5000ug/mL in Methylene chloride	F2267JS	1mL	
	5000ug/mL in Methylene chloride	F2267S	5mL	
Dibutyl sebacate (S.G.)		O-475	5g	**109-43-3**
Dibutyl sebacate (TECH)		Pz-61	10g	**109-43-3**
Dibutyl succinate (S.G.)		O-476	500mg	**141-03-7**
		O-476	5g	**141-03-7**
Dibutyl succinate		PS-903	1g	**141-03-7**
	100ug/mL in Acetonitrile	PS-903AJS	1mL	
	100ug/mL in Toluene	PS-903JS	1mL	
Dibutyl succinate (TECH)		Pz-69	10g	**141-03-7**
Di-n-butyl sulfide (S.G.)		O-2044	5g	**544-40-1**
		O-2044	10g	**544-40-1**
Di-n-butyl-4,4′-sulfonyldibenzoate		3621A	10g	**R**
Dibutyl-D-tartrate (S.G.)		O-510	5g	**87-92-3**
Dibutyl tartrate (TECH)		Pz-70	10g	**87-92-3**
1,3-Dibutyl-2-thiourea (S.G.)		O-985	2g	**109-46-6**
		O-985	5g	**109-46-6**
1,3-Dibutyl-2-thiourea (TECH)		0u-57	3g	**109-46-6**
		0u-57	10g	**109-46-6**
Dibutyltin diacetate (S.G.)		O-993	1g	**1067-33-0**
Dibutyltin dichloride (S.G.)		O-994	1g	**683-18-1**
		O-994	10g	**683-18-1**
Dibutyltin diethylhexoate (TECH)		Pz-159	10g	**2781-10-4**
Dibutyltin dilaurate (TECH)		0u-64	3g	**77-58-7**
		0u-64	10g	**77-58-7**
Dibutyltin dilaurate (TECH)		Pz-160	10g	**77-58-7**
Dibutyltin dioleate (TECH)		0u-65	3g	**13323-62-1**
		0u-65	10g	**13323-62-1**
Dibutyltin distearate (TECH)		0u-66	3g	**5847-55-2**
		0u-66	10g	**5847-55-2**
Dibutyltin maleate (TECH)		0u-67	3g	**78-04-6**
		0u-67	10g	**78-04-6**
Dibutyltin maleate (TECH)		Pz-158	10g	**78-04-6**
Dibutyltin oxide		3640	10g	**818-08-6**
2,6-Di-t-butyl-p-tolyl-methylcarbamate		PS-550	100mg	**1918-11-2**
DIC 1468™		PS-398	250mg	**21087-64-9**
Dicamba (S.G.)		F960	250mg	**1918-00-9**
	100ug/mL in Acetone	F960JS	1mL	
	100ug/mL in Acetone	F960S	5mL	
Dicamba		PS-346	250mg	**1918-00-9**
	100ug/mL in Acetonitrile	PS-346AJS	1mL	
Dicamba methyl ester (S.G.)		F961	100mg	**6597-78-0**
	100ug/mL in Methanol	F961JS	1mL	
	100ug/mL in Methanol	F961S	5mL	
Dicamba methyl ester		PS-1102	100mg	**6597-78-0**
Dicapryl adipate		2750B	10g	**R**
Dicapryl phthalate (TECH)		Pz-1000	10g	**R**
Dicapthon		PS-669	1g	**2463-84-5**
	100ug/mL in Acetonitrile	PS-669AJS	1mL	
	100ug/mL in Toluene	PS-669JS	1mL	
S-[1,2-Dicarbethoxyethyl]-0,0-dimethyl-dithiophosphate		PS-86	500mg	**121-75-5**
Dicestal™		PS-6	250mg	**97-23-4**
Dichlobenil		PS-392	250mg	**1194-65-6**
	100ug/mL in Acetonitrile	PS-103AJS	1mL	
Dichlofenthion (S.G.)		F2422	250mg	**97-17-6**
	1000ug/mL in Hexane	F2422JS	1mL	
	1000ug/mL in Hexane	F2422S	5mL	
Dichlofenthion		PS-103	250mg	**97-17-6**

Category Name	Specification	Catalog#	Size	CAS#
Dichlofluanid		PS-2047	250mg	**1085-98-9**
	100ug/mL in Acetonitrile	PS-2047AJS	1mL	
	100ug/mL in Toluene	PS-2047JS	1mL	
Dichlone (S.G.)		F2103	250mg	**117-80-6**
	100ug/mL in Toluene	F2103JS	1mL	
	100ug/mL in Toluene	F2103S	5mL	
Dichlone		PS-12	250mg	**117-80-6**
		PS-12JS	1mL	
Dichloran™		PS-293	250mg	**99-30-9**
Dichloran		F2290	250mg	**99-30-9**
Di-chloricide™		PS-3	1g	**106-46-7**
Dichlormid		PS-2054	100mg	**37764-25-3**
	100ug/mL in Acetonitrile	PS-2054AJS	1mL	
	100ug/mL in Toluene	PS-2054JS	1mL	
Dichloroacetaldehyde diethyl acetal		3656F	1g	**619-33-0**
2,2-Dichloroacetamide		3659F	1g	**683-72-7**
Dichloroacetic acid (S.G.)		F2083	5g	**79-43-6**
	100ug/mL in t-Butylmethyl ether	F2083JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2083S	5mL	
Dichloroacetic acid (S.G.)		O-45	5g	**79-43-6**
1,1-Dichloroacetone (S.G.)		F2026	1g	**513-88-2**
	100ug/mL in Acetone	F2026JS	1mL	
	100ug/mL in Acetone	F2026S	5mL	
1,3-Dichloroacetone		3470K	1g	**534-07-6**
Dichloroacetonitrile (S.G.)		F2025	1g	**3018-12-0**
	100ug/mL in Acetone	F2025JS	1mL	
	100ug/mL in Acetone	F2025S	5mL	
2′,5′-Dichloroacetophenone		3473K	100mg	**2476-37-1**
3′,4′-Dichloroacetophenone		3661F	1g	**2642-63-9**
S-[2,3-Dichloroallyl]-N,N′-diisopropyl thiocarbamate		PS-507	100mg	**2303-16-4**
2,3-Dichloroaniline		3476K	1g	**608-27-5**
2,4-Dichloroaniline		MET-2243A	1g	**554-00-7**
2,5-Dichloroaniline (S.G.)		O-365	5g	**95-82-9**
		O-365	10g	**95-82-9**
2,6-Dichloroaniline		3658D	5g	**608-31-1**
3,4-Dichloroaniline (S.G.)		F2506	5g	**95-76-1**
	1000ug/mL in Toluene	F2506JS	1mL	
	1000ug/mL in Toluene	F2506S	5mL	
3,4-Dichloroaniline		MET-372A	1g	**95-76-1**
3,4-Dichloroaniline (S.G.)		O-366	5g	**95-76-1**
		O-366	10g	**95-76-1**
3,4-Dichloroaniline (13C6) (S.G.)		FC2506-1	1mg	**R**
3,5-Dichloroaniline		MET-1052B	250mg	**626-43-7**
3,6-Dichloro-o-anisic acid		PS-346	250mg	**1918-00-9**
2,4-Dichloroanisole (S.G.)		F2032	100mg	**553-82-2**
	100ug/mL in t-Butylmethyl ether	F2032JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2032S	5mL	
2,6-Dichloroanisole		3485K	1g	**1984-65-2**
2,6-Dichlorobenzalchloride		8905K	1g	**81-19-6**
2,4-Dichlorobenzaldehyde		3660	10g	**874-42-0**
2,6-Dichlorobenzaldehyde		3671F	1g	**83-38-5**
3,4-Dichlorobenzaldehyde		3661B	10g	**6287-38-3**
2,6-Dichlorobenzamide		MET-392B	1g	**2008-58-4**
o-Dichlorobenzene		PS-2	1g	**95-50-1**
p-Dichlorobenzene		PS-3	1g	**106-46-7**
1,2-Dichlorobenzene (S.G.)		F25	5g	**95-50-1**
	100ug/mL in Methanol	F25JS	1mL	
	100ug/mL in Methanol	F25S	5mL	
1,2-Dichlorobenzene (S.G.)		O-677	10g	**95-50-1**
1,2-Dichlorobenzene-d4 (S.G.)		F835	100mg	**2199-69-1**
	2000ug/mL in Methanol	F835JS	1mL	
	2000ug/mL in Methanol	F835S	5mL	
1,3-Dichlorobenzene (S.G.)		F26	2.5g	**541-73-1**
	100ug/mL in Methanol	F26JS	1mL	
	100ug/mL in Methanol	F26S	5mL	
1,3-Dichlorobenzene (S.G.)		O-678	2g	**541-73-1**
		O-678	5g	**541-73-1**
1,4-Dichlorobenzene (S.G.)		F27	5g	**106-46-7**
	100ug/mL in Methanol	F27JS	1mL	
	100ug/mL in Methanol	F27S	5mL	
1,4-Dichlorobenzene (S.G.)		O-679	5g	**106-46-7**
		O-679	10g	**106-46-7**
1,4-Dichlorobenzene		PS-3	1g	**106-46-7**
1,4-Dichlorobenzene-d4 (S.G.)		F740	100mg	**3855-82-1**
	2000ug/mL in Methanol	F740JS	1mL	
	2000ug/mL in Methanol	F740S	5mL	
2,5-Dichlorobenzenesulfonic acid		3668E	5g	**88-42-6**
3,4-Dichlorobenzene thiol		3500K	10mg	**5858-17-3**
4,4′-Dichlorobenzhydrol		MET-854A	1g	**90-97-1**

Category Name	Specification	Catalog#	Size	CAS#
3,3′-Dichlorobenzidine (S.G.)		F28	100mg	**91-94-1**
	100ug/mL in Methanol	F28JS	1mL	
	100ug/mL in Methanol	F28S	5mL	
3,3′-Dichlorobenzidine (ring-d6)	1000ug/mL in Benzene	FD28S	1.2mL	
3,3′-Dichlorobenzidine dihydrochloride (S.G.)		F945	100mg	**612-83-9**
	100ug/mL in Methanol	F945JS	1mL	
	100ug/mL in Methanol	F945S	5mL	
2,3-Dichlorobenzoic acid		3509K	10mg	**50-45-3**
2,4-Dichlorobenzoic acid		3665B	10g	**50-84-0**
2,5-Dichlorobenzoic acid		3682F	1g	**50-79-3**
2,6-Dichlorobenzoic acid		MET-392A	1g	**50-30-6**
3,4-Dichlorobenzoic acid		3678F	10g	**51-44-5**
3,5-Dichlorobenzoic acid (S.G.)		F2034	1g	**51-36-5**
	2000ug/mL in t-Butylmethyl ether	F2034JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2034S	5mL	
3,5-Dichlorobenzoic acid		PS-1107	1g	**51-36-5**
	100ug/mL in Acetonitrile	PS-1107AJS	1mL	
2,6-Dichlorobenzoic acid methyl ester		MET-392C	250mg	**R**
3,5-Dichlorobenzoic acid methyl ester (S.G.)		F2223	100mg	**2905-67-1**
	2000ug/mL in t-Butylmethyl ether	F2223JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2223S	5mL	
3,5-Dichlorobenzoic acid methyl ester		PS-1114	100mg	**2905-67-1**
	100ug/mL in Acetonitrile	PS-1114AJS	1mL	
2,6-Dichlorobenzonitrile		PS-392	250mg	**1194-65-6**
	100ug/mL in Methanol	PS-392JS	1mL	
4,4′-Dichlorobenzophenone		MET-854B	100mg	**90-98-2**
2,5-Dichloro-p-benzoquinone		3518K	10mg	**615-93-0**
2,6-Dichloro-p-benzoquinone		3521K	100mg	**697-91-6**
2,4-Dichlorobenzotrifluoride		3680F	10g	**320-60-5**
3,4-Dichlorobenzotrifluoride		3524K	100mg	**328-84-7**
2-[4-(2,4-Dichlorobenzoyl)-1,3-dimethylpyrazol-5-yloxy]acetoph		PS-2064	1g	**71561-11-0**
2,4-Dichlorobenzyl alcohol		3533K	100mg	**1777-82-8**
2,5-Dichlorobenzyl alcohol		3539K	100mg	**34145-05-6**
2,6-Dichlorobenzyl alcohol		3545K	100mg	**15258-73-8**
3,4-Dichlorobenzyl alcohol		3506K	100mg	**1805-32-9**
3,5-Dichlorobenzyl alcohol		3542K	10mg	**60211-57-6**
2,4-Dichlorobenzylamine		3548K	10mg	**95-00-1**
3,4-Dichlorobenzylamine		3551K	100mg	**102-49-8**
3,4-Dichlorobenzylchloride		8259B	10g	**102-47-6**
2,2′-Dichlorobiphenyl (S.G.)		3620G	25mg	**13029-08-8**
	100ug/mL in Hexane	3620GS	2mL	
2,3-Dichlorobiphenyl (S.G.)		3621G	25mg	**16605-91-7**
	100ug/mL in Isooctane	3621GS	2mL	
2,3′-Dichlorobiphenyl (S.G.)		9000G	5mg	**25569-80-6**
	100ug/mL in Hexane	9000GS	2mL	
2,4-Dichlorobiphenyl (S.G.)		3622G	25mg	**33284-50-3**
	100ug/mL in Hexane	3622GS	2mL	
2,4′-Dichlorobiphenyl (S.G.)		3623G	25mg	**34883-43-7**
	100ug/mL in Hexane	3623GS	2mL	
2,5-Dichlorobiphenyl (S.G.)		3624G	50mg	**34883-39-1**
	100ug/mL in Hexane	3624GS	2mL	
2,6-Dichlorobiphenyl (S.G.)		3625G	25mg	**33146-45-1**
	100ug/mL in Hexane	3625GS	2mL	
3,3′-Dichlorobiphenyl (S.G.)		3626G	50mg	**2050-67-1**
	100ug/mL in Hexane	3626GS	2mL	
3,4-Dichlorobiphenyl (S.G.)		3627G	50mg	**2974-92-7**
	100ug/mL in Hexane	3627GS	2mL	
3,4′-Dichlorobiphenyl (S.G.)		9001G	5mg	**2974-90-5**
	100ug/mL in Hexane	9001GS	2mL	
3,5-Dichlorobiphenyl (S.G.)		3628G	50mg	**34883-41-5**
	100ug/mL in Hexane	3628GS	2mL	
4,4′-Dichlorobiphenyl (S.G.)		F2174	10mg	**2050-68-2**
	100ug/mL in Hexane	F2174AJS	1mL	
	100ug/mL in Hexane	F2174AS	5mL	
	2000ug/mL in t-Butylmethyl ether	F2174JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2174S	5mL	
2′,5′-Dichloro-3-biphenylol (S.G.)		3642G	10mg	**R**
2′,5′-Dichloro-4-biphenylol (S.G.)		3641G	10mg	**R**
3,5-Dichloro-2-biphenylol (S.G.)		3643G	10mg	**R**
4,4′-Dichloro-3-biphenylol (S.G.)		3645G	10mg	**R**
1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene		PS-696	100mg	**72-55-9**
Dichloro[1,3-bis(diphenylphosphino) propane] nickel (II)		3650J	100mg	**R**
1,1-Dichloro-2,2-bis(p-ethylphenyl)ethane		PS-73	1g	**72-56-0**
Dichlorobis(triphenylphosphine)nickel		3679F	1g	**14264-16-5**
1,3-Dichlorobutane (S.G.)		F2480	1g	**1190-22-3**
	2000ug/mL in Methanol	F2480JS	1mL	
	2000ug/mL in Methanol	F2480S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
1,4-Dichlorobutane (S.G.)		F204	2g	**110-56-5**
	2000ug/mL in Methanol	F204AJS	1mL	
	2000ug/mL in Methanol	F204AS	5mL	
	20,000ug/mL in Methanol	F204BJS	1mL	
	20,000ug/mL in Methanol	F204BS	5mL	
	100ug/mL in Methanol	F204JS	1mL	
	100ug/mL in Methanol	F204S	5mL	
1,4-Dichlorobutane (S.G.)		0-636	2g	**110-56-5**
1,4-Dichlorobutane-d8		F943	50mg	**R**
	2000ug/mL in Methanol	F943JS	1mL	
	2000ug/mL in Methanol	F943S	5mL	
1,4-Dichloro-2-butene cis & trans		F976	5g	**764-41-0**
	100ug/mL in Methanol	F976JS	1mL	
	100ug/mL in Methanol	F976S	5mL	
1,4-Dichloro-2-butene cis & trans (S.G.)		0-658	1g	**764-41-0**
cis-1,4-Dichloro-2-butene (S.G.)		F2922	1g	**1476-11-5**
trans-1,4-Dichloro-2-butene (S.G.)		F2923	1g	**110-57-6**
2,4-Dichloro-6-o-chloroanilino-s-triazine		PS-388	250mg	**101-05-3**
1,1-Dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane		PS-694	250mg	**53-19-0**
1,1-Dichloro-2-(p-chlorophenyl)-2-(o-chlorophenyl)ethylene		PS-695	50mg	**3424-82-6**
2,7-Dichlorodibenzo-p-dioxin (S.G.)		3655G	5mg	**33857-26-0**
	50ug/mL in Toluene	3655GS	1mL	
2,8-Dichlorodibenzofuran (S.G.)		3650G	10mg	**R**
	50ug/mL in Toluene	3650GS	1mL	
Dichlorodifluoromethane (S.G.)	100ug/mL in Methanol	F50JS	1mL	
	100ug/mL in Methanol	F50S	5mL	
2′,4′-Dichloro-5′-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo		PS-2132	250mg	**122836-35-5**
2,5-Dichloro-3,6-dihydroxy-p-benzoquinone barium salt		3675E	5g	**13435-46-6**
1,4-Dichloro-2,5-dimethoxybenzene		PS-255	250mg	**2675-77-6**
1,1-Dichloro-N-[dimethylamino)sulfonyl]-1-fluoro-N-(4-methylph		PS-2060	250mg	**731-27-1**
3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide		PS-349	1g	**23950-58-5**
2,4-Dichloro-3,5-dinitrobenzoic acid		3560K	100mg	**52729-03-0**
2,4-Dichloro-3,5-dinitrobenzonitrile		3563K	10mg	**R**
Dichlorodiphenyl dichloroethane		PS-72	250mg	**72-54-8**
Dichlorodiphenyltrichloroethane		PS-74	250mg	**8017-34-3**
1,1-Dichloroethane (S.G.)		F13	5g	**75-34-3**
	100ug/mL in Methanol	F13JS	1mL	
	100ug/mL in Methanol	F13S	5mL	
1,1-Dichloroethane (2,2,2-d3) (S.G.)		FD13-A	0.1g	
1,2-Dichloroethane (S.G.)		F10	5g	**107-06-2**
	100ug/mL in Methanol	F10JS	1mL	
	100ug/mL in Methanol	F10S	5mL	
1,2-Dichloroethane		0-642	5g	**107-06-2**
1,2-Dichloroethane-d4 (S.G.)		F836	100mg	**17060-07-0**
	2000ug/mL in Methanol	F836JS	1mL	
	2000ug/mL in Methanol	F836S	5mL	
2,2-Dichloroethanol		3566K	100mg	**598-38-9**
1,1-Dichloroethene (S.G.)		F29	5g	**75-35-4**
	100ug/mL in Methanol	F29JS	1mL	
	100ug/mL in Methanol	F29S	5mL	
cis-1,2-Dichloroethene (S.G.)		F821	500mg	**156-59-2**
	100ug/mL in Methanol	F821JS	1mL	
	100ug/mL in Methanol	F821S	5mL	
cis-1,2-Dichloroethene (S.G.)		0-659	500mg	**156-59-2**
		0-659	2g	**156-59-2**
trans-1,2-Dichloroethene (S.G.)		F30	5g	**156-60-5**
	100ug/mL in Methanol	F30JS	1mL	
	100ug/mL in Methanol	F30S	5mL	
trans-1,2-Dichloroethene (S.G.)		0-660	2g	**156-60-5**
1,2-Dichloroethyl ethyl ether (S.G.)		F2398	1g	**623-46-1**
a,b-Dichloroethyl ether		F2398	1g	**623-46-1**
3′,6′-Dichlorofluoran		3680E	1g	**630-88-6**
2′,7′-Dichlorofluorescein (R.G.)		3683H	1g	**76-54-0**
4′,5′-Dichlorofluorescein		BS-126	1g	**2320-96-9**
Dichlorofluoromethane	10,000ug/mL in Methanol	F2399JS	1mL	
	10,000ug/mL in Methanol	F2399S	5mL	
N-Dichlorofluoromethylthio-N′,N′-dimethyl-N-phenylsulfamide		PS-2047	250mg	**1085-98-9**
2,3-Dichlorohexafluoro-2-butene		3689F	1g	**303-04-8**
2,5-Dichlorohydroquinone		3673E	1g	**824-69-1**
3,5-Dichloro-4-hydroxybenzoic acid		3672A	5g	**3336-41-2**
3,6-Dichloro-2-hydroxy benzoic acid		MET-346B	50mg	**3401-80-7**
3,5-Dichloro-4-hydroxybenzonitrile		PS-2090	500mg	**1891-95-8**
N-(2,3-dichloro-4-hydroxyphenyl)-1-methyl-cyclohexanecarboxamide		PS-2202	250mg	**126833-17-8**
5,7-Dichloro-8-hydroxyquinoline		2857L	1g	
0-2,5-Dichloro-4-iodophenyl-0,0-dimethylphosphorothioate (100u		PS-1206	5mL	**18181-70-9**
5,7-Dichloroisatin		3569K	10mg	**R**

Category Name	Specification	Catalog#	Size	CAS#
Dichloromaleic anhydride		3677B	10g	**1122-17-4**
Dichloromethane		0-648	2g	**75-09-2**
		0-648	5g	**75-09-2**
6,9-Dichloro-2-methoxyacridine		1816L	1g	**86-38-4**
3',4'-Dichloro-2-methylacrylanilide		PS-63	1g	**2164-09-2**
2,4-Dichloro-a-methylbenzyl alcohol		3572K	100mg	**1475-13-4**
2,2-Dichloro-1-methylcyclopropane carboxylic acid		3575K	1g	**1447-14-9**
2,4-Dichloro-6-methylphenol (R.G.)		3578K	10mg	**1570-65-6**
2,4-Dichloro-6-methylpyrimidine		3581K	100mg	**5424-21-5**
1,4-Dichloronaphthalene (S.G.)		F2151	100mg	**1825-31-6**
	100ug/mL in Hexane	F2151JS	1mL	
	100ug/mL in Hexane	F2151S	5mL	
2,3-Dichloro-1,4-naphthaquinone		PS-12	250mg	**117-80-6**
2,4-Dichloro-1-naphthol		3681A	10g	**2050-76-2**
4,5-Dichloro-2-nitroaniline		3584K	100mg	**6641-64-1**
2,6-Dichloro-4-nitroaniline (S.G.)		0-376	250mg	**99-30-9**
2,6-Dichloro-4-nitroaniline		PS-293	250mg	**99-30-9**
2,3-Dichloronitrobenzene (S.G.)		F2901	250mg	**3209-22-1**
2,3-Dichloronitrobenzene		PS-2267	250mg	**3209-22-1**
	100ug/mL in Acetonitrile	PS-2267AJS	1mL	
	100ug/mL in Toluene	PS-2267JS	1mL	
2,4-Dichloronitrobenzene (S.G.)		F2902	250mg	**611-06-3**
2,4-Dichloronitrobenzene		PS-2268	250mg	**611-06-3**
	100ug/mL in Acetonitrile	PS-2268AJS	1mL	
	100ug/mL in Toluene	PS-2268JS	1mL	
2,5-Dichloronitrobenzene (S.G.)		F2903	250mg	**89-61-2**
2,5-Dichloronitrobenzene		PS-2269	250mg	**89-61-2**
	100ug/mL in Acetonitrile	PS-2269AJS	1mL	
	100ug/mL in Toluene	PS-2269JS	1mL	
3,4-Dichloronitrobenzene (S.G.)		F2904	1g	**99-54-7**
3,4-Dichloronitrobenzene		PS-2270	1g	**99-54-7**
	100ug/mL in Acetonitrile	PS-2270AJS	1mL	
	100ug/mL in Toluene	PS-2270JS	1mL	
3,5-Dichloronitrobenzene (S.G.)		F2905	250mg	**618-62-2**
3,5-Dichloronitrobenzene		PS-2271	250mg	**618-62-2**
	100ug/mL in Acetonitrile	PS-2271AJS	1mL	
	100ug/mL in Toluene	PS-2271JS	1mL	
1,1-Dichloro-1-nitroethane		PS-5	1g	**594-72-9**
		PS-5AJS	1mL	
		PS-5JS	1mL	
2,6-Dichloro-4-nitrophenol		1759L	1g	**618-80-4**
2,6-Dichloro-3-nitropyridine		3596K	100mg	**16013-85-7**
4,6-Dichloro-5-nitropyrimidine		1420L	1g	**4316-93-2**
2',5-Dichloro-4'-nitrosalicylanilide		PS-1207	250mg	**50-65-7**
1,5-Dichloropentane (S.G.)		0-637	500mg	**628-76-2**
		0-637	5g	**628-76-2**
Dichlorophen (S.G.)		F2288	250mg	**97-23-4**
	1000ug/mL in Methanol	F2288JS	1mL	
	1000ug/mL in Methanol	F2288S	5mL	
Dichlorophen		PS-6	250mg	**97-23-4**
2,3-Dichlorophenol (S.G.)		0-2309	1g	**576-24-9**
2,4-Dichlorophenol (S.G.)		F31	5g	**120-83-2**
	100ug/mL in Methanol	F31JS	1mL	
	100ug/mL in Methanol	F31S	5mL	
2,4-Dichlorophenol (S.G.)		0-891	5g	**120-83-2**
		0-891	10g	**120-83-2**
2,4-Dichlorophenol (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC31S	1.2mL	
2,4-Dichlorophenol (ring-d3) (S.G.)		FD31A	0.1g	**R**
		FD31-A	0.1g	**R**
		FD31-C	0.25g	**R**
2,5-Dichlorophenol (S.G.)		0-2345	5g	**583-78-8**
2,6-Dichlorophenol (S.G.)		F915	5g	**87-65-0**
	100ug/mL in Methanol	F915JS	1mL	
	100ug/mL in Methanol	F915S	5mL	
3,4-Dichlorophenol (S.G.)		0-2310	1g	**95-77-2**
3,5-Dichlorophenol (S.G.)		0-2346	1g	**591-35-5**
2,6-Dichlorophenol indophenol		3704J	100mg	**R**
2,4-Dichlorophenoxyacetic acid (S.G.)		0-100	5g	**94-75-7**
		0-100	10g	**94-75-7**
(2,4-Dichlorophenoxy)acetic acid		PS-41	1g	**94-75-7**
2,4-Dichlorophenoxyacetic acid (ring-d3) (S.G.)		FD700-5	5mg	**R**
	100ug/mL in Methylene chloride	FC7000S	1.2mL	
(2,4-Dichlorophenoxy)acetic acid, butoxy-polypropylene glycol				
(2,4-Dichlorophenoxy)acetic acid butyl ester		PS-42	250mg	**94-80-4**
(2,4-Dichlorophenoxy)acetic acid, sec-butyl ester		PS-301	1g	**R**
(2,4-Dichlorophenoxy)acetic acid, dimethylamine salt		PS-337	1g	**2008-39-1**
(2,4-Dichlorophenoxy)acetic acid, ethanolamine salt		PS-338	1g	**3599-58-4**
(2,4-Dichlorophenoxy)acetic acid, ethyl ester		PS-304	1g	**533-23-3**

Category Name	Specification	Catalog#	Size	CAS#
(2,4-Dichlorophenoxy)acetic acid, 2-ethylhexyl ester		PS-319-1	1g	**1928-43-4**
(2,4-Dichlorophenoxy)acetic acid, isopropylamine salt		PS-299	1g	**R**
(2,4-Dichlorophenoxy)acetic acid, isopropanolamine salt		PS-332	1g	**5742-17-6**
(2,4-Dichlorophenoxy)acetic acid isopropyl ester		PS-43	1g	**94-11-1**
(2,4-Dichlorophenoxy)acetic acid methyl ester		PS-41-1	250mg	**1928-38-7**
(2,4-Dichlorophenoxy)acetic acid, propylene glycol ester		PS-302	1g	**R**
N-[(2,4-Dichlorophenoxy)acetyl]-DL-methionine		PS-390	10mg	**R**
	100ug/mL in Acetonitrile	PS-390AJS	1mL	
	100ug/mL in MTBE	PS-390JS	1mL	
4-(2,4-Dichlorophenoxy)butyric acid		PS-306	250mg	**94-82-6**
2,4-Dichlorophenoxyethanol		3690	10g	**120-67-2**
2-[4-(2',4'-Dichlorophenoxy)phenoxy]-methyl-propanoate		PS-1036	250mg	**51338-27-3**
2-(2,4-Dichlorophenoxy)propionic acid		PS-44	250mg	**120-36-5**
2,4-Dichlorophenylacetic acid (S.G.)		F2035	100mg	**19719-28-9**
	100ug/mL in t-Butylmethyl ether	F2035AJS	1mL	
	100ug/mL in t-Butylmethyl ether	F2035AS	5mL	
	5000ug/mL in t-Butylmethyl ether	F2035BJS	1mL	
	5000ug/mL in t-Butylmethyl ether	F2035BS	5mL	
	2000ug/mL in Acetone	F2035JS	1mL	
	2000ug/mL in Acetone	F2035S	5mL	
2,4-Dichlorophenylacetic acid methyl ester (S.G.)		F2036	100mg	**55954-23-9**
	2000ug/mL in Acetone	F2036AJS	1mL	
	2000ug/mL in Acetone	F2036AS	5mL	
	5000ug/mL in Methanol	F2036BJS	1mL	
	5000ug/mL in Methanol	F2036BS	5mL	
	100ug/mL in Acetone	F2036JS	1mL	
	100ug/mL in Acetone	F2036S	5mL	
2,6-Dichlorophenylacetonitrile		3704F	1g	**3215-64-3**
2,4-Dichlorophenyl benzenesulfonate		PS-856	250mg	**97-16-5**
	100ug/mL in Acetonitrile	PS-856AJS	1mL	
	100ug/mL in Toluene	PS-856JS	1mL	
0-2,4-Dichlorophenyl-0,0-diethylphosphorothioate		PS-103	250mg	**97-17-6**
N-(3,5-Dichlorophenyl)-1,2-dimethylcyclopropane-1,2-dicarboxim		PS-2126	250mg	**32809-16-8**
3-(3,4-Dichlorophenyl)-1,1-dimethylurea		PS-60	250mg	**330-54-1**
2,5-Dichloro-p-phenylenediamine		3605K	1g	**20103-09-7**
3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione		PS-1049	1g	**50471-44-8**
N-(2,6-Dichlorophenyl)-5-ethoxy-7-fluoro-[1,2,4]-triazolo-[1,5-c]pyrimidine-2-sulfonamide		PS-2208	250mg	**145701-21-9**
0-(2,4-Dichlorophenyl)-0-ethyl-S-propylphosphorodithioate		PS-1094	100mg	**34643-46-4**
2,4-Dichlorophenylhydrazine hydrochloride		3608K	100mg	**5446-18-4**
2,6-Dichlorophenyl isocyanate		3695H	500mg	**39920-37-1**
3-(3,4-Dichlorophenyl)-1-methoxy-1-methylurea		PS-372	250mg	**330-55-2**
N-(3,4-Dichlorophenyl)methylacrylamide		PS-63	1g	**2164-09-2**
1-(3,4-Dichlorophenyl)-3-methylurea		MET-60C	100mg	**3567-62-2**
1-(2-(2,4-Dichlorophenyl)pentyl)-1H-1,2,4-triazole		PS-2207	100mg	**66246-88-6**
Dichlorophenyl phosphine (S.G.)		0-923	2g	**644-97-3**
Dichlorophenyl phosphine oxide (S.G.)		0-924	1g	**824-72-6**
Dichlorophenyl phosphine sulfide (S.G.)		0-925	1g	**3497-00-5**
		0-925	10g	**3497-00-5**
1-[2-(2,4-Dichlorophenyl)-2-(2-propenyloxy)ethyl]-1H-imidazole		PS-2043	100mg	**35554-44-0**
1-[2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H		PS-1075	250mg	**60207-90-1**
1-(3,5-Dichlorophenyl)-2,5-pyrrolidinedione		PS-2154	500mg	**24096-53-5**
N-(3,5-Dichlorophenyl)succinimide		PS-2154	500mg	**24096-53-5**
(RS)-2-(2,4-Dichlorophenyl)-1-(1H-1,2,4-triazol-1-yl)hexan-2-ol		PS-2157	100mg	**79983-71-4**
Di(p-chlorophenyl)trichloromethylcarbinol		PS-82	250mg	**115-32-2**
4,5-Dichlorophthalic acid		3611K	1g	**56962-08-4**
3,6-Dichloropicolinic acid		PS-1069	250mg	**1702-17-6**
1,2-Dichloropropane		PS-153	1g	**78-87-5**
1,2-Dichloropropane (S.G.)		F32	5g	**78-87-5**
	100ug/mL in Methanol	F32JS	1mL	
	100ug/mL in Methanol	F32S	5mL	
1,2-Dichloropropane (S.G.)		0-638	10g	**78-87-5**
1,2-Dichloropropane (d6) (S.G.)		FD32-A	0.1g	**R**
1,3-Dichloropropane (S.G.)		F822	500mg	**142-28-9**
	100ug/mL in Methanol	F822JS	1mL	
	100ug/mL in Methanol	F822S	5mL	
1,3-Dichloropropane (S.G.)		0-639	500mg	**142-28-9**
		0-639	5g	**142-28-9**
2,2-Dichloropropane (S.G.)		F823	1g	**594-20-7**
	100ug/mL in Methanol	F823JS	1mL	
	100ug/mL in Methanol	F823S	5mL	
1,3-Dichloro-2-propanol (S.G.)		F2014	2g	**96-23-1**
	100ug/mL in Methanol	F2014JS	1mL	
	100ug/mL in Methanol	F2014S	5mL	
1,3-Dichloro-2-propanol (S.G.)		0-184	2g	**96-23-1**
		0-184	10g	**96-23-1**
2,3-Dichloro-1-propanol (S.G.)		0-185	500mg	**616-23-9**
		0-185	2g	**616-23-9**

Category Name	Specification	Catalog#	Size	CAS#
1,1-Dichloro-2-propanone		F2026	1g	**513-88-2**
Dichloropropene		PS-152	1g	**542-75-6**
1,1-Dichloropropene (S.G.)		F824	100mg	**563-58-6**
	100ug/mL in Methanol	F824JS	1mL	
	100ug/mL in Methanol	F824S	5mL	
1,3-Dichloropropene (S.G.)		F33	5g	**542-75-6**
	100ug/mL in Methanol	F33JS	1mL	
	100ug/mL in Methanol	F33S	5mL	
1,3-Dichloropropene		PS-152	1g	**542-75-6**
cis-1,3-Dichloropropene (S.G.)		F200	100mg	**10061-01-5**
	100ug/mL in Methanol	F200JS	1mL	
	100ug/mL in Methanol	F200S	5mL	
trans-1,3-Dichloropropene (S.G.)		F201	100mg	**10061-02-6**
	100ug/mL in Methanol	F201JS	1mL	
	100ug/mL in Methanol	F201S	5mL	
2,3-Dichloropropene (S.G.)		O-661	1g	**78-88-6**
		O-661	5g	**78-88-6**
3′,4′-Dichloropropionanilide		PS-356	500mg	**709-98-8**
	100ug/mL in Acetonitrile	PS-356AJS	1mL	
	100ug/mL in Toluene	PS-356JS	1mL	
2,2-Dichloropropionic acid		PS-32	250mg	**75-99-0**
Dichloropropylene		PS-152	1g	**542-75-6**
3,5-Dichloropyridine		3620K	1g	**2457-47-8**
3,6-Dichloropyridazine		3719F	5g	**141-30-0**
2,3-Dichloropyridine		3614K	100mg	**2402-77-9**
2,6-Dichloropyridine		3720F	10g	**2402-78-0**
3,6-Dichloro-2-pyridinecarboxylic acid		PS-1069	250mg	**1702-17-6**
2,4-Dichloropyrimidine		3721F	1g	**3934-20-1**
3,7-Dichloro-8-quinolinecarboxylic acid		PS-2098	500mg	**84087-01-4**
4,6-Dichlororesorcinol		3701E	10g	**137-19-9**
3,5-Dichlorosalicylic acid		3702C	10g	**320-72-9**
a,a-Dichlorosuccinic acid (meso)		3701B	1g	**R**
1-[3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl]3-(2,6-dif		PS-2074	250mg	**86479-06-3**
Dichlorothiophene		3722F	5g	**3172-52-9**
2,3-Dichlorotoluene		3724F	1g	**32768-54-0**
a,a-Dichlorotoluene (S.G.)		F2046	500mg	**98-87-3**
	100ug/mL in Hexane	F2046JS	1mL	
	100ug/mL in Hexane	F2046S	5mL	
a,a-Dichlorotoluene (S.G.)		O-680	500mg	**98-87-3**
		O-680	5g	**98-87-3**
a,o-Dichlorotoluene (S.G.)		O-681	2g	**611-19-8**
		O-681	10g	**611-19-8**
a,p-Dichlorotoluene (S.G.)		O-682	5g	**104-83-6**
		O-682	10g	**104-83-6**
2,4-Dichlorotoluene (S.G.)		O-683	2g	**95-73-8**
2,6-Dichlorotoluene		3626K	1g	**118-69-4**
O-2,6-Dichloro-p-tolyl O,O-dimethyl phosphorothioate		PS-2156	500mg	**57018-04-9**
4,4′-Dichloro-a-[trichloromethyl]benzhydrol		PS-82	250mg	**115-32-2**
3-(2,2-Dichlorovinyl)-2,2-dimethyl-(1-cyclopropane)carboxylic acid		MET-758A	10mg	**55701-05-8**
3-(2,2-Dichlorovinyl)-2,2-dimethyl-(1-cyclopropane)carboxylic acid 100ug/mL/MeOH	100ug/mL in Methanol	MET-758D	1mL	**55701-05-8**
3-(2,2-Dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate		PS-758-2	50mg	**61949-77-7**
2,2-Dichlorovinyl dimethylphosphate		PS-89	250mg	**62-73-7**
2,5-Dichloro-p-xylene		3704E	10g	**1124-05-6**
a,a′-Dichloro-m-xylene		3702H	1g	**626-16-4**
a,a′-Dichloro-p-xylene		3705	5g	**623-25-6**
Dichlorprop (S.G.)		F962	250mg	**120-36-5**
	100ug/mL in Acetone	F962JS	1mL	
	100ug/mL in Acetone	F962S	5mL	
Dichlorprop		PS-44	250mg	**120-36-5**
	100ug/mL in Methanol	PS-44AJS	1mL	
Dichlorprop (ring-13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC962S	1.2mL	
Dichlorprop-butoxyethyl ester		PS-2307	50mg	**53404-31-2**
Dichlorprop 2-ethylhexyl ester		PS-2382	250mg	**79270-78-3**
Dichlorprop methyl ester (S.G.)		F963	100mg	**57153-17-0**
	100ug/mL in Methanol	F963JS	1mL	
	100ug/mL in Methanol	F963S	5mL	
Dichlorprop methyl ester		PS-1103	100mg	**57153-17-0**
Dichlorprop-P		PS-2300	250mg	**15165-67-0**
	100ug/mL in Acetonitrile	PS-2300AJS	1mL	
	100ug/mL in Toluene	PS-2300JS	1mL	
Dichlorvos (S.G.)		F2061	250mg	**62-73-7**
	1000ug/mL in Hexane	F2061AJS	1mL	
	1000ug/mL in Hexane	F2061AS	5mL	
	100ug/mL in Toluene	F2061JS	1mL	
	100ug/mL in Toluene	F2061S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Dichlorvos		PS-89	250mg	**62-73-7**
	100ug/mL in Acetonitrile	PS-89AJS	1mL	
Dichlorvos (dimethyl-d6) (S.G.)		FD2061-E	0.01g	**62-73-7**
Diclobutrazol		PS-2239	POR	**75736-33-3**
	100ug/mL in Toluene	PS-2239JS	1mL	
Diclofop acid		MET-1036B	100mg	**40843-25-2**
Diclofop methyl		PS-1036	250mg	**51338-27-3**
	100ug/mL in Acetonitrile	PS-1036AJS	1mL	
	100ug/mL in MTBE	PS-1036JS	1mL	
Dicloran (S.G.)		F2290	250mg	**99-30-9**
	1000ug/mL in Toluene	F2290JS	1mL	
	1000ug/mL in Toluene	F2290S	5mL	
Dicloran		PS-293	250mg	**99-30-9**
	100ug/mL in Acetonitrile	PS-293AJS	1mL	
Diclosulam		PS-2208	250mg	**145701-21-9**
	100ug/mL in Acetonitrile	PS-2208AJS	1mL	
	100ug/mL in Toluene	PS-2208JS	1mL	
Dicoco amine (TECH)		S-499	10g	**R**
Dicoco dimethyl ammonium chloride (TECH)		S-615	10g	**61789-77-3**
Dicofol		F2281	250mg	**115-32-2**
	5000ug/mL in Isooctane	F2281JS	1mL	
	5000ug/mL in Isooctane	F2281S	5mL	
Dicofol		PS-82	250mg	**115-32-2**
o,p′-Dicofol	100ug/mL in Acetonitrile	MET-82A	5mL	**10606-46-9**
Dicophane™		PS-74	250mg	**8017-34-3**
Dicrotophos (S.G.)		F2104	100mg	**141-66-2**
	100ug/mL in Toluene	F2104JS	1mL	
	100ug/mL in Toluene	F2104S	5mL	
Dicrotophos		PS-602	100mg	**141-66-2**
Dicryl™		PS-63	1g	**2164-09-2**
Dictran™		PS-2173	100mg	**97886-45-8**
Dicuran™		PS-2078	250mg	**15545-48-9**
1,3-Dicyanobenzene		3632K	1g	**626-17-5**
1,4-Dicyano-2-butene		3725	5g	**1119-85-3**
Dicyanodiamide (S.G.)		O-260	5g	**461-58-5**
		O-260	10g	**461-58-5**
9-(Dicyanomethylene)-2,4,7-trinitrofluorene		3735F	1g	**1172-02-7**
Dicyclohexyl adipate (S.G.)		O-477	500mg	**849-99-0**
		O-477	2g	**849-99-0**
Dicyclohexyl adipate (TECH)		Pz-306	10g	**R**
Dicyclohexylamine (S.G.)		O-280	5g	**101-83-7**
		O-280	10g	**101-83-7**
Dicyclohexyl azelate (TECH)		Pz-355	10g	**R**
Dicyclohexylcarbinol		3737F	1g	**4453-82-1**
N,N′-Dicyclohexylcarbodiimide		3743H	5g	**538-75-0**
1,3-Dicyclohexylcarbodiimide		3743H	5g	**538-75-0**
Dicyclohexyl maleate		3727B	1g	**R**
Dicyclohexyl phthalate (S.G.)		F2262	5g	**84-61-7**
	2000ug/mL in Methylene chloride	F2262JS	1mL	
	2000ug/mL in Methylene chloride	F2262S	5mL	
Dicyclohexyl phthalate (S.G.)		O-523	5g	**84-61-7**
		O-523	10g	**84-61-7**
Dicyclohexyl phthalate (S.G.)		Pt-19	10g	**84-61-7**
Dicyclohexyl phthalate (TECH)		Pz-55	10g	**84-61-7**
Dicyclohexyl phthalate (ring-1,2-13C2, dicarboxyl-13C2) Solution (S.G.) [ampu	100ug/mL in n-Nonane	FC2262S	1.2mL	
N,N′-Dicyclohexylurea		3729J	100mg	**2387-23-7**
Dicyclopentadiene (S.G.)		O-1007	1g	**77-73-6**
Dicyclopentadiene		PS-2033	500mg	**77-73-6**
	100ug/mL in Acetonitrile	PS-2033AJS	1mL	
	100ug/mL in Isooctane	PS-2033JS	1mL	
Dicyclopentadiene dioxide		3733F	5g	**81-21-0**
Dicyclopentadienyl titanium dibromide		3730F	100mg	**R**
Dicyclopentadienylzirconium dichloride		3730C	5g	**1291-32-3**
Dicyclopropyl ketone		3732F	1g	**1121-37-5**
Di-n-decyl adipate (TECH)		Pz-26	10g	**R**
Di-n-decyl phthalate (TECH)		Pz-430	10g	**84-77-5**
Didecyl sulfoxide		3732A	1g	**2168-95-8**
Didodecylamine (S.G.)		O-2045	1g	**3007-31-6**
N,N′-Didodecyldithiooxamide		3735	250mg	**120-88-7**
Didroxane™		PS-6	250mg	**97-23-4**
Didymium ammonium nitrate		RE-70	10g	**R**
Dieldrin (S.G.)		F90	250mg	**60-57-1**
	100ug/mL in Methanol	F90JS	1mL	
	100ug/mL in Methanol	F90S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Dieldrin		PS-76	250mg	**60-57-1**
Dieldrin (13C12) Solution (S.G.)		FC90AS	1.2mL	
Dieltamid™		PS-902	250mg	**134-62-3**
Dienochlor		PS-862	250mg	**2227-17-0**
	100ug/mL in Methanol	PS-862JS	1mL	
1,2:3,4-Diepoxybutane (S.G.)		F2015	1g	**1464-53-5**
	100ug/mL in Toluene	F2015JS	1mL	
	100ug/mL in Toluene	F2015S	5mL	
Diethanolamine (S.G.)		O-305	5g	**111-42-2**
		O-305	10g	**111-42-2**
Diethanolamine lauryl sulfate (TECH)		S-390-1	10g	**143-00-0**
Diethatyl ethyl		PS-1006	100mg	**38727-55-8**
	100ug/mL in Methanol	PS-1006JS	1mL	
Diethofencarb		PS-2153	250mg	**87130-20-9**
	100ug/mL in Methanol	PS-2153JS	1mL	
2,5-Diethoxyaniline (S.G.)		O-360	500mg	**94-85-9**
		O-360	2g	**94-85-9**
o-Diethoxybenzene (S.G.)		O-587	500mg	**2050-46-6**
		O-587	5g	**2050-46-6**
p-Diethoxybenzene (S.G.)		O-588	500mg	**122-95-2**
		O-588	10g	**122-95-2**
alpha-[[(Diethoxyphosphinothioyl)oxy]imino]benzene-acetonitril		PS-2100	100mg	**14816-18-3**
2-(Diethoxyphosphinylimino)-4-methyl-1,3-dithiolane		PS-1026	100mg	**950-10-7**
N,N-Diethyl acetamide		3743A	10g	**685-91-6**
Diethyl acetamidomalonate		3750	10g	**1068-90-2**
N,N-Diethylacetoacetamide		3638K	10g	**2235-46-3**
Diethylacetone dicarboxylate		3751E	100mg	**105-50-0**
Diethyl adipate (S.G.)		O-478	500mg	**141-28-6**
		O-478	5g	**141-28-6**
Diethyl adipate (TECH)		Pz-21	10g	**141-28-6**
Diethylamine (S.G.)		O-2046	5g	**109-89-7**
Diethylamine hydrochloride (S.G.)		O-281	5g	**660-68-4**
		O-281	10g	**660-68-4**
Diethylaminoacetone		3736F	1g	**1620-14-0**
2-Diethylaminoethanethiol hydrochloride		1567L	1g	**1942-52-5**
2-Diethylaminoethanol (S.G.)		O-306	10g	**100-37-8**
N,N-Diethylamino ethylacrylate		3757	5g	**2426-54-2**
2-Diethylaminoethylchloride		3175A	10g	**869-24-9**
2-Diethylamino-6-methyl pyrimidin-4-ol		MET-644A	100mg	**42487-72-9**
5-Diethylamino-2-pentanone		3740F	1g	**105-14-6**
m-Diethylaminophenol (S.G.)		O-885	2g	**91-68-9**
		O-885	10g	**91-68-9**
3-Diethylaminopropyl chloride hydrochloride (R.G.)		3744H	500mg	**R**
2,6-Diethylaniline		MET-357C	500mg	**579-66-8**
N,N-Diethylaniline (S.G.)		O-339	5g	**91-66-7**
Diethylbenzene		7000L	10g	**25340-17-4**
o-Diethylbenzene		3741F	1g	**135-01-3**
m-Diethylbenzene (S.G.)		O-766	100mg	**141-93-5**
		O-766	500mg	**141-93-5**
p-Diethylbenzene (S.G.)		O-2296	100mg	**105-05-5**
Diethylbenzyl malonate		3742F	1g	**607-81-8**
Diethyl benzyl phosphonate		3750A	5g	**1080-32-6**
Diethyl bis(hydroxymethyl)malonate		3647K	1g	**20605-01-0**
Diethyl-2-bromoethyl phosphonate		3752A	5g	**5324-30-1**
Diethyl bromomalonate (S.G.)		O-513	500mg	**685-87-0**
		O-513	5g	**685-87-0**
Diethyl-2-bromo-2-methyl malonate		3650K	100mg	**29263-94-3**
Diethyl butylmalonate		3759B	10g	**133-08-4**
N,N′-Diethylcarbanilide (S.G.)		O-389	500mg	**85-98-3**
		O-389	2g	**85-98-3**
Diethyl carbonate (S.G.)		O-395	10g	**105-58-8**
O,O-Diethyl-O-[2-chloro-1-[2,5-dichlorophenyl]vinyl]phosphorot		PS-675	1g	**1757-18-2**
Diethyl chloroethylmalonate		3759A	5g	**29263-83-0**
Diethylchloroethylphosphonate		3653K	10mg	**10419-79-1**
Diethyl chloromalonate		3758A	10g	**14064-10-9**
O,O-Diethyl-O-[3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl]ph		PS-656	100mg	**56-72-4**
Diethyl chloromethylphosphonate		3656K	1g	**3167-63-3**
O,O-Diethyl-S-[-(6-chloro-2-oxo-benzoxazolin-3-yl)-methyl]-pho		PS-682	100mg	**2310-17-0**
O,O-Diethyl-S-[p-chlorophenylthio]methyl phosphorodithioate		PS-88	1g	**786-19-6**
Diethyl-1,1-cyclobutane dicarboxylate		3771	2g	**3779-29-1**
Diethyl-1,1-cyclopropane dicarboxylate		3770	2g	**1559-02-0**
N,N-Diethyldecanamide		3776A	5g	**R**
O,O-Diethyl-O-[2-(diethylamino)-6-methyl-4-pyrimidinyl]phospho		PS-643	250mg	**23505-41-1**
Diethyl diethylmalonate (S.G.)		O-479	500mg	**77-25-8**
		O-479	10g	**77-25-8**

Category Name	Specification	Catalog#	Size	CAS#
Diethyl-1,4-dihydro-2,4,6-trimethyl-3,5-pyridine dicarboxylate		3785A	5g	**632-93-9**
Diethyl dimethylmalonate		3662K	100mg	**1619-62-1**
Diethyl-2,6-dimethyl-3,5-pyridine dicarboxylate		3665K	10mg	**R**
Diethyl diphenylmethylamidophosphate		3787C	5g	**R**
Diethyldiphenylurea (TECH)		Pz-140	10g	**85-98-3**
Diethyl dithiobis(thionoformate)		PS-66	250mg	**502-55-6**
	100ug/mL in Acetonitrile	PS-66AJS	1mL	
	100ug/mL in Isooctane	PS-66JS	1mL	
Diethyldithiocarbamic acid, 2-chlorallyl ester		F2136	250mg	**95-06-7**
Diethyldithiocarbamic acid, 2-chlorallyl ester		PS-19	250mg	**95-06-7**
Diethyldithiocarbamic acid sodium salt trihydrate (S.G.)		O-390	500mg	**20624-25-3**
		O-390	5g	**20624-25-3**
Diethyldithiophosphate ammonium salt		3668K	1g	**1068-22-0**
N,N-Diethyldodecanamide (S.G.)		O-250	2g	**3352-87-2**
Diethylene glycol Solution (S.G.)	100ug/mL in Methanol	F2900JS	1mL	
	100ug/mL in Methanol	F2900S	5mL	
Diethylene glycol (S.G.)		O-208	10g	**111-46-6**
Diethylene glycol adipate (TECH)		Pz-307	10g	**R**
Diethylene glycol coconate (TECH)		S-189	10g	**R**
Diethylene glycol dipelargonate (TECH)		Pz-94	10g	**R**
Diethylene glycol monobutyl ether		O-172	10g	**112-34-5**
Diethylene glycol monomethyl ether		O-174	5g	**111-77-3**
Diethylene glycol monoricinoleate (TECH)		S-183	10g	**R**
Diethylene glycol monostearate (TECH)		S-140	10g	**106-11-6**
Diethyleneimide oxide		O-319	10g	**110-91-8**
Diethylenetriamine (S.G.)		O-324	10g	**111-40-0**
Diethylenetriamine pentaacetic acid		3671K	100mg	**67-43-6**
N,N'Diethylethanolamine		O-306	10g	**100-37-8**
Diethyl ether		O-569	2g	**60-29-7**
Diethyl ethoxymethylenemalonate		3674K	1g	**87-13-8**
Diethyl 2-eththioethyl thionophosphate		PS-661	100mg	**298-03-3**
N,N-Diethylethylenediamine (S.G.)		O-325	1g	**100-36-7**
		O-325	10g	**100-36-7**
Diethyl ethylmalonate (S.G.)		O-480	2g	**133-13-1**
Diethyl ethylphenylmalonate		3790	10g	**R**
Diethyl ethylphosphonate (S.G.)		O-914	500mg	**78-38-6**
		O-914	10g	**78-38-6**
O,O-Diethyl-S-[2-(ethylthio)ethyl]phosphorodithioate		PS-652	1g	**298-04-4**
O,O-Diethyl-S-[2-(ethylthio)ethyl]phosphorothioate		PS-662	100mg	**126-75-0**
O,O-Diethyl-S-[(ethylthio)methyl]phosphorodithioate		PS-654	100mg	**298-02-2**
Diethylformamidomalonate		1414L	100mg	**6326-44-9**
Diethyl fumarate (S.G.)		O-481	2g	**623-91-6**
		O-481	10g	**623-91-6**
Diethyl fumarate (TECH)		Pz-34	10g	**623-91-6**
Diethyl glutaconate		3810	2g	**2049-67-4**
Diethyl glutarate		3763F	1g	**818-38-2**
Diethyl heptadecyl imidazolinium ethylsulfate (TECH)		S-627	10g	**R**
Diethyl hydrogen phosphate		MET-90C	100mg	**598-02-7**
Diethyl-3-hydroxyglutarate		3825E	1g	**32328-03-3**
N,N-Diethylhydroxylamine		3677K	1g	**3710-84-7**
Diethyl isobutylmalonate		3780F	1g	**10203-58-4**
O,O-Diethyl-O-[1-isopropyl-5-chloro-1,2,4-triazolyl-[3]]-phosp		PS-681	250mg	**42509-80-8**
O,O-Diethyl-O-[2-isopropyl-4-methyl-6-pyrimidyl]phosphorothioa		PS-90	250mg	**333-41-5**
Diethyl ketone		O-813	10g	**96-22-0**
Diethyl maleate (S.G.)		O-482	10g	**141-05-9**
Diethyl maleate (TECH)		Pz-38	10g	**141-05-9**
Diethyl malonate (S.G.)		O-483	5g	**105-53-3**
Diethylmalondiimidate dihydrochloride		3825F	1g	**R**
Diethyl-N-(4-methyl-1,3-dithiolan-2-ylidene)-phosphoramidate		PS-1026	100mg	**950-10-7**
Diethyl methylmalonate		3680K	1g	**609-08-5**
O,O-Diethyl[p-(methylsulfinyl)phenyl]phosphorothioate		PS-667	100mg	**115-90-2**
N,N'-Diethyl-6-(methylthio)-1,3,5-triazine-2,4-diamine		PS-381	50mg	**1014-70-6**
Diethyl-p-nitrophenylphosphate		PS-610	100mg	**311-45-5**
O,O-Diethyl O-2-(ethylthio)ethyl phosphorothioate		PS-661	100mg	**298-03-3**
O,O-Diethyl-O-p-nitrophenyl phosphorothioate		PS-95	500mg	**56-38-2**
3,3′-Diethyloxadicarbocyanine iodide		2941L	100mg	**14806-50-9**
Diethyl oxalacetate sodium salt		3830	10g	**52980-17-3**
Diethyl oxalate (S.G.)		O-484	10g	**95-92-1**
O,O-Diethyl-S-[4-oxo-1,2,3-benzotriazin-3-[4H]-ylmethyl]phosph		PS-673	100mg	**2642-71-9**
Diethyl phenethylamidophosphate		3831E	5g	**57673-91-3**
Diethyl phenylamidophosphate		3835E	5g	**R**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Diethyl 4,4′-o-phenylenebis(3-thioallophanate)		PS-223	1g	**23564-06-9**
N,N,-Diethyl-p-phenylenediamine monohydrochloride (S.G.)		O-340	2g	**2198-58-5**
		O-340	10g	**2198-58-5**
N,N-Diethyl-p-phenylenediamine oxalate		1801L	100mg	**62637-92-7**
Diethyl phenylmalonate (S.G.)		O-524	2g	**83-13-6**
0,0-Diethyl O-1-Phenyl-1H-1,2,4-triazol-3-yl phosphorothioate		PS-2139	100mg	**24017-47-8**
0,0-Diethyl O-1-(phenyl-1H-1,2,4-triazol-3-yl phosphorothioate	100ug/mL in Toluene	PS-1213	5mL	**24017-47-8**
Diethyl phosphate		MET-90C	100mg	**598-02-7**
Diethyl phosphite		3832B	10g	**762-04-9**
0,0-Diethylphosphoric acid-o-p-nitrophenyl ester		PS-610	100mg	**311-45-5**
0,0-Diethyl phosphorochloridothioate		PS-670	1g	**2524-04-1**
	100ug/mL in Acetonitrile	PS-670AJS	1mL	
	100ug/mL Toluene	PS-670JS	1mL	
Diethyl phthalate (S.G.)		F70	1g	**84-66-2**
	100ug/mL in Hexane	F70JS	1mL	
	100ug/mL in Hexane	F70S	5mL	
Diethyl phthalate (S.G.)		O-525	1g	**84-66-2**
		O-525	10g	**84-66-2**
Diethyl phthalate (S.G.)		Pt-20	10g	**84-66-2**
Diethyl phthalate (TECH)		Pz-43	10g	**84-66-2**
Diethyl phthalate (ring-d4) (S.G.)		FD70-A	0.1g	**R**
		FD70-C	0.25g	**R**
	100ug/mL in n-Nonane	FD70S	1.2mL	
0,0-Diethyl phthalimido phosphonothioate	100ug/mL in Hexane	PS-1208	5mL	**5131-24-8**
0,0-Diethyl phthalimido phosphonothioate		PS-2127	100mg	**5131-24-8**
N,N,-Diethyl-1,3-propanediamine (S.G.)		O-326	5g	**104-78-9**
2,2-Diethyl-1,3-propanediol (S.G.)		O-192	500mg	**115-76-4**
		O-192	10g	**115-76-4**
0,0-Diethyl-O-2-pyrazinylphosphorothioate		PS-668	50mg	**297-97-2**
0,0-Diethyl-O-quinoxalin-2-yl phosphorothioate		PS-2010	250mg	**13593-03-8**
Diethyl sebacate (S.G.)		O-485	2g	**110-40-7**
Diethyl sebacate (TECH)		Pz-60	10g	**110-40-7**
Diethylstilbestrol (S.G.)		F2105	100mg	**6898-97-1**
	100ug/mL in Methanol	F2105JS	1mL	
	100ug/mL in Methanol	F2105S	5mL	
Diethyl succinate (S.G.)		O-486	5g	**123-25-1**
Diethyl succinate (TECH)		Pz-67	10g	**123-25-1**
Diethyl sulfate (S.G.)		F2106	5g	**64-67-5**
	100ug/mL in Methanol	F2106JS	1mL	
	100ug/mL in Methanol	F2106S	5mL	
Diethyl sulfate (S.G.)		O-943	10g	**64-67-5**
Diethyl sulfide (S.G.)		O-2047	5g	**352-93-2**
Diethyl sulfite		3860	10g	**623-81-4**
Diethyl d-tartrate		3840	10g	**13811-71-7**
Diethyl terephthalate (S.G.)		F2249	1g	**636-09-9**
	4000ug/mL in Methylene chloride	F2249JS	1mL	
	4000ug/mL in Methylene chloride	F2249S	5mL	
1,3-Diethyl-2-thiobarbituric acid		3683K	100mg	**5217-47-0**
1,3-Diethyl-2-thiourea (TECH)		0u-58	3g	**105-55-5**
1,3-Diethyl-2-thiourea (TECH)		0u-58	10g	**105-55-5**
N,N-Diethyl-m-toluamide (S.G.)		F2284	250mg	**134-62-3**
	2000ug/mL in Acetone	F2284JS	1mL	
	2000ug/mL in Acetone	F2284S	5mL	
N,N-Diethyl-m-toluamide		PS-902	250mg	**134-62-3**
	100ug/mL in Acetonitrile	PS-902AJS	1mL	
0,0-Diethyl-O-[3,5,6-trichloro-2-pyridyl]-phosphorothioate		PS-674	250mg	**2921-88-2**
Diethylurea symmetrical		3842E	5g	**623-76-7**
Difenacoum		PS-2143	100mg	**56073-07-5**
	100ug/mL in Methanol	PS-2143JS	1mL	
Difenoconazole		PS-2159	250mg	**119446-68-3**
	100ug/mL in Methanol	PS-2159JS	1mL	
Difenzoquat-desmethyl		MET-404C	100mg	**R**
Difenzoquat methylsulfate		PS-404	250mg	**43222-48-6**
	100ug/mL in H2O	PS-404AJS	1mL	
	100ug/mL in Toluene	PS-404JS	1mL	
Diflubenzuron		PS-1028	250mg	**35367-38-5**
	100ug/mL in Acetonitrile	PS-1028AJS	1mL	
Diflufenzopyr		PS-2148	100mg	**109293-97-2**
	100ug/mL in Acetonitrile	PS-2148AJS	1mL	
	100ug/mL in Toluene	PS-2148JS	1mL	
Diflufenican		PS-2316	100mg	**83164-33-4**
Diflufenzopyr sodium salt		PS-2383	100mg	**109293-98-3**
Difluoroacetic acid		3695K	100mg	**381-73-7**
2,3-Difluoroaniline		3698K	10mg	**4519-40-8**
2,4-Difluoroaniline		3701K	100mg	**367-25-9**

Category Name	Specification	Catalog#	Size	CAS#
2,5-Difluoroaniline		3710K	100mg	**367-30-6**
2,6-Difluoroaniline		3713K	10mg	**5509-65-9**
3,4-Difluoroaniline		3716K	10mg	**3863-11-4**
2,6-Difluorobenzamide		3719K	100mg	**18063-03-1**
1,4-Difluorobenzene (S.G.)		F837	100mg	**540-36-3**
	2000ug/mL in Methanol	F837JS	1mL	
	2000ug/mL in Methanol	F837S	5mL	
4-(2,2-Difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile		PS-2172	100mg	**131341-86-1**
2,6-Difluorobenzoic acid		3725K	100mg	**385-00-2**
2,6-Difluorobenzonitrile		3728K	100mg	**1897-52-5**
4,4′-Difluorobenzophenone		3831F	1g	**345-92-6**
2,2′-Difluorobiphenyl (S.G.)		F400	100mg	**388-82-9**
	10,000ug/mL in Benzene	F400AJS	1mL	
	10,000ug/mL in Benzene	F400AS	5mL	
	100ug/mL in Methanol	F400JS	1mL	
	100ug/mL in Methanol	F400S	5mL	
4,4′-Difluorobiphenyl (S.G.)		F2157	100mg	**398-23-2**
	1000ug/mL in Acetonitrile	F2157AJS	1mL	
	1000ug/mL in Acetonitrile	F2157AS	5mL	
	2000ug/mL in Methanol	F2157JS	1mL	
	2000ug/mL in Methanol	F2157S	5mL	
1,5-Difluoro-2,4-dinitrobenzene		2761L	500mg	**327-92-4**
4,4′-Difluoro-3,3′-dinitrodiphenylsulfone		3833F	100mg	**312-30-1**
2-[4,6-bis(Difluoromethoxy)pyrimidin-2-ylcarbamoylsulfamoyl] benzoic acid methyl ester		PS-2169	100mg	**86209-51-0**
2,4-Difluoronitrobenzene		3835F	100mg	**446-35-5**
2,5-Difluoronitrobenzene		3731K	100mg	**364-31-8**
N-(2,6-Difluorophenyl)-5-methyl-[1,2,4]triazolo[1,5-a]pyrimidi		PS-2111	500mg	**98967-40-9**
2-{1-[4-(3,5-difluorophenyl)semicarbazono]ethyl}nicotinic acid		PS-2148	100mg	**109293-97-2**
2-(2,6-Difluorophenylsulphamoyl)-5-methyl[1,2,4]-triazolo[1,5-		PS-2111	500mg	**98967-40-9**
1,3-Difluoro-2-propanol		3729K	500mg	**453-13-4**
2,6-Difluoropyridine		3730K	500mg	**1513-65-1**
Difluorotetrachloroacetone		3703B	1g	**R**
Difolatan™		PS-260	250mg	**2425-06-1**
Digitonin		3733K	10mg	**11024-24-1**
Digitoxigenin		3864S	10mg	
Di-n-heptadecyl ketone		1687L	1g	**R**
1,1′-Diheptyl-4,4′-bipyridinium dibromide		3739K	10mg	**6159-05-3**
Di-n-hexyl adipate (TECH)		Pz-308	10g	**R**
Di-n-hexylamine (S.G.)		O-2048	5g	**143-16-8**
		O-2048	10g	**143-16-8**
Di-n-hexyl azelate (TECH)		Pz-365	5g	**109-31-9**
Dihexyl ether		O-570	500mg	**112-58-3**
Di-n-hexyl maleate (TECH)		Pz-407	10g	**R**
Di-n-hexyl phthalate (S.G.)		F2314	5g	**84-75-3**
	1000ug/mL in Hexane	F2314JS	1mL	
	1000ug/mL in Hexane	F2314S	5mL	
Di-n-hexyl phthalate (S.G.)		Pt-21	10g	**84-75-3**
Di-n-hexyl phthalate (TECH)		Pz-445	10g	**84-75-3**
Di-n-hexyl phthalate (ring-1,2-13C2, dicarboxyl-13C2) Solution (S.G.) [ampule	100ug/mL in n-Nonane	FC2314S	1.2mL	
22,23-Dihydroabamectin		PS-2220	100mg	**70288-86-7**
Dihydroabiethylamine		3865F	5g	**R**
9,10-Dihydroanthracene (S.G.)		F1012	1g	**613-31-0**
	100ug/mL in Toluene	F1012JS	1mL	
	100ug/mL in Toluene	F1012S	5mL	
22,23-Dihydroavermectin B1		PS-2220	100mg	**70288-86-7**
2,3-Dihydro-5-carboxanilide-6-methyl-1,4-oxathin-4,4-dioxide		PS-295	1g	**5259-88-1**
Dihydrocoumarin		3745K	1g	**119-84-6**
9,10-Dihydro-8a,10a-diazoniaphenanthrene ion		PS-365	500mg	**6385-62-2**
10,11-Dihydrodibenz[b,f][1-4]oxazepin-11-one		1501L	100mg	**3158-85-8**
2,3-Dihydro-9,10-dihydroxy-1,4-anthracenedione		2698L	1g	**476-60-8**
2,5-Dihydro-2,5-dimethoxyfuran		3861F	1g	**332-77-4**
2,3-Dihydro-2,2-dimethyl benzofuran-3,7-diol 100ug/ml in Acetonitrile		MET-754D	1mL	**R**
2,3-Dihydro-2,2-dimethylbenzofuran-7-ol		MET-754B	1g	**1563-38-8**
2,3-Dihydro-2,2-dimetyl-7-benzofuranyl [(dibutylamino)thio]met		PS-1063	250mg	**55285-14-8**
2,3-Dihydro-2,2-dimethyl-benzofuran-7-yl methylcarbamate		PS-754	250mg	**1563-66-2**
2,3-Dihydro-5,6-dimethyl-1,4-dithi-ine-1,1,4,4-tetraoxide		PS-2052	1g	**55290-64-7**
5,10-Dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithi-in-2,3-dicarbo		PS-2035	250mg	**3347-22-6**
5,10-Dihydro-5,10-dioxonaphtho[2,3-b]-p-dithiin-2,3-dicarbonit		PS-2035	250mg	**3347-22-6**
6,7-Dihydrodipyrido[1,2-a:2′1′-c]pyrazinediium dibromide		PS-365	500mg	**6385-62-2**
1,2-Dihydro-6-ethoxy-2,2,4-trimethyl-quinoline		PS-432	250mg	**91-53-2**

Category Name	Specification	Catalog#	Size	CAS#
2,5-Dihydrofuran (S.G.)		O-566	500mg	1708-29-8
		O-566	5g	1708-29-8
Dihydrogenated tallow amine (TECH)		S-500	10g	R
Dihydrogenated tallow dimethyl ammonium chloride (TECH)		S-616	10g	61789-80-8
[Dihydrogen borato]phenyl mercury		PS-203	100mg	102-98-7
(RS)-2-(4,5-Dihydro-4-isopropyl-4-methyl-5-oxoimidazol-2-yl)-5-methylnicotinic acid		PS-2197	250mg	104098-48-8
3,4-Dihydro-2-methoxy-2H-pyran		3748K	1g	4454-05-1
(+/-)-2-[4,5-Dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imida		PS-2053	100mg	81335-37-7
5,6-Dihydro-2-methyl-1,4-oxathin-3-carboxanilide		PS-294	250mg	5234-68-4
5,6-Dihydro-2-methyl-1,4-oxathin-3-carboxanilide-4,4-dioxide		PS-295	1g	5259-88-1
(E)-4,5-Dihydro-6-methyl-4-(3-pyridylmethyleneamino)-1,2,4-triazin-3(2H)-one		PS-2189	250mg	123312-89-0
3,4-Dihydro-1(2H)-naphthalenone		3882B	1g	529-34-0
O-(1,6-Dihydro-6-oxo-1-phenylpyridazin-3-yl) O,O-diethyl phosphorothioate		PS-2155	250mg	119-12-0
9,10-Dihydrophenanthrene (S.G.)		F1013	1g	776-35-2
	100ug/mL in Toluene	F1013JS	1mL	
	100ug/mL in Toluene	F1013S	5mL	
2,3-Dihydrophthalazine-1,4-dione		7065F	5g	1445-69-8
3,4-Dihydropyran		3875F	10g	110-87-2
1,2-Dihydro-pyridazine-3,6-dione		PS-65	250mg	123-33-1
Dihydropyrone™		PS-907	1g	532-34-3
2,4-Dihydroxyacetophenone		3882F	5g	89-84-9
1,5-Dihydroxyanthraquinone		3751K	100mg	117-12-4
1,8-Dihydroxyanthraquinone		3754K	100mg	117-10-2
2,4-Dihydroxybenzaldehyde		3883B	10g	95-01-2
3,4-Dihydroxybenzaldehyde		3757K	100mg	139-85-5
1,2-Dihydroxybenzene-3,5-disulfonate disodium salt		4376J	100mg	R
4,5-Dihydroxy-m-benzene disulfonic acid disodium salt		3883F	1g	149-45-1
2,3-Dihydroxybenzoic acid		3886A	1g	303-38-8
2,4-Dihydroxybenzoic acid		3887E	10g	89-86-1
2,5-Dihydroxybenzoic acid		3888A	10g	490-79-9
2,6-Dihydroxybenzoic acid		3760K	1g	303-07-1
3,5-Dihydroxybenzoic acid (R.G.)		3884F	5g	99-10-5
2,2′-Dihydroxybenzophenone		3758K	10mg	835-11-0
2,4-Dihydroxybenzophenone (TECH)		0u-89	3g	131-56-6
		0u-89	10g	131-56-6
4,4′-Dihydroxybenzophenone		3885	5g	611-99-4
2,5-Dihydroxybenzoquinone		3887B	5g	615-94-1
2,2′-Dihydroxy-4,4′-dimethoxybenzophenone (TECH)		0u-90	3g	131-54-4
		0u-90	10g	131-54-4
2,2′-Dihydroxy-4,4′-dimethoxy benzophenone-5-sulfonic acid sodium salt (TECH)		0u-91	3g	R
		0u-91	10g	R
2,4-Dihydroxy-5,6-dimethylpyrimidine		1468L	100mg	26305-13-5
4,4′-Dihydroxydiphenyl		F2165	100mg	92-88-6
Dihydroxyethyl ether tetrabromo-4,4′-sulfonyldiphenol		3902C	5g	R
1L-(1,3,4/2,6)-2,3-Dihydroxy-6-hydroxymethyl-4-[(1S,4R,5S,6S)-				
2,2′-Dihydroxy-4-methoxy benzophenone (TECH)		0u-92	3g	131-53-3
		0u-92	10g	131-53-3
2,4-Dihydroxy-6-methylpyrimidine		3775K	1g	626-48-2
1,2-Dihydroxynaphthalene (S.G.)		0-2359	25mg	574-00-5
1,3-Dihydroxynaphthalene (S.G.)		0-2360	100mg	132-86-5
1,4-Dihydroxynaphthalene		0-906	500mg	571-60-8
1,5-Dihydroxynaphthalene		0-907	1g	83-56-7
1,6-Dihydroxynaphthalene (S.G.)		0-2361	1g	575-44-0
1,7-Dihydroxynaphthalene (S.G.)		0-2362	1g	575-38-2
2,3-Dihydroxynaphthalene (S.G.)		0-2363	1g	92-44-4
2,6-Dihydroxynaphthalene (S.G.)		0-2364	500mg	581-43-1
2,7-Dihydroxynaphthalene (S.G.)		0-2365	1g	582-17-2
4,5-Dihydroxy-2,7-naphthalene disulfonic acid disodium salt (R.G.)		3925B	5g	5808-22-0
1,8-Dihydroxynaphthalene-3,6-disulfonic acid disodium salt dihydrate		4021L	1g	5808-22-0
4,5-Dihydroxy-2,7-naphthalene disulfonic acid monosodium salt		3916F	1g	3888-44-6
2,3-Dihydroxynaphthalene-6-sulfonic acid sodium salt		1480L	1g	135-53-5
4,6-Dihydroxy-5-nitropyrimidine		3052L	500mg	
DL-3-(3,4-Dihydroxyphenyl)alanine (R.G.)		AA-7	1g	63-84-3
		AA-7	5g	63-84-3
trans-2-(3,4-Dihydroxyphenyl)3,4-dihydro-2H-1-benzopyran-3,5,7-triol		O-90	2g	89-05-4
2,3-Dihydroxypyridine		3791K	1g	16867-04-2
2,4-Dihydroxypyridine		3794K	10mg	626-03-9
2,6-Dihydroxypyridine hydrochloride		3927B	5g	10357-84-3
4,6-Dihydroxypyrimidine		3928B	5g	1193-24-4
2,4-Dihydroxypyrimidine-5-carboxylic acid		3797K	100mg	23945-44-0
4,8-Dihydroxyquinoline-2-carboxylic acid		2296L	10mg	59-00-7
a,a′-Dihydroxy-p-xylene		3932A	5g	589-29-7

Category Name	Specification	Catalog#	Size	CAS#
1,2-Diiodoethane		3800K	100mg	624-73-7
3,5-Diiodo-4-hydroxybenzonitrile		PS-397	100mg	1689-83-4
	100ug/mL in Methanol	PS-397JS	1mL	
Diiodomethane		3934B	10g	75-11-6
2,6-Diiodo-4-nitroaniline		3803K	100mg	5398-27-6
1,5-Diiodopentane		3935	5g	628-77-3
3,5-Diiodosalicylate lithium salt		5508F	1g	653-14-5
3,5-Diiodosalicylic acid		3940	10g	133-91-5
3,5-Diiodo-L-tyrosine (TECH)		AA-8	1g	300-39-0
		AA-8	5g	300-39-0
Diisoamyl oxalate (S.G.)		O-470	500mg	2051-00-5
		O-470	2g	2051-00-5
Diisobutyl adipate (TECH)		Pz-24	10g	141-04-8
Diisobutylamine (S.G.)		O-2043	5g	110-96-3
Diisobutyl azelate (TECH)		Pz-370	5g	R
Diisobutylene (S.G.)		O-749	1g	107-39-1
		O-749	5g	107-39-1
Diisobutyl fumarate		3570	10g	7283-69-4
Diisobutyl ketone		O-802	1g	108-83-8
Diisobutyl phthalate (S.G.)		F2264	5g	84-69-5
	2500ug/mL in Acetone	F2264JS	1mL	
	2500ug/mL in Acetone	F2264S	5mL	
Diisobutyl phthalate (S.G.)		O-522	10g	84-69-5
Diisobutyl phthalate (S.G.)		Pt-22	10g	84-69-5
Diisobutyl phthalate (TECH)		Pz-45	10g	84-69-5
1,6-Diisocyanatohexane (S.G.)		F2418	5g	822-06-0
Diisodecyl adipate (TECH)		Pz-27	10g	27178-16-1
Diisodecyl azelate (TECH)		Pz-372	10g	R
Diisodecyl maleate (TECH)		Pz-408	10g	R
Diisodecyl phthalate (S.G.)		Pt-41	10g	26761-40-0
Diisodecyl phthalate (TECH)		Pz-52	10g	26761-40-0
Diisoeugenol		3924F	500mg	R
Diisohexyl phthalate (S.G.)		Pt-23	10g	R
Diisohexyl phthalate (TECH)		Pz-450	10g	R
Diisononyl adipate (TECH)		Pz-310	10g	R
Diisononyl phthalate (S.G.)		Pt-24	1g	68515-48-0
Diisononyl phthalate (TECH)		Pz-455	1g	68515-48-0
Diisooctyl adipate (TECH)		Pz-315	10g	1330-86-5
Diisooctyl azelate (TECH)		Pz-374	5g	26544-17-2
Diisooctyl diglycolate (TECH)		Pz-405	10g	R
Diisooctyl isodecyl trimellitate (TECH)		Pz-700	10g	R
Diisooctyl isophthalate (TECH)		Pz-460	10g	R
Diisooctyl phthalate (TECH)		Pz-462	10g	R
Diisooctyl sebacate (TECH)		Pz-540	10g	R
Diisopropane (S.G.)		O-730	2g	79-29-8
Diisopropanolamine (S.G.)		O-310	5g	110-97-4
		O-310	10g	110-97-4
Diisopropyl adipate (TECH)		Pz-318	10g	6938-94-9
Diisopropylamine (S.G.)		O-2049	5g	108-18-9
2-(Diisopropylamino)ethanol		2285F	10g	96-80-0
2,6-Diisopropylaniline		3806K	1g	24544-04-5
1,3-Diisopropylbenzene (S.G.)		O-768	10g	99-62-7
N,N-Diisopropylcarbodiimide		2283F	1g	693-13-0
Di-isopropyl 1,3-dithiolan-2-ylidenemalonate		PS-2101	250mg	50512-35-1
1,2,5,6-Diisopropylene-a-D-glucofuranose		1486L	100mg	582-52-5
Diisopropyl ether		O-573	250mg	108-20-3
N,N-Diisopropylethylamine		3121L	1g	7087-68-5
Diisopropyl ketone		O-2073	1g	565-80-0
2,6-Diisopropylnaphthalene		PS-2272	250mg	24157-81-1
	100ug/mL in Acetonitrile	PS-2272AJS	1mL	
	100ug/mL in Toluene	PS-2272JS	1mL	
2,6-Diisopropylphenol		3208L	1g	2078-54-8
1,3-Diisopropylthiouea		3980J	1g	2986-17-6
Diisotridecyl phthalate (TECH)		Pz-470	10g	27253-26-5
Dikegulac acid		PS-2190	250mg	18467-77-1
	100ug/mL in Acetonitrile	PS-2190AJS	1mL	
	100ug/mL in Acetonitrile	PS-2190AJS	1mL	
	100ug/mL in MTBE	PS-2190JS	1mL	
Dilauryl hydrogen phosphite		3953B	5g	21302-90-9
Dilaurylthiodipropionate (TECH)		Ou-54	3g	123-28-4
		Ou-54	10g	123-28-4
unsymetrical Dimazine		O-723	1g	57-14-7
Dimecron™		PS-606	250mg	13171-21-6

Category Name	Specification	Catalog#	Size	CAS#
Dimehypo		PS-2184	250mg	**52207-48-4**
	100ug/mL in H20	PS-2184AJS	1mL	
	100ug/mL in Toluene	PS-2184JS	1mL	
Dimension™		PS-2173	100mg	**97886-45-8**
Dimer acids (TECH)		S-23	10g	**R**
2,3-Dimercaptopropanol		3930F	1g	**59-52-9**
2,6-Dimercaptopurine		1531L	100mg	**5437-25-2**
a,a-Dimercapto-p-xylene		8789F	500mg	**105-09-9**
Dimetate™		PS-659	250mg	**60-51-5**
Dimethachlon		PS-2154	500mg	**24096-53-5**
	100ug/mL in Methanol	PS-2154JS	1mL	
Dimethachlor		PS-2325	250mg	**50563-36-5**
Dimethachlor ESA sodium salt		MET-2325A	25mg	**R**
	100ug/mL in Methanol	MET-2325AJS	1mL	
Dimethanesulfonamide		3931F	1g	**5347-82-0**
Dimethenamid		PS-2161	100mg	**87674-68-8**
	100ug/mL in Acetonitrile	PS-2161AJS	1mL	
	100ug/mL in Toluene	PS-2161JS	1mL	
Dimethenamid ESA sodium salt		MET-2161A	25mg	**205939-58-8**
	100ug/mL in Methanol	MET-2161AJS	1mL	
Dimethenamid OA		MET-2161B	10mg	**R**
	100ug/mL in Methanol	MET-2161BJS	1mL	
Dimethenamid-P		PS-2291	100mg	**163515-14-8**
	100ug/mL in Acetonitrile	PS-2291AJS	1mL	
Dimethipin		PS-2052	1g	**55290-64-7**
	100ug/mL in Methanol	PS-2052JS	1mL	
Dimethoate		PS-659	250mg	**60-51-5**
Dimethoate (S.G.)		F989	250mg	**60-51-5**
	100ug/mL in Hexane	F989JS	1mL	
	100ug/mL in Hexane	F989S	5mL	
Dimethoate-O-analog		PS-2017	100mg	**1113-02-6**
Dimethomorph		PS-2138	100mg	**110488-70-5**
	100ug/mL in Acetonitrile	PS-2138AJS	1mL	
		PS-2138JS	1mL	**110488-70-5**
Z-Dimethomorph		PS-2138-1	500mg	**R**
	100ug/mL in Methanol	PS-2138-1JS	1mL	
2′,5′-Dimethoxyacetophenone		3959E	1g	**1201-38-3**
2,5-Dimethoxyaniline		3960	10g	**102-56-7**
2,4-Dimethoxybenzaldehyde		3961B	1g	**613-45-6**
2,5-Dimethoxybenzaldehyde		3963F	1g	**93-02-7**
3,4-Dimethoxybenzaldehyde		3962	5g	**120-14-9**
m-Dimethoxybenzene		3964	5g	**151-10-0**
o-Dimethoxybenzene		3965	5g	**91-16-7**
p-Dimethoxybenzene (S.G.)		O-589	5g	**150-78-7**
		O-589	10g	**150-78-7**
3,3′-Dimethoxybenzidine (S.G.)		F2154	1g	**119-90-4**
	100ug/mL in Methanol	F2154JS	1mL	
	100ug/mL in Methanol	F2154S	5mL	
3,3′-Dimethoxybenzidine dihydrochloride		3963H	1g	**20325-40-0**
2,3-Dimethoxybenzoic acid		3967	5g	**1521-38-6**
2,4-Dimethoxybenzoic acid		3968	5g	**91-52-1**
2,6-Dimethoxybenzoic acid		3970	10g	**1466-76-8**
3,5-Dimethoxybenzoic acid		3973	5g	**1132-21-4**
3,4-Dimethoxybenzonitrile		1546L	100mg	**2024-83-1**
2,4-Dimethoxybenzyl alcohol		3833K	100mg	**7314-44-5**
3,4-Dimethoxybenzyl alcohol		3973F	1g	**93-03-8**
2,4-Dimethoxy-5-chloroaniline		3211L	500mg	**97-50-7**
2,5-Dimethoxycinnamic acid		3975C	1g	**10538-51-9**
3,4-Dimethoxycinnamic acid		3975F	1g	**2316-26-9**
Dimethoxydiphenylsilane		3976F	5g	**6843-66-9**
Dimethoxy-DT™		PS-83	250mg	**72-43-5**
1,1-Dimethoxyethane (S.G.)		O-2	500mg	**534-15-6**
		O-2	5g	**534-15-6**
1,2-Dimethoxyethane (S.G.)		O-567	1g	**110-71-4**
		O-567	5g	**110-71-4**
3,5-Dimethoxy-4-hydroxycinnamic acid		1444L	100mg	**530-59-6**
Dimethoxymethane		O-3	1g	**109-87-5**
2,5-Dimethoxy-4-nitroaniline		1426L	100mg	**6313-37-7**
1,4-Dimethoxy-2-nitrobenzene		3976	5g	**89-39-4**
2,3-Dimethoxyphenol (R.G.)		3836K	100mg	**5150-42-5**
2,6-Dimethoxyphenol		3980	10g	**91-10-1**
3,4-Dimethoxyphenyl acetic acid		3977F	5g	**93-40-3**
(3,4-Dimethoxyphenyl)acetonitrile		1477L	100mg	**93-17-4**
1,1-Dimethoxy-2-phenylethane		3975E	5g	**R**
b-(3,4-Dimethoxyphenyl)ethylamine		3967H	1g	**120-20-7**

Category Name	Specification	Catalog#	Size	CAS#
3-(3,4-Dimethoxyphenyl)propionic acid		3839K	100mg	**2107-70-2**
(E)-3-((Dimethoxyphosphinothioyl)oxy)-2-methyl-2-propenoic acid methyl ester		PS-2218	100mg	**30864-28-9**
cis-3-[Dimethoxyphosphinyloxy]-N-methyl-crotonamide		PS-609	250mg	**6923-22-4**
2,2-Dimethoxypropane		3976B	10g	**77-76-9**
2-[[(4,6-Dimethoxypyrimidin-2-yl) aminocarbonyl]amino sulfonyl		PS-2005	100mg	**111991-09-4**
1-(4,6-Dimethoxypyrimidin-2-yl)-3-(3-ethylsulfonyl-2-pyridylsu		PS-2118	100mg	**122931-48-0**
2,5-Dimethoxytetrahydrofuran		3977E	10g	**696-59-3**
Dimethyl (hydrogenated tallow) amine oxide (TECH)		S-661	10g	**R**
N,N-Dimethylacetamide (S.G.)		F2530	5g	**127-19-5**
	200ug/mL in Methylene chloride	F2530JS	1mL	
	200ug/mL in Methylene chloride	F2530S	5mL	
N,N-Dimethylacetamide (S.G.)		O-251	10g	**127-19-5**
N,N-Dimethylacetoacetamide		3993F	1g	**2044-64-6**
Dimethyl-1,3-acetonedicarboxylate		3997B	5g	**1830-54-2**
2′,4′-Dimethylacetophenone		3995F	1g	**89-74-7**
2,5-Dimethylacetophenone		3996F	1g	**2142-73-6**
3′,4′-Dimethyl acetophenone		3842K	100mg	**3637-01-2**
Dimethyl acetylenedicarboxylate		3996B	5g	**762-42-5**
O,S-Dimethyl acetylphosphoramidothioate		PS-738	250mg	**30560-19-1**
N,N-Dimethylacrylamide		3997A	5g	**2680-03-7**
3,3-Dimethylacrylic acid		3998D	5g	**541-47-9**
1,3-Dimethyladamantane-5,7-diol		1549L	100mg	**R**
Dimethyl adipate (S.G.)		O-487	2g	**627-93-0**
Dimethyl adipate (TECH)		Pz-20	10g	**627-93-0**
Dimethylamine in water) (S.G.)		O-2411	10g	**124-40-3**
Dimethylamine (anhydrous) Solution (S.G.)	10,000ug/mL in Methanol	F2527JS	1mL	
	10,000ug/mL in Methanol	F2527S	5mL	
Dimethylamine-4-(2,4-dichlorophenoxy)-butyrate		PS-316	1g	**R**
Dimethylamine hydrochloride (S.G.)		O-282	5g	**506-59-2**
		O-282	10g	**506-59-2**
p-Dimethylaminoazobenzene (S.G.)		F917	100mg	**60-11-7**
	100ug/mL in Methanol	F917JS	1mL	
	100ug/mL in Methanol	F917S	5mL	
p-Dimethylaminobenzaldehyde (S.G.)		O-244	2g	**100-10-7**
		O-244	5g	**100-10-7**
p-Dimethylaminobenzenediazosulfonic acid, sodium salt		PS-262	250mg	**140-56-7**
3-Dimethylaminobenzoic acid		1495L	1g	**99-64-9**
4-Dimethylaminobenzoic acid		3848K	1g	**619-84-1**
o-Dimethylaminobenzoic acid hydrochloride		3851K	100mg	**R**
5-(p-Dimethylaminobenzylidene)rhodanine		4014F	1g	**536-17-4**
4-Dimethylaminocinnamaldehyde		4018H	500mg	**6203-18-5**
2-(Dimethylamino)-5,6-dimethyl-4-pyrimidinyl dimethylcarbamate		PS-756	500mg	**315-18-4**
2-Dimethylaminoethanethiol hydrochloride		4016F	1g	**13242-44-9**
2-Dimethylaminoethanol (S.G.)		O-307	10g	**108-01-0**
2-(2-Dimethyl aminoethoxy)-4-methyl-1,3,2-dioxaborinone		4011A	1g	**R**
2-Dimethylaminoethyl chloride hydrochloride		4017F	5g	**4584-46-7**
2-Dimethylaminoisopropyl chloride hydrochloride		1423L	1g	**4584-49-0**
Dimethylaminomethylferrocence		2332L	250mg	**1271-86-9**
2-(Dimethylaminomethyl)-3-hydroxy pyridine		4021F	1g	**2168-13-0**
[(Dimethylamino)methyl]-phenol (TECH)		Ou-25	3g	**25338-55-0**
		Ou-25	10g	**25338-55-0**
5-Dimethylamino-1-naphthalenesulfonic acid, 1-hydrate		2680L	100mg	**4272-77-9**
4-(Dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12,12a-hexahydroxy-6-methyl-1,11-dioxo-2-		PS-2200	250mg	**2058-46-0**
p-(p-Dimethylaminophenylazo)benzene arsonic acid		4023F	100mg	**R**
N-(p-Dimethylamino)phenyl-1,4-naphthoquinoneimine		4024F	100mg	**132-31-0**
3-Dimethylamino-1,2-propanediol		4035B	1g	**623-57-4**
1-Dimethylamino-2-propanol (S.G.)		O-308	2g	**108-16-7**
3-(Dimethylamino)-1-propanol (S.G.)		O-309	2g	**3179-63-3**
		O-309	5g	**3179-63-3**
3-Dimethylamino-propionitrile (S.G.)		O-842	5g	**1738-25-6**
N-(3-Dimethylaminopropyl)indole		4036B	1g	**R**
1-Dimethylamino-2-propyne		4198F	10g	**7223-38-3**
1-Dimethylamino-2-propyne		4198F	10g	**7223-38-3**
6-Dimethylamino purine		4025J	10mg	**938-55-6**
4-Dimethylaminopyridine		3857K	10mg	**1122-58-3**
2-Dimethylamino pyridine		4026F	1g	**5683-33-0**
4-Dimethylamino-m-tolyl-methylcarbamate		PS-751	250mg	**2032-59-9**
2-[4-Dimethylamino-6-(2,2,2-trifluoroethoxy)-1,3,5-triazin-2-ylcarbamoylsulfamoyl]-m-toluic acid		PS-2147	500mg	**126535-15-7**
S,S′-2-Dimethylaminotrimethylene bis(thiocarbamate) hydrochlor		PS-2069	250mg	**22042-59-7**

Category Name	Specification	Catalog#	Size	CAS#
S,S′-2-Dimethylaminotrimethylene di(benzenethiosulfonate)		PS-2106	250mg	**17606-31-4**
4-Dimethylamino-3,5-xylyl-methylcarbamate		PS-754	250mg	**1563-66-2**
N,N-Dimethylaniline (S.G.)		F2531	5g	**121-69-7**
	200ug/mL in Methylene chloride	F2531JS	1mL	
	200ug/mL in Methylene chloride	F2531S	5mL	
N,N-Dimethylaniline (S.G.)		O-341	10g	**121-69-7**
N,N-Dimethylaniline-d11 (S.G.)		F2550	10mg	**R**
2,3-Dimethylaniline (S.G.)		O-2052	5g	**87-59-2**
		O-2052	10g	**87-59-2**
2,4-Dimethylaniline (S.G.)		O-342	1g	95-68-1
2,5-Dimethylaniline (S.G.)		O-2053	5g	95-78-3
		O-2053	10g	95-78-3
2,6-Dimethylaniline (S.G.)		O-2054	5g	87-62-7
		O-2054	10g	87-62-7
3,4-Dimethylaniline		4039F	1g	95-64-7
3,5-Dimethylaniline		3863K	1g	108-69-0
2,3-Dimethylanisole		4038F	1g	2944-49-2
9,10-Dimethylanthracene (S.G.)		F1015	100mg	781-43-1
	100ug/mL in Toluene	F1015JS	1mL	
	100ug/mL in Toluene	F1015S	5mL	
9,10-Dimethylanthracene(d14) (S.G.)	50ug/mL in Toluene	FD1015S	1.2mL	
Dimethylanthranilate		3866K	1g	85-91-6
1,4-Dimethyl anthraquinone		3869K	10mg	1519-36-4
Dimethylarsinic acid		PS-51	500mg	75-60-5
	1000ug/mL in H2O	PS-51AJS	1mL	
Dimethyl azelate (TECH)		Pz-375	10g	1732-10-1
Dimethyl 80% behenyl benzyl ammonium chloride (TECH)		S-612-1	10g	R
2,5-Dimethylbenzaldehyde (S.G.)		F2337	1g	**5779-94-2**
	1000ug/mL in Acetonitrile	F2337JS	1mL	
	1000ug/mL in Acetonitrile	F2337S	5mL	
2,5-Dimethylbenzaldehyde (DNPH Derivative) (S.G.)		F2346	100mg	**152477-96-8**
	100ug/mL in Acetonitrile	F2346JS	1mL	
	100ug/mL in Acetonitrile	F2346S	5mL	
N,N-Dimethylbenzamide (S.G.)		F2259	5g	**611-74-5**
	1300ug/mL in Acetonitrile	F2259JS	1mL	
	1300ug/mL in Acetonitrile	F2259S	5mL	
7,12-Dimethylbenz(a)anthracene (S.G.)		F918	100mg	**57-97-6**
	100ug/mL in Toluene	F918JS	1mL	
	100ug/mL in Toluene	F918S	5mL	
7,12-Dimethylbenz(a)anthracene (d16)	50ug/mL in Methylene chloride	FD918S	1.2mL	
™ 9,10-Dimethyl-1,2-benzanthracene see F918 7,12-Dimethylbenz(a)anthracene				
Dimethyl 1,2-benzendicarboxylate		PS-901	1g	**131-11-3**
1,2-Dimethylbenzene		O-779	10g	**95-47-6**
1,3-Dimethylbenzene		O-780	10g	**108-38-3**
1,4-Dimethylbenzene		O-781	10g	**106-42-3**
2,4-Dimethylbenzene sulfonic acid sodium salt		4036F	1g	**827-21-4**
3,3′-Dimethyl benzidine		F991	1g	**119-93-7**
2,2-Dimethyl-1,3-benzodioxole-4-ol		MET-739A	500mg	**R**
2,2-Dimethylbenzo-1,3-dioxol-4-yl methylcarbamate		PS-739	250mg	**22781-23-3**
2,4-Dimethylbenzoic acid		4040F	1g	**611-01-8**
2,6-Dimethylbenzonitrile		4041F	1g	**6575-13-9**
2,4-Dimethylbenzophenone		4040	10g	**1140-14-3**
4,4′-Dimethylbenzophenone		4041E	5g	**611-97-2**
a,a-Dimethylbenzyl alcohol (S.G.)		O-215	500mg	**617-94-7**
		O-215	2g	**617-94-7**
3,4-Dimethylbenzylamine		3875K	100mg	**102-48-7**
N,N-Dimethylbenzylamine		4045	5g	**103-83-3**
2,5-Dimethylbenzyl chloride		3878K	1g	**824-45-3**
3,4-Dimethylbenzyl chloride		4043F	5g	**102-46-5**
2,2′-Dimethyl biphenyl (S.G.)		F1016	10mg	**605-39-0**
	100ug/mL in Toluene	F1016JS	1mL	
	100ug/mL in Toluene	F1016S	5mL	
3,3′-Dimethyl biphenyl (S.G.)		F1017	100mg	**612-75-9**
	100ug/mL in Hexane	F1017JS	1mL	
	100ug/mL in Hexane	F1017S	5mL	
4,4′-Dimethyl biphenyl (S.G.)		F1018	100mg	**613-33-2**
	100ug/mL in Toluene	F1018JS	1mL	
	100ug/mL in Toluene	F1018S	5mL	
1,1′-Dimethyl-4,4′-bipyridinium dichloride		PS-366	500mg	**1910-42-5**
N,N-Dimethyl-a-bromopropionamide		3881K	10mg	**54537-47-2**
2,3-Dimethyl-1,3-butadiene (S.G.)		O-2056	1g	**513-81-5**
		O-2056	5g	**513-81-5**
2,2-Dimethyl butane		O-738	1g	**75-83-2**
2,3-Dimethyl butane		O-730	2g	**79-29-8**
2,3-Dimethyl-2,3-butanediol		O-203	1g	**76-09-5**
3,3-Dimethyl-2-butanol (S.G.)		O-2055	1g	**464-07-3**
		O-2055	5g	**464-07-3**

Category Name	Specification	Catalog#	Size	CAS#
2,3-Dimethyl-1-butene (S.G.)		O-2058	1g	**563-78-0**
		O-2058	5g	**563-78-0**
2,3-Dimethyl-2-butene (S.G.)		O-2057	500mg	**563-79-1**
1,3-Dimethylbutylamine		3884K	100mg	**108-09-8**
2,2-Dimethylbutyric acid		3887K	100mg	**595-37-9**
(E)-2-Dimethylcarbamoyl-1-methylvinyldimethyl phosphate		PS-602	100mg	**141-66-2**
Dimethyl carbitol adipate		3886K	1g	**R**
Dimethyl carbonate (S.G.)		O-396	5g	**616-38-6**
0,0-Dimethyl-O-(2-chloro-4-nitrophenyl)phosphorothioate		PS-669	1g	**2463-84-5**
Dimethyl chlorothiophosphate		PS-91	1g	**2524-03-0**
Dimethyl cocoamine (TECH)		S-503	10g	**61788-93-0**
Dimethylcyanamide		3890K	100mg	**1467-79-4**
cis-1,2-Dimethylcyclohexane (S.G.)		F2463	1g	**2207-01-4**
	100ug/mL in Methanol	F2463JS	1mL	
	100ug/mL in Methanol	F2463S	5mL	
Dimethyl-1,4-cyclohexane dicarboxylate (S.G.)		O-488	5g	**94-60-0**
3,5-Dimethylcyclohexanol		3893K	1g	**5441-52-1**
2,3-Dimethylcyclohexylamine		3896K	100mg	**42195-92-6**
N,N-Dimethylcyclohexylamine		4048E	5g	**98-94-2**
3,3′-Dimethyl-4,4′-diaminodiphenylmethane (S.G.)		O-2399	100mg	**838-88-0**
0,0-Dimethyl-O-[2-(diethylamino)-6-methyl-4-pyrimidinyl]phosph		PS-644	250mg	**29232-93-7**
S,S′-Dimethyl 2-difluoromethyl-4-isobutyl-6-trifluoromethylpyridine-3,5-dicarbothioate		PS-2173	100mg	**97886-45-8**
Dimethyldihydroresorcinol		4211F	1g	**126-81-8**
0,0-Dimethyl-O-p-(dimethylsulfamoyl)phenyl phosphorothioate		PS-671	250mg	**52-85-7**
2,2-Dimethyl-1,3-dioxane-4,6-dione		3902K	1g	**2033-24-1**
2,2-Dimethyl-1,3-dioxolane		3899K	10mg	**2916-31-6**
N,N-Dimethyl-2,2-diphenylacetamide		PS-350	250mg	**957-51-7**
3,3′-Dimethyl-1,1′-diphenyl(4-4′-bi-2-pyrazoline)-5,5′-dione		4058C	1g	**R**
1,2-Dimethyl-3,5-diphenyl-1H-pyrazolium methyl sulfate		PS-404	250mg	**43222-48-6**
2,9-Dimethyl-4,7-diphenyl-1,10-phenanthroline		4212F	100mg	**4733-39-5**
2,9-Dimethyl-4,7-diphenyl-1,10-phenanthroline-x,x-disulfonic acid disodium salt		4213F	100mg	**52698-84-7**
2,5-Dimethyldiphenyl sulfone		4058E	5g	**R**
6,7-Dimethyl-2,3-di(2-pyridyl)quinoxaline		3905K	10mg	**6627-38-9**
Dimethyl disulfide (S.G.)		O-2311	1g	**624-92-0**
Dimethyldithiocarbamic acid dimethylammonium salt		4059B	1g	**598-64-1**
Dimethyldithiocarbamic acid, ferric salt		PS-20	250mg	**14484-64-1**
Dimethyldithiocarbamic acid, zinc salt		PS-21	1g	**137-30-4**
N,N′-Dimethyldithiooxamide		4060	10g	**120-79-6**
N,N-Dimethyldodecylamine (S.G.)		O-283	5g	**112-18-5**
Dimethyl endothal (S.G.)		F2450	10mg	**R**
	100ug/mL in Toluene	F2450JS	1mL	
	100ug/mL in Toluene	F2450S	5mL	
1,1-Dimethylethylbenzene		O-763	2g	**98-06-6**
Dimethylethylenediamine symmetrical		4065B	5g	**110-70-3**
N,N-Dimethyl-N′-ethylethylenediamine		3914K	100mg	**123-83-1**
N-(1,1-Dimethylethyl)-N′-ethyl-6-methoxy-1,3,5-triazine-2,4-di		PS-2120	1g	**33693-04-8**
4-(1,1-Dimethylethyl)-N-(1-methylpropyl)-2,6-dinitrobenzenamine		PS-1004	500mg	**33629-47-9**
4-(1,1-Dimethyl-1-ethyl)phenol		O-869	5g	**98-54-4**
O-(2-(1,1-Dimethylethyl)-5-pyrimidinyl) O-ethyl O-(1-methylethyl) phosphorothioate		PS-2192	100mg	**96182-53-5**
0,0-Dimethyl-S-(2-ethylsulfinylethyl)phosphorothioate		PS-641	50mg	**301-12-2**
0,0-Dimethyl-S-(2-ethylsulfonylethyl)phosphorothioate		PS-642	100mg	**17040-19-6**
N-[5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl]-N,N′-dimethylu		PS-407	1g	**34014-18-1**
S-[(1,1-Dimethylethylthio)methyl]-0,0-diethyl phosphorodithioa		PS-680	250mg	**13071-79-9**
N,N-Dimethylformamide (S.G.)		F2532	5g	**68-12-2**
	200ug/mL in Methylene chloride	F2532JS	1mL	
	200ug/mL in Methylene chloride	F2532S	5mL	
N,N-Dimethylformamide (S.G.)		O-252	10g	**68-12-2**
N,N-Dimethylformamide-d7 (S.G.)		F2551	100mg	**4472-41-7**
N,N-Dimethylformamide (carbonyl-13C1) (S.G.)		FC2532-1	1g	**R**
		FC2532-B	0.5g	**R**
N,N-Dimethylformamidedimethyl acetal		4066E	5g	**4637-24-5**
Dimethyl fumarate		4100J	1g	**624-49-7**
Dimethyl glutarate		4120H	1g	**1119-40-0**
3,3-Dimethylglutaric acid		3917K	1g	**4839-46-7**
3,3′-Dimethyl glutaric anhydride		4070	2g	**4160-82-1**
3,3-Dimethylglutarimide		4081F	1g	**1123-40-6**
Dimethylglyoxime (S.G.)		O-867	2g	**95-45-4**
		O-867	10g	**95-45-4**
1,1-Dimethylguanidine hydrochloride		3920K	10mg	**22583-29-5**
2,2-Dimethyl heptane		4094H	500mg	**R**
2,5-Dimethyl heptane		4064H	500mg	**2216-30-0**

Category Name	Specification	Catalog#	Size	CAS#
2,6-Dimethyl heptane		4065H	100mg	**R**
3,3-Dimethyl heptane		4066H	100mg	**4032-86-4**
3,4-Dimethyl heptane		4067H	500mg	**922-28-1**
3,5-Dimethyl heptane		4068H	500mg	**926-82-9**
4,4-Dimethyl heptane		4069H	100mg	**R**
2,6-Dimethyl-4-heptanone (S.G.)		F2402	1g	**108-83-8**
	1000ug/mL in Methanol:Water (90:10)	F2402JS	1mL	
	1000ug/mL in Methanol:Water (90:10)	F2402S	5mL	
2,6-Dimethyl-4-heptanone (S.G.)		O-802	1g	**108-83-8**
		O-802	5g	**108-83-8**
trans-2,2-Dimethyl-3-heptene (S.G.)		O-2059	100mg	**19550-75-5**
2,6-Dimethyl-1-heptene (S.G.)		O-2060	100mg	**3074-78-0**
2,6-Dimethyl-3-heptene (cis & trans) (S.G.)		O-2061	100mg	**2738-18-3**
		O-2061	500mg	**2738-18-3**
3,5-Dimethyl-3-heptene, cis and trans (S.G.)		O-2062	500mg	**59643-68-4**
		O-2062	1g	**59643-68-4**
Dimethyl hexadecylamine (TECH)		S-501	10g	**112-69-6**
2,5-Dimethyl-1,5-hexadiene (S.G.)		O-2065	1g	**627-58-7**
2,5-Dimethyl-2,4-hexadiene (S.G.)		O-2063	1g	**764-13-6**
2,2-Dimethyl hexane		4080H	500mg	**590-73-8**
2,4-Dimethyl hexane (S.G.)		O-2066	500mg	**589-43-5**
		O-2066	1g	**589-43-5**
2,5-Dimethyl hexane (S.G.)		O-2067	500mg	**592-13-2**
3,4-Dimethyl hexane (S.G.)		O-2068	500mg	**583-48-2**
		O-2068	1g	**583-48-2**
2,5-Dimethyl-2,5-hexanediol		4080E	10g	**110-03-2**
2,3-Dimethyl-2-hexene (S.G.)		O-2064	50mg	**7145-20-2**
		O-2064	50mg	**7145-20-2**
trans-2,2-Dimethyl-3-hexene (S.G.)		O-2069	100mg	**3123-93-1**
		O-2069	500mg	**3123-93-1**
2,5-Dimethyl-2-hexene (S.G.)		O-2071	500mg	**3404-78-2**
		O-2071	1g	**3404-78-2**
cis-2,5-Dimethyl-3-hexene		4089H	100mg	**692-70-6**
trans-2,5-Dimethyl-3-hexene (S.G.)		O-2074	100mg	**10557-44-5**
3,4-Dimethyl-1-hexene (S.G.)		O-2072	250mg	**16745-94-1**
2,5-Dimethyl-3-hexyne-2,5-diol		4082F	1g	**142-30-3**
Dimethyl hexynol (TECH)		S-361	10g	**R**
5,5-Dimethylhydantoin		4085E	10g	**77-71-4**
Dimethylhydantoin formaldehyde resin		4076F	5g	**R**
1,1-Dimethylhydrazine (S.G.)		O-723	1g	**57-14-7**
1,2-Dimethylhydrazine dihydrochloride		4155J	100mg	**306-37-6**
Dimethyl-4-hydroxy isophthalate		4092H	5g	**5985-24-0**
O,N-Dimethylhydroxylamine hydrochloride		3923K	100mg	**6638-79-5**
2,4-Dimethyl-6-hydroxypyrimidine		3926K	100mg	**6622-92-0**
4,6-Dimethyl-2-hydroxypyrimidine dihydrate		3932K	1g	**108-79-2**
4,6-Dimethyl-2-hydroxypyrimidine hydrochloride		3929K	1g	**34289-60-6**
2,3-Dimethylindole		3935K	100mg	**91-55-4**
1,2-Dimethylindole		4122B	1g	**875-79-6**
Dimethyl isophthalate (S.G.)		O-527	5g	**1459-93-4**
		O-527	10g	**1459-93-4**
Dimethyl isophthalate (S.G.)		Pt-26	10g	**1459-93-4**
Dimethyl isophthalate (TECH)		Pz-42	10g	**1459-93-4**
Dimethyl itaconate (S.G.)		O-489	2g	**617-52-7**
		O-489	10g	**617-52-7**
Dimethyl itaconate (TECH)		Pz-37	10g	**617-52-7**
Dimethyl maleate		4130	10g	**624-48-6**
2,3-Dimethylmaleic anhydride		4102A	1g	**766-39-2**
Dimethyl malonate		4135B	5g	**108-59-8**
Dimethylmalonic acid		4145E	5g	**595-46-0**
4,6-Dimethyl-2-mercaptopyrimidine		3938K	100mg	**22325-27-5**
N,N-Dimethyl-N′-[3-[[(methylamino)-carbonyl]oxy]phenyl]methani		PS-400	250mg	**23422-53-9**
O,O-Dimethyl S-2-(1-N-methylcarbamoylethylmercapto)ethyl thiophosphate		PS-2187	100mg	**2275-23-2**
O,O-Dimethyl-S-methylcarbamoyl methyl phosphorothioate		PS-2017	100mg	**1113-02-6**
O,O-Dimethyl-S-(N-methylcarbamoylmethyl)phosphorodithioate		PS-659	250mg	**60-51-5**
N,N-Dimethyl-N′-(2-methyl-4-chlorophenyl)-formanidine		PS-840	250mg	**6164-98-3**
N,N-Dimethyl-N′-[4-(1-methylethyl)phenyl]urea		PS-2000	100mg	**34123-59-6**
Dimethyl methylphosphonate		4138A	10g	**756-79-6**
2,2-Dimethyl-3-(2-methyl-1-propenyl)-cyano(3-phenoxyphenyl) methyl ester cyclopropanecarboxylic acid		PS-2198	100mg	**39515-40-7**
2,2-Dimethyl-3-[2-methylpropenyl]cyclopropane carboxylic acid		PS-96	5mL	**584-79-2**
3,5-Dimethyl-4-[methylthio]phenyl methylcarbamate		PS-543	100mg	**2032-65-7**
O,O-Dimethyl-O-[4-(methylthio)-m-tolyl]-phosphorothioate		PS-655	250mg	**55-38-9**
2,6-Dimethylmorpholine		4150	10g	**141-91-3**

Category Name	Specification	Catalog#	Size	CAS#
d,d′-cis-cis Dimethylmuconic acid		4153	5g	**R**
1,2-Dimethylnaphthalene (S.G.)		F1022	100mg	**573-98-8**
	100ug/mL in Toluene	F1022JS	1mL	
	100ug/mL in Toluene	F1022S	5mL	
1,3-Dimethylnaphthalene (S.G.)		F1019	100mg	**575-41-7**
	100ug/mL in Toluene	F1019JS	1mL	
	100ug/mL in Toluene	F1019S	5mL	
1,4-Dimethylnaphthalene (S.G.)		F1020	100mg	**571-58-4**
	100ug/mL in Toluene	F1020JS	1mL	
	100ug/mL in Toluene	F1020S	5mL	
1,5-Dimethylnaphthalene (S.G.)		F1021	10mg	**571-61-9**
	100ug/mL in Toluene	F1021JS	1mL	
	100ug/mL in Toluene	F1021S	5mL	
1,8-Dimethylnaphthalene (S.G.)		F1025	100mg	**569-41-5**
	100ug/mL in Toluene	F1025JS	1mL	
	100ug/mL in Toluene	F1025S	5mL	
1,8-Dimethyl naphthalene (d12) Solution (S.G.)	50ug/mL in Toluene	FD1025S	1.2mL	
2,3-Dimethylnaphthalene (S.G.)		F1023	1g	**581-40-8**
	100ug/mL in Toluene	F1023JS	1mL	
	100ug/mL in Toluene	F1023S	5mL	
2,6-Dimethylnaphthalene (S.G.)		F1024	100mg	**581-42-0**
	100ug/mL in Toluene	F1024JS	1mL	
	100ug/mL in Toluene	F1024S	5mL	
2,6-Dimethylnaphthalene (d12)	50ug/mL in Toluene (d8)	FD1024S	1.2mL	
2,7-Dimethylnaphthalene (S.G.)		F1026	100mg	**582-16-1**
	100ug/mL in Toluene	F1026JS	1mL	
	100ug/mL in Toluene	F1026S	5mL	
Dimethyl naphthalene (mixed isomers) (S.G.)		O-784	5g	**28804-88-8**
N,N-Dimethyl-1-naphthylamine		4114F	1g	**86-56-6**
N,N′-Dimethyl-N,N′-dinitrosoterephthalamide ~70% in Mineral oil		4057C	10g	**R**
1,3-Dimethyl-2-nitrobenzene (S.G.)		F2051	5g	**81-20-9**
	2500ug/mL in t-Butylmethyl ether	F2051AJS	1mL	
	2500ug/mL in t-Butylmethyl ether	F2051AS	5mL	
	2000ug/mL in t-Butylmethyl ether	F2051JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2051S	5mL	
2,6-Dimethylnitrobenzene		F2051	5g	**81-20-9**
Dimethyl-5-nitroisophthalate		4158A	5g	**13290-96-5**
Dimethyl-p-nitrophenylphosphate (S.G.)		F2245	100mg	**950-35-6**
	100ug/mL in t-Butylmethyl ether	F2245JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2245S	5mL	
Dimethyl-p-nitrophenylphosphate		PS-613	100mg	**950-35-6**
	100ug/mL in Acetonitrile	PS-613AJS	1mL	
0,0-Dimethyl-0-p-nitrophenyl phosphorothioate		PS-94	250mg	**298-00-0**
Dimethyl 4-nitrophthalate		3256L	1g	
0,0-Dimethyl-0-(4-nitro-m-tolyl)phosphorothioate		PS-678	250mg	**122-14-5**
Dimethyl octadecylamine (TECH)		S-502	10g	**R**
3,7-Dimethyl-2,6-octadienal		O-226	1g	**5392-40-5**
5,7-Dimethyl-1,6-octadiene (S.G.)		O-2075	500mg	**6874-43-7**
trans-3,7-Dimethyl-2,6-octadien-1-ol		4125F	1g	**106-24-1**
2,2-Dimethyl octane		4241H	500mg	**R**
2,3-Dimethyl octane		4242H	100mg	**7146-60-3**
2,6-Dimethyl octane		4245H	500mg	**2051-30-1**
3,3-Dimethyl octane		4246H	500mg	**4110-44-5**
3,5-Dimethyl octane		4248H	500mg	**15869-93-9**
4,4-Dimethyl octane		4250H	500mg	**15869-95-1**
3,7-Dimethyl-6-octenal		O-227	2g	**106-23-0**
3,6-Dimethyl-4-octyne-3,6-diol		4156B	10g	**R**
Dimethyl octynediol (TECH)		S-362	10g	**78-66-0**
Dimethyl oxalate (S.G.)		O-490	1g	**553-90-2**
		O-490	5g	**553-90-2**
N,N-Dimethyloxamide		4137F	1g	**615-35-0**
0,0-Dimethyl-S-[4-oxo-1,2,3-benzotriazin-3(4H)-ylmethyl]phopho		PS-666	250mg	**86-50-0**
3-[2(3,5-Dimethyl-2-oxocyclohexyl)-2-hydroxyethyl]-glutarimide		PS-1002	100mg	**66-81-9**
Dimethyl parathion		PS-94	250mg	**298-00-0**
2,4-Dimethyl-1,3-pentadiene (S.G.)		O-2082	500mg	**1000-86-8**
		O-2082	1g	**1000-86-8**
2,3-Dimethylpentane (S.G.)		O-2077	1g	**565-59-3**
		O-2077	5g	**565-59-3**
2,2-Dimethyl pentane		O-2276	100mg	**590-35-2**
2,4-Dimethylpentane (S.G.)		O-2076	1g	**108-08-7**
3,3-Dimethyl pentane		4254H	500mg	**562-49-2**
2,2′-Dimethyl-1-pentanol		4161E	5g	**R**
2,4-Dimethyl-2-pentanol (S.G.)		O-2078	100mg	**625-06-9**
		O-2078	100mg	**625-06-9**
2,4-Dimethyl-3-pentanol		3999H	1g	**600-36-2**
2,4-Dimethyl-3-pentanone (S.G.)		O-2073	1g	**565-80-0**
		O-2073	5g	**565-80-0**

Category Name	Specification	Catalog#	Size	CAS#
2,3-Dimethyl-1-pentene (S.G.)		O-2083	100mg	3404-72-6
2,4-Dimethyl-1-pentene (S.G.)		O-2085	500mg	2213-32-3
		O-2085	1g	2213-32-3
2,4-Dimethyl-2-pentene (S.G.)		O-2086	500mg	625-65-0
		O-2086	1g	625-65-0
4,4-Dimethyl-1-pentene (S.G.)		O-2087	500mg	762-62-9
		O-2087	1g	762-62-9
cis-4,4-Dimethyl-2-pentene		O-2278	100mg	762-63-0
trans-4,4-Dimethyl-2-pentene		O-2279	500mg	690-08-4
1,4-Dimethylpentylamine		3939K	500mg	28292-43-5
2,9-Dimethyl-1,10-phenanthroline monohydrochloride		4143F	1g	7296-20-0
2,3-Dimethylphenol (S.G.)		O-2412	5g	526-75-0
2,4-Dimethylphenol (S.G.)		F34	1g	105-67-9
	100ug/mL in Methanol	F34JS	1mL	
	100ug/mL in Methanol	F34S	5mL	
2,4-Dimethylphenol (ring-d3) (S.G.)		FD34-A	0.1g	R
		FD34-C	0.25g	R
2,5-Dimethylphenol (S.G.)		O-2312	1g	95-87-4
2,6-Dimethylphenol (S.G.)		O-874	2g	576-26-1
		O-874	5g	576-26-1
3,4-Dimethylphenol (S.G.)		O-875	2g	95-65-8
		O-875	10g	95-65-8
3,5-Dimethylphenol (S.G.)		O-876	2g	108-68-9
		O-876	10g	108-68-9
2,5-Dimethyl phenoxyacetic acid		3941K	100mg	R
N,N-Dimethyl-p-phenylazoaniline		F917	100mg	60-11-7
N′-(2,4-Dimethylphenyl)-N-[(2,4-dimethylphenyl)imino]methyl]-N		PS-1005	250mg	33089-61-1
Dimethyl-4,4′-o-phenylenebis-(3-thioallophanate)		PS-230	250mg	23564-05-8
Dimethyl([1,2-phenylene]bis(iminocarbonothioyl))bis(carbamate)		PS-230	250mg	23564-05-8
4,5-Dimethyl-o-phenylene diamine		4189B	5g	3171-45-7
N,N-Dimethyl-p-phenylene diamine dihydrochloride (S.G.)		O-343	1g	536-46-9
		O-343	10g	536-46-9
s-Dimethyl-p-phenylenediamine dioxalate		4180	10g	R
N,N-Dimethyl-p-phenylenediamine sulfate		4190B	5g	6219-73-4
N-(2,4-Dimethylphenyl)formamide		MET-1005A	50mg	60397-77-5
N-(2,6-Dimethylphenyl)-N-(methoxyacetyl)-alanine methyl ester		PS-1099	100mg	57837-19-1
N-(2,6-Dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)aceta		PS-2137	100mg	77732-09-3
1,1-Dimethyl-3-phenylurea		PS-61	250mg	101-42-8
	100ug/mL in Toluene	PS-61JS	1mL	
1,1-Dimethyl-3-phenylurea		F2372	250mg	101-42-8
1,1-Dimethyl-3-phenylurea trichloroacetate		PS-364	1g	4482-55-7
Dimethyl phosphate ester of 3-hydroxy-N-methyl-cis-crotonamide		PS-609	250mg	6923-22-4
Dimethyl phosphite		4195B	10g	868-85-9
O,S-Dimethyl phosphoramidothioate		PS-676	100mg	10265-92-6
Dimethyl phosphorochloridothioate		PS-91	1g	2524-03-0
O,O-Dimethyl phosphorochloridothioate		PS-91	1g	2524-03-0
	100ug/mL in Acetonitrile	PS-91AJS	1mL	
	100ug/mL in Toluene	PS-91JS	1mL	
O,O-Dimethyl phosphorodithioate, S-ester with 4-[mercaptomethy		PS-679	250mg	950-37-8
Dimethylphthalate		PS-901	1g	131-11-3
Dimethyl phthalate (S.G.)		F71	1g	131-11-3
	100ug/mL in Ethyl acetate	F71AJS	1mL	
	100ug/mL in Ethyl acetate	F71AS	5mL	
	100ug/mL in Methanol	F71JS	1mL	
	100ug/mL in Methanol	F71S	5mL	
Dimethyl phthalate (ring-d4) (S.G.)		FD71-A	0.1g	R
	100ug/mL in n-Nonane	FD71S	1.2mL	
Dimethyl phthalate (S.G.)		O-526	10g	131-11-3
Dimethyl phthalate (S.G.)		Pt-27	10g	131-11-3
Dimethyl phthalate (TECH)		Pz-41	10g	131-11-3
O,O-Dimethyl-S-phthalimido methyl phosphorodithioate		PS-653	1g	732-11-6
Dimethyl pimelate		4285H	1g	1732-08-7
trans-2,5-Dimethylpiperazine (S.G.)		O-2427	1g	2815-34-1
3,3-Dimethylpiperidine (S.G.)		O-2422	100mg	1193-12-0
3,5-Dimethylpiperidine		3953K	1g	35794-11-7
2,6-Dimethylpiperidine (S.G.)		O-284	1g	504-03-0
N,N-Dimethyl-piperidinium chloride		PS-1047	10mg	24307-26-4
Dimethylpolysiloxane		4155F	1g	R
Dimethylpolysiloxane (TECH)		S-658	10g	63148-62-9
N,N,-Dimethyl-1,3-propanediamine (S.G.)		O-327	10g	109-55-7
2,2-Dimethyl-1,3-propanediol		4196A	10g	126-30-7
N,N-Dimethylpropionamide		5498A	5g	758-96-3
N-[1,1-Dimethylpropynyl]-3,5-dichlorobenzamide		PS-349	1g	23950-58-5
3,5-Dimethylpyrazole (S.G.)		O-696	500mg	67-51-6
		O-696	5g	67-51-6
2,4-Dimethyl pyridine		O-699	2g	108-47-4
2,6-Dimethyl pyridine		O-700	2g	108-48-5
2,5-Dimethylpyrrole		3956K	100mg	625-84-3
2,5-Dimethylpyrrolidine		3959K	100mg	3378-71-0
2,6-Dimethylquinoline		4210	2g	877-43-0
2,3-Dimethylquinoxaline		4215E	5g	2379-55-7
Dimethyl sebacate (S.G.)		O-491	5g	106-79-6
		O-491	10g	106-79-6
Dimethyl sebacate (TECH)		Pz-59	10g	106-79-6
Dimethyl soya amine (TECH)		S-504	10g	R
Dimethylstearylamine oxide (TECH)		S-663	10g	2571-88-2
Dimethyl suberate		4211C	10g	1732-09-8
N,N-Dimethylsuccinamic acid		PS-340	1g	2564-95-6
	100ug/mL in Acetonitrile	PS-340AJS	1mL	
	100ug/mL in MTBE	PS-340JS	1mL	
Dimethyl succinate		4212B	10g	106-65-0
2,2-Dimethylsuccinic acid		4268H	1g	597-43-3
O,O-Dimethyl-O-p-sulfamoylphenylphosphorothioate		PS-1025	1g	115-93-5
Dimethyl sulfate (S.G.)		O-941	1g	77-78-1
Dimethyl sulfide		O-2314	5g	75-18-3
Dimethyl sulfite		4197H	1g	616-42-2
Dimethyl-5-sulfoisophthalate sodium salt		4286H	10g	3965-55-7
2,4-Dimethylsulfolane (S.G.)		O-2080	100mg	1003-78-7
Dimethyl sulfone		1873L	1g	67-71-0
Dimethyl sulfoxide		O-976	10g	67-68-5
Dimethyl terephthalate (S.G.)		O-528	5g	120-61-6
		O-528	10g	120-61-6
2,5-Dimethylterephthalic acid		4219F	1g	6051-66-7
Dimethyl-2,3,5,6-tetrachloroterephthalate		PS-33	250mg	1861-32-1
N,N-Dimethyltetradecylamine		4226F	1g	112-75-4
Dimethyl-3,3-thiodipropionate		4213E	10g	4131-74-2
N,N′-Dimethylthiourea		4232F	5g	534-13-4
Dimethyl thiuram disulfide		PS-24	1g	137-26-8
N,N-Dimethyl-p-toluene sulfonamide (S.G.)		O-967	500mg	599-69-9
N,N-Dimethyl-m-toluidine		3962K	100mg	121-72-2
N,N-Dimethyl-o-toluidine		4236F	1g	609-72-3
N,N-Dimethyl-p-toluidine (S.G.)		F2396	5g	99-97-8
Dimethyl-[2,2,2-trichloro-1-hydroxyethyl]phosphonate		PS-608	1g	52-68-6
Dimethyl-1-[2,4,5-trichlorophenyl]-2-chlorovinyl phosphate		PS-611	250mg	22248-79-9
O,O-Dimethyl-O-[2,4,5-trichlorophenyl]phosphorothioate		PS-657	100mg	299-84-3
O,O-Dimethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate		PS-418	250mg	5598-13-0
N-2,4-Dimethyl-5-[[(trifluoromethyl)sulfonyl]amino]phenyl] ace		PS-2050	100mg	53780-34-0
1,1-Dimethyl-3-(a,a,a-trifluoro-m-tolyl) urea		PS-369	1g	2164-17-2
5,6-Dimethyluracil		1468L	100mg	26305-13-5
1,3-Dimethylurea (S.G.)		O-986	1g	96-31-1
		O-986	2g	96-31-1
Dimilin™		PS-1028	250mg	35367-38-5
2,2′-Dinaphthyl (S.G.)		F1027	100mg	612-78-2
	100ug/mL in Toluene	F1027JS	1mL	
	100ug/mL in Toluene	F1027S	5mL	
Di-B-naphthyl-p-phenylene diamine (TECH)		0u-41	3g	93-46-9
		0u-41	10g	93-46-9
N,N-Di-2-naphthyl-p-phenylenediamine		0u-41	3g	93-46-9
Dinex		F2468	100mg	131-89-5
Diniconazole		PS-2152	100mg	83657-24-3
	100ug/mL in Methanol	PS-2152JS	1mL	
2,4-Dinitroaniline (S.G.)		F2507	5g	97-02-9
	1000ug/mL in Toluene	F2507JS	1mL	
	1000ug/mL in Toluene	F2507S	5mL	
2,4-Dinitroaniline (S.G.)		O-369	5g	97-02-9
		O-369	10g	97-02-9
3,5-Dinitroaniline (S.G.)	1000ug/mL in Acetonitrile	F2577AJS	1mL	
2,4-Dinitrobenzaldehyde		1537L	100mg	528-75-6
3,5-Dinitrobenzamide		3965K	1g	121-81-3
m-Dinitrobenzene (S.G.)		F990	500mg	99-65-0
	1000ug/mL in Acetonitrile	F990AJS	1mL	
	1000ug/mL in Acetonitrile	F990AS	5mL	
	100ug/mL in Methanol	F990JS	1mL	
	100ug/mL in Methanol	F990S	5mL	
m-Dinitrobenzene (S.G.)		O-851	500mg	99-65-0
		O-851	5g	99-65-0
o-Dinitrobenzene (S.G.)		F2107	500mg	528-29-0
	1000ug/mL in Methanol	F2107AJS	1mL	
	1000ug/mL in Methanol	F2107AS	5mL	
	100ug/mL in Methanol	F2107JS	1mL	
	100ug/mL in Methanol	F2107S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
p-Dinitrobenzene (S.G.)		F2108	500mg	**100-25-4**
	100ug/mL in Methanol	F2108JS	1mL	
	100ug/mL in Methanol	F2108S	5mL	
2,4-Dinitrobenzoic acid		4246F	1g	**610-30-0**
2,5-Dinitrobenzoic acid		3091L	10mg	**610-28-6**
3,5-Dinitrobenzoic acid		4220	10g	**99-34-3**
3,5-Dinitrobenzoyl chloride (S.G.)		0-135	500mg	**99-33-2**
		0-135	5g	**99-33-2**
2,2′-Dinitrobiphenyl (S.G.)		F2261	1g	**2436-96-6**
	1000ug/mL in Methylene chloride	F2261JS	1mL	
	1000ug/mL in Methylene chloride	F2261S	5mL	
4,4-Dinitrobiphenyl		4248F	1g	**1528-74-1**
2,4-Dinitro-6-sec-butylanisole		PS-1104	100mg	**6099-79-2**
2,4-Dinitro-6-sec-butylphenol		PS-56	100mg	**88-85-7**
4,6-Dinitro-2-sec-butylphenol ethanolamine salt		PS-433	1g	**R**
	100ug/mL in H2O	PS-433AJS	1mL	
	100ug/mL in Toluene	PS-433JS	1mL	
4,6-Dinitro-o-cresol (S.G.)		F60	1g	**534-52-1**
	1000ug/mL in Methanol	F60JS	1mL	
	1000ug/mL in Methanol	F60S	5mL	
4,6-Dinitro-o-cresol		PS-57	1g	**534-52-1**
2,6-Dinitro-N,N-di-n-propyl cumidine		PS-406	250mg	**33820-53-0**
3,5-Dinitro-N4,N4-dipropyl sulfanilamide		PS-410	1g	**19044-88-3**
2,4-Dinitro-5-fluoroaniline		1783L	100mg	**367-81-7**
2,4-Dinitrofluorobenzene		4240	10g	**70-34-8**
Dinitrol™		PS-57	1g	**534-52-1**
3,5-Dinitro-4-methylbenzoic acid		3968K	1g	**16533-71-4**
2-4-Dinitro-1-naphthol-7-sulfonic acid		4264B	5g	**483-84-1**
N-(2,4-Dinitro-1-naphthyl)-benzene sulfonamide		4266F	500mg	**R**
2,4-Dinitro-6-octylphenyl crotonate:2,6-Dinitro-4-octylphenyl		PS-27	100mg	**39300-45-3**
2,4-Dinitrophenol (min 15wt% water) (S.G.)		F59	5g	**51-28-5**
	100ug/mL in Methanol	F59JS	1mL	
	100ug/mL in Methanol	F59S	5mL	
2,4-Dinitrophenol (ring-d3) (S.G.)		FD59-A	0.1g	**R**
2,4-Dinitrophenylacetic acid		4260F	1g	**643-43-6**
2,4-Dinitrophenylhydrazine (water added) (S.G.)		0-724	1g	**119-26-6**
		0-724	10g	**119-26-6**
3,5-Dinitrosalicyclic acid		4265F	1g	**609-99-4**
2,3-Dinitrotoluene		4268F	1g	**602-01-7**
2,4-Dinitrotoluene (S.G.)		F35	1g	**121-14-2**
	1000ug/mL in Acetonitrile	F35AJS	1mL	
	1000ug/mL in Acetonitrile	F35AS	5mL	
	100ug/mL in Methanol	F35JS	1mL	
	100ug/mL in Methanol	F35S	5mL	
2,4-Dinitrotoluene (13C4) Solution (S.G.)	100ug/mL in n-Nonane	FC35S	1.2mL	
2,4-Dinitrotoluene (ring-d3) Solution (S.G.)	100ug/mL in n-Nonane	FD35S	1.2mL	
2,6-Dinitrotoluene (S.G.)		F36	1g	**606-20-2**
	1000ug/mL in Acetonitrile	F36AJS	1mL	
	1000ug/mL in Acetonitrile	F36AS	5mL	
	100ug/mL in Methanol	F36JS	1mL	
	100ug/mL in Methanol	F36S	5mL	
2,6-Dinitrotoluene (methyl-d3) Solution (S.G.)	100ug/mL in n-Nonane	FD36S	1.2mL	
3,4-Dinitrotoluene (S.G.)		F2519	500mg	**610-39-9**
	1000ug/mL in Methanol	F2519JS	1mL	
	1000ug/mL in Methanol	F2519S	5mL	
3,5-Dinitro-L-tyrosine		1483L	100mg	**17360-11-1**
Dinocap (S.G.)		F2109	100mg	**39300-45-3**
	100ug/mL in Methanol	F2109JS	1mL	
	100ug/mL in Methanol	F2109S	5mL	
Dinocap		PS-27	100mg	**39300-45-3**
Dinocap (ring-13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC2109S	1.2mL	
Di-n-octyl isophthalate (S.G.)		Pt-28	10g	**4654-18-6**
Di-n-octyl isophthalate (TECH)		Pz-465	10g	**4654-18-6**
Dinonyl adipate (TECH)		Pz-320	5g	**R**
Dinonyl phenol (TECH)		S-308	10g	**1323-65-5**
Dinonyl phthalate (S.G.)		F2317	5g	**84-76-4**
	1000ug/mL in Hexane	F2317JS	1mL	
	1000ug/mL in Hexane	F2317S	5mL	
Dinonyl phthalate (S.G.)		Pt-42	10g	**84-76-4**
Dinoseb (S.G.)		F964	100mg	**88-85-7**
	100ug/mL in Acetone	F964JS	1mL	
	100ug/mL in Acetone	F964S	5mL	
Dinoseb		PS-56	100mg	**88-85-7**
	100ug/mL in Acetonitrile	PS-56AJS	1mL	
Dinoseb methyl ether (S.G.)		F965	100mg	**6099-79-2**
	100ug/mL in Methanol	F965JS	1mL	
	100ug/mL in Methanol	F965S	5mL	
Dinoseb methyl ether		PS-1104	100mg	**6099-79-2**
Dinotefuran		PS-2295	50mg	**165252-70-0**
	100ug/mL in Methanol	PS-2295AJS	1mL	
	100ug/mL in Toluene	PS-2295JS	1mL	
Dioctadecylamine		1528L	1g	**112-99-2**
Di-n-octyl adipate (TECH)		Pz-325	10g	**R**
Di-n-octyl azelate (TECH)		Pz-366	5g	**R**
2,6-Dioctyldecyl-p-cresol		4301H	1g	**R**
Di-tert-octyl diphenyl oxide (TECH)		Pz-950	10g	**R**
Dioctyl ether		4285F	1g	**629-82-3**
Dioctyl phosphite		4273C	10g	**3658-48-8**
Di-n-octyl phthalate (S.G.)		F69	1g	**117-84-0**
	100ug/mL in Hexane	F69JS	1mL	
	100ug/mL in Hexane	F69S	5mL	
Di-n-octyl phthalate (ring-d4) (S.G.)		FD69-A	0.1g	**R**
	100ug/mL in n-Nonane	FD69S	1.2mL	
Di-n-octyl phthalate (S.G.)		0-529	5g	**117-84-0**
		0-529	10g	**117-84-0**
Di-n-octyl phthalate (S.G.)		Pt-29	10g	**117-84-0**
Di-n-octyl phthalate (TECH)		Pz-49	10g	**117-84-0**
Di-n-octyl succinate		6700F	5g	**R**
Dioxacarb		PS-2022	250mg	**6988-21-2**
Dioxacarb (S.G.)		F2359	250mg	**6988-21-2**
	1000ug/mL in Methanol	F2359JS	1mL	
	1000ug/mL in Methanol	F2359S	5mL	
1,4-Dioxane (S.G.)		F978	2g	**123-91-1**
	100ug/mL in Methanol	F978JS	1mL	
	100ug/mL in Methanol	F978S	5mL	
1,4-Dioxane (S.G.)		0-568	2g	**123-91-1**
		0-568	10g	**123-91-1**
1,4-Dioxane (d8) (S.G.)		FD978-5	5g	**17647-74-4**
S,S′-p-Dioxane-2,3-bis[0,0-diethyl phosphorodithioate]		PS-658	100mg	**78-34-2**
S,S′-(p-Dioxane-2.3-diyl)0,0,0′,0′-tetraethyl di(phosphorodithioate)		PS-658	100mg	**78-34-2**
Dioxathion (S.G.)		F2110	100mg	**78-34-2**
	100ug/mL in Methanol	F2110JS	1mL	
	100ug/mL in Methanol	F2110S	5mL	
Dioxathion		PS-658	100mg	**78-34-2**
1,3-Dioxolane		4275E	10g	**646-06-0**
2-(1,3-Dioxolan-2-yl)phenyl methylcarbamate		PS-2022	250mg	**6988-21-2**
Dioxydemeton-S-methyl		PS-642	100mg	**17040-19-6**
	100ug/mL in Acetonitrile	PS-642AJS	1mL	
	100ug/mL in Toluene	PS-642JS	1mL	
Dipentaerythritol		4278A	10g	**126-58-9**
Dipentene (S.G.)		0-750	10g	**138-86-3**
Dipentyl phthalate		0-520	500mg	**131-18-0**
Di-n-pentyl phthalate (ring-1,2-13C2, dicarboxyl-13C2)	100ug/mL in n-Nonane	FC2263S	1.2mL	
Diphacinone		PS-288	100mg	**82-66-6**
	100ug/mL in Acetonitrile	PS-288AJS	1mL	
Diphenamid		PS-350	250mg	**957-51-7**
	100ug/mL in Acetonitrile	PS-350AJS	1mL	
Diphenamid (S.G.)		F2228	250mg	**957-51-7**
	100ug/mL in t-Butylmethyl ether	F2228JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2228S	5mL	
Diphenatrile		PS-64	1g	**86-29-3**
Diphenic acid		4280B	5g	**482-05-3**
m-Diphenoxybenzene (S.G.)		F225S	500mg	**3379-38-2**
	1000ug/mL in Methylene chloride	F225SJS	1mL	
	1000ug/mL in Methylene chloride	F225SS	5mL	
1,2-Diphenoxyethane (S.G.)		0-590	500mg	**104-66-5**
		0-590	2g	**104-66-5**
Di-phenthane-70™		PS-6	250mg	**97-23-4**
Diphenyl		PS-2032	1g	**92-52-4**
Diphenyl acetaldehyde		3974K	100mg	**947-91-1**
Diphenylacetic acid (S.G.)		0-84	1g	**117-34-0**
		0-84	10g	**117-34-0**
Diphenylacetonitrile		PS-64	1g	**86-29-3**
	100ug/mL in Methanol	PS-64JS	1mL	
2-Diphenylacetyl-1,3-indandione		PS-288	100mg	**82-66-6**
Diphenylamine		PS-427	1g	**122-39-4**
Diphenylamine (S.G.)		F992	5g	**122-39-4**
	100ug/mL in Methanol	F992JS	1mL	
	100ug/mL in Methanol	F992S	5mL	
Diphenylamine (S.G.)		0-344	5g	**122-39-4**
		0-344	10g	**122-39-4**
Diphenylamine (diphenyl-d10) (S.G.)		FD992-A	0.1g	**R**
Diphenylamine-acetone reaction product (TECH)		0u-47	3g	**R**
		0u-47	10g	**R**

Category Name	Specification	Catalog#	Size	CAS#
p-Diphenylaminesulfonic acid sodium salt		4281E	500mg	**30582-09-3**
9,10-Diphenyl anthracene (S.G.)		F1028	100mg	**1499-10-1**
	100ug/mL in Toluene	F1028S	5mL	
m-Diphenylbenzene		F1055	1g	**92-06-8**
o-Diphenylbenzene		F1054	500mg	**84-15-1**
p-Diphenylbenzene		F1064	500mg	**92-94-4**
N,N-Diphenylbenzidine		4293H	100mg	**531-91-9**
2,5-Diphenyl-p-benzoquinone		4283E	2.5g	**844-51-9**
1,4-Diphenyl-1,3-butadiene		4278E	5g	**886-65-7**
trans-1,4-Diphenyl-2-butene-1,4-dione		4280F	1g	**959-28-4**
Diphenyl carbazone		4289F	1g	**538-62-5**
1,5-Diphenylcarbohydrazide		4284	5g	**140-22-7**
Diphenyl carbonate (S.G.)		0-397	2g	**102-09-0**
		0-397	5g	**102-09-0**
Diphenyl-4-carboxaldehyde		1552L	1g	**3218-36-8**
Diphenyldiethoxysilane		4284F	1g	**2553-19-7**
Diphenyl diimide		PS-851	1g	**103-33-3**
Diphenyl diimide		0-383	500mg	**103-33-3**
2,2-Diphenyl-N,N-dimethylacetamide		PS-350	250mg	**957-51-7**
Diphenyldisulfide		6930	5g	**882-33-7**
Diphenyl-p,p′-disulfonic acid		4290	10g	**R**
Diphenyl disulfonic acid potassium salt		4289	5g	**R**
Diphenyl ethanedione		0-822	2g	**134-81-6**
Diphenyl ether		0-596	5g	**101-84-8**
Diphenylethylenediamine (TECH)		0u-35	1g	**150-61-8**
		0u-35	3g	**150-61-8**
N,N-Diphenylformamide		4332E	5g	**607-00-1**
Diphenylfulvene		4331B	1g	**2175-90-8**
a,a-Diphenylglycine		4331H	100mg	**3060-50-2**
Diphenyl glycolic acid		0-102	1g	**76-93-7**
Diphenylglyoxime (S.G.)		0-868	500mg	**23873-81-6**
		0-868	5g	**23873-81-6**
1,3-Diphenylguanidine		4309F	10g	**102-06-7**
1,6-Diphenyl-1,3,5-hexatriene		2704L	10mg	**1720-32-7**
5,5-Diphenylhydantoin (S.G.)		F2111	1g	**57-41-0**
	100ug/mL in Methanol	F2111JS	1mL	
	100ug/mL in Methanol	F2111S	5mL	
1,2-Diphenylhydrazine (S.G.)		F37	100mg	**122-66-7**
1,1-Diphenylhydrazine hydrochloride		4332B	1g	**530-47-2**
1,1-Diphenyl-1-hydroxy-3-butanone		4190J	350mg	**R**
1,1-Diphenyl-1-hydroxy-3-butanone ethylene ketal		4200J	1g	**R**
4,5-Diphenyl-2-imidazolethiol		1504L	100mg	**2349-58-8**
2,3-Diphenyl-1-indenone		1555L	100mg	**1801-42-9**
Diphenyliodonium iodide		1573L	100mg	**2217-79-0**
1,3-Diphenylisobenzofuran		4275F	1g	**5471-63-6**
Diphenyl isophthalate (S.G.)		F1090	5g	**R**
	100ug/mL in Hexane	F1090JS	1mL	
	100ug/mL in Hexane	F1090S	5mL	
Diphenyl lead diacetate		1435L	100mg	**6928-68-3**
Diphenylmethane (S.G.)		0-767	5g	**101-81-5**
		0-767	10g	**101-81-5**
Diphenyl methanol		0-212	1g	**91-01-0**
Diphenyl methanone		0-823	2g	**119-61-9**
1,9-Diphenyl-1,3,6,8-nonatetraen-5-one		4334E	1g	**622-21-9**
2,5-Diphenyloxazole		4288F	1g	**92-71-7**
1,5-Diphenyl-3-pentadienone		4281F	1g	**538-58-9**
4,7-Diphenyl-1,10-phenanthroline		4269F	100mg	**1662-01-7**
N,N′-Diphenyl-p-phenylenediamine (S.G.)		0-345	5g	**74-31-7**
		0-345	10g	**74-31-7**
N,N′-Diphenyl-p-phenylenediamine (TECH)		0u-36	3g	**74-31-7**
		0u-36	10g	**74-31-7**
Diphenylphosphinic acid		4338B	1g	**1707-03-5**
Diphenylphosphinous chloride		4334B	1g	**1079-66-9**
Diphenyl phosphite (S.G.)		0-915	5g	**4712-55-4**
Diphenyl phthalate (S.G.)		F1091	5g	**84-62-8**
	100ug/mL in Hexane	F1091JS	1mL	
	100ug/mL in Hexane	F1091S	5mL	
Diphenyl phthalate (S.G.)		0-530	5g	**84-62-8**
		0-530	10g	**84-62-8**
Diphenyl phthalate (S.G.)		Pt-30	10g	**84-62-8**
Diphenyl phthalate (TECH)		Pz-54	10g	**84-62-8**
1,3-Diphenyl-1,3-propanedione		4335B	5g	**120-46-7**
2,2-Diphenylpropionic acid		4286F	1g	**5558-66-7**
3,3-Diphenylpropionic acid		4300F	1g	**606-83-7**

Category Name	Specification	Catalog#	Size	CAS#
Diphenylpropylenediamine (TECH)		0u-37	3g	**R**
		0u-37	10g	**R**
Diphenyl-2-pyridylmethane		4337B	1g	**3678-70-4**
4,4-Diphenylsemicarbazide		1471L	100mg	**603-51-0**
Diphenylsilanediol		4340	10g	**947-42-2**
Diphenyl succinate		4336B	1g	**621-14-7**
Diphenyl sulfone		0-977	2g	**127-63-9**
p-Diphenyl sulfonic acid		4281H	500mg	**2113-68-0**
Diphenyl sulfoxide		6935H	1g	**945-51-7**
Diphenyl terephthalate		4345C	1g	**1539-04-4**
Diphenyl thiocarbazone		6355A	1g	**60-10-6**
1,5-Diphenyl-3-thiocarbo-hydrazide (S.G.)		0-725	500mg	**622-03-7**
		0-725	2g	**622-03-7**
s-Diphenylthiourea		4360	10g	**102-08-9**
1,3-Diphenyltriazene		4361F	1g	**136-35-6**
1,3-Diphenyl urea		0-388	1g	**102-07-8**
Di-2-propenylamine		0-278	5g	**124-02-7**
Di-(2-propenyl)maleate		0-469	2g	**999-21-3**
Di-(2-propeny)phthalate		0-519	10g	**131-17-9**
Dipropetryn		PS-411	100mg	**4147-51-7**
	100ug/mL in Acetonitrile	PS-411AJS	1mL	
	100ug/mL in MTBE	PS-411JS	1mL	
N,N-Dipropylacetamide		3986K	1g	**1116-24-1**
Dipropyl adipate (TECH)		Pz-22	10g	**106-19-4**
Dipropylamine (S.G.)		0-285	10g	**142-84-7**
4-Dipropylamino-3,5-dinitrobenzotrifluoride		PS-393	1g	**1582-09-8**
5-Dipropylamino-a,a,a-trifluoro-4,6-dinitro-o-toluidine		PS-2133	100mg	**29091-21-2**
Di-n-propyl carbonate		4272F	1g	**623-96-1**
Dipropylene glycol (S.G.)		0-209	10g	**110-98-5**
Dipropylene glycol dibenzoate (TECH)		Pz-96	10g	**94-51-9**
Dipropylene glycol dinonanoate (TECH)		Pz-760	5g	**29059-00-5**
Dipropylene glycol methyl ether (S.G.)		0-2088	5g	**34590-94-8**
		0-2088	10g	**34590-94-8**
Dipropylene glycol monostearate (TECH)		S-220	10g	**R**
Di-n-propyl isocinchomeronate		PS-906	250mg	**136-45-8**
Di-n-propyl isocinchomeronate		F2381	250mg	**136-45-8**
Dipropyl ketone		0-806	2g	**123-19-3**
Di-n-propyl phthalate (S.G.)		F2158	1g	**131-16-8**
Di-n-propyl phthalate (ring-1,2-13C2, dicarboxyl-13C2)	100ug/mL in n-Nonane	FC2158S	1.2mL	
Dipropyl succinate (TECH)		Pz-68	10g	**925-15-5**
Di-n-propyl sulfide (S.G.)		0-2079	1g	**111-47-7**
Di-n-propyl sulfoxide		4271F	1g	**4253-91-2**
N,N′-Di-n-propylthiourea		1513L	100mg	**26536-60-7**
Dipterex™		PS-608	1g	**52-68-6**
2,2′-Dipyridyl		2229F	1g	**366-18-7**
4,4-Dipyridyldihydrate		3992K	10mg	**553-26-4**
Di-2-pyridyl ketone		4374F	1g	**19437-26-4**
Diquat Dibromide monohydrate	1970ug/mL in De-ionized water	F1102AJS	1mL	
	1970ug/mL in De-ionized water	F1102AS	5mL	
	100ug/mL in De-ionized water	F1102JS	1mL	
	100ug/mL in De-ionized water	F1102S	5mL	
Diquat Dibromide monohydrate		PS-365	500mg	**6385-62-2**
Direx		PS-60	250mg	**330-54-1**
Discus™		PS-2182	250mg	**143390-89-0**
Di-septon		PS-661	100mg	**298-03-3**
2,4-D isobutyl ester		PS-2282	250mg	**1713-15-1**
	100ug/mL in Acetonitrile	PS-2282AJS	1mL	
	100ug/mL in Toluene	PS-2282JS	1mL	
Disodium N-octadecyl sulfosuccinamate (TECH)		S-673	10g	**14481-60-8**
Disodium S,S′-(2-dimethylamino-1,3-propanediyl)bis(thiosulfate)		PS-2184	250mg	**52207-48-4**
Disodium ethylene bis[dithiocarbamate]		PS-220	250mg	**142-59-6**
Disodium-N-lauryl-b-imino dipropionate (30% in water) (TECH)		S-564	5g	**R**
Disodium methyl arsonate hexahydrate		PS-281	500mg	**144-21-8**
	100ug/mL in H2O	PS-281AJS	1mL	
	100ug/mL in Toluene	PS-281JS	1mL	
Disodium-N-tallow-b-imino dipropionate (TECH)		S-563	5g	**R**
Disperse red 9/C,I,#60505		BS-90	1g	**R**
Distearylthiodipropionate (TECH)		0u-55	3g	**R**
		0u-55	10g	**R**
Disugran		PS-1102	100mg	**6597-78-0**
Disulfoton (S.G.)		F993	1g	**298-04-4**
	100ug/mL in Methanol	F993JS	1mL	
	100ug/mL in Methanol	F993S	5mL	

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Disulfoton		PS-652	1g	**298-04-4**
Disulfoton sulfone		MET-652A	100mg	**2497-06-5**
Disulfoton sulfoxide		MET-652B	100mg	**2497-07-6**
Disul-Na™		PS-313	1g	**149-26-8**
Disul-sodium		PS-313	1g	**149-26-8**
	100ug/mL in H2O	PS-313AJS	1mL	
	100ug/mL in Toluene	PS-313JS	1mL	
Di-Syston™		PS-652	1g	**298-04-4**
Ditac™		PS-281	500mg	**144-21-8**
Ditalimfos		PS-2127	100mg	**5131-24-8**
	100ug/mL in Acetonitrile	PS-2127AJS	1mL	
	100ug/mL in Toluene	PS-2127JS	1mL	
Ditalimfos	100ug/mL in Hexane	PS-1208	5mL	**5131-24-8**
2-(3,5-Di-tert-butyl-2-hydroxyphenyl)-5-chlorobenzotriazole (TECH)		Ou-88	3g	**3864-99-1**
		Ou-88	10g	**3864-99-1**
Di(tetrahydrofurfuryl)adipate (S.G.)		O-504	500mg	**R**
		O-504	5g	**R**
Dithane M-22™		PS-22	1g	**12427-38-2**
Dithane S™		PS-220	250mg	**142-59-6**
Dithane™		PS-2095	500mg	**8018-01-7**
Dithane Z-78™		PS-23	1g	**12122-67-7**
1,3-Dithiane		4380F	1g	**505-23-7**
Dithianon		PS-2035	250mg	**3347-22-6**
	100ug/mL in Methanol	PS-2035JS	1mL	
Dithio™		PS-2024	50mg	**3689-24-5**
2,2′-Dithiobis(benzothiazole) (S.G.)		F2384	5g	**120-78-5**
	1000ug/mL in Methylene chloride	F2384JS	1mL	
	1000ug/mL in Methylene chloride	F2384S	5mL	
2,2′-Dithiobis(benzothiazole) (S.G.)		O-713	5g	**120-78-5**
		O-713	10g	**120-78-5**
2,2′-Dithiobis(ethylamine)dihydrochloride		4386F	1g	**56-17-7**
2,2′-Dithiobis(pyridine-N-oxide)		3995K	100mg	**3696-28-4**
Dithiodemeton™		PS-652	1g	**298-04-4**
2,2′-Dithiodibenzoic acid (S.G.)		O-116	1g	**119-80-2**
		O-116	10g	**119-80-2**
4,4′-Dithiodimorpholine (S.G.)		O-322	2g	**103-34-4**
		O-322	10g	**103-34-4**
Dithioerythritol		2947L	100mg	**6892-68-8**
Dithione™		PS-2024	50mg	**3689-24-5**
Dithiooxamide		4400	5g	**79-40-3**
Dithiopyr			100mg	**97886-45-8**
	100ug/mL in Acetonitrile	PS-2173AJS	1mL	
	100ug/mL in Toluene	PS-2173JS	1mL	
2,4-Dithiopyrimidine		1474L	100mg	**2001-93-6**
Dithio-Systox™		PS-652	1g	**298-04-4**
Dithioterephthalic acid		4402A	10g	**1076-98-8**
Dithiothreitol (S.G.)		F2447	100mg	**27565-41-9**
	1000ug/mL in Ethyl acetate	F2447JS	1mL	
	1000ug/mL in Ethyl acetate	F2447S	5mL	
Dithizone		6355A	1g	**60-10-6**
N,N′-Di-p-tolylcarbodimide		4405E	500mg	**726-42-1**
Di-o-tolylethylenediamine (TECH)		Ou-38	3g	**R**
		Ou-38	10g	**R**
1,3-Di-o-tolylguanidine (S.G.)		O-599	5g	**97-39-2**
		O-599	10g	**97-39-2**
Di-o-tolylguanidine salt of dicatecholborate (TECH)		Ou-84	3g	**R**
		Ou-84	10g	**R**
Di-p-tolyl sulfone		3220L	100mg	**R**
Ditranil™		PS-293	250mg	**99-30-9**
Ditridecyl phthalate (S.G.)		Pt-31	10g	**119-06-2**
Ditridecyl sebacate (TECH)		Pz-550	10g	**R**
3,5-Di(trifluoromethylnitro)benzene		4002K	10mg	**328-75-6**
Ditrosol™		PS-57	1g	**534-52-1**
Diundecyl phthalate (S.G.)		Pt-32	10g	**3648-20-2**
Diundecyl phthalate (TECH)		Pz-475	10g	**3648-20-2**
Diuron (S.G.)		F2371	250mg	**330-54-1**
	1000ug/mL in Acetonitrile	F2371JS	1mL	
	1000ug/mL in Acetonitrile	F2371S	5mL	
Diuron		PS-60	250mg	**330-54-1**
	100ug/mL in Toluene	PS-60JS	1mL	
Divinyl benzene		3950K	1g	**1321-74-0**
3,9-Divinylspirobi(m-dioxane)		4405B	10g	**78-19-3**
DL-Ornithine hydrochloride		2800L	1g	**1069-31-4**
DMP™		PS-901	1g	**131-11-3**
DMTD		PS-83	250mg	**72-43-5**
DMTT		PS-17	250mg	**533-74-4**

Category Name	Specification	Catalog#	Size	CAS#
DNBP		PS-56	100mg	**88-85-7**
DNC		PS-57	1g	**534-52-1**
DNOC		PS-57	1g	**534-52-1**
DNOC		F60	1g	**534-52-1**
n-Docosane (S.G.)		F2194	1g	**629-97-0**
	100ug/mL in Methylene chloride	F2194JS	1mL	
	100ug/mL in Methylene chloride	F2194S	5mL	
n-Docosane (S.G.)		O-2089	1g	**629-97-0**
		O-2089	5g	**629-97-0**
Docosanoic acid (S.G.)		O-12	100mg	**112-85-6**
		O-12	500mg	**112-85-6**
1-Docosanol (S.G.)		O-2090	1g	**661-19-8**
		O-2090	5g	**661-19-8**
1-Docosene (S.G.)		O-2091	1g	**1599-67-3**
cis-13-Docosenoic acid		O-13	5g	**112-86-7**
Dodecachloro octahydro-1,3,4-metheno-2H-cyclobuta[cd]pentalene		PS-702	100mg	**2385-85-5**
Dodecahydro-1,4,7,9b-tetraazaphenalene		4411F	1g	**10553-85-2**
Dodecamethylene diammonium adipate (R.G.)		N-80	1g	**R**
Dodecamethylene diammonium terephthalate (R.G.)		N-90	1g	**R**
n-Dodecane (S.G.)		F2000	1g	**112-40-3**
	100ug/mL in Methanol	F2000JS	1mL	
	100ug/mL in Methanol	F2000S	5mL	
n-Dodecane (S.G.)		O-731	1g	**112-40-3**
		O-731	10g	**112-40-3**
n-Dodecane (d26) (S.G.)		FD2000-1	1g	**R**
		FD2000-5	5g	**R**
1,12-Dodecanedicarboxylic acid		4392H	500mg	**821-38-5**
Dodecanedioic acid		4390H	500mg	**693-23-2**
1,12-Dodecanediol		2854L	1g	
1-Dodecanethiol (S.G.)		O-979	10g	**112-55-0**
Dodecanoic acid		O-18	2g	**143-07-7**
1-Dodecanol		O-150	5g	**112-53-8**
2-Dodecanol		4409F	1g	**10203-28-8**
2-Dodecanone (S.G.)		O-2093	100mg	**6175-49-1**
		O-2093	500mg	**6175-49-1**
3-Dodecanone		4412F	1g	**1534-27-6**
4-Dodecanone		4413F	1g	**6137-26-4**
1-Dodecene (S.G.)		O-2094	5g	**112-41-4**
Dodecyl alcohol (S.G.)		O-150	5g	**112-53-8**
		O-150	10g	**112-53-8**
n-Dodecyl aldehyde (S.G.)		O-2092	1g	**112-54-9**
		O-2092	5g	**112-54-9**
n-Dodecylamine (S.G.)		O-2302	10g	**124-22-1**
n-Dodecylamine (TECH)		S-489	10g	**124-22-1**
n-Dodecylamine acetate (TECH)		S-538	1g	**2016-56-0**
Dodecylamine di(methylene phosphonic acid) (TECH)		CDF-21	5g	**R**
Dodecylbenzenesulfonic acid		S-428-1	10g	**27176-87-0**
6-Dodecyl-1,2-dihydro-2,2,4-trimethylquinoline (TECH)		Ou-52	3g	**R**
		Ou-52	10g	**R**
Dodecylethyl ketone		4414F	1g	**R**
n-Dodecylguanidine acetate		PS-250	250mg	**2439-10-3**
tert-Dodecyl mercaptan		4420	10g	**25103-58-6**
4-(Dodecyloxy)-2-hydroxy benzophenone (TECH)		Ou-93	3g	**2985-59-3**
		Ou-93	10g	**2985-59-3**
p-Dodecyl phenol (TECH)		S-307-1	10g	**104-43-8**
n-Dodecylsulfinamide		4425	5g	**R**
Dodecyltrimethyl ammonium chloride (TECH)		S-605	10g	**112-00-5**
Dodemorph		PS-1086	250mg	**1593-77-7**
	100ug/mL in Methanol	PS-1086JS	1mL	
Dodine		PS-250	250mg	**2439-10-3**
	100ug/mL in Methanol	PS-250JS	1mL	
Dominex™		PS-2083	250mg	**67375-30-8**
Dosaflo™		PS-2178	250mg	**19937-59-8**
Dosagran™		PS-2178	250mg	**19937-59-8**
Dosanex™		PS-2178	250mg	**19937-59-8**
Dotan™		PS-2209	250mg	**24934-91-6**
n-Dotriacontane (S.G.)		O-2095	1g	**544-85-4**
		O-2095	5g	**544-85-4**
n-Dotriacontane (d66) (S.G.)		O-D2095-1	1g	**R**
Dowco 433™		PS-2191	100mg	**81406-37-3**
Dowicide 1™		PS-420	1g	**90-43-7**
Dowicide 2S™		PS-10	1g	**88-06-2**
Dowicide 2™		PS-9	1g	**95-95-4**
Dowicide 6™		PS-8	50mg	**58-90-2**
Dowicide 7™		PS-7	1g	**87-86-5**

Category Name	Specification	Catalog#	Size	CAS#
Dowpon™		PS-32	250mg	**75-99-0**
2,4-DP™		PS-44	250mg	**120-36-5**
Drinox™		PS-78	100mg	**76-44-8**
Dropp™		PS-2044	250mg	**51707-55-2**
DSI™		PS-2154	500mg	**24096-53-5**
DSMA		PS-281	500mg	**144-21-8**
d-trans-Cyphenothrin		PS-2198	100mg	**39515-40-7**
	100ug/mL in Acetonitrile	PS-2198AJS	1mL	
	100ug/mL in MTBE	PS-2198JS	1mL	
Dual		PS-403	100mg	**51218-45-2**
Duphar™		PS-80	250mg	**116-29-0**
Duplosan™ KV		PS-2116	250mg	**16484-77-8**
cis-Duraphos™		PS-87-1	100mg	**26718-65-0**
Duraset™		PS-50	1g	**85-72-3**
Duraset 20W™		PS-50	1g	**85-72-3**
Duratox™		PS-1096	50mg	**919-86-8**
Durene (S.G.)		F1063	5g	**95-93-2**
	100ug/mL in Toluene	F1063JS	1mL	
	100ug/mL in Toluene	F1063S	5mL	
Durene (S.G.)		O-769	5g	**95-93-2**
		O-769	10g	**95-93-2**
Durene (d14) (S.G.)		FD1063-5	5g	**R**
Duroquinone		4416F	1g	**527-17-3**
Dursban™		PS-674	250mg	**2921-88-2**
Du-Ter™		PS-1031	250mg	**76-87-9**
Duter™		PS-1031	250mg	**76-87-9**
Dybar™		PS-61	250mg	**101-42-8**
Dylox (TM) (S.G.)		F2215	1g	
Dymid™		PS-350	250mg	**957-51-7**
Dynamec™		PS-2068	100mg	**71751-41-2**
Dynamite™		PS-2216	100mg	**134098-61-6**
Dyrene™		PS-388	250mg	**101-05-3**
Dyrex™		PS-608	1g	**52-68-6**
Dysposium - Dy203, 99,99%, 2% HN03		X100015-1-A	100mL	
		X100015-1-B	250mL	
		X100015-1-C	500mL	
Dysproium - Dy203, 99,99%, 2% HCl		X100015-2-A	100mL	
		X100015-2-B	250mL	
		X100015-2-C	500mL	
Dysprosium - 4% HN03		X10M 15-1-100	100mL	
		X10M 15-1-250	250mL	
		X10M 15-1-500	500mL	
Dysprosium - 10% HCl		X10M 15-2-100	100mL	
		X10M 15-2-250	250mL	
		X10M 15-2-500	500mL	
Dysposium Oxide (Dy203) 99,99%		XDY-O-A	5g	
		XDY-O-B	25g	
Ebufos		PS-2199	100mg	**95465-99-9**
Ebuzin™		PS-1092	100mg	**64529-56-2**
Ectopor™		PS-2203	250mg	**65731-84-2**
EDB		PS-154	1g	**106-93-4**
Edifenphos		PS-2066	100mg	**17109-49-8**
	100ug/mL in Acetonitrile	PS-2066AJS	1mL	
	100ug/mL in Toluene	PS-2066JS	1mL	
EDTA		O-73	5g	**60-00-4**
Effusan™		PS-57	1g	**534-52-1**
EGT		PS-328	1g	**2514-53-6**
n-Eicosane (S.G.)		F2183	5g	**112-95-8**
	100ug/mL in Methylene chloride	F2183JS	1mL	
	100ug/mL in Methylene chloride	F2183S	5mL	
n-Eicosane (S.G.)		O-732	5g	**112-95-8**
		O-732	10g	**112-95-8**
n-Eicosane (d42) (S.G.)		FD2183-1	1g	**R**
n-Eicosane (d42) (S.G.)		FD2183-B	0.5g	**R**
Eicosanoic acid (C20) (S.G.)		O-2327	500mg	**506-30-9**
1-Eicosanol (S.G.)		O-2096	100mg	**629-96-9**
		O-2096	500mg	**629-96-9**
1-Eicosene (S.G.)		O-2097	1g	**3452-07-1**
		O-2097	5g	**3452-07-1**
Ekalux™		PS-2010	250mg	**13593-03-8**
Ektafos™		PS-602	100mg	**141-66-2**
Elevate™		PS-2202	250mg	**126833-17-8**
Elgetol™ 30		PS-57	1g	**534-52-1**
Elgetol 318™		PS-56	100mg	**88-85-7**
Elite™		PS-1091	100mg	**107534-96-3**
Ellagic acid dihydrate		1768L	100mg	**476-66-4**

Category Name	Specification	Catalog#	Size	CAS#
Elocron™		PS-2022	250mg	**6988-21-2**
Elsan™		PS-2025	100mg	**2597-03-7**
Emamectin		PS-2265	100mg	**119791-41-2**
	100ug/mL in Acetonitrile	PS-2265AJS	1mL	
	100ug/mL in Toluene	PS-2265JS	1mL	
Embafume™	10,000ug/mL in Methanol	PS-155	5mL	**74-83-9**
Embark™		PS-2050	100mg	**53780-34-0**
Embonic acid		4428E	5g	**130-35-8**
Embutox™		PS-306	250mg	**94-82-6**
Enable™		PS-2072	100mg	**114369-43-6**
Endosulfan		PS-81	500mg	**115-29-7**
	100ug/mL in Acetonitrile	PS-81AJS	1mL	
Endosulfan (alpha isomer)		PS-81-1	100mg	**959-98-8**
	100ug/mL in Acetonitrile	PS-81-1AJS	1mL	
	100ug/mL in Acetonitrile	PS-81-1AS	1mL	
Endosulfan (beta isomer)		PS-81-2	100mg	**33213-65-9**
	100ug/mL in Acetonitrile	PS-81-2AJS	1mL	
Endosulfan I		PS-81-1	100mg	**959-98-8**
Endosulfan II		PS-81-2	100mg	**33213-65-9**
a-Endosulfan (S.G.)		F202	100mg	**959-98-8**
	100ug/mL in t-Butylmethyl ether	F202AJS	1mL	
	100ug/mL in t-Butylmethyl ether	F202AS	5mL	
	100ug/mL in Hexane	F202JS	1mL	
	100ug/mL in Hexane	F202S	5mL	
a-Endosulfan (13C9)	100ug/mL in n-Nonane	FC202S	1.2mL	
a-Endosulfan (d4) (S.G.)		FD202-E	0.01g	**R**
	100ug/mL in n-Nonane	FD202S	1.2mL	
a,b-Endosulfan (S.G.)		F95	500mg	**115-29-7**
	100ug/mL in Hexane	F95JS	1mL	
	100ug/mL in Hexane	F95S	5mL	
b-Endosulfan (S.G.)		F203	100mg	**33213-65-9**
	100ug/mL in Hexane	F203JS	1mL	
	100ug/mL in Hexane	F203S	5mL	
b-Endosulfan (13C9)	100ug/mL in n-Nonane	FC203S	1.2mL	
b-Endosulfan (d4) (S.G.)		FD203-5	5mg	**R**
	100ug/mL in n-Nonane	FD203S	1.2mL	
Endosulfan alcohol		MET-81A	50mg	**2157-19-9**
Endosulfan ether		MET-81B	50mg	**3369-52-6**
Endosulfan lactone		MET-81C	50mg	**3868-61-9**
Endosulfan sulfate (S.G.)		F97	50mg	**1031-07-8**
	100ug/mL in Hexane	F97JS	1mL	
	100ug/mL in Hexane	F97S	5mL	
Endosulfan sulfate		PS-81-3	50mg	**1031-07-8**
	100ug/mL in Acetonitrile	PS-81-3AJS	1mL	
Endothal Solution (S.G.)	50ug/mL in De-ionized water	F1100JS	1mL	
	50ug/mL in De-ionized water	F1100S	5mL	
	10ug/mL in De-ionized water	F1101JS	1mL	
	10ug/mL in De-ionized water	F1101S	5mL	
Endothal monohydrate (S.G.)		F2443	100mg	**62059-43-2**
	100ug/mL in Acetonitrile	F2443JS	1mL	
	100ug/mL in Acetonitrile	F2443S	5mL	
Endothal monohydrate		PS-345	100mg	**62059-43-2**
	100ug/mL in Toluene	PS-345JS	1mL	
Endothal pentafluorophenyl hydrazine derivative		F2075	100mg	**R**
Endothal-PFPH (S.G.)		F2075	100mg	**R**
	100ug/mL in t-Butylmethyl ether	F2075JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2075S	5mL	
Endrin (S.G.)		F98	100mg	**72-20-8**
	100ug/mL in Methanol	F98JS	1mL	
	100ug/mL in Methanol	F98S	5mL	
Endrin		PS-77	100mg	**72-20-8**
Endrin aldehyde (S.G.)		F99	10mg	**7421-93-4**
	100ug/mL in Methanol	F99JS	1mL	
	100ug/mL in Methanol	F99S	5mL	
Endrin aldehyde		PS-77-1	10mg	**7421-93-4**
Endrin ketone (S.G.)		F2022	10mg	**53494-70-5**
	100ug/mL in Toluene	F2022JS	1mL	
	100ug/mL in Toluene	F2022S	5mL	
Endrin ketone		PS-77-2	10mg	**53494-70-5**
	100ug/mL in Acetonitrile	PS-77-2AJS	1mL	
Endurance™		PS-2133	100mg	**29091-21-2**
Engemycin™		PS-2200	250mg	**2058-46-0**
Enide™		PS-350	250mg	**957-51-7**
Enstar™		PS-2051	100mg	**42588-37-4**
Entex™		PS-655	250mg	**55-38-9**
Eosin bluish/C,I,#45400		BS-150	1g	**548-24-3**
Eosin (free acid)		BS-66	1g	**R**
Eosin Y/C,I,#45380		BS-65	1g	**548-26-5**
Epibromohydrin		4436E	1g	**3132-64-7**

Category Name	Specification	Catalog#	Size	CAS#
Epichlorohydrin (S.G.)		F2016	5g	**106-89-8**
		F2016JS	1mL	
		F2016S	5mL	
Epichlorohydrin (S.G.)		O-578	10g	**106-89-8**
Epichlorohydrin (13C3)	100ug/mL in Acetonitrile	FC2016S	1.2mL	
Epichlorohydrin (d5) (S.G.)		FD2016-1	1g	**R**
DL-Epinephrine		1864L	1g	**329-65-7**
L-Epinephrine		4422F	1g	**51-43-4**
Epingle™		PS-2110	100mg	**95737-68-1**
EPN (S.G.)		F2112	250mg	**2104-64-5**
	1000ug/mL in Hexane	F2112AJS	1mL	
	1000ug/mL in Hexane	F2112AS	5mL	
	100ug/mL in Hexane	F2112JS	1mL	
	100ug/mL in Hexane	F2112S	5mL	
EPN		PS-93	250mg	**2104-64-5**
	100ug/mL in Acetonitrile	PS-93AJS	1mL	
Epoxiconazole		PS-2305	100mg	**133855-98-8**
Epoxidized linseed oil (TECH)		Pz-900	10g	**8016-11-3**
Epoxidized soybean oil (TECH)		Ou-79	3g	**8013-07-8**
		Ou-79	10g	**8013-07-8**
Epoxidized soybean oil (TECH)		Pz-116	10g	**8013-07-8**
1,2-Epoxyethylbenzene (S.G.)		O-591	10g	**96-09-3**
3,4-Epoxy-6-methylcyclohexylmethyl-3,4-epoxy-		Ou-80	3g	**R**
6-methylcyclohexane carboxylate (TECH)		Ou-80	10g	**R**
1,2-Epoxy-3-phenoxypropane (S.G.)		O-592	2g	**122-60-1**
epsilon-BHC	100ug/mL in Toluene	PS-2222	1mL	**6108-10-7**
epsilon-Hexachlorocyclohexane	100ug/mL in Toluene	PS-2222	1mL	**6108-10-7**
Eptam™		PS-54	500mg	**759-94-4**
EPTC		PS-54	500mg	**759-94-4**
Eqvalan™		PS-2220	100mg	**70288-86-7**
Erbium - 4% HNO3		X10M 16-1-100	100mL	
		X10M 16-1-250	250mL	
		X10M 16-1-500	500mL	
Erbium - 10% HCl		X10M 16-2-100	100mL	
		X10M 16-2-250	250mL	
		X10M 16-2-500	500mL	
Erbium - Er2O3, 99,99%, 2% HCl		X100016-2-A	100mL	
		X100016-2-B	250mL	
		X100016-2-C	500mL	
Erbium - Er2O3, 99,99%, 2% HNO3		X100016-1-A	100mL	
		X100016-1-B	250mL	
		X100016-1-C	500mL	
Erbium Oxide (Er2O3) 99,99%		XER-O-A	5g	
		XER-O-B	25g	
Ergocalciferol		V-17	100mg	**50-14-6**
Eriochrome black A/C,I,#15710		BS-130	1g	**3618-58-4**
Eriochrome blue black R/C,I,#15705		BS-25	1g	**2538-85-4**
Eriochrome cyanine R/C,I,#43820		BS-147	1g	**3564-18-9**
Erioglaucine/C,I,#42090		BS-113	1g	**3844-45-9**
Erucamide (TECH)		S-590	10g	**112-84-5**
Erucic acid (S.G.)		O-13	5g	**112-86-7**
		O-13	10g	**112-86-7**
Erucic acid (TECH)		S-11	10g	**112-86-7**
Erucylamide (TECH)		Pz-139	10g	**112-84-5**
Erunite™		PS-2040	100mg	**34256-82-1**
Erythritol		CARB-26	1g	**149-32-6**
Erythrosin bluish/C,I,#45430		BS-69	1g	**16423-68-0**
Esbiol™		PS-790	250mg	**28434-00-6**
Esbiothrin		PS-2341	100mg	**84030-86-4**
Esculin		CARB-43	1g	**531-75-9**
Esfenvalerate		PS-2004	100mg	**66230-04-4**
	100ug/mL in Acetonitrile	PS-2004AJS	1mL	
	100ug/mL in t-Butylmethyl ether	PS-2004JS	1mL	
Esprocarb™		PS-1082	100mg	**83055-99-6**
Esters Functional Group		Oes-100A	KIT	
Estonmite™		PS-855	250mg	**80-33-1**
Estradiol		4440E	100mg	**50-28-2**
Estradiol benzoate		4449F	100mg	**50-50-0**
Estrone		4450S	100mg	**53-16-7**
Estuarian Sediment Solution (in 5% HNO3)		XCRM-ES-100	100mL	
		XCRM-ES-250	250mL	
Ethalfluralin (S.G.)		F2365	250mg	**55283-68-6**
	1000ug/mL in Hexane	F2365JS	1mL	
	1000ug/mL in Hexane	F2365S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Ethalfluralin		PS-408	250mg	**55283-68-6**
	100ug/mL in Acetonitrile	PS-408AJS	1mL	
Ethametsulfuron-methyl		PS-2183	100mg	**97780-06-8**
	100ug/mL in Acetonitrile	PS-2183AJS	1mL	
	100ug/mL in Toluene	PS-2183JS	1mL	
1,2-Ethanediol diacetate		O-492	10g	**111-55-7**
Ethanedial		O-230	10g	**107-22-2**
Ethanedial dioxime		PS-412	1g	**557-30-2**
	100ug/mL in Methanol	PS-412JS	1mL	
Ethanediamide		O-255	1g	**471-46-5**
1,2-Ethanediol		O-193	10g	**107-21-1**
1,2-Ethanedithiol		4460B	5g	**540-63-6**
Ethanesulfonic acid		4453F	1g	**594-45-6**
Ethanesulfonyl chloride (S.G.)		O-973	500mg	**594-44-5**
		O-973	2g	**594-44-5**
Ethanethiol (S.G.)		O-2098	5g	**75-08-1**
Ethanol		O-151	5g	**64-17-5**
Ethanolamine (S.G.)		O-311	10g	**141-43-5**
Ethanolamine dibutyl naphthalene sulfonate (TECH)		S-447	5g	**R**
Ethanol-n-butylamine		4461F	500mg	**111-75-1**
Ethyl parathion™		PS-95	500mg	**56-38-2**
trans-1,1'-(1,2-Ethenedyl)bis(benzene)		O-792	1g	**103-30-0**
Ethephon		PS-325	250mg	**16672-87-0**
Ethide™		PS-5	1g	**594-72-9**
Ethidimuron		PS-2061	100mg	**30043-49-3**
	100ug/mL in Acetonitrile	PS-2061AJS	1mL	
	100ug/mL in Toluene	PS-2061JS	1mL	
Ethiofencarb		PS-2058	100mg	**29973-13-5**
	100ug/mL in Acetonitrile	PS-2058AJS	1mL	
	100ug/mL in Toluene	PS-2058JS	1mL	
Ethiofencarb sulfone		MET-2058B	10mg	**53380-23-7**
Ethiofencarb sulfoxide		MET-2058A	10mg	**53380-22-6**
Ethion (S.G.)		F2113	250mg	**563-12-2**
	100ug/mL in Methanol	F2113JS	1mL	
	100ug/mL in Methanol	F2113S	5mL	
Ethion		PS-92	250mg	**563-12-2**
dl-Ethionine		4463F	1g	**67-21-0**
Ethiozin™		PS-1092	100mg	**64529-56-2**
	100ug/mL in Methanol	PS-1092JS	1mL	
Ethofumesate (S.G.)		PS-1045	250mg	**26225-79-6**
	100ug/mL in Acetonitrile	PS-1045AJS	1mL	
	100ug/mL in Toluene	PS-1045JS	1mL	
Ethohexadiol™		PS-102	1g	**94-96-2**
Ethoprop™		PS-672	250mg	**13194-48-4**
Ethoprophos™		PS-672	250mg	**13194-48-4**
2-Ethoxybenzamide		4210K	1g	**938-73-8**
Ethoxybenzene		O-595	1g	**103-73-1**
p-[(p-Ethoxybenzylidene)-amino]benzonitrile		1774L	100mg	**24742-30-1**
3-Ethoxycarbonylaminophenyl-N-phenyl-carbamate		PS-1015	250mg	**13684-56-5**
3-Ethoxy-2-cyclohexene-1-one		4478F	1g	**5323-87-5**
(+/-)-2-Ethoxy-2,3-dihydro-3,3-dimethyl-5-benzofuranyl methane		PS-1045	250mg	**26225-79-6**
6-Ethoxy-1,2-dihydro-2,2,4-trimethylquinoline (TECH)		Ou-53	3g	**91-53-2**
		Ou-53	10g	**91-53-2**
2-Ethoxyethanol (S.G.)		F2565	5g	**110-80-5**
2-Ethoxyethanol (S.G.)		O-177	10g	**110-80-5**
Ethoxyethoxyethanol (S.G.)		O-173	10g	**111-90-0**
2-[2-(2-Ethoxyethoxy)ethoxy]ethanol		4500J	5g	**112-50-5**
Ethoxyethoxyethoxypropylamine		4475A	1g	**R**
2-(2-Ethoxyethoxy)ethyl acetate (S.G.)		O-442	10g	**112-15-2**
2-Ethoxyethyl acetate (S.G.)		O-443	10g	**111-15-9**
2-Ethoxyethylamine		4226K	100mg	**110-76-9**
(1-Ethoxyethylidene)malononitrile		4229K	100mg	**63917-11-3**
4-Ethoxy-2-hydroxybenzoic acid		4476C	5g	**R**
(±)-(EZ)-2-(1-Ethoxyiminobutyl)-5-[2-(ethylthio)propyl]-3-hydr		PS-2013	100mg	**74051-80-2**
2-[1-(Ethoxyimino) propyl]-3-hydroxy-5-mesitylcyclohex-2-enone		PS-2135	500mg	**87820-88-0**
Ethoxylated (20 moles) methyl glucoside sesquistearate (TECH)		S-670	10g	**72175-39-4**
Ethoxylated methyl glucoside dioleate (TECH)		S-668	10g	**86893-19-8**
Ethoxylated cocoamine (latex stabilizer) (TECH)		Ou-83	3g	**61791-14-8**
		Ou-83	10g	**61791-14-8**
Ethoxylated 2,4,7,9-tetramethyl-5-decyn-4,7-diol (TECH)		S-365	10g	**9014-85-1**
4-Ethoxy-3-methoxybenzaldehyde		4486F	1g	**120-25-2**
2-Ethoxy-1-naphthaldehyde		1771L	100mg	**R**
2-Ethoxynaphthalene (S.G.)		O-593	2g	**93-18-5**
		O-593	10g	**93-18-5**

Category Name	Specification	Catalog#	Size	CAS#
4-Ethoxy-2-nitroaniline		4490F	1g	616-86-4
4-(p-Ethoxyphenylazo)-m-phenylenediamine monohydrochloride		4232K	100mg	2313-87-3
4-Ethoxyphenylazophenyl-10-undecenoate		4492F	100mg	R
3-Ethoxy propionaldehyde diethyl acetal		4494F	1g	7789-92-6
3-Ethoxypropionitrile (S.G.)		O-844	1g	2141-62-0
		O-844	2g	2141-62-0
3-Ethoxypropylamine		4235K	100mg	6291-85-6
Ethoxyquin		PS-432	250mg	91-53-2
	100ug/mL in Acetonitrile	PS-432AJS	1mL	
	100ug/mL in Toluene	PS-432JS	1mL	
	100ug/mL in Toluene	PS-432JS	1mL	
Ethoxysulfuron		PS-2303	100mg	126801-58-9
5-Ethoxy-3-trichloromethyl-1,2,4-thiadiazole		PS-264	250mg	2593-15-9
Ethrel™		PS-325	250mg	16672-87-0
Ethyl p-anisate (S.G.)		O-2428	5g	94-30-4
Ethyl acetamidocyanoacetate		4238K	10mg	4977-62-2
Ethyl-a-(4-acetamidophenylsulfonyl)acetate		4500H	100mg	R
Ethyl acetate (S.G.)		F2452	5g	141-78-6
	100ug/mL in Ethanol	F2452JS	1mL	
	100ug/mL in Ethanol	F2452S	5mL	
Ethyl acetate (S.G.)		O-412	1g	141-78-6
		O-412	5g	141-78-6
Ethyl acetate-13C2 (S.G.)		F2543	10mg	84508-45-2
Ethyl acetoacetate (S.G.)		O-465	10g	141-97-9
Ethylacetoacetate ethylene ketal		4510J	1g	R
m-Ethylacetophenone		4241K	10mg	22699-70-3
p-Ethylacetophenone		4244K	100mg	937-30-4
Ethylacidphosphate		MET-90C	100mg	598-02-7
Ethyl acrylate (S.G.)		O-1008	10g	140-88-5
Ethyl alcohol (S.G.)		F979	5g	64-17-5
	100ug/mL in Methanol	F979JS	1mL	
	100ug/mL in Methanol	F979S	5mL	
Ethyl alcohol (S.G.)		O-151	5g	64-17-5
		O-151	10g	64-17-5
Ethylamine (anhydrous)	10,000ug/mL in Methanol	F2528JS	1mL	
	10,000ug/mL in Methanol	F2528S	5mL	
Ethylamine hydrochloride (S.G.)		O-286	500mg	557-66-4
		O-286	10g	557-66-4
Ethyl-o-aminobenzoate		4247K	1g	87-25-2
Ethyl-p-aminobenzoate		2107F	10g	94-09-7
Ethyl-3-aminobutyrate		4250K	100mg	5303-65-1
Ethyl-3-aminocrotonate		4515E	10g	7318-00-5
Ethyl-3-amino-2,5-dichlorobenzoate		PS-326	100mg	60541-86-8
	100ug/mL in Acetonitrile	PS-326AJS	1mL	
	100ug/mL in MTBE	PS-326JS	1mL	
2-Ethylaminoethanol (S.G.)		O-312	5g	110-73-6
2-[Ethylamino]-4-[isopropylamino]-6-methoxy-s-triazine		PS-395	250mg	1610-17-9
2-Ethylamino-4-isopropylamino-6-methylthio-s-triazine		PS-383	500mg	834-12-8
Ethyl-2-amino-4,5,6,7-tetrahydrobenzo[b]thiophene-3-carboxylate		4253K	100mg	4506-71-2
Ethyl amyl ketone		O-2154	1g	541-85-5
Ethylan Solution	100ug/mL in Acetonitrile	PS-73AJS	1mL	
2-Ethylaniline		4504F	10g	578-54-1
3-Ethylaniline		4256K	100mg	587-02-0
N-Ethylaniline (S.G.)		O-346	10g	103-69-5
Ethyl aziridinyl formate		4503F	500mg	671-51-2
Ethylbenzene (S.G.)		F38	5g	100-41-4
	100ug/mL in Methanol	F38JS	1mL	
	100ug/mL in Methanol	F38S	5mL	
Ethylbenzene (S.G.)		O-770	10g	100-41-4
Ethylbenzene (ring-d5) (S.G.)		FD38-5	5g	R
Ethylbenzene-d10 (S.G.)		F901	100mg	25837-05-2
	2000ug/mL in Methanol	F901JS	1mL	
	2000ug/mL in Methanol	F901S	5mL	
Ethyl benzilate		4518F	1g	R
Ethyl benzoate (S.G.)		O-531	5g	93-89-0
Ethyl benzoylacetate (S.G.)		O-555	2g	94-02-0
		O-555	10g	94-02-0
Ethyl N-benzoyl-N-(3,4-dichlorophenyl)-DL-alaninate		PS-2079	100mg	22212-55-1
Ethylbenzoylformate		4262K	100mg	1603-79-8
Ethyl-2-benzylacetoacetate		4517F	1g	620-79-1
N-Ethylbenzylamine		4265K	1g	14321-27-8
O-Ethyl-S,S-bis(1-methylpropyl)phosphorodithioate		PS-2199	100mg	95465-99-9
Ethyl bis(polyethoxyethanol)alkyl ammonium chloride (TECH)		S-626-1	10g	R
Ethyl bromide (S.G.)		O-640	10g	74-96-4
Ethyl bromoacetate (S.G.)		O-449	2g	105-36-2
		O-449	5g	105-36-2

Category Name	Specification	Catalog#	Size	CAS#
Ethyl-4-bromobutyrate		4520E	10g	2969-81-5
Ethyl-2-bromoisobutyrate		4534E	10g	600-00-0
Ethyl-2-bromopropionate (S.G.)		O-450	1g	535-11-5
		O-450	5g	535-11-5
Ethyl-3-bromopropionate (S.G.)		O-451	2g	539-74-2
		O-451	5g	539-74-2
Ethyl bromopyruvate		4268K	500mg	70-23-5
2-Ethyl-1-butanol (S.G.)		O-152	10g	97-95-0
2-Ethyl-1-butene (S.G.)		O-2100	100mg	760-21-4
Ethyl butyl ketone		O-805	2g	106-35-4
O-Ethyl-S,S-di-sec-butylphosphorodithioate		PS-2199	100mg	95465-99-9
2-Ethyl-2-butyl-1,3-propanediol		PS-101	1g	115-84-4
Ethyl butyrate (S.G.)		O-413	10g	105-54-4
2-Ethylbutyric acid (S.G.)		O-14	500mg	88-09-5
		O-14	5g	88-09-5
Ethyl caprate		4570H	1g	110-38-3
Ethyl carbamate (S.G.)		F2114	5g	51-79-6
	100ug/mL in Methanol	F2114JS	1mL	
	100ug/mL in Methanol	F2114S	5mL	
Ethyl carbamate (S.G.)		O-391	5g	51-79-6
Ethyl carbamate (S.G.)		O-391	10g	51-79-6
Ethyl carbazate		4528F	1g	4114-31-2
N-Ethylcarbazole		4542C	10g	86-28-2
Ethyl cellulose		3058L	5g	9004-57-3
Ethyl chloride	10,000ug/ml in Methanol	F16AJS	1ml	
	10,000ug/ml in Methanol	F16AS	5ml	
	100ug/ml in Methanol	F16JS	1ml	
	100ug/ml in Methanol	F16S	5ml	
Ethyl chloroacetate (S.G.)		O-452	5g	105-39-5
Ethyl-2-chloroacetoacetate		4271K	100mg	609-15-4
(+/-)-Ethyl-2-[4-(6-chloro-2-benzoxazolyloxy)phenoxy]propanoat		PS-1088	100mg	66441-23-4
Ethyl(R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate		PS-2223	100mg	71283-80-2
N-Ethyl-o-chlorobenzylamine		4277K	10mg	R
Ethyl (RS)-2-chloro-3-[2-chloro-5-(4-difluoromethyl-4, 5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl		PS-2170	100mg	128639-02-1
Ethyl chloroformate (S.G.)		O-453	1g	541-41-3
Ethyl-2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl)amino]carbonyl]a		PS-1081	100mg	90982-32-4
Ethyl-4-chloro-2-methylthio-5-pyrimidine carboxylate		4560H	100mg	5909-24-0
Ethyl 4-chloro-2-oxo-3(2H)-benzothiazoleacetate		PS-2193	250mg	25059-80-7
Ethyl-3-chloropropionate		4538F	1g	623-71-2
Ethyl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionate		PS-2151	500mg	100646-51-3
Ethyl-2-[4-[(6-chloro-2-quinoxalinyl)oxyl]-phenoxy]propionate		PS-1080	100mg	76578-14-8
Ethyl chlorosulfonate (S.G.)		O-942	500mg	625-01-4
		O-942	5g	625-01-4
Ethyl O-[5-(2-chloro-a,a,a-trifluoro-p-tolyloxy)-2-nitrobenzen		PS-2077	100mg	77501-63-4
Ethyl chrysanthemumate		4280K	1g	97-41-6
Ethyl cinnamate (S.G.)		O-532	2g	103-36-6
Ethyl cyanide		O-840	2g	107-12-0
Ethyl cyanoacetate (S.G.)		O-463	5g	105-56-6
Ethyl 4-cyanobenzoate		1777L	1g	7153-22-2
Ethyl-a-cyanocinnamate		4533F	1g	2169-69-9
Ethyl 2-cyano-3,3-diphenylacrylate (TECH)		Ou-94	3g	R
		Ou-94	10g	R
Ethyl cyanoformate		4545B	1g	623-49-4
Ethyl cyclohexane carboxylate		4535F	1g	3289-28-9
Ethyl-2-cyclohexanone carboxylate		4537F	1g	1655-07-8
S-Ethyl cyclohexyl(ethyl)thiocarbamate		PS-502	250mg	1134-23-2
N-Ethylcyclohexylamine		MET-502A	1g	5459-93-8
Ethyl 4-cyclopropyl(hydroxy)methylene-3,5-dioxocyclohexanecarboxylate		PS-2158	250mg	95266-40-3
Ethyl dibromoacetate		4565F	1g	617-33-4
Ethyl 2,3-dibromopropionate (S.G.)		O-454	500mg	3674-13-3
		O-454	10g	3674-13-3
Ethyl-4,4′-dichlorobenzilate		PS-854	100mg	510-15-6
Ethyl dichlorothiophosphate		4283K	1g	1498-64-2
Ethyl diethoxyacetate		4566F	1g	6065-82-3
Ethyl-2-diethoxyphosphinothioyloxy-5-methylpyrazolo[1,5-a]-pyr		PS-2049	100mg	13457-18-6
S-Ethyl diisobutylthiocarbamate		PS-503	1g	2008-41-5
S-Ethyl-N,N-diisobutylthiolcarbamate		PS-503	1g	2008-41-5
Ethyl-2-dimethoxyphosphinothioyl thio(phenyl)acetate		PS-2025	100mg	2597-03-7
Ethyl 5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1-meth		PS-2105	100mg	93697-74-6
N-Ethyl-N-(3-dimethylaminopropyl)carbodiimide hydrochloride		1798L	100mg	25952-53-8
Ethyl-N,N-dimethyl oxamate		4289K	10mg	16703-52-9
1-Ethyl-2,6-dimethylquinolinium iodide		4564F	200mg	606-93-9

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
O-Ethyl S,S-diphenyl phosphorodithioate		PS-2066	100mg	**17109-49-8**
O-Ethyl-S,S-dipropylphosphorodithioate		PS-672	250mg	**13194-48-4**
S-Ethyl dipropylthiocarbamate (S.G.)		F2229	500mg	**759-94-4**
	100ug/mL in t-Butylmethyl ether	F2229JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2229S	5mL	
S-Ethyl dipropylthiocarbamate		PS-54	500mg	**759-94-4**
	100ug/mL in Acetonitrile	PS-54AJS	1mL	
1,1′-Ethylene-2,2-bipyridylium ion		PS-365	500mg	**6385-62-2**
Ethylene bis(diphenylphosphine)		4565B	1g	**1663-45-2**
Ethylene bis(dithiocarbamic acid) diammonium salt		PS-228	1g	**3566-10-7**
Ethylene bis(dithiocarbamic acid) manganese salt		PS-22	1g	**12427-38-2**
Ethylene bis(dithiocarbamic acid) zinc salt		PS-23	1g	**12122-67-7**
1,1-Ethylene bis(pyridinium bromide)		4572F	1g	**R**
Ethylene bistrichloroacetate		PS-328	1g	**2514-53-6**
Ethylene bromide (S.G.)		O-641	1g	**106-93-4**
Ethylene carbonate (S.G.)		O-398	5g	**96-49-1**
		O-398	10g	**96-49-1**
Ethylene chloride (S.G.)		O-642	5g	**107-06-2**
		O-642	10g	**107-06-2**
Ethylene diacetate (S.G.)		O-492	10g	**111-55-7**
Ethylenediamine (S.G.)		O-328	10g	**107-15-3**
Ethylenediamine-N,N′-diacetic acid		1867L	100mg	**5657-17-0**
Ethylenediamine dihydrochloride		4566E	10g	**333-18-6**
Ethylenediamine petroleum sulfonate (TECH)		S-437	10g	**R**
Ethylenediaminetetraacetic acid (S.G.)		O-73	5g	**60-00-4**
		O-73	10g	**60-00-4**
Ethylenediaminetetraacetic acid dilithium salt		4585F	1g	**14531-56-7**
Ethylenediaminetetraacetic acid, disodium salt dihydrate (S.G.)		O-2423	10g	**6381-92-6**
Ethylenediaminetetraacetic acid, disodium salt dihydrate (TECH)		S-638	10g	**6381-92-6**
Ethylenediaminetetraacetic acid magnesium derivative sodium salt		4588F	1g	**14402-88-1**
Ethylenediaminetetraacetic acid tetralithium salt		I-3080	1g	**R**
Ethylenediaminetetraacetic acid tetrasodium salt (TECH)		S-639	10g	**64-02-8**
4,4′-Ethylenedianiline		1612L	1g	**621-95-4**
Ethylene dibenzoate		4572A	1g	**R**
Ethylenedibromide		PS-154	1g	**106-93-4**
Ethylene diformate		4570	10g	**629-15-2**
Ethylene glycol (S.G.)		F2556	5g	**107-21-1**
	100ug/mL in Methanol	F2556JS	1mL	
	100ug/mL in Methanol	F2556S	5mL	
Ethylene glycol (S.G.)		O-193	10g	**107-21-1**
Ethylene glycol bis[trichloroacetate]		PS-328	1g	**2514-53-6**
Ethylene glycol diacetate		O-492	10g	**111-55-7**
Ethylene glycol dimercaptoacetate		4970	10g	**123-81-9**
Ethylene glycol dimethacrylate		4571J	5g	**97-90-5**
Ethylene glycol dimethyl ether		O-567	1g	**110-71-4**
Ethylene glycol distearate (TECH)		S-150	10g	**R**
Ethylene glycol hydroxy stearate (TECH)		S-202	10g	**R**
Ethylene glycol monobutyl ether		O-176	500mg	**111-76-2**
Ethylene glycol monoethyl ether		O-177	10g	**110-80-5**
Ethylene glycol monolaurate (TECH)		Pz-89	10g	**R**
Ethylene glycol monomethyl ether		O-178	10g	**109-86-4**
Ethylene glycol monooleate (TECH)		Pz-90	10g	**R**
Ethylene glycol monopropyl ether		O-2299	1g	**2807-30-9**
Ethylene glycol monoricinoleate (TECH)		Pz-770	10g	**R**
Ethylene glycol monoricinoleate (TECH)		S-182	10g	**R**
Ethylene glycol monostearate (TECH)		Pz-765	10g	**111-60-4**
Ethylene glycol monostearate (TECH)		S-139	10g	**111-60-4**
Ethylene glycol phosphite		4591F	5g	**R**
Ethyleneimine (S.G.)		F948	100mg	**151-56-4**
	100ug/mL in Toluene	F948JS	1mL	
	100ug/mL in Toluene	F948S	5mL	
Ethylene oxide	1000ug/mL in Toluene	F2431JS	1mL	
	1000ug/mL in Toluene	F2431S	5mL	
Ethylene phosphite		4577C	5g	**R**
N,N′-Ethylenethiourea		PS-2180	1g	**96-45-7**
Ethylene thiourea		O-714	5g	**96-45-7**
Ethylene trithiocarbonate		1615L	1g	**822-38-8**
Ethyl eosin/C,I,#45386		BS-67	1g	**6359-05-3**
Ethyl ether (S.G.)		F977	2g	**60-29-7**
	100ug/mL in Methanol	F977JS	1mL	
	100ug/mL in Methanol	F977S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Ethyl ether (S.G.)		0-569	2g	**60-29-7**
		0-569	10g	**60-29-7**
Ethyl ether (d10) (S.G.)		FD977-1	1g	**2679-89-2**
		FD9977-5	5g	**R**
Ethyl ethyl acetoacetate		4587A	5g	**607-97-6**
S-Ethyl-N-ethyl-N-cyclohexylthiolcarbamate		PS-502	250mg	**1134-23-2**
N-Ethyl-o-fluorobenzylamine		4295K	10mg	**R**
N-Ethylformamide		4610	10g	**627-45-2**
Ethyl formate (S.G.)		O-414	10g	**109-94-4**
Ethyl glycolate		4298K	100mg	**623-50-7**
Ethyl-n-heptanoate		4615F	1g	**106-30-9**
Ethylhexadecyldimethyl ammonium bromide (S.G.)		O-379	1g	**124-03-8**
		O-379	10g	**124-03-8**
S-Ethylhexahydro-1H-azepine-1-carbothioate		PS-501	250mg	**2212-67-1**
2-Ethyl hexaldehyde		4623F	10g	**123-05-7**
Ethyl-1-hexamethylene imine carbothiolate		PS-501	250mg	**2212-67-1**
3-Ethyl hexane		4520J	1g	**619-99-8**
2-Ethyl-1,3-hexanediol (S.G.)		F2283	1g	**94-96-2**
	2500ug/mL in Acetone	F2283JS	1mL	
	2500ug/mL in Acetone	F2283S	5mL	
2-Ethyl-1,3-hexanediol		PS-102	1g	**94-96-2**
	2500ug/mL in Acetonitrile	PS-102AJS	1mL	
2-Ethyl-1,3-hexanediol (S.G.)		O-194	5g	**94-96-2**
		O-194	10g	**94-96-2**
Ethyl hexanediol		PS-102	1g	**94-96-2**
Ethyl hexanoate (S.G.)		O-415	2g	**123-66-0**
		O-415	10g	**123-66-0**
2-Ethylhexanoic acid (S.G.)		O-15	10g	**149-57-5**
2-Ethyl-1-hexanol (S.G.)		O-153	10g	**104-76-7**
2-Ethyl-1-hexene (S.G.)		O-2101	100mg	**1632-16-2**
2-Ethylhexyl acetate (S.G.)		O-416	10g	**103-09-3**
2-Ethylhexyl acrylate (R.G.)		4638C	10g	**103-11-7**
2-Ethylhexylamine (S.G.)		O-287	5g	**104-75-6**
N-[2-Ethylhexyl]bicyclo-[2,2,1]-5-heptene-2,3-dicarboximide		PS-962	250mg	**113-48-4**
2-Ethylhexyl-2-cyano-3,3-diphenylacrylate (TECH)		0u-95	3g	**6197-30-4**
		0u-95	10g	**6197-30-4**
2-Ethylhexyl-2,4-dichlorophenoxy acetate		PS-319-1	1g	**1928-43-4**
	100ug/mL in Acetonitrile	PS-319-1AJS	1mL	
	100ug/mL in Hexane	PS-319-1JS	1mL	
2-Ethylhexyl diphenyl phosphate		6685B	10g	**1241-94-7**
2-Ethylhexyl diphenyl phosphate (TECH)		Pz-655	10g	**1241-94-7**
2-Ethylhexyl epoxystearate (TECH)		Pz-939	10g	**141-38-8**
2-Ethylhexyl hydrogen phosphite		4637A	10g	**R**
2-Ethylhexyl isodecyl phthalate (S.G.)		Pt-33	10g	**R**
2-Ethylhexyl isodecyl phthalate (TECH)		Pz-478	10g	**R**
2-Ethylhexyl polyphosphate sodium salt (TECH)		S-480	10g	**R**
2-Ethylhexyl salicylate		4638E	5g	**118-60-5**
2-Ethylhexyl stearate (TECH)		Pz-260	10g	**R**
Ethyl hydrazinoacetate hydrochloride		4625H	100mg	**6945-92-2**
Ethyl-m-hydroxybenzoate		4640E	1g	**7781-98-8**
Ethyl-p-hydroxybenzoate (S.G.)		O-549	5g	**120-47-8**
		O-549	10g	**120-47-8**
Ethyl-m-hydroxycarbanilate carbanilate(ester)		PS-1015	250mg	**13684-56-5**
2-Ethyl-2-(hydroxymethyl)-1,3-propanediol		4639C	10g	**77-99-6**
Ethyl-2-hydroxypropanate		O-457	5g	**97-64-3**
Ethylidene diacetate (S.G.)		O-493	500mg	**542-10-9**
Ethylidene diacetate (S.G.)		O-493	2g	**542-10-9**
5-Ethyl-2-indolecarboxylic acid		4313K	10mg	**R**
Ethyl iodide (S.G.)		O-643	2g	**75-03-6**
Ethyl isoamyl ketone see F2406 5-Methyl-3-heptanone		F2406	1g	**541-85-5**
Ethyl isobutyrylacetate		4316K	10mg	**7152-15-0**
Ethyl isonipecotate		4319K	100mg	**1126-09-6**
(RS)-5-Ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-		PS-2039	100mg	**81335-77-5**
Ethyl isothiocyanate		4645B	1g	**542-85-8**
Ethyl lactate (S.G.)		O-457	5g	**97-64-3**
Ethyl laurate		4640H	1g	**106-33-2**
N-Ethylmaleimide		4648F	1g	**128-53-0**
Ethyl mercaptan		O-2098	5g	**75-08-1**
Ethyl mercaptoacetate (S.G.)		O-466	1g	**623-51-8**
		O-466	10g	**623-51-8**
Ethylmercuric chloride		PS-209	250mg	**107-27-7**

Category Name	Specification	Catalog#	Size	CAS#
Ethyl methacrylate (S.G.)		F984	5g	**97-63-2**
	100ug/mL in Hexane	F984JS	1mL	
	100ug/mL in Hexane	F984S	5mL	
Ethyl methacrylate (S.G.)		O-1009	5g	**97-63-2**
Ethyl methanesulfonate (S.G.)		F919	100mg	**62-50-0**
	100ug/mL in Methylene chloride	F919JS	1mL	
	100ug/mL in Methylene chloride	F919S	5mL	
Ethyl methoxyacetate		4322K	10mg	**3938-96-3**
N-Ethyl-o-methoxybenzylamine		4326K	10mg	**R**
Ethyl-2-methylacetoacetate		4650H	1g	**609-14-3**
Ethyl methylcarbamate		4334K	1g	**105-40-8**
N-Ethyl-3,4-(methylenedioxy)aniline		4338K	10mg	**32953-14-3**
Ethyl methylene phosphorodithioate		PS-92	250mg	**563-12-2**
Ethyl-3-methyl-4-[methylthio]phenyl[1-methylethyl]phosphoramidate		PS-612	250mg	**22224-92-6**
2-[(2-Ethyl-6-methylphenyl)amino]-1-propanol		MET-403A	50mg	**R**
N-Ethyl-N-(2-methyl-2-propenyl)-2.6-dinitro-4-(trifluoromethyl)benzenamine		PS-408	250mg	**55283-68-6**
N-[3-(1-Ethyl-1-methylpropyl)isoxazol-5-yl]-2,6-dimethoxybenzamide		PS-2129	250mg	**82558-50-7**
5-Ethyl-2-methyl pyridine		4651F	10g	**104-90-5**
O-Ethyl-O-[4-(methylthio)phenyl]-S-propyl phosphorodithioate		PS-1018	100mg	**35400-43-2**
Ethyl-4-[methylthio]-m-tolyl isopropylphosphoroamidate		PS-612	250mg	**22224-92-6**
N-Ethylmorpholine (S.G.)		O-316	5g	**100-74-3**
Ethyl myristate		4660H	1g	**124-06-1**
1-Ethyl naphthalene (S.G.)		F1029	100mg	**1127-76-0**
	100ug/mL in Toluene	F1029JS	1mL	
	100ug/mL in Toluene	F1029S	5mL	
2-Ethyl naphthalene (S.G.)		F1030	100mg	**939-27-5**
	100ug/mL in Toluene	F1030JS	1mL	
	100ug/mL in Toluene	F1030S	5mL	
Ethyl-1-naphthalene acetate		PS-335	1g	**2122-70-5**
	100ug/mL in Acetonitrile	PS-335AJS	1mL	
	100ug/mL in MTBE	PS-335JS	1mL	
N-Ethyl-a-naphthylamine		4680	10g	**118-44-5**
Ethyl nicotinate		4660	10g	**614-18-6**
Ethyl nitroacetate		4655H	100mg	**626-35-7**
Ethyl-p-nitrobenzoate		4654F	1g	**99-77-4**
Ethyl-o-nitrobenzoate		4655F	1g	**R**
Ethyl-p-nitrocinnamate		1579L	100mg	**953-26-4**
Ethyl 5-nitro-2-furoate		1585L	1g	**943-37-3**
O-Ethyl-O-p-nitrophenyl phenylphosphonothioate		PS-93	250mg	**2104-64-5**
O-Ethyl-O-p-nitrophenyl phenylthiophosphonate		PS-93	250mg	**2104-64-5**
Ethyl nonate		4695H	1g	**123-29-5**
Ethyl octanoate		4660F	10g	**106-32-1**
Ethyl oleate (S.G.)		O-417	2g	**111-62-6**
Ethyl oleate (TECH)		Pz-7	10g	**111-62-6**
Ethyl oxamate		4661J	1g	**617-36-7**
Ethyl palmitate		4690H	1g	**628-97-7**
Ethyl paraben		O-549	5g	**120-47-8**
Ethyl parathion		F998	500mg	**56-38-2**
3-Ethyl-3-pentanol		4665F	1g	**597-49-9**
Ethylperfluorobutyrate		4685E	1g	**356-27-4**
m-Ethylphenol (R.G.)		4702H	100mg	**620-17-7**
o-Ethylphenol (R.G.)		4701H	1g	**90-00-6**
p-Ethylphenol		4690	10g	**123-07-9**
Ethyl phenoxyacetate		4400K	10mg	**R**
Ethyl (2-(4-phenoxyphenoxy)ethyl)carbamate		PS-2174	100mg	**79127-80-3**
Ethyl phenylacetate (S.G.)		O-533	2g	**101-97-3**
Ethylphenylcyanoacetate		4699E	1g	**4553-07-5**
O-Ethyl-S-phenylethylphophonodithioate		PS-664	100mg	**944-22-9**
Ethyl phenyl glycidate		4700	10g	**121-39-1**
N-Ethyl-5-phenylisoxazolium-3′-sulfonate		4710	100mg	**4156-16-5**
Ethyl phthalylethylglycolate (TECH)		Pz-78	10g	**R**
Ethyl picolinate		4666F	1g	**2524-52-9**
Ethyl-n-piperazinocarboxylate		4662F	1g	**120-43-4**
1-Ethylpiperidine		4712E	10g	**766-09-6**
Ethyl propiolate		4500K	500mg	**623-47-2**
Ethyl propionate (S.G.)		O-418	5g	**105-37-3**
3-Ethyl-3-propylacrylic acid		4505K	10mg	**R**
1-Ethylpropylamine		4510K	100mg	**616-24-0**
N-[1-Ethylpropyl]-3,4-dimethyl-2,6-dinitrobenzeneamine		PS-401	1g	**40487-42-1**
3-Ethylpyridine		4515K	1g	**536-78-7**
4-Ethyl pyridine		4715	5g	**536-75-4**
Ethyl-3-pyridylacetate		4667F	1g	**39931-77-6**

Category Name	Specification	Catalog#	Size	CAS#
Ethyl pyrophosphate		PS-601	500mg	**107-49-3**
Ethyl pyruvate		4669F	1g	**617-35-6**
1-Ethylquinolinium iodide		4730	10g	**634-35-5**
Ethyl ricinoleate		4673F	1g	**55066-53-0**
Ethyl salicylate (S.G.)		O-550	5g	**118-61-6**
Ethyl-o-silicate (S.G.)		O-995	5g	**78-10-4**
1-(2-Ethylsulfonylimidazo[1,2a]pyridin-3-ylsulfonyl)-3-(4,6-dimethyoxypyrimidin-2-yl)urea		PS-2224	100mg	**141776-32-1**
1-(5-Ethylsulfonyl-1,3,4-thiadiazol-2-yl)-1,3-dimethylurea		PS-2061	100mg	**30043-49-3**
2-Ethylthio-4,6-di(isopropylamino)-1,3,5-triazine		PS-411	100mg	**4147-51-7**
2-(Ethylthio)ethylamine hydrochloride		4676F	1g	**54303-30-9**
S-[2-(Ethylthio)ethyl]-0,0-dimethyl phosphorothioate		PS-1096	50mg	**919-86-8**
a-Ethylthio-o-tolylmethyl carbamate		PS-2058	100mg	**29973-13-5**
N-Ethyl-2-thiourea		1582L	100mg	**625-53-6**
m-Ethyltoluene (S.G.)		O-2307	100mg	**620-14-4**
o-Ethyltoluene (S.G.)		O-2306	100mg	**611-14-3**
p-Ethyltoluene (S.G.)		O-2413	1g	**622-96-8**
N-Ethyl-p-toluenesulfonamide (TECH)		Pz-143	10g	**80-39-7**
N-Ethyl-toluenesulfonamide (o&p) (TECH)		Pz-144	10g	**R**
Ethyl p-toluenesulfonate (S.G.)		O-969	1g	**80-40-0**
		O-969	10g	**80-40-0**
N-Ethyl-m-toluidine		4525K	100mg	**102-27-2**
N-Ethyl-o-toluidine		4750	10g	**94-68-8**
2-(N-Ethyl-m-toluidino)ethanol		1804L	1g	**91-88-3**
Ethyl trichloroacetate (S.G.)		O-455	1g	**515-84-4**
		O-455	10g	**515-84-4**
O-Ethyl-O-(2,4,5-trichlorophenyl)ethyl phosphonothioate		PS-2007	100mg	**327-98-0**
Ethyl trifluoroacetate		4530K	1g	**383-63-1**
Ethyl-4,4,4-trifluoroacetoacetate		4535K	100mg	**372-31-6**
Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate		PS-2134	50mg	**65733-18-8**
Ethyltriphenylphosphonium iodide		1780L	1g	**4736-60-1**
Ethylurea		4753E	5g	**625-52-5**
Ethyl valerate		4697F	1g	**539-82-2**
Ethyl vinyl ether (S.G.)		O-1010	5g	**109-92-2**
Ethyl violet/C,I,#42600		BS-55	1g	**2390-59-2**
Ethylxanthic acid potassium salt		7225C	10g	**140-89-6**
N-Ethyl-2,3-xylidine		4570K	100mg	**41115-23-5**
Ethynyl alcohol of DL-Menthone		4759C	10g	**R**
Ethynylbenzene		4723F	1g	**536-74-3**
1-Ethynyl-1-cyclohexanol		4760A	5g	**78-27-3**
Ethynylestradiol-3-methyl ether		F2145	100mg	**72-33-3**
Eticol		PS-610	100mg	**311-45-5**
Etilon™		PS-95	500mg	**56-38-2**
Etoc™		PS-2109	10mg	**23031-36-9**
Etofenprox		PS-2237	100mg	**80844-07-1**
	100ug/mL in Acetonitrile	PS-2237AJS	1mL	
	100ug/mL in Toluene	PS-2237JS	1mL	
Etoxazole		PS-2257	50mg	**153233-91-1**
	100ug/mL in Acetonitrile	PS-2257AJS	1mL	
	100ug/mL in Toluene	PS-2257JS	1mL	
Etridazole		F2202	250mg	**2593-15-9**
Etridiazole		PS-264	250mg	**2593-15-9**
Etridiazole Solution	100ug/mL in Acetonitrile	PS-264AJS	1mL	
Etrolene		PS-657	100mg	**299-84-3**
ETU		O-714	5g	**96-45-7**
Eucalyptol		4750H	1g	**470-82-6**
Eugenic acid™		PS-940	250mg	**97-53-0**
Eugenol		PS-940	250mg	**97-53-0**
Euparen M™		PS-2060	250mg	**731-27-1**
Euparen™		PS-2047	250mg	**1085-98-9**
Eurex		PS-502	250mg	**1134-23-2**
Europium - 4% HNO3		X10M 17-1-100	100mL	
		X10M 17-1-250	250mL	
		X10M 17-1-500	500mL	
Europium - 10% HCl		X10M 17-2-100	100mL	
		X10M 17-2-250	250mL	
		X10M 17-2-500	500mL	
Europium - Eu2O3, 99,99%, 2% HCl		X100017-2-A	100mL	
		X100017-2-B	250mL	
		X100017-2-C	500mL	
Europium - Eu2O3, 99,99%, 2% HNO3		X100017-1-A	100mL	
		X100017-1-B	250mL	
		X100017-1-C	500mL	

Category Name	Specification	Catalog#	Size	CAS#
Europium Oxide (Eu203) 99,99%		XEU-0-A	5g	
		XEU-0-B	25g	
Evans blue/C,I,#23860		BS-37	1g	**314-13-6**
EVIK™		PS-383	500mg	**834-12-8**
Evital™		PS-1044	100mg	**27314-13-2**
Excel™		PS-1088	100mg	**66441-23-4**
EXD		PS-66	250mg	**502-55-6**
Express™		PS-2099	250mg	**101200-48-0**
Extra™		PS-2223	100mg	**71283-80-2**
Extraction Fluid No, 1, pH 4,93 +/- 0,05 (1000ml)		XTCLP-EF	1L	
E-Z Off D		PS-562	250mg	**78-48-8**
Facet™		PS-2098	500mg	**84087-01-4**
Famid™		PS-2022	250mg	**6988-21-2**
Famophos™		PS-671	250mg	**52-85-7**
Famosept™		PS-203	100mg	**102-98-7**
Famoxadone		PS-2259	100mg	**131807-57-3**
	100ug/mL in Acetonitrile	PS-2259AJS	1mL	
	100ug/mL in Toluene	PS-2259JS	1mL	
Famphur (S.G.)		F994	250mg	**52-85-7**
	100ug/mL in Isooctane	F994JS	1mL	
	100ug/mL in Isooctane	F994S	5mL	
Famphur		PS-671	250mg	**52-85-7**
Famphur-O-analog		MET-671A	50mg	**960-25-8**
Fargo™		PS-506	1g	**2303-17-5**
Fastac™		PS-2083	250mg	**67375-30-8**
Fast blue salt B/C,I,#37235		BS-144	1g	**20282-70-6**
Fast green FCF/C,I,#42053		BS-46	1g	**2353-45-9**
Fatal™		PS-33	250mg	**1861-32-1**
Fecundal™		PS-2043	100mg	**35554-44-0**
Fenac		PS-308	250mg	**85-34-7**
	100ug/mL in Acetonitrile	PS-308AJS	1mL	
	100ug/mL in MTBE	PS-308JS	1mL	
Fenamidone		PS-2292	100mg	**161326-34-7**
	100ug/mL in Acetonitrile	PS-2292AJS	1mL	
	100ug/mL in Toluene	PS-2292JS	1mL	
Fenamidone Metabolite		MET-2292A	POR	**332855-88-6**
Fenaminosulf		PS-262	250mg	**140-56-7**
	100ug/mL in Methanol	PS-262JS	1mL	
Fenamiphos (S.G.)		F2246	250mg	**22224-92-6**
Fenamiphos		PS-612	250mg	**22224-92-6**
Fenamiphos sulfone		MET-612B	100mg	**31972-44-8**
Fenamiphos sulfoxide		MET-612A	50mg	**31972-43-7**
Fenarimol (S.G.)		F2230	100mg	**60168-88-9**
	100ug/mL in t-Butylmethyl ether	F2230JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2230S	5mL	
Fenarimol		PS-1073	100mg	**60168-88-9**
	100ug/mL in Acetonitrile	PS-1073AJS	1mL	
Fenatrol		PS-308	250mg	**85-34-7**
Fenazaquin		PS-2258	100mg	**120928-09-8**
	100ug/mL in Acetonitrile	PS-2258AJS	1mL	
	100ug/mL in Toluene	PS-2258JS	1mL	
Fenbuconazole		PS-2072	100mg	**114369-43-6**
	100ug/mL in Methanol	PS-2072JS	1mL	
Fenbutatin-oxide		PS-1060	250mg	**13356-08-6**
	100ug/mL in Acetonitrile	PS-1060AJS	1mL	
Fenchlorphos (S.G.)		F2068	100mg	**299-84-3**
	100ug/mL in Toluene	F2068JS	1mL	
	100ug/mL in Toluene	F2068S	5mL	
Fenchlorphos		PS-657	100mg	**299-84-3**
Fenchlorphos-oxon		MET-657A	100mg	**R**
Fenchone (S.G.)		O-803	1g	**1195-79-5**
		O-803	5g	**1195-79-5**
Fendona™		PS-2203	250mg	**65731-84-2**
Fendona™		PS-2083	250mg	**67375-30-8**
Fenhexamid		PS-2202	250mg	**126833-17-8**
	100ug/mL in Acetonitrile	PS-2202AJS	1mL	
Fenitrothion		PS-678	250mg	**122-14-5**
	100ug/mL in Acetonitrile	PS-678AJS	1mL	
Fenitrothion (S.G.)		F2423	250mg	**122-14-5**
	1000ug/mL in Hexane	F2423JS	1mL	
	1000ug/mL in Hexane	F2423S	5mL	
Fenitrothion-O-analog	100ug/mL in Hexane	MET-678A	5mL	**2255-17-6**
Fenobucarb		PS-1046	250mg	**3766-81-2**
Fenoprop™		PS-47	250mg	**93-72-1**
Fenoxanil		PS-2364	100mg	**115852-48-7**
Fenoxaprop ethyl		PS-1088	100mg	**66441-23-4**
	100ug/mL in Methanol	PS-1088JS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Fenoxaprop-P-ethyl		PS-2223	100mg	**71283-80-2**
	100ug/mL in Acetonitrile	PS-2223AJS	1mL	
	100ug/mL in Toluene	PS-2223JS	1mL	
Fenoxycarb		PS-2174	100mg	**79127-80-3**
	100ug/mL in Acetonitrile	PS-2174AJS	1mL	
Fenpropathrin		PS-2002	250mg	**64257-84-7**
	100ug/mL in Acetonitrile	PS-2002AJS	1mL	
	100ug/mL in MTBE	PS-2002JS	1mL	
Fenpropimorph	100ug/mL in Toluene	PS-1214	5mL	**67564-91-4**
Fenpyroximate		PS-2216	100mg	**134098-61-6**
	100ug/mL in Acetonitrile	PS-2216AJS	1mL	
	100ug/mL in Toluene	PS-2216JS	1mL	
Fenson		PS-2373	250mg	**80-38-6**
Fensulfothion (S.G.)		F2063	100mg	**115-90-2**
	100ug/mL in Methanol	F2063JS	1mL	
	100ug/mL in Methanol	F2063S	5mL	
Fensulfothion		PS-667	100mg	**115-90-2**
Fenthion (S.G.)		F2064	250mg	**55-38-9**
	100ug/mL in Propanol	F2064JS	1mL	
	100ug/mL in Propanol	F2064S	5mL	
Fenthion		PS-655	250mg	**55-38-9**
Fenthion sulfoxide		MET-655D	100mg	**3761-41-9**
Fenthion-O-analog -	100ug/mL in Isooctane	MET-655C	5mL	**6552-12-1**
Fenthion-ethyl		PS-2275	500mg	**1716-09-2**
	100ug/mL in Acetonitrile	PS-2275AJS	1mL	
	100ug/mL in Toluene	PS-2275JS	1mL	
Fenthion-sulfone		MET-655A	100mg	**3761-42-0**
	100ug/mL in Methylene chloride	MET-655B	5mL	**3761-41-9**
Fentin acetate		PS-1021	250mg	**900-95-8**
Fentin hydroxide		PS-1031	250mg	**76-87-9**
	100ug/mL in Acetonitrile	PS-1031AJS	1mL	
Fenuron (S.G.)		F2372	250mg	**101-42-8**
	1000ug/mL in Acetonitrile	F2372JS	1mL	
	1000ug/mL in Acetonitrile	F2372S	5mL	
Fenuron		PS-61	250mg	**101-42-8**
Fenuron TCA (S.G.)		F2558	1g	**4482-55-7**
Fenuron TCA		PS-364	1g	**4482-55-7**
Fenvalerate (S.G.)		F2459	250mg	**51630-58-1**
Fenvalerate™		PS-1032	250mg	**51630-58-1**
Fenvinal™		PS-2013	100mg	**74051-80-2**
Ferbam		PS-20	250mg	**14484-64-1**
	100ug/mL in Methanol	PS-20AJS	1mL	
	100ug/mL in Toluene	PS-20JS	1mL	
Ferberk™		PS-20	250mg	**14484-64-1**
Fermate™		PS-20	250mg	**14484-64-1**
Fermine		PS-901	1g	**131-11-3**
Ferradow™		PS-20	250mg	**14484-64-1**
Ferric acetylacetonate		I-3090	1g	**14024-18-1**
Ferric ammonium citrate-brown granular		I-3102	10g	**1185-57-5**
Ferric ammonium citrate-green granular		I-3100	10g	**1185-57-5**
Ferric ammonium sulfate		I-52	10g	**7783-83-7**
Ferric chloride-hexahydrate		I-53	10g	**10025-77-1**
Ferric citrate		I-3110	1g	**2338-05-8**
Ferric dimethyldithiocarbamate		PS-20	250mg	**14484-64-1**
Ferric fluoride		I-3120	1g	**7783-50-8**
Ferric nitrate		I-54	10g	**7782-61-8**
Ferric oxide		I-3150	10g	**1309-37-1**
Ferric perchlorate		I-3155	1g	**13537-24-1**
Ferric potassium tartrate		I-3160	1g	**R**
Ferric sulfate		I-3170	10g	**15244-10-7**
Ferric tartrate		I-3175	1g	**R**
Ferrocenecarboxylic acid		4760	500mg	**1271-42-7**
Ferrous ammonium sulfate		I-55	10g	**7783-85-9**
Ferrous chloride tetrahydrate		I-56	10g	**13478-10-9**
Ferrous fluoride		I-3130	1g	**7789-28-8**
Ferrous sulfate-heptahydrate		I-57	10g	**7782-63-0**
Ferrous sulfide		I-58	10g	**1317-37-9**
Fervin™	100ug/mL in Acetonitrile	PS-1200	5mL	**66003-55-2**
Feypel™		PS-902	250mg	**134-62-3**
Ficam™		PS-739	250mg	**22781-23-3**
Filex™		PS-2167	250mg	**25606-41-1**
Finale™		PS-2124	250mg	**77182-82-2**
Fipronil		PS-2136	100mg	**120068-37-3**
	100ug/mL in Acetonitrile	PS-2136AJS	1mL	
	100ug/mL in Toluene	PS-2136JS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Fipronil sulfide		MET-2136B	25mg	**120067-83-6**
	100ug/mL in Acetonitrile	MET-2136BJS	1mL	
Fipronil sulfone		MET-2136A	50mg	**120068-36-2**
	100ug/mL in Acetonitrile	MET-2136AJS	1mL	
FirstRate™		PS-2165	100mg	**147150-35-4**
Flamprop isopropyl		PS-2037	100mg	**52756-22-6**
	100ug/mL in Acetonitrile	PS-2037AJS	1mL	
	100ug/mL in MTBE	PS-2037JS	1mL	
Flamprop-methyl (S.G.)		PS-2038	100mg	**52756-25-9**
	100ug/mL in Acetonitrile	PS-2038AJS	1mL	
	100ug/mL in MTBE	PS-2038JS	1mL	
Floraltone		PS-561	1g	**88-82-4**
Floramite™		PS-2194	250mg	**149877-41-8**
Florasan™		PS-2043	100mg	**35554-44-0**
Fluazifop		PS-1205	5mL	**69335-91-7**
Fluazifop-butyl		PS-2240	250mg	**69806-50-4**
	100ug/mL in Acetonitrile	PS-2240AJS	1mL	
	100ug/mL in Toluene	PS-2240JS	1mL	
Fluazifop-P-butyl		PS-1097	100mg	**79241-46-6**
		PS-1097AJS	1mL	
		PS-1097JS	1mL	
Fluazinam		PS-2249	100mg	**79622-59-6**
		PS-2249AJS	1mL	
		PS-2249JS	1mL	
Flucarbazone-sodium		PS-2231	250mg	**181274-17-9**
	100ug/mL in Water	PS-2231AJS	1mL	
Fluchloralin (S.G.)		F2391	50mg	**33245-39-5**
	1000ug/mL in Hexane	F2391JS	1mL	
	1000ug/mL in Hexane	F2391S	5mL	
Fluchloralin		PS-1012	50mg	**33245-39-5**
	100ug/mL in Acetonitrile	PS-1012AJS	1mL	
Flucythrinate		PS-1072	100mg	**70124-77-5**
	100ug/mL in Acetonitrile	PS-1072AJS	1mL	
	100ug/mL in Toluene	PS-1072JS	1mL	
Fludioxonil		PS-2172	100mg	**131341-86-1**
	100ug/mL in Acetonitrile	PS-2172AJS	1mL	
	100ug/mL in Toluene	PS-2172JS	1mL	
Flufenacet		PS-2205	100mg	**142459-58-3**
	100ug/mL in Methanol	PS-2205JS	1mL	
Flufenacet ESA sodium salt		MET-2205A	25mg	**947601-87-8**
	100ug/mL in Methanol	MET-2205AJS	1mL	
Flufenacet OA		MET-2205B	10mg	**201668-31-7**
	100ug/mL in Methanol	MET-2205BJS	1mL	
Flufenoxuron		PS-2213	50mg	**101463-69-8**
	100ug/mL in Acetonitrile	PS-2213AJS	1mL	
Flumetralin	100ug/mL in Acetone	PS-1211	5mL	**62924-70-3**
Flumetralin		PS-2168	250mg	**62924-70-3**
	100ug/mL in Acetonitrile	PS-2168AJS	1mL	
	100ug/mL in Isooctane	PS-2168JS	1mL	
Flumetsulam		PS-2111	500mg	**98967-40-9**
	100ug/mL in Acetonitrile	PS-2111AJS	1mL	
	100ug/mL in Toluene	PS-2111JS	1mL	
Flumiclorac-pentyl		PS-2119	500mg	**87546-18-7**
	100ug/mL in Acetonitrile	PS-2119AJS	1mL	
	100ug/mL in MTBE	PS-2119JS	1mL	
Flumioxazin		PS-2245	100mg	**103361-09-7**
	100ug/mL in Acetonitrile	PS-2245AJS	1mL	
	100ug/mL in Toluene	PS-2245JS	1mL	
Fluometuron		PS-369	1g	**2164-17-2**
	100ug/mL in Toluene	PS-369JS	1mL	
Fluometuron (S.G.)		F2373	1g	**2164-17-2**
	1000ug/mL in Acetonitrile	F2373JS	1mL	
	1000ug/mL in Acetonitrile	F2373S	5mL	
Fluopicolide		PS-2357	100mg	**239110-15-7**
Fluorakil 100™		PS-2029	1g	**640-19-7**
Fluoranthene (S.G.)		F39	1g	**206-44-0**
	100ug/mL in Methanol	F39MJS	1mL	
	100ug/mL in Methanol	F39MS	5mL	
	100ug/mL in Toluene	F39JS	1mL	
	100ug/mL in Toluene	F39S	5mL	
Fluoranthene (S.G.)		0-785	500mg	**206-44-0**
		0-785	10g	**206-44-0**
Fluoranthene-d10 (S.G.)		F2483	10mg	**93951-69-0**
	200ug/mL in Methanol	F2483JS	1mL	
	200ug/mL in Methanol	F2483S	5mL	
	2000ug/mL in Methanol	F2483AJS	1mL	
	2000ug/mL in Methanol	F2483AS	5mL	
Fluoranthene (13C6)	100ug/mL in n-Nonane	FC39S	1.2mL	
2-Fluorenamine		0-2378	1g	**153-78-6**
Fluorene (S.G.)		F80	1g	**86-73-7**
	100ug/mL in Toluene	F80JS	1mL	
	100ug/mL in Toluene	F80S	5mL	
	100ug/mL in Methanol	F80MJS	1mL	
	100ug/mL in Methanol	F80MS	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Fluorene (S.G.)		0-786	1g	**86-73-7**
		0-786	5g	**86-73-7**
Fluorene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC80S	1.2mL	
Fluorene (d10) (S.G.)		FD80-1	1g	**R**
		FD80-A	0.1g	**R**
	200ug/mL in Isooctane	FD80S	1.2mL	
9-Fluorene carboxylic acid		4670K	10mg	**1989-33-9**
9-Fluorenone		4775	5g	**486-25-9**
9-Fluorenone-4-carboxylic acid		4790F	1g	**6223-83-2**
Fluorescein/C.I.#45350		BS-63	1g	**2321-07-5**
Fluorescein diacetate		4789F	1g	**596-09-8**
Fluorescein mercuric acetate		1249L	1g	**3570-80-7**
Fluoride	1000ug/mL in Water	XIC-FF-M-A	100mL	
		XIC-FF-M-B	250mL	
		XIC-FF-M-C	500mL	
Fluoride	100ug/mL in Water	XIC-FF-A	100mL	
		XIC-FF-B	250mL	
		XIC-FF-C	500mL	
2-Fluoroacetamide		PS-2029	1g	**640-19-7**
	100ug/mL in Methanol	PS-2029JS	1mL	
Fluoroacetic acid sodium salt		PS-105	1g	**62-74-8**
3′-Fluoroacetophenone		4675K	10mg	**455-36-7**
p-Fluoro-a-methylbenzylamine		4735K	100mg	**R**
2-Fluoroaniline		4680K	1g	**348-54-9**
3-Fluoroaniline		4682K	100mg	**372-19-0**
4-Fluoroaniline (S.G.)		F838	5g	**371-40-4**
	2000ug/mL in Methylene chloride	F838JS	1mL	
	2000ug/mL in Methylene chloride	F838S	5mL	
o-Fluorobenzaldehyde		4688K	100mg	**446-52-6**
Fluorobenzene (S.G.)		F839	2g	**462-06-6**
	2000ug/mL in Methanol	F839JS	1mL	
	2000ug/mL in Methanol	F839S	5mL	
Fluorobenzene (S.G.)		0-684	2g	**462-06-6**
		0-684	10g	**462-06-6**
2-Fluorobenzyl alcohol		4692K	100mg	**446-51-5**
3-Fluorobenzyl alcohol		4693K	100mg	**456-47-3**
4-Fluorobenzyl alcohol		4697K	100mg	**459-56-3**
m-Fluorobenzylamine		4705K	10mg	**100-82-3**
p-Fluorobenzylamine		4710K	100mg	**140-75-0**
2-Fluorobenzyl chloride		4715K	100mg	**345-35-7**
4-Fluorobenzyl chloride		4794F	1g	**352-11-4**
2-Fluorobiphenyl (S.G.)		F410	1g	**321-60-8**
	2000ug/mL in Methylene chloride	F410AJS	1mL	
	2000ug/mL in Methylene chloride	F410AS	5mL	
	100ug/mL in Methanol	F410JS	1mL	
	100ug/mL in Methanol	F410S	5mL	
Fluoroboric acid		I-3180	10g	**16872-11-0**
Fluorodifen		PS-431	250mg	**15457-05-3**
	100ug/mL in Methanol	PS-431JS	1mL	
1-Fluoro-2,4-dinitrobenzene		4240	10g	**70-34-8**
2-Fluoroethanol		4720K	100mg	**371-62-0**
Fluoroglycofen-ethyl		PS-2348	100mg	**77501-90-7**
5-Fluoroindole		4801B	100mg	**R**
3-Fluoro-2-methylaniline		4725K	100mg	**443-86-7**
5-Fluoro-2-methylaniline		4730K	10mg	**367-29-3**
2-Fluoro-4-methylaniline		4799F	100mg	**R**
1-Fluoronaphthalene (S.G.)		F420	1g	**321-38-0**
	100ug/mL in Methanol	F420JS	1mL	
	100ug/mL in Methanol	F420S	5mL	
2-Fluoronaphthalene (S.G.)		F906	50mg	**323-09-1**
	2000ug/mL in Methylene chloride	F906JS	1mL	
	2000ug/mL in Methylene chloride	F906S	5mL	
2-Fluoronitrobenzene		4740K	100mg	**1493-27-2**
5-Fluoro-2-nitrophenol (R.G.)		4754K	100mg	**446-36-6**
4-Fluoro-o-phenylenediamine		4770K	100mg	**R**
2-Fluorophenol (S.G.)		F430	1g	**367-12-4**
	2000ug/mL in Methanol	F430AJS	1mL	
	2000ug/mL in Methanol	F430AS	5mL	
4-Fluorophenol (R.G.)		4760K	100mg	**371-41-5**
2-Fluorophenylacetic acid		4765K	100mg	**451-82-1**
Alpha-(2-Fluorophenyl)-alpha-(4-fluorophenyl)-1H-1,2,4-triazole-1-ethanol		PS-2177	100mg	**76674-21-0**
3-Fluorophenylhydrazine hydrochloride		4775K	100mg	**2924-16-5**
2-Fluorophenyl isocyanate		4780K	10mg	**16744-98-2**
3-Fluorophenyl isocyanate		4783K	10mg	**404-71-7**
4-Fluorophenylisocyanate		4803F	1g	**1195-45-5**
3-Fluorophenylisothiocyanate		4788K	100mg	**404-72-8**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
N-(4-Fluorophenyl)-N-(1-methylethyl)-2-((5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl)oxyl)acetamide		PS-2205	100mg	**142459-58-3**
3-Fluoropyridine		4805F	1g	**372-47-4**
4-Fluorothiophenol		4755K	100mg	**371-42-6**
Fluoxastrobin		PS-2377	100mg	**361377-29-9**
Flurenol		PS-2376	1g	**467-69-6**
Flurenol-butyl		PS-2375	250mg	**2314-09-2**
Flurenol-methyl		PS-2374	250mg	**1216-44-0**
Fluridone		PS-1070	100mg	**59756-60-4**
Fluridone		F2231	100mg	**59756-60-4**
Fluroxypyr		PS-2339	100mg	**69377-81-7**
Fluroxypyr-meptyl		PS-2191	100mg	**81406-37-3**
	100ug/mL in Methanol	PS-2191JS	1mL	
Fluroxypyr-1-methylheptyl ester		PS-2191	100mg	**81406-37-3**
Flurprimidol		PS-2131	100mg	**56425-91-3**
	100ug/mL in Methanol	PS-2131JS	1mL	
Flusilazole		PS-2041	100mg	**85509-19-9**
	100ug/mL in Acetonitrile	PS-2041AJS	1mL	
	100ug/mL in Toluene	PS-2041JS	1mL	
Fluthiamide		PS-2205	100mg	**142459-58-3**
Flutolanil		PS-2057	250mg	**66332-96-5**
	100ug/mL in Methanol	PS-2057JS	1mL	
Flutriafol		PS-2177	100mg	**76674-21-0**
	100ug/mL in Acetonitrile	PS-2177AJS	1mL	
	100ug/mL in Toluene	PS-2177JS	1mL	
(a-RS,2R)-Fluvalinate		PS-1071	100mg	**102851-06-9**
tau-Fluvalinate		PS-1071	100mg	**102851-06-9**
Folbex™		PS-854	100mg	**510-15-6**
Folcid™		PS-260	250mg	**2425-06-1**
Folex™		PS-68	250mg	**150-50-5**
Folex™		PS-68	1g	**150-50-5**
Folic acid (S.G.)		V-24	1g	**59-30-3**
Folicur (TM) Solution	100ug/mL in Acetonitrile	PS-1091AJS	1mL	
	100ug/mL in Isooctane	PS-1091JS	1mL	
Folidol™		PS-95	500mg	**56-38-2**
Folidol-M™		PS-94	250mg	**298-00-0**
Folimat™		PS-2017	100mg	**1113-02-6**
Folithion™		PS-678	250mg	**122-14-5**
Folosan™		PS-150	1g	**82-68-8**
Folpet		PS-26	250mg	**133-07-3**
		PS-26AJS	1mL	
	100ug/mL in Toluene	PS-26JS	1mL	
	100ug/mL in Toluene	PS-26JS	1mL	
Fomesafen		PS-2102	500mg	**72178-02-0**
	100ug/mL in Methanol	PS-2102JS	1mL	
Fonofos (S.G.)		F2424	100mg	**944-22-9**
	1000ug/mL in Hexane	F2424JS	1mL	
	1000ug/mL in Hexane	F2424S	5mL	
Fonofos		PS-664	100mg	**944-22-9**
	100ug/mL in Acetonitrile	PS-664JS	1mL	
Foramsulfuron		PS-2232	100mg	**173159-57-4**
	100ug/mL in Acetonitrile	PS-2232AJS	1mL	
	100ug/mL in Toluene	PS-2232JS	1mL	
Forchlorfenuron		PS-2150	100mg	**68157-60-8**
	100ug/mL in Acetonitrile	PS-2150AJS	1mL	**68157-60-8**
Fore™		PS-2095	500mg	**8018-01-7**
Formaldehyde (in water) (S.G.)		F2328	5g	**50-00-0**
Formaldehyde (in water) (S.G.)		0-229	5g	**50-00-0**
Formaldehyde (in water) (S.G.)			10g	**50-00-0**
Formaldehyde (in water)		PS-2031	1g	**50-00-0**
Formaldehyde (DNPH Derivative) (S.G.)		F2347	100mg	**1081-15-8**
	100ug/mL in Acetonitrile	F2347AJS	1mL	
	100ug/mL in Acetonitrile	F2347AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2347JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2347S	5mL	
Formaldehyde-dimethylnaphthalene resin (TECH)		Pz-156	10g	**R**
Formalin		PS-2031	1g	**50-00-0**
Formamide (S.G.)		0-253	10g	**75-12-7**
Formamidine acetate		4800K	100mg	**3473-63-0**
Formamidine disulfide dihydrochloride		1675L	100mg	**14807-75-1**
Formanilide		4826F	5g	**103-70-8**
Formetanate hydrochloride		PS-400	250mg	**23422-53-9**
	100ug/mL in Acetonitrile	PS-400AJS	1mL	
	100ug/mL in Toluene	PS-400JS	1mL	
Formic acid (S.G.)		0-16	10g	**64-18-6**

Category Name	Specification	Catalog#	Size	CAS#
Formothion		PS-2036	100mg	**2540-82-1**
	100ug/mL in Acetonitrile	PS-2036AJS	1mL	
	100ug/mL in Hexane	PS-2036JS	1mL	
4'-Formylacetanilide		4850	2g	**122-85-0**
o-Formylbenzenesulfonic acid sodium salt		4855	5g	**1008-72-6**
N-Formylglycine		4820K	10mg	**2491-15-8**
Formylhydrazine		4860	10g	**624-84-0**
S-[2-(Formylmethylamino-2-oxoethyl]-0,0-dimethyl-phosphorodith		PS-2036	100mg	**2540-82-1**
Fortress™		PS-2217	250mg	**54593-83-8**
FortuneT2™		PS-2156	500mg	**57018-04-9**
Fosamine Ammonium		PS-414	1g	**25954-13-6**
	100ug/mL in Water	PS-414AJS	1mL	
	100ug/mL in Toluene	PS-414JS	1mL	
Fosarbin		PS-2181	50mg	**645-78-3**
Fosetyl-Aluminum		PS-2026	100mg	**39148-24-8**
Fosfakol		PS-610	100mg	**311-45-5**
Fos-Fall "A"		PS-562	250mg	**78-48-8**
Fosferno™		PS-95	500mg	**56-38-2**
Fosthiazate		PS-2273	30mg	**98886-44-3**
	100ug/mL in Acetonitrile	PS-2273AJS	1mL	
	100ug/mL in Toluene	PS-2273JS	1mL	
Fostion MM™		PS-659	250mg	**60-51-5**
Fratol		PS-105	1g	**62-74-8**
Freon 113		0-2269	5g	**76-13-1**
Freshgard™		PS-2043	100mg	**35554-44-0**
Frontier™		PS-2161	100mg	**87674-68-8**
D-Fructose		CARB-10	5g	**57-48-7**
D-Fructose (S.G.)		0-937	2g	**57-48-7**
		0-937	10g	**57-48-7**
Fructose-1,6-diphosphate barium salt		1870L	100mg	**R**
Fruit Fax™		PS-29	1g	**86-87-3**
Fruitone™ CPA		PS-317	1g	**101-10-0**
Frunax-DS™		PS-2143	100mg	**56073-07-5**
Fuberidazole		PS-2059	100mg	**3878-19-1**
	100ug/mL in Methanol	PS-2059JS	1mL	
Fuclasine™		PS-21	1g	**137-30-4**
L-Fucose		CARB-6	500mg	**6696-41-9**
Fuji-One™		PS-2101	250mg	**50512-35-1**
Fuklasin™		PS-21	1g	**137-30-4**
Fullers earth-powder		I-3190	10g	**8031-18-3**
Fumaric acid (S.G.)		0-64	5g	**110-17-8**
		0-64	10g	**110-17-8**
Fumazone™		PS-1	250mg	**96-12-8**
Fumite™		PS-151	1g	**117-18-0**
Funchiong jujr™		PS-1072	100mg	**70124-77-5**
Fundal™		PS-840	250mg	**6164-98-3**
Fungaflor™		PS-2043	100mg	**35554-44-0**
Fungazil™		PS-2043	100mg	**35554-44-0**
Fundinex™		PS-2014	100mg	**26644-46-2**
Fungitox™		PS-230	250mg	**23564-05-8**
Funtumine base		4865S	5g	**474-45-3**
Furacrylic acid		PS-341	1g	**539-47-9**
Furadan™		PS-754	250mg	**1563-66-2**
2-Furalacetic acid		PS-341	1g	**539-47-9**
2-Furaldehyde		0-235	1g	**98-01-1**
2-Furaldehyde (DNPH Derivative) (S.G.)		F2911	100mg	**R**
2-Furaldoxime		4870K	100mg	**1121-47-7**
Furan (S.G.)		0-2298	10g	**110-00-9**
2-Furanacrylic acid		PS-341	1g	**539-47-9**
	100ug/mL in Acetonitrile	PS-341AJS	1mL	
	100ug/mL in MTBE	PS-341JS	1mL	
2-Furanmethanethiol		4875C	10g	**98-02-2**
2-(2-Furanyl)-1H-benzimidazole		PS-2059	100mg	**3878-19-1**
Furfural (S.G.)		F2394	5g	**98-01-1**
Furfural (S.G.)		0-235	1g	**98-01-1**
		0-235	10g	**98-01-1**
Furfuryl acetate (S.G.)		0-444	1g	**623-17-6**
		0-444	5g	**623-17-6**
Furfuryl alcohol		0-2102	5g	**98-00-0**
		0-2102	10g	**98-00-0**
Furfurylamine		4883A	10g	**617-89-0**
Furfurylmercaptan		4875C	10g	**98-02-2**

Category Name	Specification	Catalog#	Size	CAS#
Furilazole		PS-2378	100mg	**121776-33-8**
2-Furoic acid (S.G.)		0-53	1g	**88-14-2**
		0-53	10g	**88-14-2**
3-Furoic acid		4890K	1g	**488-93-7**
Furore™		PS-1088	100mg	**66441-23-4**
1-Furoyl-3-(p-tolyl)thiourea		4834F	1g	**R**
Fururylidene acetic acid		PS-341	1g	**539-47-9**
B-Furylacrylic acid		PS-341	1g	**539-47-9**
2-Furyl methyl ketone		0-2401	5g	**1192-62-7**
Fusarex™		PS-151	1g	**117-18-0**
Fusilade™ 5		PS-1097	100mg	**79241-46-6**
Fusilade™ 2000		PS-1097	100mg	**79241-46-6**
Fusilade™ DX		PS-1097	100mg	**79241-46-6**
Fusilade™ Super		PS-1097	100mg	**79241-46-6**
Fusilade™		PS-1097	100mg	**79241-46-6**
Fussol™		PS-2029	1g	**640-19-7**
Gadolinium - 4% HNO3		X10M 18-1-100	100mL	
		X10M 18-1-250	250mL	
		X10M 18-1-500	500mL	
Gadolinium - 10% HCl		X10M 18-2-100	100mL	
		X10M 18-2-250	250mL	
		X10M 18-2-500	500mL	
Gadolinium - Gd2O3, 99.99%, 2% HNO3		X100018-1-A	100mL	
		X100018-1-B	250mL	
		X100018-1-C	500mL	
Gadolinium Oxide (Gd2O3) 99.99%		XGD-O-A	5g	
		XGD-O-B	25g	
Gadolium - Gd2O3, 99.99%, 2% HCl		X100018-2-A	100mL	
		X100018-2-B	250mL	
		X100018-2-C	500mL	
Galactitol		CARB-27	5g	**608-66-2**
L-Galactono-1,4-lactone		1837L	100mg	**1668-08-2**
D-Galactosamine hydrochloride		CARB-41	100mg	**1772-03-8**
L-Galactose		4895K	100mg	**15572-79-9**
D-(+)-Galactose		CARB-7	5g	**59-23-4**
D-(+)-Galactose (S.G.)		0-934	5g	**59-23-4**
		0-934	10g	**59-23-4**
d-a-Galacturonic acid		4897E	1g	**685-73-4**
Galataric acid		0-77	1g	**526-99-8**
Galben™		PS-2142	250mg	**71626-11-4**
Gallery™		PS-2129	250mg	**82558-50-7**
Gallic acid (S.G.)		0-103	2g	**5995-86-8**
		0-103	10g	**5995-86-8**
Gallic acid stearyl ester		4884F	1g	**10361-12-3**
Gallien/C.I.#45445		BS-151	1g	**2103-64-2**
Gallium metal		RE-80	10mg	**7440-55-3**
Gallium - 4% HNO3		X10M 19-1-100	100mL	
		X10M 19-1-250	250mL	
		X10M 19-1-500	500mL	
Gallium - 10% HCl		X10M 19-2-100	100mL	
		X10M 19-2-250	250mL	
		X10M 19-2-500	500mL	
Gallium - Ga metal, 99.999%, 2% HNO3		X100019-1-A	100mL	
		X100019-1-B	250mL	
		X100019-1-C	500mL	
Gallium - Ga metal,99.999%,2% HCl		X100019-2-A	100mL	
		X100019-2-B	250mL	
		X100019-2-C	500mL	
Gallium Metal (Ga) 99.999%		XGA-M-A	5g	
		XGA-M-B	20g	
Gallium Oxide (Ga2O3) 99.999%		XGA-O-A	5g	
		XGA-O-B	20g	
Gallocyanin/C.I.#51030		BS-96	1g	**1562-85-2**
Gallotox™		PS-14	1g	**62-38-4**
Galtak™		PS-2193	250mg	**25059-80-7**
gamma-Cyhalothrin		PS-2363	100mg	**76703-62-3**
Gammexane		PS-71	500mg	**58-89-9**
Gantrez AN-139		4897K	1g	**R**
Gardona™		PS-611	250mg	**22248-79-9**
Gardoprim™		PS-413	50mg	**5915-41-3**
Garlon™		PS-417	500mg	**55335-06-3**
Garrathion™		PS-88	1g	**786-19-6**
Gatnon™	100ug/mL in Methylene chloride	PS-1201	5mL	**1929-88-0**
Gaucho™		PS-2086	500mg	**138261-41-3**
Gazelle™		PS-1063	250mg	**55285-14-8**
Gebotox™		PS-436	1g	**6420-47-9**

Category Name	Specification	Catalog#	Size	CAS#
Gemini™		PS-1214	5mL	**67564-91-4**
Geniphene™		PS-79	250mg	**8001-35-2**
Genite™		PS-856	250mg	**97-16-5**
Genitol™		PS-856	250mg	**97-16-5**
Genitox™		PS-74	250mg	**8017-34-3**
Gentian violet/C.I.#42555		BS-53	1g	**548-62-9**
GenTrol™		PS-2134	50mg	**65733-18-8**
Geosmin Solution (S.G.)	100ug/mL in Methanol	F2912JS	1mL	
Germanium powder		I-7010	100mg	**7440-56-4**
Germanium (NH4)2GeF5 (S.G.)		X100020-1-A	100mL	
Germanium - 15% Oxalic		X10M 20-5-100	100mL	
		X10M 20-5-250	250mL	
		X10M 20-5-500	500mL	
Germanium - Ge metal, 99.999%, 5% Oxalic Acid		X100020-5-A	100mL	
		X100020-5-B	250mL	
		X100020-5-C	500mL	
Germanium diiodide		I-3195	100mg	**13573-08-5**
Germanium Oxide (GeO2) 99.999%		XGE-O-A	2g	
		XGE-O-B	10g	
Germanium Powder (Ge) 99.999%		XGE-MP-A	2g	
		XGE-MP-B	10g	
Germanium tetraiodide		I-3210	500mg	**13450-95-8**
Gesagard™		PS-384	1g	**7287-19-6**
Gesamil™		PS-385	500mg	**139-40-2**
Gesapax™		PS-383	500mg	**834-12-8**
Gesaprim™		PS-380	250mg	**1912-24-9**
Gesapun		PS-58	500mg	**122-34-9**
Gesaran™		PS-2122	100mg	**841-06-5**
Gesarol™		PS-74	250mg	**8017-34-3**
Gesatamin		PS-395	250mg	**1610-17-9**
Gesatop™		PS-58	500mg	**122-34-9**
Gexane		PS-71	500mg	**58-89-9**
Gibberellic acid		PS-49	100mg	**77-06-5**
	100ug/mL in Acetonitrile	PS-49AJS	1mL	
	100ug/mL in MTBE	PS-49JS	1mL	
Gibberellin X		PS-49	100mg	**77-06-5**
Girard Reagent T		2748E	5g	**123-46-6**
Glaecron™		PS-840	250mg	**6164-98-3**
Glean™		PS-1065	100mg	**64902-72-3**
Gluconic acid (in water) (S.G.)		0-48	10g	**526-95-4**
Gluconic-D-lactone (S.G.)		0-830	1g	**90-80-2**
		0-830	5g	**90-80-2**
D-Glucosamine hydrochloride		CARB-42	5g	**66-84-2**
Glucosaminic acid		1672L	10mg	**3646-68-2**
D-Glucose		CARB-8	5g	**50-99-7**
D-Glucose (S.G.)		0-935	5g	**50-99-7**
		0-935	10g	**50-99-7**
D-b-Glucose pentaacetate		1858L	1g	**604-69-3**
b-D-Glucose pentaacetate		2986L	100mg	
D-a-Glucose pentaacetate (S.G.)		0-505	500mg	**3891-59-6**
		0-505	5g	**3891-59-6**
d-Glucuronalactone		4909H	1g	**32449-92-6**
Glucuronic acid		4912F	1g	**6556-12-3**
D-(+)-Glucurono-6,3-lactone		4909H	1g	**32449-92-6**
Glufosinate-ammonium		PS-2124	250mg	**77182-82-2**
	100ug/mL in Water	PS-2124AJS	1mL	
L-(+)-Glutamic acid (R.G.)		AA-9	1g	**56-86-0**
		AA-9	5g	**56-86-0**
L-(+)-Glutamic acid (S.G.)		0-74	2g	**56-86-0**
		0-74	10g	**56-86-0**
D-Glutamic acid hydrochloride		4910B	10g	**138-15-8**
L-Glutamic acid 5-methyl ester		4900K	100mg	**1499-55-4**
L-(+)-Glutamine		4981H	1g	**56-85-9**
Glutaraldehyde (in water) (S.G.)		F2400	5g	**111-30-8**
Glutaraldehyde (DNPH Derivative) (S.G.)		F2946	50mg	**5085-07-4**
Glutaraldehyde sodium dibisulfite		1819L	1g	**28959-35-5**
2-keto-Glutaric acid		5480F	1g	**328-50-7**
Glutaric acid (S.G.)		0-65	1g	**110-94-1**
		0-65	5g	**110-94-1**
Glutaric acid based monomeric diester (TECH)		Pz-565	10g	**R**
Glutaric acid based monomeric ester (TECH)		Pz-560	10g	**R**
Glutaric anhydride		4920	10g	**108-55-4**
Glutarimide		4910K	100mg	**1121-89-7**
Glutaronitrile		4925B	5g	**544-13-8**

Category Name	Specification	Catalog#	Size	CAS#
Glutathione		4955	100mg	**70-18-8**
Glycel™		PS-2185	250mg	**38641-94-0**
		PS-2185	1g	**38641-94-0**
Glycerol (S.G.)		O-195	10g	**56-81-5**
10% Glycerol - 1% Lanthanum in 1% HCl		XPC-GLY-LA-A	250mL	
		XPC-GLY-LA-B	500mL	
50% Glycerol, purified		XPC-GLY-A	250mL	
		XPC-GLY-B	500mL	
Glycerol dichlorohydrin		O-184	2g	**96-23-1**
Glycerol dilaurate (TECH)		S-231	10g	**539-93-5**
Glycerol dioleate (TECH)		S-236	10g	**25637-84-7**
Glycerol distearate (TECH)		S-234	10g	**1323-83-7**
Glycerol monacetate		O-460	5g	**26446-35-5**
Glycerol mono/dicocoate (TECH)		S-230-1	10g	**R**
Glycerol monobutyrate		O-461	500mg	**557-25-5**
Glycerol monocaprylate (TECH)		S-228	10g	**R**
Glycerol monohydroxystearate (TECH)		S-240	10g	**R**
Glycerol monoisostearate (TECH)		S-238	10g	**R**
Glycerol monolaurate (TECH)		S-229	10g	**142-18-7**
Glycerol monooleate (TECH)		S-235	10g	**25496-72-4**
Glycerol monoricinoleate (TECH)		S-239	10g	**1323-38-2**
Glycerol monostearate (TECH)		S-232	10g	**31566-31-1**
Glycerol trichlorohydrin		O-654	2g	**96-18-4**
Glycerol trioctadeconate		O-499	5g	**555-43-1**
Glycerol trioleate (TECH)		S-237	10g	**122-32-7**
Glycerol tripropanoate		O-51	2g	**50-21-5**
Glyceryl antimonite		4945F	200mg	**R**
Glyceryl diacetate (TECH)		Pz-104	10g	**25395-31-7**
Glyceryl monooleate (TECH)		Pz-850	10g	**111-03-5**
Glyceryl monoricinoleate (TECH)		Pz-855	10g	**1323-38-2**
Glyceryl monostearate (S.G.)		O-458	5g	**31566-31-1**
		O-458	10g	**31566-31-1**
Glyceryl monostearate (TECH)		Pz-860	10g	**31566-31-1**
Glyceryl octadecanoate		O-458	5g	**31566-31-1**
Glyceryl triacetate (TECH)		Pz-105	10g	**102-76-1**
Glyceryl tri[acetylricinoleate] (TECH)		Pz-870	10g	**R**
Glyceryl triacetylstearate (TECH)		Pz-875	10g	**R**
Glyceryl tributyrate (TECH)		Pz-106	10g	**60-01-5**
Glyceryl tributyrate		O-500	5g	**60-01-5**
Glyceryl tri[9-epoxy-12-acetoxystearate] (TECH)		Pz-930	10g	**R**
Glyceryl trioleate (TECH)		Pz-880	10g	**122-32-7**
Glyceryl tripropionate (TECH)		Pz-885	10g	**R**
Glycinamide hydrochloride		4930K	100mg	**1668-10-6**
Glycine (TECH)		AA-10	1g	**56-40-6**
		AA-10	5g	**56-40-6**
Glycine (S.G.)		O-37	5g	**56-40-6**
		O-37	10g	**56-40-6**
Glycine anhydride		4950	10g	**106-57-0**
Glycine benzyl ester 4-tosylate		1669L	1g	**1738-76-7**
Glycine ethyl ester hydrochloride (S.G.)		O-462	2g	**623-33-6**
		O-462	10g	**623-33-6**
Glycinonitrilehydrochloride		1600K	1g	**6011-14-9**
Glycodeoxycholic acid		1663L	100mg	**R**
Glycogen		CARB-35	500mg	**9005-79-2**
Glycolaldehyde diethyl acetal		4950K	10mg	**R**
Glycoldimercaptoacetate		4970	10g	**123-81-9**
Glycolic acid (S.G.)		O-49	500mg	**79-14-1**
		O-49	5g	**79-14-1**
Glycolic acid calcium salt		4955B	5g	**996-23-6**
Glycolic acid sodium salt (R.G.)		4978F	5g	**2836-32-0**
Glycophene		PS-1052	100mg	**36734-19-7**
Glycyl-L-leucine		1660L	100mg	**869-19-2**
b-Glycyrrnetinic acid		4980F	1g	**471-53-4**
Glyodin		PS-261	1g	**556-22-9**
	100ug/mL in Methanol	PS-261JS	1mL	
Glyoxal (S.G.)		O-230	10g	**107-22-2**
Glyoxal sodium bisulfite		5005	5g	**517-21-5**
Glyoxide™		PS-261	1g	**556-22-9**
Glyoxime		PS-412	1g	**557-30-2**
Glyphosate Solution (S.G.)	100ug/mL in De-ionized water	F1104JS	1mL	
	100ug/mL in De-ionized water	F1104S	5mL	
Glyphosate		PS-1051	1g	**1071-83-6**

Category Name	Specification	Catalog#	Size	CAS#
Glyphosate (2-13C, 15N)	115ug/mL in De-ionized water	FCN1104S	1.2mL	
Glyphosate isopropylamine salt		PS-2185	250mg	**38641-94-0**
		PS-2185	1g	**38641-94-0**
	100ug/mL in Water	PS-2185AJS	1mL	
	100ug/mL in Toluene	PS-2185JS	1mL	
Glyphosine		PS-2164	100mg	**2439-99-8**
	100ug/mL in Water	PS-2164AJS	1mL	
	100ug/mL in Toluene	PS-2164JS	1mL	
Glytac™		PS-328	1g	**2514-53-6**
Goal 2EC		PS-1033	250mg	**42874-03-3**
Gokilaht™		PS-2198	100mg	**39515-40-7**
Gold - 10% HCl		X10M 21-2-100	100mL	
		X10M 21-2-250	250mL	
		X10M 21-2-500	500mL	
Gold - Au metal, 99.99%, 2% HCl		X100021-2-A	100mL	
		X100021-2-B	250mL	
		X100021-2-C	500mL	
Gold at 1ug/mL in NaCN		XAU-CN-1-A	100mL	
		XAU-CN-1-B	250mL	
		XAU-CN-1-C	500mL	
Gold at 5ug/mL in NaCN		XAU-CN-5-A	100mL	
		XAU-CN-5-B	250mL	
		XAU-CN-5-C	500mL	
Gold at 10ug/mL in NaCN		XAU-CN-10-A	100mL	
		XAU-CN-10-B	250mL	
		XAU-CN-10-C	500mL	
Gold at 50ug/mL in NaCN		XAU-CN-50-A	100mL	
		XAU-CN-50-B	250mL	
		XAU-CN-50-C	500mL	
Gold at 100ug/mL in NaCN		XAU-CN-100-A	100mL	
		XAU-CN-100-B	250mL	
		XAU-CN-100-C	500mL	
Gold chloride solution		I-3220	10g	**13453-07-1**
Gold Powder (Au) 99.999%		XAU-MP-A	1g	
		XAU-MP-B	5g	
Goltix™		PS-2117	250mg	**41394-05-2**
Govern™		PS-2072	100mg	**114369-43-6**
Graminon™		PS-2000	100mg	**34123-59-6**
Gramoxone™		PS-366	500mg	**1910-42-5**
Graphite powder		I-3230	10g	**7782-42-5**
Grasip™		PS-1200	5mL	**66003-55-2**
Grasipan™		PS-1200	5mL	**66003-55-2**
Grasp™		PS-2135	500mg	**87820-88-0**
GS 14260		PS-379	1g	**886-50-0**
Guaiac		4980K	1g	**9000-29-7**
Guaiacol		4975B	10g	**90-05-1**
Guaiacol (ring-13C6) (S.G.)		FC7004-1	1g	**R**
Guaiazulene (S.G.)		F1031	1g	**489-84-9**
	100ug/mL in Toluene	F1031JS	1mL	
	100ug/mL in Toluene	F1031S	5mL	
Guaiene (S.G.)		O-2103	1g	**88-84-6**
		O-2103	5g	**88-84-6**
p-Guanidine benzoic acid		1666L	100mg	**R**
Guanidine carbonate		4980	10g	**3425-08-9**
Guanidine hydrochloride (S.G.)		O-600	2g	**50-01-1**
		O-600	5g	**50-01-1**
Guanidine nitrate		5010E	10g	**506-93-4**
Guanidine sulfate		5000	10g	**594-14-9**
Guanidinium monoethyl-phenylphenol monosulfonate (TECH)		S-453	10g	**R**
2-Guanidinobenzimidazole		1834L	1g	**5418-95-1**
Guanine		4975K	500mg	**73-40-5**
Guanine hydrochloride		1849L	100mg	**635-39-2**
Guanylic acid sodium salt		5009F	1g	**5550-12-9**
Guanylurea sulfate		1840L	1g	**591-01-5**
Guesarol™		PS-74	250mg	**8017-34-3**
Gum arabic (powder)		4994H	1g	**9000-01-5**
Gum tragacanth (powder)		4995H	1g	**9000-65-1**
Gusathion A™		PS-673	100mg	**2642-71-9**
Gusathion M™		PS-666	250mg	**86-50-0**
Guthion™ (S.G.)		F2055	250mg	**86-50-0**
	100ug/mL in Toluene	F2055JS	1mL	
	100ug/mL in Toluene	F2055S	5mL	
	100ug/mL in Acetonitrile	PS-666AJS	1mL	
Guthion Ethyl (S.G.)		F2421	100mg	**2642-71-9**
	1000ug/mL in Hexane	F2421JS	1mL	
	1000ug/mL in Hexane	F2421S	5mL	
Guthion Ethyl		PS-673	100mg	**2642-71-9**
	100ug/mL in Acetonitrile	PS-673AJS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Gybon™		PS-381	50mg	**1014-70-6**
Hafnium - 4% HNO3 + 2% HF		X10M 22-3-100	100mL	
		X10M 22-3-250	250mL	
		X10M 22-3-500	500mL	
Hafnium - Hf metal, 99.9%, 2% HNO3 + 0.5% HF		X100022-3-A	100mL	
		X100022-3-B	250mL	
		X100022-3-C	500mL	
Hafnium carbide		I-3240	5g	**12069-85-1**
Hafnium Chips (Hf) 99.9+%		XHF-MP-A	5g	
		XHF-MP-B	20g	
Hafnium oxide		I-3250	1g	**12055-23-1**
Hafnium Oxide (HfO2) 99.999%		XHF-O-A	1g	
		XHF-O-B	5g	
Hafnium tetrachloride		I-3260	500mg	**13499-05-3**
Halofenozide		PS-2146	500mg	**112226-61-6**
	100ug/mL in Methanol	PS-2146JS	1mL	
Halosulfuron-methyl		PS-2108	100mg	**100784-20-1**
	100ug/mL in Acetonitrile	PS-2108AJS	1mL	
	100ug/mL in Toluene	PS-2108JS	1mL	
Haloxyfop (free acid)		PS-2310	10mg	**69806-34-4**
Haloxyfop-methyl		PS-2311	POR	**69806-40-2**
Haloxyfop-P (free acid)		PS-2310-P	50mg	**95977-29-0**
Haloxyfop-P methyl		PS-2311-P	50mg	**72619-32-0**
Harness Plus™		PS-2040	100mg	**34256-82-1**
Harvade™		PS-2052	1g	**55290-64-7**
Harvest™		PS-2124	250mg	**77182-82-2**
HCA		PS-272	1g	**116-16-5**
HCB™		PS-690	250mg	**118-74-1**
HCH™		PS-71	500mg	**58-89-9**
alpha-HCH		PS-692	100mg	**319-84-6**
beta-HCH		PS-691	100mg	**319-85-7**
delta-HCH		PS-693	100mg	**319-86-8**
HCH (epsilon isomer)	100ug/mL in Toluene	PS-2222	1mL	**6108-10-7**
gamma-HCH		PS-71	500mg	**58-89-9**
2% HCl (Acid Reagent Blank)		XRB HCl-2	500mL	
5% HCl (Acid Reagent Blank)		XRB HCl-5	500mL	
Hecogenin		1915L	25mg	**467-55-0**
Hedonal MCPP™		PS-324	100mg	**7085-19-0**
Helothion™		PS-1018	100mg	**35400-43-2**
Hematoxylin/C.I.#75290		BS-94	1g	**517-28-2**
Hemin		5006F	100mg	**16009-13-5**
Hemoglobin powder		5010B	10g	**9008-02-0**
n-Heneicosane (S.G.)		O-2108	500mg	**629-94-7**
		O-2108	1g	**629-94-7**
n-Heneicosanoic acid (C21) (S.G.)		O-2328	100mg	**2363-71-5**
HEOD		PS-76	250mg	**60-57-1**
Heptachlor		PS-78	100mg	**76-44-8**
Heptachlor (S.G.)		F100	100mg	**76-44-8**
	100ug/mL in Methanol	F100JS	1mL	
	100ug/mL in Methanol	F100S	5mL	
Heptachlor (13C10) Solution (S.G.)	100ug/mL in n-Nonane	FC100S	1.2mL	
trans-Heptachlor epoxide		PS-700-1	50mg	**28044-83-9**
	100ug/mL in Methanol	PS-700-1JS	1mL	
Heptachlor epoxide (Isomer B) (S.G.)		F101	50mg	**1024-57-3**
	100ug/mL in Methanol	F101JS	1mL	
	100ug/mL in Methanol	F101S	5mL	
Heptachlor epoxide (Isomer B)		PS-700	50mg	**1024-57-3**
Heptachlor epoxide (Isomer B) (13C1)	100ug/mL in n-Nonane	FC101S	1.2mL	
2,2′,3,3′,4,4′,5-Heptachlorobiphenyl (S.G.)		9043G	5mg	**35065-30-6**
	100ug/mL in Hexane	9043GS	2mL	
2,2′,3,3′,4,4′,6-Heptachlorobiphenyl (S.G.)		5000G	5mg	**52663-71-5**
	100ug/mL in Hexane	5000GS	2mL	
2,2′,3,3′,4,5,6-Heptachlorobiphenyl (S.G.)		9075G	5mg	**68194-16-1**
	100ug/mL in Hexane	9075GS	2mL	
2,2′,3,4,4′,5,5′-Heptachlorobiphenyl (S.G.)		9044G	5mg	**35065-29-3**
	100ug/mL in Hexane	9044GS	2mL	
2,2′,3,4,4′,5,6-Heptachlorobiphenyl (S.G.)		5003G	5mg	**74472-47-2**
	100ug/mL in Hexane	5003GS	2mL	
2,2′,3,4,4′,5,6′-Heptachlorobiphenyl (S.G.)		9076G	5mg	**60145-23-5**
	100ug/mL in Hexane	9076GS	2mL	
2,2′,3,4,4′,5′,6-Heptachlorobiphenyl (S.G.)		5001G	5mg	**52663-69-1**
	100ug/mL in Hexane	5001GS	2mL	
2,2′,3,4,4′,6,6′-Heptachlorobiphenyl (S.G.)		9077G	5mg	**74472-48-3**
	100ug/mL in Hexane	9077GS	2mL	
2,2,3,4,5,5′,6-Heptachlorobiphenyl (S.G.)		5002G	5mg	**52712-05-7**
	100ug/mL in Hexane	5002GS	2mL	
2,2′,3,4,5,6,6′-Heptachlorobiphenyl (S.G.)		9045G	5mg	**74472-49-4**
	100ug/mL in Hexane	9045GS	2mL	

Category Name	Specification	Catalog#	Size	CAS#
2,2′,3,4′,5,5′,6-Heptachlorobiphenyl (S.G.)		9046G	5mg	**52663-68-0**
	100ug/mL in Hexane	9046GS	2mL	
2,2′,3,4′,5,6,6′-Heptachlorobiphenyl (S.G.)		9047G	5mg	**74487-85-7**
	100ug/mL in Hexane	9047GS	2mL	
2,3,3′,4,4′,5,5′-Heptachlorobiphenyl (S.G.)		9048G	5mg	**39635-31-9**
	100ug/mL in Hexane	9048GS	2mL	
2,3,3′,4,4′,5,6-Heptachlorobiphenyl (S.G.)		9049G	5mg	**41411-64-7**
	100ug/mL in Hexane	9049GS	2mL	
2,3,3′,4,4′,5′,6-Heptachlorobiphenyl (S.G.)		9078G	5mg	**74472-50-7**
	100ug/mL in Hexane	9078GS	2mL	
2,3,3′,4,5,5′,6-Heptachlorobiphenyl (S.G.)		9079G	5mg	**74472-51-8**
	100ug/mL in Hexane	9079GS	2mL	
2,3,3′,4′,5,5′,6-Heptachlorobiphenyl (S.G.)		9080G	5mg	**69782-91-8**
	100ug/mL in Hexane	9080GS	2mL	
Heptachloro-2,2-dimethyl-3-methylenenorbornane		PS-2023	100mg	**8001-50-1**
1.4.5.6.7.8.8-Heptachloro-2.3-epoxy-3a.4.7.7a-tetrahydro-4.7-methanoindan		PS-700	50mg	**1024-57-3**
1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoinde		PS-78	100mg	**76-44-8**
n-Heptadecane (S.G.)		O-2110	500mg	**629-78-7**
		O-2110	1g	**629-78-7**
n-Heptadecane (d36) (S.G.)		O-D2110-5	5g	**R**
Heptadecanoic acid (C17) (S.G.)		O-2325	500mg	**506-12-7**
9-Heptadecanone (S.G.)		O-2109	100mg	**540-08-9**
		O-2109	500mg	**540-08-9**
2-Heptadecyl-2-imidazoline acetate		PS-261	1g	**556-22-9**
1,5-Heptadiene (S.G.)		O-2111	100mg	**1541-23-7**
1,6-Heptadiene (S.G.)		O-2112	100mg	**3070-53-9**
1,6-Heptadiyne (S.G.)		O-2114	100mg	**2396-63-6**
		O-2114	500mg	**2396-63-6**
Heptafluorobutyric anhydride		5012E	1g	**336-59-4**
Heptaldehyde (S.G.)		F2329	5g	**111-71-7**
	1000ug/mL in Acetonitrile	F2329JS	1mL	
	1000ug/mL in Acetonitrile	F2329S	5mL	
Heptaldehyde (S.G.)		O-231	5g	**111-71-7**
Heptaldehyde (DNPH Derivative) (S.G.)		F2348	100mg	**R**
	100ug/mL in Acetonitrile	F2348AJS	1mL	
	100ug/mL in Acetonitrile	F2348AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2348JS	1mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2348S	5mL	
Heptamethylene diammonium terephthalate (R.G.)		N-100	1g	**R**
Heptanal		O-231	5g	**111-71-7**
n-Heptane (S.G.)		F2184	5g	**142-82-5**
	100ug/mL in Methanol	F2184JS	1mL	
	100ug/mL in Methanol	F2184S	5mL	
n-Heptane (S.G.)		O-733	5g	**142-82-5**
n-Heptane-d16 (S.G.)		F2544	100mg	**33838-52-7**
1,7-Heptanediol		5005F	1g	**629-30-1**
Heptanenitrile		5003F	100mg	**R**
1-Heptanesulfonic acid sodium salt		1681L	100mg	**22767-50-6**
Heptanoic acid (S.G.)		O-17	2g	**111-14-8**
		O-17	10g	**111-14-8**
1-Heptanol		O-154	2g	**111-70-6**
2-Heptanol (S.G.)		O-2115	1g	**543-49-7**
		O-2115	5g	**543-49-7**
4-Heptanol		5022H	1g	**589-55-9**
2-Heptanone (S.G.)		F2407	2g	**110-43-0**
	1000ug/mL in Methanol:Water(90:10)	F2407JS	1mL	
	1000ug/mL in Methanol:Water (90:10)	F2407S	5mL	
2-Heptanone (S.G.)		O-804	2g	**110-43-0**
3-Heptanone (S.G.)		F2408	2g	**106-35-4**
	1000ug/mL in Methanol:Water (90:10)	F2408JS	1mL	
	1000ug/mL in Methanol:Water (90:10)	F2408S	5mL	
3-Heptanone (S.G.)		O-805	2g	**106-35-4**
4-Heptanone (S.G.)		O-806	2g	**123-19-3**
		O-806	5g	**123-19-3**
1-Heptene (S.G.)		O-2116	1g	**592-76-7**
		O-2116	5g	**592-76-7**
2-Heptene (S.G.)		O-751	500mg	**592-77-8**
		O-751	1g	**592-77-8**
trans-2-Heptene (S.G.)		O-2117	250mg	**14686-13-6**
3-Heptene (S.G.)		O-2104	5g	**592-78-9**
trans-3-Heptene (S.G.)		O-2118	1g	**14686-14-7**
		O-2118	5g	**14686-14-7**
Heptenofos		PS-2225	100mg	**23560-59-0**
Heptenophos		PS-2225	100mg	**23560-59-0**
	100ug/mL in Acetonitrile	PS-2225AJS	1mL	
	100ug/mL in Toluene	PS-2225JS	1mL	
Heptyl alcohol (S.G.)		O-154	2g	**111-70-6**
n-Heptylamine (S.G.)		O-2105	1g	**111-68-2**
		O-2105	5g	**111-68-2**
n-Heptyl chloride		3015	5g	**629-06-1**

Category Name	Specification	Catalog#	Size	CAS#
n-Heptyl mercaptan (S.G.)		0-2124	1g	**1639-09-4**
Herban™		PS-2151	500mg	**100646-51-3**
Herbisan™		PS-66	250mg	**502-55-6**
Herbisan 5™		PS-66	250mg	**502-55-6**
Heritage™		PS-2141	250mg	**131860-33-8**
Herkol™		PS-89	250mg	**62-73-7**
Heteroauxin		PS-320	250mg	**87-51-4**
HETP		PS-601	500mg	**107-49-3**
Hexabromobenzene (S.G.)		F840	500mg	**87-82-1**
	2000ug/mL in Toluene	F840JS	1mL	
	2000ug/mL in Toluene	F840S	5mL	
Hexabromobiphenyl (S.G.)		0-2106	500mg	**59536-65-1**
		0-2106	1g	**59536-65-1**
2,2′,4,4′,5,5′-Hexabromobiphenyl (S.G.)	100ug/mL in Hexane	5008GS	2mL	
2,2′,4,4′,6,6′-Hexabromobiphenyl (S.G.)		6751G	5mg	**R**
	100ug/mL in Hexane	6751GS	2mL	
Hexabromobutene		5018B	10g	**R**
1,2,3,4,5,6-Hexabromocyclohexane		5020F	1g	**1837-91-8**
Hexachloroacetone		PS-272	1g	**116-16-5**
	100ug/mL in Acetonitrile	PS-272AJS	1mL	
	100ug/mL in Hexane	PS-272JS	1mL	
Hexachlorobenzene (S.G.)		F9	250mg	**118-74-1**
	1000ug/mL in Isooctane	F9AJS	1mL	
	1000ug/mL in Isooctane	F9AS	5mL	
	100ug/mL in Methanol	F9JS	1mL	
	100ug/mL in Methanol	F9S	5mL	
Hexachlorobenzene (S.G.)		0-685	250mg	**118-74-1**
Hexachlorobenzene		PS-690	250mg	**118-74-1**
Hexachlorobenzene (13C6) (S.G.)		FC9-E	0.01g	**R**
	100ug/mL in n-Nonane	FC9S	1.2mL	
2,2′,3,3′,4,4′-Hexachlorobiphenyl (S.G.)		5010G	20mg	**38380-07-3**
	100ug/mL in Hexane	5010GS	2mL	
2,2′,3,3′,4,5-Hexachlorobiphenyl (S.G.)		5011G	5mg	**55215-18-4**
	100ug/mL in Hexane	5011GS	2mL	
2,2′,3,3′,4,6-Hexachlorobiphenyl (S.G.)		9059G	5mg	**61798-70-7**
	100ug/mL in Hexane	9059GS	2mL	
2,2′,3,3′,4,6′-Hexachlorobiphenyl (S.G.)		9060G	5mg	**38380-05-1**
	100ug/mL in Hexane	9060GS	2mL	
2,2′,3,3′,5,5′-Hexachlorobiphenyl (S.G.)		9037G	5mg	**35694-04-3**
	100ug/mL in Hexane	9037GS	2mL	
2,2′,3,3′,5,6-Hexachlorobiphenyl (S.G.)		9061G	5mg	**52704-70-8**
	100ug/mL in Hexane	9061GS	2mL	
2,2′,3,3′,6,6′-Hexachlorobiphenyl (S.G.)		5012G	20mg	**38411-22-2**
	100ug/mL in Hexane	F2248S	2mL	
2,2′,3,4,4′,5-Hexachlorobiphenyl (S.G.)		5013G	5mg	**35694-06-5**
	100ug/mL in Hexane	5013GS	2mL	
2,2′,3,4,4′,5′-Hexachlorobiphenyl (S.G.)		5014G	5mg	**35065-28-2**
	100ug/mL in Hexane	5014GS	2mL	
2,2′,3,4,4′,6-Hexachlorobiphenyl (S.G.)		5018G	5mg	**56030-56-9**
	100ug/mL in Hexane	5018GS	2mL	
2,2′,3,4,4′,6′-Hexachlorobiphenyl (S.G.)		9062G	5mg	**59291-64-4**
	100ug/mL in Hexane	9062GS	2mL	
2,2′,3,4,5,5′-Hexachlorobiphenyl (S.G.)		5015G	5mg	**52712-04-6**
	100ug/mL in Hexane	5015GS	2mL	
2,2′,3,4,5,6-Hexachlorobiphenyl (S.G.)		9063G	5mg	**41411-61-4**
	100ug/mL in Hexane	9063GS	2mL	
2,2′,3,4,5,6′-Hexachlorobiphenyl (S.G.)		5016G	5mg	**68194-15-0**
	100ug/mL in Hexane	5016GS	2mL	
2,2′,3,4,5′,6-Hexachlorobiphenyl (S.G.)		9064G	5mg	**68194-14-9**
	100ug/mL in Hexane	9064GS	2mL	
2,2′,3,4,6,6′-Hexachlorobiphenyl (S.G.)		9065G	5mg	**74472-40-5**
	100ug/mL in Hexane	9065GS	2mL	
2,2′,3,4′,5,5′-Hexachlorobiphenyl (S.G.)		2846G	5mg	
2,2′,3,4′,5,6-Hexachlorobiphenyl (S.G.)		9066G	5mg	**68194-13-8**
	100ug/mL in Hexane	9066GS	2mL	
2,2′,3,4′,5′,6-Hexachlorobiphenyl (S.G.)		9067G	5mg	**38380-04-0**
	100ug/mL in Hexane	9067GS	2mL	
2,2′,3,5,5′,6-Hexachlorobiphenyl (S.G.)		5017G	5mg	**52663-63-5**
	100ug/mL in Hexane	5017GS	2mL	
2,2′,3,5,6,6′-Hexachlorobiphenyl (S.G.)		9068G	5mg	**68194-09-2**
	100ug/mL in Hexane	9068GS	2mL	
2,3′,4,4′,5′,6-Hexachlorobiphenyl (S.G.)		5019G	10mg	**35065-27-1**
	100ug/mL in Hexane	5019GS	2mL	
2,2′,4,4′,5,6′-Hexachlorobiphenyl (S.G.)		5020G	5mg	**60145-22-4**
	100ug/mL in Hexane	5020GS	2mL	
2,2′,4,4′,6,6′-Hexachlorobiphenyl (S.G.)		5021G	10mg	**33979-03-2**
	100ug/mL in Hexane	5021GS	2mL	
2,3,3′,4,4′,5-Hexachlorobiphenyl (S.G.)		5022G	5mg	**38380-08-4**
	100ug/mL in Hexane	5022GS	2mL	
2,3,3′,4,4′,5′-Hexachlorobiphenyl (S.G.)		9069G	5mg	**69782-90-7**
	100ug/mL in Hexane	9069GS	2mL	
2,3,3′,4,4′,6-Hexachlorobiphenyl (S.G.)		9038G	5mg	**74472-42-7**
	100ug/mL in Hexane	9038GS	2mL	
2,3,3′,4,5,5′-Hexachlorobiphenyl (S.G.)		9039G	5mg	**39635-35-3**
	100ug/mL in Hexane	9039GS	2mL	
2,3,3′,4,5,6-Hexachlorobiphenyl (S.G.)		9070G	5mg	**41411-62-5**
	100ug/mL in Hexane	9070GS	2mL	
2,3,3′,4,5′,6-Hexachlorobiphenyl (S.G.)		9071G	5mg	**74472-43-8**
	100ug/mL in Hexane	9071GS	2mL	
2,3,3′,4′,5,6-Hexachlorobiphenyl (S.G.)		9072G	5mg	**74472-44-9**
	100ug/mL in Hexane	9072GS	2mL	
2,3,3′,5,5′,6-Hexachlorobiphenyl (S.G.)		9073G	5mg	**74472-46-1**
	100ug/mL in Hexane	9073GS	2mL	
2,3,4,4′,5,6-Hexachlorobiphenyl (S.G.)		9040G	5mg	**41411-63-6**
	100ug/mL in Hexane	9040GS	2mL	
2,3′,4,4′,5,5′-Hexachlorobiphenyl (S.G.)		9041G	10mg	**52663-72-6**
	100ug/mL in Hexane	9041GS	2mL	
2,3′,4,4′,5′,6-Hexachlorobiphenyl (S.G.)		9074G	5mg	**59291-65-5**
	100ug/mL in Hexane	9074GS	2mL	
3,3′,4,4′,5,5′-Hexachlorobiphenyl (S.G.)		9042G	5mg	**32774-16-6**
	100ug/mL in Hexane	9042GS	2mL	
Hexachloro-1,3-butadiene (S.G.)		F52	5g	**87-68-3**
	100ug/mL in Methanol	F52JS	1mL	
	100ug/mL in Methanol	F52S	5mL	
Hexachloro-1,3-butadiene (S.G.)		0-662	10g	**87-68-3**
Hexachloro-1,3-butadiene (13C4) (S.G.)		CF52-E	0.01g	**R**
Hexachloro-2,4-cyclohexadienone		5200K	10mg	**R**
beta-Hexachlorocyclohexane		PS-691	100mg	**319-85-7**
alpha-Hexachlorocyclohexane		PS-692	100mg	**319-84-6**
1,2,3,4,5,6-Hexachlorocyclohexane		PS-70	250mg	**608-73-1**
delta-Hexachlorocyclohexane		PS-693	100mg	**319-86-8**
gamma-Hexachlorocyclohexane		PS-71	500mg	**58-89-9**
1,2,3,4,5,6-Hexachlorocyclohexane [a-isomer]		PS-692	100mg	**319-84-6**
1,2,3,4,5,6-Hexachlorocyclohexane [b-isomer]		PS-691	100mg	**319-85-7**
1,2,3,4,5,6-Hexachlorocyclohexane [d-isomer]		PS-693	100mg	**319-86-8**
1,2,3,4,5,6-Hexachlorocyclohexane (epsilon isomer)	100ug/mL in Toluene	PS-2222	1mL	**6108-10-7**
1,2,3,4,5,6-Hexachlorocyclohexane [g-isomer]		PS-71	500mg	**58-89-9**
Hexachlorocyclopentadiene (S.G.)		F53	1g	**77-47-4**
	100ug/mL in Methanol	F53JS	1mL	
	100ug/mL in Methanol	F53S	5mL	
Hexachlorocyclopentadiene (13C4) (S.G.)		FC53-10	10mg	**R**
		FC53-5	5mg	**R**
2.2a.3.3.4.7-Hexachlorodecahydro-1.2.4-metheno-cyclopenta(c.d)pentalene-5-carboxaldehyde		PS-77-1	10mg	**7421-93-4**
3b.4.5.6.6.6a-Hexachlorodecahydro-2.5.7-metheno-3H-cyclopenta(a)pentalene-3-one		PS-77-2	10mg	**53494-70-5**
Hexachlorodimethyl sulfone		PS-171	1g	**R**
	100ug/mL in Acetonitrile	PS-171AJS	1mL	
	100ug/mL in Toluene	PS-171JS	1mL	
1.2.3.4.10.10-Hexachloro-6.7-epoxy-1.4.4a.5.6.7.8.8a-octahydro-1.4-endo-endo-5.8-dimethanonaphthalene		PS-77	100mg	**72-20-8**
1.2.3.4.10.10-Hexachloro-6.7-epoxy-1.4.4a.5.6.7.8.8a-octahydro-endo-exo-1.4:5.8-dimethanonaphthalene		PS-76	250mg	**60-57-1**
Hexachloroethane (S.G.)		F12	5g	**67-72-1**
	100ug/mL in Methanol	F12JS	1mL	
	100ug/mL in Methanol	F12S	5mL	
Hexachloroethane (S.G.)		0-644	5g	**67-72-1**
		0-644	10g	**67-72-1**
Hexachloroethane (1-13C) (S.G.)		FC12-A	0.1g	**R**
		FC12-B	0.5g	**R**
1,4,5,6,7,7-Hexachloro-N-(ethylmercuri)-5-norbornene-2,3-dicarboximide		PS-13	1g	**R**
		PS-13AJS	1mL	
		PS-13JS	1mL	
1.2.3.4.10.10-Hexachloro-1.4.4a.5.8.8a.-hexahydro-endo-exo-1.4:5.8-dimethanonaphthalene		PS-69	250mg	**309-00-2**
1.2.3.4.10.10-Hexachloro-1.4.4a.5.8.8a-hexahydro-1.4-endo-exo-5.8-dimethylnaphthalene		PS-69	250mg	**309-00-2**
6.7.8.9.10.10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzo-dioxathiepin-3-oxide		PS-81	500mg	**115-29-7**
6.7.8.9.10.10-Hexachloro-1.5.5a.6.9.9a-hexahydro-6.9-methano-2.4.3-benzodioxathiepin-3-oxide, alpha isomer		PS-81-1	100mg	**959-98-8**
6.7.8.9.10.10-Hexachloro-1.5.5a.6.9.9a-hexahydro-6.9-methano-2.4.3-benzodioxathiepin-3-oxide, beta isomer		PS-81-2	100mg	**33213-65-9**
6.7.8.9.10.10-Hexachloro-1.5.5a.6.9.9a-hexahydro-6.9-methano-2.4.3-benzodioxathiepin-3.3-dioxide		PS-81-3	50mg	**1031-07-8**
1.4.5.6.7.7-Hexachloro-5-norbornene-2.3-dimethanol cyclic sulfite		PS-81	500mg	**115-29-7**
Hexachlorophene (S.G.)		F995	250mg	**70-30-4**
	100ug/mL in Methanol	F995JS	1mL	
	100ug/mL in Methanol	F995S	5mL	
Hexachlorophene		PS-1035	250mg	**70-30-4**
1,1,2,2,3,3-Hexachloropropane		5220K	1g	**15600-01-8**

Category Name	Specification	Catalog#	Size	CAS#
Hexachloro-2-propanone		PS-272	1g	**116-16-5**
Hexachloropropene (S.G.)		F920	1g	**1888-71-7**
	100ug/mL in Methanol	F920JS	1mL	
	100ug/mL in Methanol	F920S	5mL	
Hexaconazole		PS-2157	100mg	**79983-71-4**
	100ug/mL in Acetonitrile	PS-2157AJS	1mL	
	100ug/mL in Toluene	PS-2157JS	1mL	
n-Hexacosane (S.G.)		F2195	100mg	**630-01-3**
	100ug/mL in Methylene chloride	F2195JS	1mL	
	100ug/mL in Methylene chloride	F2195S	5mL	
n-Hexacosane (S.G.)		O-2120	100mg	**630-01-3**
		O-2120	500mg	**630-01-3**
n-Hexadecane (S.G.)		F2185	2g	**544-76-3**
	400ug/mL in Cyclohexane	F2185AJS	1mL	
	400ug/mL in Cyclohexane	F2185AS	5mL	
	100ug/mL in Methylene chloride	F2185JS	1mL	
	100ug/mL in Methylene chloride	F2185S	5mL	
n-Hexadecane (S.G.)		O-734	2g	**544-76-3**
		O-734	10g	**544-76-3**
n-Hexadecane (d34) (S.G.)		FD2185-5	5g	**R**
		FD2185-A	0.1g	**R**
Hexadecanoic acid		O-24	2g	**57-10-3**
1-Hexadecanol		O-146	2g	**36653-82-4**
1-Hexadecene (S.G.)		O-2107	1g	**629-73-2**
Hexadecyl cyclopropanecarboxylate		PS-2092	500mg	**54460-46-7**
Hexadecylamine (S.G.)		O-288	1g	**143-27-1**
n-Hexadecylamine (TECH)		S-491	10g	**143-27-1**
Hexadecylamine acetate (TECH)		S-539	10g	**R**
1-Hexadecylpyridinium chloride monohydrate (TECH)		S-629-1	10g	**6004-24-6**
Hexadecyl stearate		5033F	1g	**R**
Hexadecyltrimethyl ammonium bromide		5034F	10g	**57-09-0**
Hexadecyltrimethyl ammonium chloride (TECH)		S-606	10g	**112-02-7**
2,4-Hexadien-1-al		5041F	5g	**142-83-6**
1,3-Hexadiene (cis & trans) (S.G.)		O-2121	500mg	**592-48-3**
1,5-Hexadiene (S.G.)		O-2113	1g	**592-42-7**
trans-trans-2,4-Hexadiene (S.G.)		O-2123	100mg	**5194-51-4**
		O-2123	500mg	**5194-51-4**
2,4-Hexadienoic acid		O-26	2g	**110-44-1**
1,5-Hexadien-3-ol		5043F	1g	**924-41-4**
Hexaflumuron		PS-2074	250mg	**86479-06-3**
	100ug/mL in Acetonitrile	PS-2074AJS	1mL	
	100ug/mL in Toluene	PS-2074JS	1mL	
Hexafluoroacetylacetone		5050F	1g	**1522-22-1**
Hexafluoroisopropyl acrylate		5045A	5g	**R**
Hexafluoro-2-methyl-2-propanol (S.G.)		F2555	500mg	**1515-14-6**
	1000ug/mL in Methanol	F2555JS	1mL	
	1000ug/mL in Methanol	F2555S	5mL	
Hexafluoro-2-propanol (S.G.)		F2554	1g	**920-66-1**
	1000ug/mL in Methanol	F2554JS	1mL	
	1000ug/mL in Methanol	F2554S	5mL	
Hexahydro-4-methylphthalic acid		5050B	10g	**R**
1,2,3,6,7,8-Hexahydropyrene (S.G.)		F1032	100mg	**1732-13-4**
	100ug/mL in Toluene	F1032JS	1mL	
	100ug/mL in Toluene	F1032S	5mL	
Hexahydropyridine		O-293	1g	**110-89-4**
Hexahydroterephthalic acid		5051E	1g	**619-82-9**
Hexahydro-1,3,5-trinitro-1,3,5-triazine	1000ug/mL in Acetonitrile	F2471JS	1mL	
	1000ug/mL in Acetonitrile	F2471S	5mL	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (13C3) Solution (S.G.)	100ug/mL in n-Nonane	FC2471S	1.2mL	
Hexahydro-1,3,5-tris(hydroxyethyl)triazine		S-675	10g	**4719-04-4**
Hexakis-(2-methyl-2-phenylpropyl)-distannoxane		PS-1060	250mg	**13356-08-6**
Hexaldehyde (S.G.)		F2330	5g	**66-25-1**
	1000ug/mL in Acetonitrile	F2330JS	1mL	
	1000ug/mL in Acetonitrile	F2330S	5mL	
Hexaldehyde (S.G.)		O-2119	1g	**66-25-1**
		O-2119	5g	**66-25-1**
Hexaldehyde (DNPH Derivative) (S.G.)		F2349	100mg	**1527-97-5**
	100ug/mL in Acetonitrile	F2349AJS	1mL	
	100ug/mL in Acetonitrile	F2349AS	5mL	
	1000ug/mL in Methanol:Acetonitrile (80:20)	F2349S	5mL	
Hexamethonium bromide		3034L	1g	**55-97-0**
Hexamethylbenzene (R.G.)		5059F	1g	**87-85-4**
1,1,1,3,3,3-Hexamethyldisilazane		5045B	10g	**999-97-3**
Hexamethylene diammonium acetate (R.G.)		N-130	1g	**R**
Hexamethylene diammonium adipate (R.G.)		N-140	1g	**R**
Hexamethylene diammonium-4,4′-bibenzoate (R.G.)		N-150	1g	**R**

Category Name	Specification	Catalog#	Size	CAS#
Hexamethylene diammonium bisphenylene-1,4-acetate (R.G.)		N-160	1g	**R**
Hexamethylene diammonium sebacate (R.G.)		N-170	1g	**R**
Hexamethylene diammonium suberate (R.G.)		N-180	1g	**R**
Hexamethylene diammonium-p,p′-sulfonyl-dibenzoate (R.G.)		N-190	1g	**R**
Hexamethylene diammonium terephthalate (R.G.)		N-200	1g	**R**
Hexamethylene polyadipamide (R.G.)		N-110	1g	**R**
Hexamethylenetetramine (S.G.)		O-329	5g	**100-97-0**
		O-329	10g	**100-97-0**
Hexamethylphosphoric triamide (S.G.)		F2115	1g	**680-31-9**
	100ug/mL in Methanol	F2115JS	1mL	
	100ug/mL in Methanol	F2115S	5mL	
Hexamethylphosphoric triamide (TECH)		0u-96	3g	**680-31-9**
		0u-96	10g	**680-31-9**
Hexanal		O-2119	1g	**66-25-1**
n-Hexane (S.G.)		F2274	5g	**110-54-3**
	1000ug/mL in Methanol	F2274JS	1mL	
	1000ug/mL in Methanol	F2274S	5mL	
n-Hexane (S.G.)		O-735	5g	**110-54-3**
n-Hexane-d14 (S.G.)		F2545	100mg	**21666-38-6**
1,6-Hexanediamine (S.G.)		O-330	2g	**124-09-4**
		O-330	10g	**124-09-4**
1,6-Hexanediol (S.G.)		O-196	2g	**629-11-8**
		O-196	5g	**629-11-8**
2,5-Hexanediol		5115C	5g	**2935-44-6**
DL-1,2-Hexanediol		5240K	100mg	**6920-22-5**
2,5-Hexanedione (S.G.)		O-817	2g	**110-13-4**
		O-817	10g	**110-13-4**
1,6-Hexanedithiol		5116C	1g	**1191-43-1**
Hexane nitrile		5090F	1g	**628-73-9**
1-Hexanethiol (S.G.)		O-980	500mg	**111-31-9**
		O-980	5g	**111-31-9**
1,2,6-Hexanetriol (S.G.)		O-197	2g	**106-69-4**
Hexanoic acid (S.G.)		O-7	2g	**142-62-1**
Hexanoic acid (d11) (S.G.)		O-D7-1	1g	**R**
		O-D7-A	0.1g	**R**
		O-D7-A	0.1g	**R**
Hexanoic anhydride		5125B	10g	**2051-49-2**
1-Hexanol		O-155	10g	**111-27-3**
2-Hexanol (S.G.)		O-2126	1g	**626-93-7**
		O-2126	5g	**626-93-7**
3-Hexanol (S.G.)		O-2127	1g	**623-37-0**
		O-2127	5g	**623-37-0**
2-Hexanone (S.G.)		F708	2g	**591-78-6**
	100ug/mL in Methanol:Water (90:10)	F708JS	1mL	
	100ug/mL in Methanol:Water (90:10)	F708S	5mL	
3-Hexanone		5091H	100mg	**589-38-8**
Hexaoxacyclooctadecane (S.G.)		F2304	5g	**17455-13-9**
Hexaphenyl dilead		5096F	500mg	**3124-01-4**
n-Hexatriacontane (S.G.)		O-2128	1g	**630-06-8**
		O-2128	5g	**630-06-8**
n-Hexatriacontane (d74) (S.G.)		O-D2128-1	1g	**R**
Hexazinone		PS-416	250mg	**51235-04-2**
1-Hexene (S.G.)		O-752	5g	**592-41-6**
2-Hexene (S.G.)		O-753	100mg	**592-43-8**
trans-3-Hexene (S.G.)		O-2129	500mg	**13269-52-8**
5-Hexen-2-ol		5112F	1g	**R**
5-Hexen-2-one		5113F	1g	**109-49-9**
Hexide™		PS-1035	250mg	**70-30-4**
Hexyl acetate (S.G.)		O-419	5g	**142-92-7**
n-Hexyl acrylate		5142F	1g	**2499-95-8**
Hexyl alcohol (S.G.)		O-155	10g	**111-27-3**
Hexylamine (S.G.)		O-289	2g	**111-26-2**
n-Hexylbenzene		O-2253	1g	**1077-16-3**
n-Hexyl chloroformate		5152F	1g	**6092-54-2**
n-Hexyl decyl phthalate (S.G.)		Pt-34	10g	**25724-58-7**
n-Hexyl decyl phthalate (TECH)		Pz-480	10g	**25724-58-7**
Hexylene glycol		5880	10g	**107-41-5**
Hexyl ether (S.G.)		O-570	500mg	**112-58-3**
		O-570	10g	**112-58-3**
Hexyl 2-ethylhexyl phthalate (S.G.)		F2313	5g	**75673-16-4**
	1000ug/mL in Hexane	F2313JS	1mL	
	1000ug/mL in Hexane	F2313S	5mL	
Hexyl 2-ethylhexyl phthalate (S.G.)		Pt-35	10g	
Hexyl isodecyl phthalate (S.G.)		Pt-36	10g	**R**
Hexyl isodecyl phthalate (TECH)		Pz-485	10g	**R**
Hexyl isooctyl phthalate (TECH)		Pz-490	10g	**R**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
4-Hexylresorcinol		5126B	1g	136-77-6
2-Hexyne (S.G.)		O-2131	1g	764-35-2
		O-2131	5g	764-35-2
Hexythiazox		PS-1079	100mg	78587-05-0
	100ug/mL in Acetonitrile	PS-1079AJS	1mL	
HGI™		PS-71	500mg	58-89-9
High Purity D,I, 18 megohm water		XRB H2O	500mL	
Hilcyperin™		PS-2203	250mg	65731-84-2
Hinochloa™		PS-2140	250mg	73250-68-7
Hinosan™		PS-2066	100mg	17109-49-8
Hippuric acid (S.G.)		O-109	2g	495-69-2
		O-109	5g	495-69-2
Histamine dihydrochloride		5129B	1g	56-92-8
Histamine diphosphate		5156F	100mg	51-74-1
L-[+]-Histidine		5130	5g	71-00-1
L-(+)-Histidine monohydrochloride (TECH)		AA-11	1g	645-35-2
		AA-11	5g	645-35-2
HMPA		F2115	1g	680-31-9
HMX	1000ug/ml in Acetonitrile	F2481S	5mL	
2% HNO3 (Acid Reagent Blank)		XRB HNO3-2	500mL	
5% HNO3 (Acid Reagent Blank)		XRB HNO3-5	500mL	
Hoe-Grass™		PS-1036	250mg	51338-27-3
Hoelon™		PS-1036	250mg	51338-27-3
Holmium - 4% HNO3		X10M 23-1-100	100mL	
		X10M 23-1-250	250mL	
		X10M 23-1-500	500mL	
Holmium - 10% HCl		X10M 23-2-100	100mL	
		X10M 23-2-250	250mL	
		X10M 23-2-500	500mL	
Holmium - Ho2O3, 99.99%, 2% HCl		X100023-2-A	100mL	
		X100023-2-B	250mL	
		X100023-2-C	500mL	
Holmium - Ho2O3, 99.99%, 2% HNO3		X100023-1-A	100mL	
		X100023-1-B	250mL	
		X100023-1-C	500mL	
Holmium Oxide (Ho2O3) 99.99%		XHO-O-A	5g	
		XHO-O-B	25g	
Homatropine hydrobromide		1684L	1g	51-56-9
DL-Homocysteine thiolactone hydrochloride		1699L	1g	6038-19-3
DL-Homocystine		1912L	100mg	462-10-2
Homomenthyl salicylate		5162F	1g	52253-93-7
Homophthalic diacid (anhydride)		5135C	1g	89-51-0
Homoveratrylamine		3967H	1g	120-20-7
Hopcin™		PS-1046	250mg	3766-81-2
Hope™		PS-2184	250mg	52207-48-4
Horbadox™		PS-401	1g	40487-42-1
Hormodin		PS-48	100mg	133-32-4
Hostaquick™		PS-2225	100mg	23560-59-0
Hostathion™	100ug/mL in Toluene	PS-1213	5mL	24017-47-8
Hostathion™		PS-2139	100mg	24017-47-8
Hostavik™		PS-2225	100mg	23560-59-0
Hoxan™		PS-1036	250mg	51338-27-3
HSL volatile standard mixture	200ug/mL in Methanol:Water (90:10)	HSL-1M	5mL	
Hurler™		PS-2191	100mg	81406-37-3
Hydantoic acid		1678L	100mg	R
Hydantoin		5260K	100mg	461-72-3
5-Hydantoinacetic acid		5265K	10mg	5427-26-9
Hydracrylonitrile (S.G.)		O-849	5g	109-78-4
Hydram		PS-501	250mg	2212-67-1
Hydramethylnon		PS-1001	100mg	67485-29-4
Hydrazine carbothioamide		O-393	2g	79-19-6
Hydrazine carboxamide monohydrochloride		O-392	2g	563-41-7
Hydrazine dihydrochloride (S.G.)		O-726	2g	5341-61-7
		O-726	10g	5341-61-7
Hydrazine monohydrochloride		I-3270	10g	2644-70-4
Hydrazine sulfate		I-3280	10g	10034-93-2
4-Hydrazinobenzoic acid		5270K	100mg	619-67-0
2-Hydrazinobenzothiazole		5143B	1g	615-21-4
2-Hydrazinopyridine		5144E	1g	4930-98-7
2-Hydrazinopyridine dihydrochloride		5275K	10mg	62437-99-4
Hydrazobenzene		F37	100mg	122-66-7
Hydrindantin		5175F	1g	5103-42-4
Hydriodic acid		I-3290	10g	10034-85-2

Category Name	Specification	Catalog#	Size	CAS#
Hydroabietyl alcohol (TECH)		Pz-134	10g	26266-77-3
Hydrobenzamide		5179F	2g	R
Hydrobromic acid		I-3300	10g	10035-10-6
Hydrochloric acid (subboiling distilled acid)		XSB-HCl-1L	1L	
		XSB-HCl-500	500mL	
Hydrocinnamaldehyde (S.G.)		O-241	500mg	104-53-0
		O-241	10g	104-53-0
Hydrocinnamic acid (S.G.)		O-85	1g	501-52-0
		O-85	5g	501-52-0
Hydrocortisone acetate		5166S	1g	
Hydrocyclin™		PS-2200	250mg	2058-46-0
Hydrofluoric acid		I-3310	5g	7664-39-3
Hydrogenated castor oil (TECH)		S-26	10g	8001-78-3
Hydrogenated fish oil fatty acids (TECH)		S-21	10g	R
Hydrogenated tallow amine (TECH)		S-496	10g	R
Hydrogenated tallow amine acetate (TECH)		S-543	10g	R
Hydrogen peroxide (30%)		I-3320	10g	7722-84-1
S-Hydroprene		PS-2134	50mg	65733-18-8
	100ug/mL in Acetonitrile	PS-2134AJS	1mL	
	100ug/mL in Hexane	PS-2134JS	1mL	
Hydroquinone (S.G.)		F2116	5g	123-31-9
Hydroquinone (S.G.)		O-905	5g	123-31-9
		O-905	10g	123-31-9
Hydroquinone (ring-d6) (S.G.)		FD2116-1	1g	R
Hydroquinone monobenzyl ether (TECH)		Ou-10	3g	103-16-2
		Ou-10	10g	103-16-2
Hydroquinone monomethyl ether (TECH)		Ou-11	3g	150-76-5
		Ou-11	10g	150-76-5
Hydroquinonesulfonic acid sodium salt		5170	10g	R
3-Hydroxypropanenitrile		O-849	5g	109-78-4
a-Hydroxyacetamide		5280K	10mg	R
4'-Hydroxyacetanilide		1440K	1g	103-90-2
Hydroxyacetic acid		O-49	500mg	79-14-1
1-Hydroxy-2-acetonaphthone		5190	10g	711-79-5
Hydroxy acetone		1480K	1g	116-09-6
m-Hydroxyacetophenone		5189F	1g	121-71-1
o-Hydroxyacetophenone (S.G.)		O-223	2g	118-93-4
p-Hydroxyacetophenone (S.G.)		O-224	1g	99-93-4
		O-224	5g	99-93-4
2-Hydroxy-p-anisaldehyde		1825L	100mg	673-22-3
1-Hydroxyanthraquinone (S.G.)		O-931	500mg	129-43-1
3-Hydroxybenzaldehyde		5213F	10g	100-83-4
4-Hydroxybenzaldehyde (S.G.)		O-246	2g	123-08-0
		O-246	10g	123-08-0
o-Hydroxybenzaldehyde		O-247	2g	90-02-8
o-Hydroxybenzamide		O-269	5g	65-45-2
a-Hydroxybenzene acetic		O-106	2g	611-72-3
2-Hydroxybenzimidazole		5214J	100mg	615-16-7
2-Hydroxybenzoic acid		O-108	2g	1401-55-4
3-Hydroxybenzoic acid		5220	10g	99-06-9
4-Hydroxybenzoic acid (S.G.)		O-104	5g	99-96-7
		O-104	10g	99-96-7
p-Hydroxybenzoic acid hydrazide		5289K	1g	5351-23-5
m-Hydroxybenzophenone		5293K	100mg	13020-57-0
2-Hydroxybenzyl alcohol		5233F	1g	90-01-7
3-Hydroxybenzyl alcohol		5221E	10g	620-24-6
4-Hydroxybenzyl alcohol		5215E	5g	623-05-2
2-Hydroxybiphenyl		PS-420	1g	90-43-7
dl-Hydroxybutanedioic acid		O-76	5g	617-48-1
3-Hydroxy-2-butanone (S.G.)		O-186	1g	513-86-0
3-Hydroxybutyraldehyde		O-236	2g	107-89-1
DL-3-Hydroxybutyric acid sodium salt		1855L	100mg	306-31-0
3-Hydroxycarbofuran (S.G.)		F2053	50mg	16655-82-6
	100ug/mL in Acetonitrile	F2053JS	1mL	
	100ug/mL in Acetonitrile	F2053S	5mL	
2-Hydroxycinnamic acid		1831L	1g	614-60-8
3-Hydroxycinnamic acid		1810L	1g	14755-02-3
4-Hydroxycinnamic acid		5230	5g	7400-08-0
4-Hydroxycoumarin		MET-104B	1g	1076-38-6
7-Hydroxycoumarin		MET-104A	1g	93-35-6
3-Hydroxy-crotonic acid methyl ester dimethyl phosphate		PS-87	250mg	7786-34-7
2-Hydroxycyclohexanone		1555K	10mg	30282-14-5
6-Hydroxy-1,4-dichlorobenzene		O-2345	5g	583-78-8

Category Name	Specification	Catalog#	Size	CAS#
4-Hydroxy-3,5-diiodobenzonitrile		PS-397	100mg	1689-83-4
4-Hydroxy-3,5-diiodophenyl cyanide		PS-397	100mg	1689-83-4
Hydroxydimethyl-arsine oxide		PS-51	500mg	75-60-5
p-Hydroxy-N,N-dimethylbenzene sulfonamide		MET-671B	10mg	R
p-Hydroxy dimethyl isophthalate		4092H	5g	5985-24-0
o-Hydroxydiphenyl		F2225	1g	90-43-7
3-Hydroxy-1,3-diphenyltriazene		5251F	100mg	R
o-(2-Hydroxy-3,6-disulfo-1-naphthylazo)benzenearsonic acid disodium salt		5236J	100mg	R
2-Hydroxyethanesulfonic acid Na salt		5420E	10g	1562-00-1
Hydroxyethoxyethoxy ethyl laurate (TECH)		S-123	10g	R
Hydroxyethoxyethoxy ethyl oleate (TECH)		S-166	10g	R
Hydroxyethoxyethyl laurate (TECH)		S-122	10g	R
Hydroxyethoxyethyl oleate (TECH)		S-165	10g	R
N-2-Hydroxyethylacetamide		5255B	10g	142-26-7
2-Hydroxyethyl acetate (S.G.)		O-459	500mg	542-59-6
		O-459	5g	542-59-6
2-Hydroxyethyl acrylate		5252F	5g	818-61-1
2-Hydroxyethylbenzyl coco imidazolinium chloride (TECH)		S-625	10g	R
Hydroxyethyl cellulose		1939L	1g	9004-62-0
N-b-Hydroxyethyl coco imidazoline (TECH)		S-536	10g	R
2-Hydroxyethyl ether		O-208	10g	111-46-6
b-Hydroxyethyl ethylaniline		5260	10g	92-50-2
N-Hydroxyethyl ethylenediamine triacetic acid		5261E	10g	150-39-0
1-Hydroxyethylidene-1,1-diphosphonic acid (TECH)		CDF-18	5g	2809-21-4
1-Hydroxyethylidene-1,1-diphosphonic acid disodium salt (TECH)		CDF-19	5g	7414-83-7
1-Hydroxyethylidene-1,1-diphosphonic acid trisodium salt (TECH)		CDF-20	5g	2666-14-0
Hydroxyethyl laurate (TECH)		S-121	10g	R
N-Hydroxyethyl morpholine		5253F	10g	622-40-2
Hydroxyethylnitrilo diacetic acid disodium salt (TECH)		CDF-11	5g	R
2-Hydroxyethyl-n-octyl sulphide		PS-952	1g	3547-33-9
	100ug/mL in Methanol	PS-952JS	1mL	
Hydroxyethyl oleate (TECH)		S-164	10g	R
N-b-Hydroxyethyl oleyl imidazoline (TECH)		S-537	10g	95-38-5
N-(2-Hydroxyethyl)phthalimide		5312K	100mg	3891-07-4
O-Hydroxyethyl resorcinol		5270E	10g	R
N-b-Hydroxyethyl stearyl imidazoline (TECH)		S-534	10g	R
2-Hydroxyethyl triethyl ammonium iodide		5255F	1g	5957-17-5
3-Hydroxyflavone		1690L	100mg	577-85-5
1-Hydroxy-9-fluorenone		5317K	10mg	6344-60-1
Hydroxyhydroquinone		5321K	10mg	533-73-3
2-Hydroxy-4-[2-hydroxy-3-(methacryloyloxy)-propoxy]benzophen (TECH)		Ou-97	3g	R
		Ou-97	10g	R
3-Hydroxy-2-hydroxymethyl pyridine hydrochloride		5278F	1g	R
5-Hydroxy-2-(hydroxymethyl)-4-pyrone		5300	10g	501-30-4
2-Hydroxyisobutyric acid		5280F	5g	594-61-6
4-Hydroxyisophthalic acid		5301C	1g	636-46-4
6-Hydroxy-5-isopropenyl-3-methyl-3-dihydrobenzofuran		5325K	10mg	R
5-Hydroxyisoquinoline		1702L	100mg	2439-04-5
Hydroxyisoxazole		PS-2186	25mg	10004-44-1
Hydroxylamine hydrochloride (S.G.)		O-996	2g	5470-11-1
		O-996	10g	5470-11-1
Hydroxylamine sulfate		5292F	10g	10039-54-0
p-Hydroxy leucine sodium salt		5295F	100mg	R
5-Hydroxy-DL-lysine hydrochloride		5280H	100mg	13204-98-3
4-Hydroxy-2-mercapto-6-methylpyrimidine		5960J	1g	56-04-2
4-Hydroxy-2-mercapto-6-propylpyrimidine		F2133	1g	51-52-5
p-Hydroxy mercuribenzoate sodium salt		5309H	100mg	138-85-2
o-Hydroxymercuribenzoic acid		5311C	100mg	R
o-(Hydroxymercuric)benzoic acid cyclic anhydride		5297F	100mg	R
a-Hydroxy-4-methoxyacetophenone		5341K	10mg	4136-21-4
2-Hydroxy-5-methoxybenzoic acid		5305B	1g	2612-02-4
4-Hydroxy-3-methoxybenzoic acid		5349K	100mg	121-34-6
2-Hydroxy-4-methoxy-benzophenone (TECH)		Ou-98	3g	131-57-7
		Ou-98	10g	131-57-7
2′-Hydroxy-4′-methoxy-benzophenone-2-carboxylic acid (TECH)		Ou-99	3g	4756-45-0
		Ou-99	10g	4756-45-0
2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid (TECH)		Ou-100	3g	4065-45-6
		Ou-100	10g	4065-45-6
2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid-trihydrate (TECH)		Ou-101	3g	4065-45-6
		Ou-101	10g	4065-45-6
4-Hydroxy-3-methoxybenzylamine hydrochloride		5369K	100mg	7149-10-2
4-Hydroxy-3-methoxy cinnamic acid		5310	10g	1135-24-6

Category Name	Specification	Catalog#	Size	CAS#
2-Hydroxy-4-methoxy-4′-methyl benzophenone		5345K	10mg	1641-17-4
2-Hydroxymethyl-1,4-benzodioxan		5299F	1g	3663-82-9
2-Hydroxy-3-methyl benzoic acid		5357K	1g	83-40-9
2-Hydroxy-4-methyl benzoic acid		5360K	10mg	50-85-1
7-Hydroxy-4-methyl-1,2-benzopyrone		5364K	10mg	90-33-5
7-Hydroxy-4-methylcourmarin		6364K	1g	626-58-4
5-(Hydroxymethyl)furfural (S.G.)		O-2402	100mg	67-47-0
3-Hydroxy-5-methylisoxazole		PS-2186	25mg	10004-44-1
2-Hydroxymethyl-2-methyl-1,3-propanediol (S.G.)		O-198	5g	77-85-0
		O-198	10g	77-85-0
2-Hydroxymethyl-4-methyl-thio-o-cresol		5296F	100mg	R
5-Hydroxymethyl-6-methyluracil		5378K	10mg	147-61-5
4-Hydroxy-N-methylpiperidine		5300F	10g	106-52-5
3-Hydroxy-N-methylpiperidine		5390K	100mg	3554-74-3
2-Hydroxy-6-methylpyridine		5394K	100mg	3279-76-3
3-Hydroxy-2-methyl-4-pyrone		5398K	100mg	118-71-8
4-Hydroxy-6-methyl-2-pyrone		5404K	100mg	675-10-5
N-Hydroxymethyl pyrrolidone		5408K	1g	15438-71-8
2-(6-Hydroxy-m-tolyl)-benzotriazole (TECH)		Ou-103	3g	R
		Ou-103	10g	R
2-Hydroxy-1-naphthaldehyde		5412K	100mg	708-06-5
N-Hydroxynaphthalimide		1705L	100mg	7797-81-1
1-Hydroxy-2-naphthoic acid (S.G.)		O-105	2g	86-48-6
		O-105	10g	86-48-6
2-Hydroxy-1-naphthoic acid		5316F	5g	2283-08-1
3-Hydroxy-2-naphthoic acid		5315E	10g	92-70-6
2-Hydroxy-1,4-naphthoquinone		5416K	100mg	83-72-7
5-Hydroxy-1,4-naphthoquinone		1942L	25mg	481-39-0
1-(2-Hydroxy-1-naphthylazo)-naphthol-4-sulfonic acid zinc salt		5321F	1g	R
6-Hydroxy-2-naphthyl disulfide		2884L	100mg	
6-Hydroxynicotinic acid		1936L	100mg	5006-66-6
3-Hydroxy-4-nitrobenzaldehyde		1969L	100mg	704-13-2
4-Hydroxy-3-nitrobenzaldehyde		1693L	100mg	3011-34-5
5-Hydroxy-2-nitrobenzaldehyde		5319F	1g	42454-06-8
3-Hydroxy-2-nitrobenzoic acid		5420K	10mg	R
3-Hydroxy-4-nitrobenzoic acid		5318F	1g	619-14-7
2-Hydroxy-5-nitropyridine		5424K	100mg	5418-51-9
3-Hydroxy-2-nitropyridine		5428K	100mg	15128-82-2
8-Hydroxy-5-nitroquinoline		5432K	100mg	4008-48-4
N-Hydroxy-5-norbornene-endo-2,3-dicarboximide		2770L	1g	21715-90-2
12-Hydroxyoctadecanoic acid		O-50	5g	106-14-9
2-Hydroxy-4-(octyloxyl)-benzophenone (TECH)		Ou-102	3g	1843-05-6
		Ou-102	10g	1843-05-6
p-Hydroxyphenoxyacetic acid		5320	5g	1878-84-8
p-Hydroxyphenylacetic acid		5329F	1g	156-38-7
p-Hydroxyphenylarsonic acid		2689L	1g	98-14-6
2-(4-Hydroxyphenylazo)benzoic acid		5211J	100mg	1634-82-8
2-(o-Hydroxyphenyl)benzoxazole		5335J	100mg	835-64-3
N-(p-Hydroxyphenyl)glycine (S.G.)		O-96	500mg	122-87-2
		O-96	10g	122-87-2
3-Hydroxy-1-phenyl-1-propene		O-214	5g	104-54-1
(4-Hydroxyphenyl)sulfide		7985B	1g	2664-63-3
p-Hydroxyphenyl sulfone		5333A	1g	80-09-1
3-Hydroxyphenylurea		5440K	1g	701-82-6
N-Hydroxyphthalimide		5444K	1g	524-38-9
3-Hydroxypiperdine		7032K	10mg	6859-99-0
4-Hydroxypiperidine		5448K	100mg	5382-16-1
N-Hydroxypiperidine		5452K	10mg	4801-58-5
3-Hydroxypiperidine hydrochloride		5460K	100mg	64051-79-2
trans-4-Hydroxy-L-proline		5330H	1g	51-35-4
3-Hydroxy-1-propanesulfonic acid sodium salt		5335E	5g	3542-44-7
2-Hydroxy-1,2,3-propane tricarboxylic acid		O-75	5g	5949-29-1
B-Hydroxypropionic acid (30% in water)		1954L	100mg	503-66-2
2-Hydroxypropionic acid		O-51	2g	50-21-5
2-Hydroxypropionitrile (S.G.)		F2017	5g	78-97-7
	100ug/mL in Methylene chloride	F2017JS	1mL	
	100ug/mL in Methylene chloride	F2017S	5mL	
p-Hydroxypropiophenone		5335F	10g	70-70-2
o-Hydroxypropiophenone		5472K	100mg	610-99-1
2-(g-Hydroxypropyl)benzimidazole		5336F	200mg	R
Hydroxypropyl cellulose		3007L	1g	9004-64-2
2-Hydroxypropyl ether		O-209	10g	110-98-5

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Category Name	Specification	Catalog#	Size	CAS#
Hydroxypropyl methylcellulose		1990L	100mg	**9004-65-3**
2-Hydroxypyrazine		MET-668B	1mL	**6270-63-9**
8-Hydroxy-1,3,6-pyrenetrisulfonic acid trisodium salt		1945L	10mg	**6358-69-6**
6-Hydroxy-3-[2H]-pyridazinone		PS-65	250mg	**123-33-1**
2-Hydroxypyridine		5476K	100mg	**142-08-5**
3-Hydroxypyridine		5480K	100mg	**109-00-2**
8-Hydroxyquinaldine		5338F	1g	**826-81-3**
4-Hydroxyquinazoline		2650L	500mg	**491-36-1**
5-Hydroxyquinoline		1909L	25mg	**578-67-6**
8-Hydroxyquinoline (S.G.)		O-697	2g	**148-24-3**
		O-697	10g	**148-24-3**
8-Hydroxyquinoline		PS-18	1g	**148-24-3**
		PS-18JS	1mL	
8-Hydroxyquinolin-5-sulfonic acid		5340F	1g	**84-88-8**
12-Hydroxystearic acid (S.G.)		O-50	5g	**106-14-9**
		O-50	10g	**106-14-9**
N-Hydroxysuccinimide		5346E	5g	**6066-82-6**
N-Hydroxysuccinimidyl-4-azidobenzoate		5484K	10mg	**R**
5-Hydroxytetracycline hydrochloride™		PS-2200	250mg	**2058-46-0**
3-Hydroxytetrahydrofuran		5488K	100mg	**453-20-3**
4-Hydroxy-3-(1,2,3,4-tetrahydro-1-naphtalenyl)-2H-1-benzopyran-2-one		PS-2093	250mg	**5836-29-3**
4-Hydroxy-3-[1,2,3,4-tetrahydro-3-[4-(4-trifluoromethylbenzyl-oxy) phenyl]-1-naphthyl] coumarin		PS-2149	10mg	**90035-08-8**
3-Hydroxytyramine hydrobromide		2878L	100mg	**645-31-8**
Hydroxyurea		5492K	100mg	**127-07-1**
N-Hydroxyurethane		5355E	1g	**589-41-3**
Hymexazole		PS-2186	25mg	**10004-44-1**
	100ug/mL in Methanol	PS-2186JS	1mL	
Hyosan™		PS-6	250mg	**97-23-4**
Hypoxanthine		5380F	1g	**68-94-0**
Hyvar™		PS-62	250mg	**314-40-9**
Hyvermectin™		PS-2220	100mg	**70288-86-7**
Hyzole		PS-2186	25mg	**10004-44-1**
Ibertox™		PS-57	1g	**534-52-1**
		PS-57	1g	**534-52-1**
IBP		PS-2065	250mg	**26087-47-8**
Icaridin		PS-2362	100mg	**119515-38-7**
Icon™		PS-2018	100mg	**91465-08-6**
ICP Analytical Mixture I		XICP-AM-I-A	100mL	
		XICP-AM-I-B	250mL	
ICP Analytical Mix II		XICP-AM-II-A	100mL	
		XICP-AM-II-B	250mL	
ICP Analytical Mix III		XICP-AM-III-A	100mL	
		XICP-AM-III-B	250mL	
ICP Analytical Mix IV		XICP-AM-IV-A	100mL	
		XICP-AM-IV-B	250mL	
ICp Analytical Mix IX		XICP-AM-IX-A	100mL	
		XICP-AM-IX-B	250mL	
ICP Analytical Mix V		XICP-AM-V-A	100mL	
		XICP-AM-V-B	250mL	
ICP Analytical Mix VI		XICP-AM-VI-A	100mL	
		XICP-AM-VI-B	250mL	
ICP Analytical Mix VII		XICP-AM-VII-A	100mL	
		XICP-AM-VII-B	250mL	
ICP Analytical Mix VIII		XICP-AM-VIII-A	100mL	
		XICP-AM-VIII-B	250mL	
ICP Analytical Mix X		XICP-AM-X-A	100mL	
		XICP-AM-X-B	250mL	
ICP Analytical Mix XI		XICP-AM-XI-A	100mL	
		XICP-AM-XI-B	250mL	
ICP Analytical Mix XII		XICP-AM-XIIA	100mL	
		XICP-AM-XII-B	250mL	
ICP Analytical Mix XIII		XICP-AM-XIII-A	100mL	
		XICP-AM-XIII-B	250mL	
ICP Analytical Mix XIV		XICP-AM-XIV-A	100mL	
		XICP-AM-XIV-B	250mL	
ICP MS CALIBRATION STANDARD - 2% HNO3+Tr HF		XICP-MSCS-A	100mL	
		XICP-MSCS-B	250mL	
ICP-MS Multielement Tuning Solution #1		XICP-MS-TS-1-A	100mL	
		XICP-MS-TS-1-B	250mL	
		XICP-MS-TS-1-C	500mL	
ICP-MS Multielement Tuning Solution #2		XICP-MS-TS-2-A	100mL	
		XICP-MS-TS-2-B	250mL	
		XICP-MS-TS-2-C	500mL	
ICP-MS Multielement Tuning Solution #3		XICP-MS-TS-3-A	100mL	
		XICP-MS-TS-3-B	250mL	
		XICP-MS-TS-3-C	500mL	
ICP-MS Multielement Tuning Solution #4		XICP-MS-TS-4-A	100mL	
ICP-MS Multielement Tuning Solution #4		XICP-MS-TS-4-B	250mL	
ICP-MS Multielement Tuning Solution #4		XICP-MS-TS-4-C	500mL	
ICP-MS Verification Standards, Matric 5% HNO3		XICP-MS-B-M-A	100mL	
		XICP-MS-B-M-B	250mL	
ICP-MS Verification Standards, Matrix 10% HCl		XICP-MS-C-A	100mL	
		XICP-MS-C-B	250mL	
ICP-MS Verification Standards, Matrix 2% HNO3		XICP-MS-A-A	100mL	
		XICP-MS-A-B	250mL	
ICP-MS Verification Standards, Matrix 2% HNO3		XICP-MS-A-M-A	100mL	
		XICP-MS-A-M-B	250mL	
ICP-MS Verification Standards, Matrix 5% HNO3		XICP-MS-B-A	100mL	
		XICP-MS-B-B	250mL	
ICP-MS Verification Standards, Matrix 5% HNO3 + Tr HF		XICP-MS-D-A	100mL	
		XICP-MS-D-B	250mL	
ICP-MS Verification Standards, Matrix 5% HNO3 + Tr HF		XICP-MS-D-M-A	100mL	
		XICP-MS-D-M-B	250mL	
ICP Multielement Calibration Standard #5 for EPA Method 200,7		XICP-200,7-5-A	100mL	
		XICP-200,7-5-B	250mL	
ICP Multielement Calibration Standard #6 for EPA Method 200,7		XICP-200,7-6-A	100mL	
		XICP-200,7-6-B	250mL	
ICP Multielement Calibration Standard #7 for EPA Method 200,7		XICP-200,7-7-A	100mL	
		XICP-200,7-7-B	250mL	
ICP Multielement Calibration Std I		XICP-MCS-I-A	100mL	
		XICP-MCS-I-B	250mL	
ICP Multielement Calibration Std II		XICP-MCS-II-A	100mL	
		XICP-MCS-II-B	250mL	
ICP Multielement Calibration Std III		XICP-MCS-III-A	100mL	
		XICP-MCS-III-B	250mL	
ICP Multielement Calibration Std IV		XICP-MCS-IV-A	100mL	
		XICP-MCS-IV-B	250mL	
ICP Working Calibration Standard I		XICP-WS-I-A	100mL	
		XICP-WS-I-B	250mL	
		XICP-WS-I-C	500mL	
ICP Working Calibration Standard II		XICP-WS-II-A	100mL	
		XICP-WS-II-B	250mL	
		XICP-WS-II-C	500mL	
ICP Working Calibration Standard III		XICP-WS-III-A	100mL	
		XICP-WS-III-B	250mL	
		XICP-WS-III-C	500mL	
ICP Working Calibration Standard IV		XICP-WS-IV-A	100mL	
		XICP-WS-IV-B	250mL	
		XICP-WS-IV-C	500mL	
ICV Graphite Furnace Calibration Standard		XICV-GFAA-A	100mL	
		XICV-GFAA-B	250mL	
ICV Graphite Furnace Spike Standard		XGFAA-SPIKE-A	100mL	
		XGFAA-SPIKE-B	250mL	
Igran™		PS-379	1g	**886-50-0**
Illoxan™		PS-1036	250mg	**51338-27-3**
Imazalil		PS-2043	100mg	**35554-44-0**
	100ug/mL in Acetonitrile	PS-2043AJS	1mL	
	100ug/mL in Hexane	PS-2043JS	1mL	
Imazalil sulfate		PS-2043-1	100mg	**60534-80-7**
	100ug/mL in Water	PS-2043-1AJS	1mL	
Imazameth		PS-2197	250mg	**104098-48-8**
Imazamethabenz-methyl		PS-2195	100mg	**81405-85-8**
	100ug/mL in Acetonitrile	PS-2195AJS	1mL	
	100ug/mL in Toluene	PS-2195JS	1mL	
Imazamox		PS-2162	250mg	**114311-32-9**
	100ug/mL in Acetonitrile	PS-2162AJS	1mL	
	100ug/mL in tert-Butylmethyl ether	PS-2162JS	1mL	
Imazapic		PS-2197	250mg	**104098-48-8**
	100ug/mL in Acetonitrile	PS-2197AJS	1mL	
	100ug/mL in Toluene	PS-2197JS	1mL	
Imazapyr		PS-2016	100mg	**81334-34-1**
	100ug/mL in Acetonitrile	PS-2016AJS	1mL	
	100ug/mL in MTBE	PS-2016JS	1mL	
Imazaquin		PS-2053	100mg	**81335-37-7**
	100ug/mL in Acetonitrile	PS-2053AJS	1mL	
	100ug/mL in MTBE	PS-2053JS	1mL	
Imazethapyr		PS-2039	100mg	**81335-77-5**
	100ug/mL in Methanol	PS-2039JS	1mL	
Imazosulfuron		PS-2379	100mg	**122548-33-8**
Imidan™		F2129	1g	**732-11-6**
	100ug/mL in Hexane	F2129JS	1mL	
	100ug/mL in Hexane	F2129S	5mL	
	100ug/mL in Acetonitrile	PS-653JS	1mL	
Imidacloprid		PS-2086	500mg	**138261-41-3**
	100ug/mL in Methanol	PS-2086JS	1mL	
Imidazole		5362A	10g	**288-32-4**
Imidazole-I,J,K-(sodium derivative)		5550K	100mg	**5587-42-8**
Imidazole-4,5-dicarboxylic acid		5371B	5g	**570-22-9**

Category Name	Specification	Catalog#	Size	CAS#
2-Imidazolidinethione (S.G.)		F2430	5g	**96-45-7**
	100ug/mL in Ethyl acetate containing 0.1% of DTT	F2430AJS	1mL	
	100ug/mL in Ethyl acetate containing 0.1% of DTT	F2430AS	5mL	
	5000ug/mL in Acetonitrile	F2430JS	1mL	
	5000ug/mL in Acetonitrile	F2430S	5mL	
2-Imidazolidinethione (S.G.)		O-714	5g	**96-45-7**
		O-714	10g	**96-45-7**
2-Imidazolidinethione		PS-2180	1g	**96-45-7**
2-Imidazolidone		1609L	1g	**120-93-4**
Imidodicarbonic diamide		O-894	5g	**88-06-2**
Iminobis (methylphosphonic acid)		MET-2164A	500mg	**6711-48-4**
Iminodiacetonitrile		5555K	1g	**628-87-5**
Iminodibenzyl		2974L	1g	**494-19-9**
Imino-N,N-diethanol diacetic acid disodium salt (TECH)		CDF-6	5g	**R**
3,3′-Iminodipropionitrile (S.G.)		O-843	500mg	**111-94-4**
		O-843	2g	**111-94-4**
Iminostilbene		1924L	100mg	**256-96-2**
Impact™		PS-2177	100mg	**76674-21-0**
Imperator		PS-1068	100mg	**52315-07-8**
Imprelis™		PS-2387	250mg	**858956-08-8**
Indalone™		PS-907	1g	**532-34-3**
Indan (S.G.)		F1033	1g	**496-11-7**
	100ug/mL in Toluene	F1033JS	1mL	
	100ug/mL in Methanol	F1033S	5mL	
1,3-Indandione		5365	5g	**606-23-5**
Indanofan		PS-2365	100mg	**133220-30-1**
1-Indanol		5570K	100mg	**6351-10-6**
2-Indanol		5572K	100mg	**4254-29-9**
5-Indanol		5429F	1g	**1470-94-6**
1-Indanone		5370	5g	**83-33-0**
Indar™		PS-2072	100mg	**114369-43-6**
Indene (S.G.)		F1034	1g	**95-13-6**
	100ug/mL in Toluene	F1034JS	1mL	
	100ug/mL in Toluene	F1034S	5mL	
Indeno(1,2,3-C,D)pyrene (S.G.)		F83	10mg	**193-39-5**
	100ug/mL in Toluene	F83JS	1mL	
	100ug/mL in Toluene	F83S	5mL	
	100ug/mL in Methanol	F83MJS	1mL	
	100ug/mL in Methanol	F83MS	5mL	
Indeno(1,2,3-C,D)pyrene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC83S	1.2mL	
Indeno(1,2,3-C,D)pyrene (d12) (S.G.)		FD83-E	0.01g	**R**
	200ug/mL in Isooctane	FD83S	1.2mL	
Indigo blue/C.I.#73000		BS-92	1g	**482-89-3**
Indigo carmine/C.I.#73015		BS-93	1g	**860-22-0**
Indium metal		RE-110	100mg	**7440-74-6**
Indium - 4% HNO3		X10M 24-1-100	100mL	
		X10M 24-1-250	250mL	
		X10M 24-1-500	500mL	
Indium - 10% HCl		X10M 24-2-100	100mL	
		X10M 24-2-250	250mL	
		X10M 24-2-500	500mL	
Indium - In metal, 99.999%, 2% HCl		X100024-2-A	100mL	
		X100024-2-B	250mL	
		X100024-2-C	500mL	
Indium - In metal,99.999%,2% HNO3		X100024-1-A	100mL	
		X100024-1-B	250mL	
		X100024-1-C	500mL	
Indium hydroxide		I-3340	1g	**20661-21-6**
Indium Metallo-Organic 1000ug/g in Mineral Oil		XINOMS	100g	
Indium oxide		RE-120	100mg	**1312-43-2**
Indium Oxide (In2O3) 99.999%		XIN-O-A	2g	
		XIN-O-B	10g	
Indium Shot (In) 99.999%		XIN-MS-A	5g	
		XIN-MS-B	25g	
Indole (S.G.)		F2476	500mg	**120-72-9**
	1000ug/mL in Methylene chloride	F2476JS	1mL	
	1000ug/mL in Methylene chloride	F2476S	5mL	
Indole (S.G.)		O-347	500mg	**120-72-9**
		O-347	5g	**120-72-9**
3-Indole-3-acetaldehyde sodium bisulfite		1957L	10mg	**20095-27-6**
3-Indoleacetic acid		PS-320	250mg	**87-51-4**
	100ug/mL in Acetonitrile	PS-320AJS	1mL	
	100ug/mL in MTBE	PS-320JS	1mL	
3-Indolebutyric acid		PS-48	100mg	**133-32-4**
	100ug/mL in Acetonitrile	PS-48AJS	1mL	
	100ug/mL in MTBE	PS-48JS	1mL	
Indole-3-carboxaldehyde		5376E	1g	**487-89-8**
Indole-2-carboxylic acid		5342F	1g	**1477-50-5**

Category Name	Specification	Catalog#	Size	CAS#
Indole-5-carboxylic acid		5576K	10mg	**1670-81-1**
2,3-Indoledione		O-377	2g	**91-56-5**
3-Indolepropionic acid		PS-321	1g	**830-96-6**
	100ug/mL in Acetonitrile	PS-321AJS	1mL	
	100ug/mL in MTBE	PS-321JS	1mL	
Indole-3-pyruvic acid		1948L	10mg	**392-12-1**
Indoline		5580K	100mg	**496-15-1**
2-Indolinone		6749F	1g	**59-48-3**
Indoxacarb		PS-2230	100mg	**144171-61-9**
	100ug/mL in Acetonitrile	PS-2230AJS	1mL	
	100ug/mL in Toluene	PS-2230JS	1mL	
Initial Check Verification Std I		XICV-I-A	100mL	
		XICV-I-B	250mL	
Initial Check Verification Std II		XICV-II-A	100mL	
		XICV-II-B	250mL	
Initial Check Verification Std III		XICV-III-A	100mL	
		XICV-III-B	250mL	
Inositol		CARB-28	5g	**87-89-8**
Inositol (S.G.)		O-199	500mg	**87-89-8**
		O-199	10g	**87-89-8**
INPC™		PS-53	1g	**122-42-9**
Insegar™		PS-2174	100mg	**79127-80-3**
Interference Check Standard I		XINFCS-I-A	100mL	
		XINFCS-I-B	250mL	
Interference Check Std II		XINFCS-II-A	100mL	
		XINFCS-II-B	250mL	
Interference Check Std III		XINFCS-III-A	100mL	
		XINFCS-III-B	250mL	
Interference Check Std IV		XINFCS-IV-A	100mL	
		XINFCS-IV-B	250mL	
Interference Check Std V		XINFCS-V-A	100mL	
		XINFCS-V-B	250mL	
Investt™		PS-2178	250mg	**19937-59-8**
Iodic acid-crystal		I-3350	5g	**7782-68-5**
Iodide @ 1000ug/mL in water		XIC-II-M-A	100mL	
		XIC-II-M-B	250mL	
		XIC-II-M-C	500mL	
Iodide @ 100ug/mL in Water		XIC-II-A	100mL	
		XIC-II-B	250mL	
		XIC-II-C	500mL	
Iodine monochloride		5368A	10g	**7790-99-0**
Iodoacetamide		1966L	250mg	**144-48-9**
Iodoacetic acid		5357E	5g	**64-69-7**
Iodoacetonitrile		5371F	1g	**624-75-9**
o-Iodoaniline		5372F	1g	**615-43-0**
p-Iodoaniline		5374F	1g	**540-37-4**
Iodobenzene (S.G.)		O-686	1g	**591-50-4**
		O-686	10g	**591-50-4**
o-Iodobenzoic acid		5360	10g	**88-67-5**
p-Iodobenzonitrile		1987L	100mg	**3058-39-7**
m-Iodobenzylamine hydrochloride		1921L	100mg	**3718-88-5**
2-Iodobutane		5362E	10g	**513-48-4**
1-Iodobutane		5375F	10g	**542-69-8**
1-Iododecane		5373F	1g	**2050-77-3**
Iodoethane		O-643	2g	**75-03-6**
Iodofenphos		PS-1206	5mL	**18181-70-9**
Iodoform (S.G.)		O-645	500mg	**75-47-8**
		O-645	10g	**75-47-8**
1-Iodohexane		5381F	1g	**638-45-9**
Iodomethane		F981	1g	**74-88-4**
1-Iodonaphthalene (S.G.)		O-2366	1g	**90-14-2**
1-Iodo-4-nitrobenzene		5598K	100mg	**636-98-6**
1-Iodooctane		5406F	1g	**629-27-6**
2-Iodooctane		5407F	1g	**R**
1-Iodopentane		2014K	1g	**628-17-1**
4-Iodophenol		5605K	100mg	**540-38-5**
2-(p-Iodophenyl)-3-(p-nitrophenyl)-5-phenyl-2H-tetrazolium chloride		5407H	100mg	**146-68-9**
1-Iodopropane (S.G.)		O-646	2g	**107-08-4**
		O-646	10g	**107-08-4**
2-Iodopropane (S.G.)		O-647	2g	**75-30-9**
		O-647	10g	**75-30-9**
b-Iodopropionic acid		5412F	1g	**141-76-4**
o-Iodotoluene		5415F	5g	**615-37-2**
p-Iodotoluene (S.G.)		O-687	500mg	**624-31-7**
		O-687	2g	**624-31-7**
2-Iodo-1,1,1-trifluoroethane		5610K	100mg	**353-83-3**
Ioxynil		PS-397	100mg	**1689-83-4**

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Category Name	Specification	Catalog#	Size	CAS#
Ioxynil octanoate		PS-2250	100mg	**3861-47-0**
	100ug/mL in Acetonitrile	PS-2250AJS	1mL	
	100ug/mL in Toluene	PS-2250JS	1mL	
Ioxynil-methyl		MET-397A	100mg	**R**
IPC™		PS-53	1g	**122-42-9**
Iprobenfos		PS-2065	250mg	**26087-47-8**
	100ug/mL in Acetonitrile	PS-2065AJS	1mL	
	100ug/mL in Toluene	PS-2065JS	1mL	
Iprodione		PS-1052	100mg	**36734-19-7**
	100ug/mL in Acetonitrile	PS-1052AJS	1mL	
Iproniazid phosphate		5418F	1g	**305-33-9**
Iridium - (NH4)3IrCl6,10%HCl		X100025-2-A	100mL	
Iris blue B/C.I.#51400		BS-104	1g	**42249-61-6**
Iron metal (filings)		I-3360	10g	**7439-89-6**
Iron - 10% HCl		X10M 26-2-100	100mL	
		X10M 26-2-250	250mL	
		X10M 26-2-500	500mL	
Iron - 10% HNO3		X10M 26-1-100	100mL	
		X10M 26-1-250	250mL	
		X10M 26-1-500	500mL	
Iron - as Fe+2, 99.999%, 2% HCl, 1% HONH2,HCl, 1000ug/mL in water		X100026-6-A	100mL	
Iron - as Fe+3, 99.999%, 2% HNO3, 1000ug/mL in water		X100026-7-A	100mL	
Iron - Fe metal, 99.996%, 2% HNO3		X100026-1-A	100mL	
		X100026-1-B	250mL	
		X100026-1-C	500mL	
Iron - Fe metal,99.999%,2% HCl		X100026-2-A	100mL	
		X100026-2-B	250mL	
		X100026-2-C	500mL	
Iron Chips (Fe) 99.94%		XFE-MC-A	5g	
		XFE-MC-B	25g	
Iron Lump (Fe) 99.999%		XFE-ML-A	5g	
		XFE-ML-B	20g	
Iron Metallo - Organic Standard 1000ug/g in Mineral Oil		XFEOMS	100g	
Iron naphthenate (80% in mineral spirits) (TECH)		S-103	10g	**1338-14-3**
Iron Oxide (Fe203) 99.999%		XFE-O-A	5g	
		XFE-O-B	25g	
Iron stearate (TECH)		S-102	10g	**555-36-2**
Isatin (S.G.)		O-377	2g	**91-56-5**
		O-377	10g	**91-56-5**
Isatoic anhydride		5625K	10g	**118-48-9**
Isazophos		PS-681	250mg	**42509-80-8**
	100ug/mL in Toluene	PS-681JS	1mL	
	100ug/mL in Toluene	PS-681JS	1mL	
Isethionic acid sodium salt		5420E	10g	**1562-00-1**
Ismelin sulfate		5419F	100mg	**60-02-6**
Isoamyl acetate (S.G.)		O-406	2g	**123-92-2**
Isoamylacetoacetate		5632K	10mg	**2308-18-1**
Isoamyl alcohol (S.G.)		O-140	10g	**123-51-3**
Isoamylamine (S.G.)		O-2132	500mg	**107-85-7**
		O-2132	1g	**107-85-7**
Isoamyl-benzoate		5640K	1g	**94-46-2**
Isoamyl benzyl ether (S.G.)		O-579	5g	**122-73-6**
Isoamyl-n-butyrate		1965B	10g	**106-27-4**
Isoamyl ether (S.G.)		O-560	500mg	**544-01-4**
		O-560	5g	**544-01-4**
Isoamyl nitrite (S.G.)		O-831	1g	**110-46-3**
		O-831	5g	**110-46-3**
Isoamyl salicylate		1980	5g	**87-20-7**
Isobenzan		PS-704	10mg	**297-78-9**
	100ug/mL in Methanol	PS-704JS	1mL	
Isobornyl thiocyanoacetate		PS-731	1g	**115-31-1**
	100ug/mL in Acetonitrile	PS-731AJS	1mL	
	100ug/mL in Toluene	PS-731JS	1mL	
Isobutyl acetate (S.G.)		O-2133	1g	**110-19-0**
		O-2133	5g	**110-19-0**
Isobutyl alcohol (S.G.)		F980	5g	**78-83-1**
	100ug/mL in Methanol	F980JS	1mL	
	100ug/mL in Methanol	F980S	5mL	
Isobutyl alcohol (S.G.)		O-143	10g	**78-83-1**
Isobutylamine (S.G.)		O-274	5g	**78-81-9**
Isobutylbenzene (R.G.)		2603F	1g	**538-93-2**
Isobutyl chloride		3040	10g	**513-36-0**
Isobutyl chloroformate		2559B	1g	**543-27-1**
Isobutyl cyclohexyl phthalate (TECH)		Pz-492	10g	**R**
Isobutyl iodide		5420F	1g	**513-38-2**
Isobutyl mercaptan (S.G.)		O-2134	1g	**513-44-0**
Isobutyl methacrylate		5647K	100mg	**97-86-9**

Category Name	Specification	Catalog#	Size	CAS#
Isobutyl oleate (TECH)		Pz-215	10g	**R**
Isobutyl palmitate (TECH)		Pz-230	10g	**R**
Isobutyl stearate (TECH)		Pz-265	10g	**R**
Isobutylsulfide		2617F	1g	**592-65-4**
5-Isobutyl-5-(2-tetrahydropyranyl)barbituric acid		5421F	100mg	**R**
Isobutyl vinyl ether (S.G.)		O-1006	5g	**109-53-5**
Isobutyraldehyde (S.G.)		F2395	5g	**78-84-2**
	1000ug/mL in Toluene	F2395JS	1mL	
	1000ug/mL in Toluene	F2395S	5mL	
Isobutyraldehyde (S.G.)		O-2014	1g	**78-84-2**
		O-2014	5g	**78-84-2**
Isobutyraldehyde (DNPH Derivative) (S.G.)		F2474	100mg	**R**
	100ug/mL in Acetonitrile	F2474JS	1mL	
	100ug/mL in Acetonitrile	F2474S	5mL	
Isobutyramide		5649K	1g	**563-83-7**
Isobutyric acid (S.G.)		O-6	10g	**79-31-2**
Isobutyronitrile (S.G.)		O-837	10g	**78-82-0**
Isobutyrophenone		5423F	1g	**611-70-1**
Isocarbostyril		1963L	100mg	**491-30-5**
Isocetyl stearate (TECH)		Pz-272	10g	**R**
Isochroman		5431F	1g	**493-05-0**
DL-Isocitric acid lactone		1978L	100mg	**4702-32-3**
DL-Isocitric acid trisodium salt		1984L	100mg	**1637-73-6**
Iso-Cornox™		PS-324	100mg	**7085-19-0**
Isocothane™		PS-27	100mg	**39300-45-3**
Isodecyl nonanoate (TECH)		Pz-235	10g	**R**
Isodecyl tridecyl phthalate (S.G.)		Pt-37	10g	**R**
Isodecyl tridecyl phthalate (TECH)		Pz-495	10g	**R**
Isodrin		PS-2103	100mg	**465-73-6**
Isodrin (S.G.)		F921	100mg	**465-73-6**
	100ug/mL in Methanol	F921JS	1mL	
	100ug/mL in Methanol	F921S	5mL	
Isoeugenol		5410H	1g	**97-54-1**
Isofenphos		PS-1003	100mg	**25311-71-1**
	100ug/mL in Acetonitrile	PS-1003AJS	1mL	
	100ug/mL in Toluene	PS-1003JS	1mL	
Isofenphos-des-N-isopropyl		MET-1003C	100mg	**R**
	100ug/mL in Hexane	MET-1003A	1mL	**R**
Isofenphos-des-N-isopropyl-O-analogue	100ug/mL in Hexane	MET-1003B	5mL	**R**
Isofenphos-Methyl		PS-2337	50mg	**99675-03-3**
Isohexylbenzyl phthalate (S.G.)		Pt-40	10g	**R**
Isohexyl laurate (TECH)		Pz-205	10g	**R**
1,3-Isoindoledione		O-267	2g	**88-96-0**
DL-Isoleucine (TECH)		AA-12	1g	**443-79-8**
		AA-12	5g	**443-79-8**
Isomalathion 100ug/mL in Hexane	100 ug/mL in Hexane	MET-86A	5mL	**3344-12-5**
Isomerized terphenyl (TECH)		Pz-154	10g	**R**
Isonicotinamide		5657K	1g	**1453-82-3**
Isonicotinic acid (S.G.)		O-120	2g	**55-22-1**
		O-120	10g	**55-22-1**
Isonicotinic acid hydrazide		5440	10g	**54-85-3**
Isonicotinic acid 2-isopropylhydrazinephosphate		5418F	1g	**305-33-9**
Isonicotinic acid N-oxide		5653K	1g	**13602-12-5**
Isonicotinoyl chloride hydrochloride		5661K	100mg	**39178-35-3**
Isonipecotamide		5665K	10mg	**39546-32-2**
Isonipecotic acid		5382A	10g	**498-94-2**
Isonitrosoacetophenone		3085L	500mg	**532-54-7**
Isooctane		O-741	5g	**540-84-1**
Isooctyl alcohol		5444D	10g	**26952-21-6**
Isooctyl benzyl phthalate (TECH)		Pz-500	10g	**R**
Isooctyl-2,4-dichlorophenoxy acetate		PS-319	1g	**25168-26-7**
Isooctyl epoxystearate (TECH)		Pz-925	10g	**R**
Isooctyl isodecyl adipate (TECH)		Pz-335	10g	**R**
Isooctyl isodecyl phthalate (TECH)		Pz-51	10g	**R**
Isooctyl palmitate (TECH)		Pz-12	10g	**R**
Isooctyl stearate (TECH)		Pz-262	10g	**R**
Isooctyl thioglycolate		5445B	10g	**25103-09-7**
Isopentane		O-2144	5g	**78-78-4**
Isophorone (S.G.)		F54	5g	**78-59-1**
	100ug/mL in Methanol	F54JS	1mL	
	100ug/mL in Methanol	F54S	5mL	
Isophorone (3-methyl-d3;2,4,4,6,66-d5) (S.G.)		FD54-A	0.1g	**R**

Category Name	Specification	Catalog#	Size	CAS#
Isophorone (S.G.)		0-807	10g	**78-59-1**
Isophthalaldehyde		5669K	10mg	**626-19-7**
Isophthalic acid (S.G.)		0-86	5g	**121-91-5**
		0-86	10g	**121-91-5**
Isophthalic dihydrazide		2029L	100mg	**2760-98-7**
Iso-PPC™		PS-53	1g	**122-42-9**
Isoprene (S.G.)		0-1011	1g	**78-79-5**
		0-1011	5g	**78-79-5**
Isoprene sulfone		5439F	5g	**1193-10-8**
Isoprocarb		PS-2070	250mg	**2631-40-5**
	100ug/mL in Acetonitrile	PS-2070AJS	1mL	
	100ug/mL in Toluene	PS-2070JS	1mL	
Isopropalin (S.G.)		F2366	250mg	**33820-53-0**
	1000ug/mL in Hexane	F2366JS	1mL	
	1000ug/mL in Hexane	F2366S	5mL	
Isopropalin		PS-406	250mg	**33820-53-0**
	100ug/mL in Acetonitrile	PS-406AJS	1mL	
Isopropanol		0-168	10g	**67-63-0**
Isopropenyl acetate (S.G.)		0-436	5g	**108-22-5**
(E)-0,2-Isopropoxy-carbonyl-1-methylvinyl 0-methyl-ethyl phosp		PS-1076	100mg	**31218-83-4**
3′-Isopropoxy-2-methylbenzanilide		PS-2227	100mg	**55814-41-0**
0-Isopropoxyphenyl methyl carbamate		PS-551	1g	**114-26-1**
2-Isopropoxyphenyl-N-methylcarbamate		PS-551	1g	**114-26-1**
2-Isopropoxypropane		0-573	250mg	**108-20-3**
3-Isopropoxypropylamine		5677K	1g	**2906-12-9**
Isopropyl sulfide		5456B	5g	**625-80-9**
Iso-propyl acetate (S.G.)		F2536	5g	**108-21-4**
Iso-propyl acetate (S.G.)		0-438	10g	**108-21-4**
N-Isopropyl acrylamide		7260	10g	**2210-25-5**
Isopropyl alcohol (S.G.)		F2539	5g	**67-63-0**
Isopropyl alcohol (S.G.)		0-168	10g	**67-63-0**
Isopropylamine (S.G.)		0-2135	1g	**75-31-0**
		0-2135	5g	**75-31-0**
Isopropylamine petroleum sulfonate (TECH)		S-436	10g	**R**
1-(Isopropylamino)-3-(a-naphthoxy)-2-propanol hydrochloride		5460F	100mg	**318-98-9**
N-Isopropylaniline (S.G.)		F2419	5g	**768-52-5**
Isopropylbenzene (S.G.)		F825	5g	**98-82-8**
	100ug/mL in Methanol	F825JS	1mL	
	100ug/mL in Methanol	F825S	5mL	
Isopropylbenzene		PS-2179	1g	**98-82-8**
Isopropylbenzene		0-764	10g	**98-82-8**
4-Isopropylbenzyl alcohol		5681K	100mg	**536-60-7**
N-Isopropylbenzylamine		5464F	1g	**102-97-6**
Isopropyl bromoacetate		5689K	1g	**29921-57-1**
1-Isopropylcarbamoyl-3(3,5-dichlorophenyl)-hydantoin		PS-1052	100mg	**36734-19-7**
3-Isopropylcatechol		5693K	100mg	**2138-48-9**
N-Isopropyl-a-chloroacetanilide		PS-355	250mg	**1918-16-7**
Isopropyl-m-chlorocarbanilate		PS-52	250mg	**101-21-3**
Isopropyl-N-[m-chlorophenyl]carbamate		PS-52	250mg	**101-21-3**
N-Isopropylcyclohexylamine		5452C	10g	**1195-42-2**
Isopropyl-4,4′-dibromobenzilate		PS-1062	250mg	**18181-80-1**
Isopropyl-4,4′-dichlorobenzilate		PS-857	250mg	**5836-10-2**
	100ug/mL in Acetonitrile	PS-857AJS	1mL	
Isopropyl-2,4-dichlorophenoxy acetate		PS-43	1g	**94-11-1**
Isopropyl-3,4-diethoxycarbanilate		PS-2153	250mg	**87130-20-9**
Isopropyl diethyl malonate		5453E	5g	**759-36-4**
Isopropyl disulfide		5470F	1g	**4253-89-8**
Isopropylester of lanolin fatty acids (TECH)		S-226-1	10g	**R**
Isopropyl ether (S.G.)		F2540	250mg	**108-20-3**
Isopropyl ether (S.G.)		0-573	250mg	**108-20-3**
N-Isopropylethylenediamine		5697K	10mg	**19522-67-9**
Isopropylglycidyl ether (S.G.)		0-2321	5g	**4016-14-2**
Isopropylidene adenosine		7295F	1g	**362-75-4**
2,3:4,6-di-O-Isopropylidene-a-L-xylo-2-hexulofuranosonic acid		PS-2190	250mg	**18467-77-1**
Isopropyl isocyanate		5701K	100mg	**1795-48-8**
N-Isopropylmaleimide		5458F	1g	**29720-92-1**
Isopropyl mercaptan (S.G.)		0-2137	5g	**75-33-2**
Isopropyl 2-(4-methoxybiphenyl-3-yl)hydrazinoformate		PS-2194	250mg	**149877-41-8**
N2-Isopropyl-N4-(3-methoxypropyl)-6-methylthio-1,3,5-triazine-		PS-2122	100mg	**841-06-5**
2-(4-Isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-nicotinic aci		PS-2016	100mg	**81334-34-1**
(RS)-2-(4-Isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methoxy-methylnicotinic acid		PS-2162	250mg	**114311-32-9**
7-Isopropyl-1-methyl phenanthrene		F1052	50mg	**483-65-8**

Category Name	Specification	Catalog#	Size	CAS#
3-Isopropyl-5-methyl phenyl methyl carbamate		PS-2027	100mg	**2631-37-0**
2-Isopropyl-6-methyl-4-pyrimidinol		MET-90B	1g	**2814-20-2**
Isopropyl myristate (TECH)		Pz-5	10g	**110-27-0**
Isopropyl oleate (TECH)		Pz-220	10g	**112-11-8**
Isopropyl palmitate (TECH)		Pz-11	10g	**142-91-6**
2-Isopropylphenol		5450H	1g	**88-69-7**
3-Isopropylphenol (R.G.)		5705K	1g	**618-45-1**
Isopropyl-N-phenylcarbamate		PS-53	1g	**122-42-9**
3-(4-Isopropylphenyl)-1,1-dimethylurea		PS-2000	100mg	**34123-59-6**
N-Isopropyl-N′-phenyl-p-phenylenediamine (TECH)		0u-40	3g	**101-72-4**
		0u-40	10g	**101-72-4**
Isopropyl salicylate		5713K	10mg	**607-85-2**
Isopropyl stearate (TECH)		Pz-270	10g	**R**
p-Isopropyltoluene (S.G.)		F826	5g	**99-87-6**
	100ug/mL in Methanol	F826JS	1mL	
	100ug/mL in Methanol	F826S	5mL	
Isopropyl-2,4,5-trichlorophenoxy acetate		PS-46	100mg	**93-78-7**
Isoprothiolane		PS-2101	250mg	**50512-35-1**
	100ug/mL in Acetonitrile	PS-2101AJS	1mL	
	100ug/mL in MTBE	PS-2101JS	1mL	
Isoproturon		PS-2000	100mg	**34123-59-6**
	100ug/mL in Acetonitrile	PS-2000AJS	1mL	
Isoquinoline (S.G.)		0-698	1g	**119-65-3**
		0-698	2g	**119-65-3**
Isoquinoline-N-oxide		5721K	100mg	**1532-72-5**
Isosafrole (S.G.)		F922	1g	**120-58-1**
	100ug/mL in Methanol	F922JS	1mL	
	100ug/mL in Methanol	F922S	5mL	
Isosorbide dimethyl ether		5725K	1g	**5306-85-4**
Isostearic amido alkyl dimethylamine (TECH)		S-574	10g	**67799-04-6**
Isostearyl neopentylate (TECH)		Pz-274	10g	**R**
Isotox™		PS-71	500mg	**58-89-9**
Isovaleraldehyde (S.G.)		F2331	1g	**590-86-3**
	1000ug/mL in Acetonitrile	F2331JS	1mL	
	1000ug/mL in Acetonitrile	F2331S	5mL	
Isovaleraldehyde (S.G.)		0-2136	1g	**590-86-3**
		0-2136	5g	**590-86-3**
Isovaleraldehyde (DNPH Derivative) (S.G.)		F2350	100mg	**2256-01-1**
	100ug/mL in Acetonitrile	F2350JS	1mL	
	100ug/mL in Acetonitrile	F2350S	5mL	
Isovaleric acid (S.G.)		0-30	5g	**503-74-2**
		0-30	10g	**503-74-2**
2-Isovaleryl-1,3-indanedione		PS-911	250mg	**83-28-3**
	100ug/mL in Acetonitrile	PS-911AJS	1mL	
	100ug/mL in Toluene	PS-911JS	1mL	
Isoxaben		PS-2129	250mg	**82558-50-7**
	100ug/mL in Methanol	PS-2129JS	1mL	
Isoxadifen-ethyl		PS-2353	100mg	**163520-33-0**
Isoxaflutole		PS-2166	100mg	**141112-29-0**
	100ug/mL in Acetonitrile	PS-2166AJS	1mL	
	100ug/mL in Toluene	PS-2166JS	1mL	
Isoxazole		5729K	100mg	**288-14-2**
Itachigarden™		PS-2186	25mg	**10004-44-1**
Itaconic acid (S.G.)		0-66	5g	**97-65-4**
		0-66	10g	**97-65-4**
Ivermectin		PS-2220	100mg	**70288-86-7**
	100ug/mL in Acetonitrile	PS-2220AJS	1mL	
	100ug/mL in Toluene	PS-2220JS	1mL	
Ivomec™		PS-2220	100mg	**70288-86-7**
Janus green B/C.I.#11050		BS-7	1g	**2869-83-2**
Jarben™		PS-2125	1g	**96489-71-3**
Jodfenphos™		PS-1206	5mL	**18181-70-9**
Jonnix™		PS-1009	250mg	**3337-71-1**
JP-5 Military Fuel Solution (S.G.)	50,000ug/mL in Methylene chloride	CSRG0-692-1JS	1mL	
JP-5 Military Fuel Solution (S.G.)	5000ug/mL in Methylene chloride	CSRG0-691-1JS	1mL	
Jucutin™		PS-71	500mg	**58-89-9**
Julin's carbon chloride		PS-690	250mg	**118-74-1**
Juvinal™		PS-2110	100mg	**95737-68-1**
Kafil Super		PS-1068	100mg	**52315-07-8**
Kalcorn™		PS-2173	100mg	**97886-45-8**
Kap™		PS-2025	100mg	**2597-03-7**
Karate™		PS-2018	100mg	**91465-08-6**
Karathane™		PS-27	100mg	**39300-45-3**
Karbam black™		PS-20	250mg	**14484-64-1**
Karbam white™		PS-21	1g	**137-30-4**
Karmex™		PS-60	250mg	**330-54-1**

Category Name	Specification	Catalog#	Size	CAS#
Kelthane™ (S.G.)		PS-82	250mg	**115-32-2**
	100ug/mL in Acetonitrile	PS-82AJS	1mL	
Kemate™		PS-388	250mg	**101-05-3**
Kemifam™		PS-1014	250mg	**13684-63-4**
Kemiron™		PS-1045	250mg	**26225-79-6**
Kendo™		PS-2216	100mg	**134098-61-6**
Kepone Solution (S.G.)	100ug/mL in Hexane	F2441AJS	1mL	
	100ug/mL in Hexane	F2441AS	5mL	
	1000ug/mL in t-Butylmethyl ether	F2441JS	1mL	
	1000ug/mL in t-Butylmethyl ether	F2441S	5mL	
Kepone™ (13C10) Solution (S.G.)	100ug/mL in Nonane	FC2441S	1.2mL	
Kerb™		PS-349	1g	**23950-58-5**
Kerosene (S.G.)		O-2138	5g	**8008-20-6**
		O-2138	10g	**8008-20-6**
Kewll™		PS-71	500mg	**58-89-9**
Killaz		PS-601	500mg	**107-49-3**
Kilprop™		PS-324	100mg	**7085-19-0**
Kilval™		PS-2187	100mg	**2275-23-2**
Kimono™		PS-2126	250mg	**32809-16-8**
Kinalux™		PS-2010	250mg	**13593-03-8**
Kinetin		PS-2314	250mg	**525-79-1**
Kinoprene (S.G.)		F2521	100mg	**42588-37-4**
	1000ug/mL in t-Butylmethyl ether	F2521JS	1mL	
	1000ug/mL in t-Butylmethyl ether	F2521S	5mL	
Kinoprene		PS-2051	100mg	**42588-37-4**
	100ug/mL in Methanol	PS-2051JS	1mL	
Kiron™		PS-2216	100mg	**134098-61-6**
Kitazin™		PS-2065	250mg	**26087-47-8**
Klartan™		PS-1071	100mg	**102851-06-9**
Klerat™		PS-1056	50mg	**56073-10-0**
Kloben™		PS-377	250mg	**555-37-3**
Knack™		PS-2110	100mg	**95737-68-1**
Koltar™		PS-1033	250mg	**42874-03-3**
Kordon™		PS-2203	250mg	**65731-84-2**
Korlan™		PS-657	100mg	**299-84-3**
K-Othrin™		PS-2071	250mg	**52918-63-5**
Krenite™		PS-414	1g	**25954-13-6**
Kresoxim-methyl		PS-2182	250mg	**143390-89-0**
	100ug/mL in Acetonitrile	PS-2182AJS	1mL	
	100ug/mL in Toluene	PS-2182JS	1mL	
Kuron™		PS-47	250mg	**93-72-1**
Kusagard™		PS-1200	5mL	**66003-55-2**
Kypfarin™		PS-104	1g	**81-81-2**
Labilite™		PS-230	250mg	**23564-05-8**
Lacmoid		BS-104	1g	**42249-61-6**
Lactic acid (S.G.)		O-51	2g	**50-21-5**
Lactic acid lithium salt		5482A	1g	**867-55-0**
Lactofen		PS-2077	100mg	**77501-63-4**
	100ug/mL in Acetonitrile	PS-2077AJS	1mL	
	100ug/mL in Toluene	PS-2077JS	1mL	
Lactonitrile		F2017	5g	**78-97-7**
Lactose monohydrate		CARB-9	5g	**64044-51-5**
Lactose monohydrate (S.G.)		O-936	5g	**64044-51-5**
		O-936	10g	**64044-51-5**
(Lactoyloxy)phenylmercury		PS-216	1g	**R**
lambda-Cyhalothric acid (S.G.)		F2933	100mg	**72748-35-7**
Bifenthrin acid metabolite		MET-2003A	100mg	**72748-35-7**
Landrin™		PS-541	50mg	**2655-15-4**
Lannate™		PS-775	100mg	**16752-77-5**
Lano™		PS-2110	100mg	**95737-68-1**
Lanolin (TECH)		S-27	10g	**8006-54-0**
Lanolin alcohols (TECH)		S-311	10g	**R**
Lanolin fatty acids (TECH)		S-28	10g	**68424-43-1**
Lanthanum, (ingot)		I-7020	500mg	**7439-91-0**
Lanthanum - 4% HNO3		X10M 27-1-100	100mL	
		X10M 27-1-250	250mL	
		X10M 27-1-500	500mL	
Lanthanum - 10% HCl		X10M 27-2-100	100mL	
		X10M 27-2-250	250mL	
		X10M 27-2-500	500mL	
1% Lanthanum in 2% HCl		XRA-LA-A-A	250mL	
		XRA-LA-A-B	500mL	
1% Lanthanum in 2% HNO3		XRA-LA-B-A	250mL	
		XRA-LA-B-B	500mL	

Category Name	Specification	Catalog#	Size	CAS#
Lanthanum - La2O3, 99.999%, 2% HCl		X100027-2-A	100mL	
		X100027-2-B	250mL	
		X100027-2-C	500mL	
Lanthanum - La2O3, 99.999%, 2% HNO3		X100027-1-A	100mL	
		X100027-1-B	250mL	
		X100027-1-C	500mL	
Lanthanum ammonium nitrate		RE-130	10g	**10169-00-3**
Lanthanum chloride		I-3369	1g	**17272-45-6**
Lanthanum nitrate		I-3370	10g	**10277-43-7**
Lanthanum oxide		I-3380	10g	**1312-81-8**
Lanthanum Oxide (La2O3) 99.99%		XLA-O-A	5g	
		XLA-O-B	25g	
Lanthanum sulfate		RE-140	1g	**10099-60-2**
Laptran™		PS-1208	5mL	**5131-24-8**
Laptran™		PS-2127	100mg	**5131-24-8**
Larch turpentine		5493F	5g	**R**
Larvacide™		PS-4	1g	**76-06-2**
Larvin™		PS-2012	250mg	**59669-26-0**
Lasso™		PS-357	250mg	**15972-60-8**
Lauric acid diethanolamide (TECH)		S-674	10g	**120-40-1**
Lauric acid (S.G.)		O-18	2g	**143-07-7**
		O-18	10g	**143-07-7**
Lauric acid (TECH)		S-4	10g	**143-07-7**
Lauric acid monoethanolamide (TECH)		S-592	10g	**142-78-9**
Lauric acid monoisopropanolamide (TECH)		S-603	10g	**R**
Lauroguanamine		2002L	500mg	**R**
N-Lauroyl-p-aminophenol (TECH)		Ou-26	1g	**R**
		Ou-26	3g	**R**
Lauroyl chloride (S.G.)		O-136	5g	**112-16-3**
Lauryl alcohol (TECH)		S-301	10g	**112-53-8**
Laurylbromide		O-609	5g	**143-15-7**
Lauryldimethylamine		O-283	5g	**112-18-5**
Lauryl dimethylamine oxide (TECH)		S-552-1	5g	**70592-80-2**
Lauryldimethylbenzyl ammonium chloride (TECH)		S-618	10g	**R**
Laurylguanidine acetate		PS-250	250mg	**2439-10-3**
Lauryl isoquinolinium bromide (TECH)		S-631	10g	**93-23-2**
Lauryl lactate (TECH)		S-293	10g	**6283-92-7**
Lauryl phosphate		5500H	1g	**R**
Laurylpyridinium chloride (TECH)		S-628	10g	**104-74-5**
N-Lauryl sarcosine (TECH)		S-584	10g	**R**
Lazo™		PS-2173	100mg	**97886-45-8**
Lazo™		PS-357	250mg	**15972-60-8**
Lead metal (shot)		I-3532	10g	**7439-92-1**
Lead metal (granular)		I-3534	10g	**7439-92-1**
Lead - 4% HNO3		X10M 28-1-100	100mL	
		X10M 28-1-250	250mL	
		X10M 28-1-500	500mL	
Lead - Pb metal, 99.995%, 2% HCl, 1000ug/mL in water		X100028-2-A	100mL	
		X100028-2-B	250mL	
		X100028-2-C	500mL	
Lead - Pb metal, 99.995%, 2% HNO3		X100028-1-A	100mL	
		X100028-1-B	250mL	
		X100028-1-C	500mL	
Lead acetate anhydrous		I-3390	10g	**301-04-2**
Lead acetate monobasic		I-3395	1g	**1335-32-6**
Lead acetate trihydrate		I-60	10g	**6080-56-4**
Lead antimonate		I-3400	10g	**13510-89-9**
Lead arsenate		PS-290	1g	**7784-40-9**
Lead borate		I-3420	5g	**10214-39-8**
Lead carbonate		I-3430	10g	**598-63-0**
Lead chloride		I-61	10g	**7758-95-4**
Lead chromate		I-3440	10g	**7758-97-6**
Lead citrate		I-3450	10g	**6107-83-1**
Lead cyanate		I-3470	1g	**13453-58-2**
Lead dioxide		I-3490	10g	**1309-60-0**
Lead fluoborate-solution		I-3500	10g	**13814-96-5**
Lead fluoride		I-3510	10g	**7783-46-2**
Lead hydroxide		I-3520	10g	**1311-11-1**
Lead iodide anhydrous		I-3530	1g	**10101-63-0**
Lead maleate tribasic (TECH)		Ou-70	3g	**28957-52-0**
		Ou-70	10g	**28957-52-0**
Lead Metallic - Organic Standard 1000ug/g in Mineral Oil		XPBOMS	100g	

Category Name	Specification	Catalog#	Size	CAS#
Lead naphthenate (TECH)		S-106	10g	**61790-14-5**
Lead nitrate		I-62	10g	**10099-74-8**
Lead Nitrate (Pb(NO3)2) 99.999%		XPB-NO-S-A	5g	
		XPB-NO-S-B	25g	
Lead oleate (TECH)		S-105	10g	**1120-46-3**
Lead Oxide (PbO) 99.999%		XPB-O-A	5g	
		XPB-O-B	25g	
Lead oxide red		I-3555	10g	**1314-41-6**
Lead oxide yellow		I-63	10g	**1317-36-8**
Lead phosphite (dibasic)		I-3560	1g	**1344-40-7**
Lead phthalate (dibasic) (TECH)		Ou-68	3g	**17976-43-1**
		Ou-68	10g	**17976-43-1**
Lead Powder Pb 99.999%		XPB-MP-A	5g	
		XPB-MP-B	25g	
Lead pyrophosphate		I-3570	10g	**13453-66-2**
Lead Shot (Pb) 99.999%		XPB-MC-A	5g	
		XPB-MC-B	25g	
Lead silicofluoride		I-3590	10g	**25808-74-6**
Lead stannate		I-3600	10g	**12036-31-6**
Lead stearate (TECH)		S-104	10g	**1072-35-1**
Lead stearate (dibasic) (TECH)		Ou-69	3g	**56819-09-4**
		Ou-69	10g	**56819-09-4**
Lead sulfate		I-3610	10g	**7446-14-2**
Lead sulfide		I-3620	10g	**1314-87-0**
Lead sulfite		I-3630	10g	**7446-10-8**
Lead thiocyanate		I-3650	10g	**592-87-0**
Lead titanate		I-3655	1g	**12060-00-3**
Lebaycid™		PS-655	250mg	**55-38-9**
Lecithin (Soy Phosphatides) (TECH)		S-485	10g	**R**
Lektan™		PS-1092	100mg	**64529-56-2**
Lenacil		PS-415	100mg	**2164-08-1**
	100ug/mL in Methanol	PS-415JS	1mL	
Leniscarin		PS-66	250mg	**502-55-6**
Lentagran™		PS-2081	500mg	**55512-33-9**
Lentipur™		PS-2078	250mg	**15545-48-9**
Lepidine		5800K	100mg	**491-35-0**
Lepton™		PS-677	100mg	**21609-90-5**
Leptophos		PS-677	100mg	**21609-90-5**
	100ug/mL in Acetonitrile	PS-677AJS	1mL	
	100ug/mL in Toluene	PS-677JS	1mL	
Leptophos (S.G.)		F2117	100mg	**21609-90-5**
Leptophos oxon		MET-677A	50mg	**R**
Lethalaire™		PS-855	250mg	**80-33-1**
Lethane (S.G.)		F2390	250mg	**112-56-1**
	1000ug/mL in Hexane	F2390JS	1mL	
	1000ug/mL in Hexane	F2390S	5mL	
Lethane 384™		PS-730	250mg	**112-56-1**
Lethane™		PS-730	250mg	**112-56-1**
L-Leucinamide hydrochloride		2026L	100mg	**10466-61-2**
D-Leucine		2032L	100mg	**328-38-1**
Levulinic acid (S.G.)		O-55	2g	**123-76-2**
		O-55	10g	**123-76-2**
L-(-)-Leucine (TECH)		AA-13	1g	**61-90-5**
		AA-13	5g	**61-90-5**
L-Leucine methyl ester hydrochloride		2035L	1g	**7517-19-3**
Levulinic acid (S.G.)		O-55	2g	**123-76-2**
		O-55	10g	**123-76-2**
Levulose		O-937	2g	**57-48-7**
Lexone™		PS-398	250mg	**21087-64-9**
Liberty™		PS-2124	250mg	**77182-82-2**
Light green SF/C.I.#42095		BS-47	1g	**5141-20-8**
Limatox™		PS-2030	1g	**9002-91-9**
d-Limonene (S.G.)		O-754	2g	**5989-27-5**
		O-754	10g	**5989-27-5**
d-Limonene dimercaptan		5499A	10g	**R**
Lindane (BHC gamma isomer) (S.G.)		F104	500mg	**58-89-9**
	100ug/mL in Toluene	F104JS	1mL	
	100ug/mL in Toluene	F104S	5mL	
Lindane		PS-71	500mg	**58-89-9**
	100ug/mL in Acetonitrile	PS-71AJS	1mL	
Lindane (BHC gamma isomer) (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC104S	1.2mL	
Lindane (BHC gamma isomer) (13C6, D6) Solution (S.G.)	100ug/mL in n-Nonane	FCD104S	1.2mL	
Linear alpha olefin C14 (TECH)		S-415-1	10g	**R**
Linear alpha olefin C16 (TECH)		S-416-1	10g	**R**

Category Name	Specification	Catalog#	Size	CAS#
Linoleic acid (S.G.)		O-19	500mg	**60-33-3**
		O-19	2g	**60-33-3**
Linoleic acid (TECH)		S-12	10g	**60-33-3**
Linoleic acid diethanolamide (TECH)		S-657	5g	**56863-02-6**
Linseed oil (TECH)		Pz-109	10g	**8001-26-1**
Lintox™		PS-71	500mg	**58-89-9**
Linuron (S.G.)		F2280	250mg	**330-55-2**
	2500ug/mL in Acetonitrile	F2280JS	1mL	
	2500ug/mL in Acetonitrile	F2280S	5mL	
Linuron		PS-372	250mg	**330-55-2**
Lipan™		PS-57	1g	**534-52-1**
Liphadione™		PS-2085	250mg	**3691-35-8**
Lipidine		5495F	1g	**R**
Liquamycin injectable™		PS-2200	250mg	**2058-46-0**
Liquid Volatile Organic Compounds Mixture - 502/524,8021A,8260A	2000ug/mL in Methanol	LVOC-1JM	1mL	
	2000ug/mL in Methanol	LVOC-1M	5mL	
Liquiphene™		PS-14	1g	**62-38-4**
Lironox™		PS-42	250mg	**94-80-4**
Lithium - 1% HCl		X10M 29-2-100	100mL	
		X10M 29-2-250	250mL	
		X10M 29-2-500	500mL	
Lithium - 1% HNO3		X10M 29-1-100	100mL	
		X10M 29-1-250	250mL	
		X10M 29-1-500	500mL	
Lithium - Li2CO3, 99.999%, 1% HNO3		X100029-1-A	100mL	
		X100029-1-B	250mL	
		X100029-1-C	500mL	
Lithium - LiCl, 99.999%, 1% HCl		X100029-2-A	100mL	
		X100029-2-B	250mL	
		X100029-2-C	500mL	
Lithium (LiCl) @ 1000ug/mL in water		XIC-LI-M-A	100mL	
		XIC-LI-M-B	250mL	
		XIC-LI-M-C	500mL	
Lithium (LiCl) @ 100ug/mL in water		XIC-LI-A	100mL	
		XIC-LI-B	250mL	
		XIC-LI-C	500mL	
Lithium acetate dihydrate		I-3660	10g	**546-89-4**
Lithium acetylacetonate		I-3675	5g	**19185-99-0**
Lithium amide		I-3700	10g	**7782-89-0**
Lithium antimonyl oxalate		I-3710	1g	**R**
Lithium arsenate		I-3720	1g	**13478-14-3**
Lithium benzoate		I-3730	1g	**553-54-8**
Lithium bitartrate		I-3740	10g	**868-16-6**
Lithium borate-meta		I-3750	1g	**15293-74-0**
Lithium bromide		I-3770	10g	**7550-35-8**
Lithium Carbonate (Li2CO3) 99.999%		XLI-CO-S-A	5g	
		XLI-CO-S-B	25g	
Lithium carbonate-powder		I-64	10g	**554-13-2**
Lithium chloride		I-65	10g	**7447-41-8**
Lithium Chloride (LiCL) 99.99%		XLI-CL-S-A	5g	
		XLI-CL-S-B	25g	
Lithium citrate		I-3780	10g	**6080-58-6**
Lithium cobaltite		I-3790	1g	**12190-79-3**
Lithium cuprous iodide-in water		I-3792	1g	**R**
Lithium ethylene glycoxide		I-3800	10g	**23248-23-9**
Lithium fluoride		I-66	10g	**7789-24-4**
Lithium hexafluorostannate		I-3807	100mg	**43100-65-8**
Lithium hexafluorotitanate		I-3810	1g	**21729-09-9**
Lithium hydroxide anhydrous		I-3820	10g	**1310-65-2**
Lithium hydroxide-crystals		I-3825	10g	**1310-66-3**
Lithium manganite		I-3830	10g	**12163-00-7**
Lithium Metallic - Organic Standard 1000ug/g in Mineral Oil		XLIOMS	100g	
Lithium nitrate		I-67	10g	**7790-69-4**
Lithium Nitrate (LiNO3) 99.999%		XLI-NO-S-A	5g	
		XLI-NO-S-B	25g	
Lithium oxide		I-3850	1g	**12057-24-8**
Lithium perchlorate anhydrous		I-3855	1g	**7791-03-9**
Lithium phosphate		I-3870	10g	**10102-26-8**
Lithium silicate-meta		I-3880	1g	**10102-24-6**
Lithium silicate-ortho		I-3885	10g	**R**
Lithium silicofluoride		I-3890	1g	**17347-95-4**
Lithium stearate (TECH)		S-29	5g	**R**
Lithium sulfate		I-68	10g	**10102-25-7**
Lithium sulfide		I-3900	1g	**12136-58-2**
Lithium tartrate		I-3910	10g	**868-17-7**

Category Name	Specification	Catalog#	Size	CAS#
Lithium terephthalate		I-3915	1g	**42596-02-1**
Lithium tetrafluoroborate		I-3916	5g	**14283-07-9**
Lithium titanate		I-3930	10g	**12031-82-2**
Lithium zirconate		I-3940	5g	**12031-83-3**
Lithocholic acid		5533H	100mg	**434-13-9**
Litmus powder		5530H	1g	**1393-92-6**
Loam - Certified Reference Material (Pristine)		XCRM-LO-A	50g	
Loam - Certified Reference Solid (Elevated Concentration of Priority Pollutants)		XCRM-LO-B	50g	
Logic™		PS-2174	100mg	**79127-80-3**
Logran™		PS-2042	100mg	**82097-50-5**
Lonacol™		PS-23	1g	**12122-67-7**
Londax 10 WP Weed Killer™		PS-1082	100mg	**83055-99-6**
Lontrel		PS-1069	250mg	**1702-17-6**
	100ug/mL in Acetonitrile	PS-1069AJS	1mL	
	100ug/mL in t-Butylmethyl ether	PS-1069JS	1mL	
Lophine		5540C	1g	**484-47-9**
Lorexane™		PS-71	500mg	**58-89-9**
Lorox™		PS-372	250mg	**330-55-2**
Lufenuron		PS-2252	100mg	**103055-07-8**
	100ug/mL in Acetonitrile	PS-2252AJS	1mL	
	100ug/mL in Toluene	PS-2252JS	1mL	
Lutetium - 10% HCl		X10M 30-2-100	100mL	
		X10M 30-2-250	250mL	
		X10M 30-2-500	500mL	
Lutetium - 4% HNO3		X10M 30-1-100	100mL	
		X10M 30-1-250	250mL	
		X10M 30-1-500	500mL	
Lutetium - Lu2O3, 99.99%, 2% HCl		X100030-2-A	100mL	
		X100030-2-B	250mL	
		X100030-2-C	500mL	
Lutetium - Lu2O3, 99.99%, 2% HNO3		X100030-1-A	100mL	
		X100030-1-B	250mL	
		X100030-1-C	500mL	
Lutetium Oxide (Lu2O3) 99.99%		XLU-O-A	1g	
		XLU-O-B	5g	
2,4-Lutidine (S.G.)		O-699	2g	**108-47-4**
2,5-Lutidine		5510	1g	**589-93-5**
2,6-Lutidine (S.G.)		O-700	2g	**108-48-5**
		O-700	5g	**108-48-5**
3,5-Lutidine		5531D	10g	**591-22-0**
2,6-Lutidine-N-oxide		5530	10g	**1073-23-0**
Luxol fast blue MBS		BS-124	1g	**1328-51-4**
Lynx™		PS-1091	100mg	**107534-96-3**
DL-Lysine monohydrochloride		5500J	100mg	**70-53-1**
L-(+)-Lysine monohydrochloride (R.G.)		AA-14	1g	**657-27-2**
		AA-14	5g	**657-27-2**
L-(+)-Lysine monohydrochloride (S.G.)		O-38	2g	**657-27-2**
		O-38	10g	**657-27-2**
Lyton™		PS-2173	100mg	**97886-45-8**
D-Lyxose		CARB-11	500mg	**1114-34-7**
MAA™		PS-281	500mg	**144-21-8**
Mach 2		PS-2146	500mg	**112226-61-6**
Machete™		PS-348	100mg	**23184-66-9**
Mafu™		PS-89	250mg	**62-73-7**
Magnesium metal (70-80 mesh)		I-4012	10g	**7439-95-4**
Magnesium metal (turnings)		I-4014	10g	**7439-95-4**
Magnesium - 4% HNO3		X10M 31-1-100	100mL	
		X10M 31-1-250	250mL	
		X10M 31-1-500	500mL	
Magnesium - 10% HCl		X10M 31-2-100	100mL	
		X10M 31-2-250	250mL	
		X10M 31-2-500	500mL	
Magnesium - Mg metal 99.99%, 2% HNO3		X100031-1-A	100mL	
		X100031-1-B	250mL	
		X100031-1-C	500mL	
Magnesium - Mg metal,99.99%,2% HCl		X100031-2-A	100mL	
		X100031-2-B	250mL	
		X100031-2-C	500mL	
Magnesium	1000ug/mL in Water	XIC-MG-M-A	100mL	
		XIC-MG-M-B	250mL	
		XIC-MG-M-C	500mL	
Magnesium acetate - tetrahydrate		I-69	10g	**16674-78-5**
Magnesium acetylacetonate		I-3945	5g	**14024-56-7**
Magnesium carbonate		I-3960	10g	**546-93-0**
Magnesium Chips (Mg) 99.99%		XMG-MC-A	5g	
		XMG-MC-B	25g	

Category Name	Specification	Catalog#	Size	CAS#
Magnesium Chloride (MgCl2) 99.999%		XMG-CL-S-A	5g	
		XMG-CL-S-B	25g	
Magnesium chloride hexahydrate		I-70	10g	**7791-18-6**
Magnesium fluoborate solution		I-3980	1g	**14708-13-5**
Magnesium hydroxide		I-4005	1g	**1309-42-8**
Magnesium lauryl sulfate (TECH)		S-387	10g	**3097-08-3**
Magnesium Metallic - Organic Standard 1000ug/g in Mineral Oil		XMGOMS	100g	
Magnesium Nitrate (Mg(NO3)2 xH20) 99.999%		XMG-NO-S-A	5g	
		XMG-NO-S-B	25g	
Magnesium nitrate hexahydrate		I-71	10g	**10213-15-7**
Magnesium oleate (TECH)		S-108	10g	**1555-53-9**
Magnesium oxide		I-4030	10g	**1309-48-4**
Magnesium Oxide (MgO) 99.95%		XMG-O-A	5g	
		XMG-O-B	25g	
Magnesium perchlorate-anhydrous		I-4040	10g	**10034-81-8**
Magnesium petroleum sulfonate (TECH)		S-434	10g	**R**
Magnesium phosphate		I-4050	10g	**7782-75-4**
Magnesium salicylate		I-4060	10g	**18917-89-0**
Magnesium stearate (TECH)		S-107	5g	**557-04-0**
Magnesium sulfate-anhydrous		I-4070	10g	**7487-88-9**
Magnesium sulfate heptahydrate		I-72	10g	**10034-99-8**
Magnesium trisilicate		I-4085	1g	**R**
Magnesium Turnings (Mg) 99.99%		XMG-MT-A	5g	
		XMG-MT-B	25g	
Maintain A™		PS-1022	100mg	**2536-31-4**
Maintain CF 125™		PS-1022	100mg	**2536-31-4**
Maki™		PS-1038	100mg	**28772-56-7**
Malachite green oxalate/C.I.#42000		BS-44	1g	**2437-29-8**
Malaspray™		PS-86	500mg	**121-75-5**
Malathion		PS-86	500mg	**121-75-5**
	100ug/mL in Acetonitrile	PS-86AJS	1mL	
Malathion (S.G.)		F2118	500mg	**121-75-5**
	100ug/mL in Toluene	F2118JS	1mL	
	100ug/mL in Toluene	F2118S	5mL	
Malathion (d10)	100ug/mL in n-Nonane	FD2118S	1.2mL	
Malathion-O-analog		MET-86C	100mg	**1634-78-2**
Malathion monocarboxylic acid		MET-86D	100mg	**35884-76-5**
	100ug/mL in MTBE	MET-86B	1mL	**35884-76-5**
Malathiozol™		PS-86	500mg	**121-75-5**
Malathiozoo™		PS-86	500mg	**121-75-5**
Malathon™		PS-86	500mg	**121-75-5**
Malazide		PS-65	250mg	**123-33-1**
Maleic acid (S.G.)		O-67	5g	**110-16-7**
		O-67	10g	**110-16-7**
Maleic acid hydrazide (S.G.)		O-727	250mg	**123-33-1**
Maleic anhydride (S.G.)		F2119	5g	**108-31-6**
Maleic anhydride (S.G.)		O-128	5g	**108-31-6**
		O-128	10g	**108-31-6**
Maleic hydrazide		PS-65	250mg	**123-33-1**
	100ug/mL in Methanol	PS-65JS	1mL	
Maleimide		5535H	1g	**541-59-3**
3-Maleimidobenzoic acid N-hydroxysuccinimide ester		2788L	10mg	**58626-38-3**
L-Malic acid		2119L	100mg	**97-67-6**
dl-Malic acid (S.G.)		O-76	5g	**617-48-1**
		O-76	10g	**617-48-1**
Malix™		PS-81	500mg	**115-29-7**
Malonaldehyde bis(dimethyl acetal)		5900K	1g	**102-52-3**
Malonamide		5550	10g	**108-13-4**
Malonic acid (S.G.)		O-68	1g	**141-82-2**
		O-68	5g	**141-82-2**
Malonic acid disodium salt monohydrate		2011L	1g	**26522-85-0**
Malononitrile (S.G.)		F2018	5g	**109-77-3**
	100ug/mL in Toluene	F2018JS	1mL	
	100ug/mL in Toluene	F2018S	5mL	
Maloran™		PS-368	250mg	**13360-45-7**
D-(+)-Maltose hydrate		CARB-12	5g	**6363-53-7**
D-(+)-Maltose hydrate (S.G.)		O-938	2g	**6363-53-7**
		O-938	10g	**6363-53-7**
Manage™		PS-2108	100mg	**100784-20-1**
Mancozeb		PS-2095	500mg	**8018-01-7**
dl-Mandelic acid (S.G.)		O-106	2g	**611-72-3**
		O-106	10g	**611-72-3**
Mandipropamid		PS-2358	100mg	**374726-62-2**
Maneb		PS-22	1g	**12427-38-2**

Category Name	Specification	Catalog#	Size	CAS#
Manganese metal		I-4230	10g	**7439-96-5**
Manganese - 4% HNO3		X10M 32-1-100	100mL	
		X10M 32-1-250	250mL	
		X10M 32-1-500	500mL	
Manganese - 10% HCl		X10M 32-2-100	100mL	
		X10M 32-2-250	250mL	
		X10M 32-2-500	500mL	
Manganese - Mn metal, 99.99%, 2% HNO3		X100032-1-A	100mL	
		X100032-1-B	250mL	
		X100032-1-C	500mL	
Manganese - Mn metal,99.99%,2% HCl		X100032-2-A	100mL	
		X100032-2-B	250mL	
		X100032-2-C	500mL	
Manganese acetate		I-4100	10g	**638-38-0**
Manganese acetylacetonate		I-4110	1g	**14024-58-9**
Manganese ammonium phosphate		I-4120	10g	**13446-31-6**
Manganese benzoate		I-4140	10g	**636-13-5**
Manganese borate		I-4150	10g	**R**
Manganese (II) carbonate		I-4163	10g	**598-62-9**
Manganese Chips (Mn) 99.99+%		XMN-MC-A	5g	
		XMN-MC-B	25g	
Manganese (II) chloride tetrahydrate		I-74	10g	**13446-34-9**
Manganese difluoride		I-4190	10g	**7782-64-1**
Manganese dioxide		I-73	10g	**1313-13-9**
Manganese ethylene bis(dithiocarbamate)		PS-22	1g	**12427-38-2**
Manganese (II) hypophosphite		I-4220	1g	**10043-84-2**
Manganese Metallic - Organic Standard 1000ug/g in Mineral Oil		XMNOMS	100g	
Manganese molybdate		I-4240	10g	**14013-15-1**
Manganese monoxide		I-4250	10g	**1344-43-0**
Manganese naphthenate (TECH)		S-110	10g	**1336-93-2**
Manganese (II) nitrate		I-4260	10g	**10377-66-9**
Manganese oleate		I-4270	5g	**23250-73-9**
Manganese Oxide (MnO2) 99.999%		XMN-O-A	5g	
		XMN-O-B	25g	
Manganese (II) phosphite		I-4290	10g	**R**
Manganese phthalocyanine		3076L	500mg	**14325-24-7**
Manganese Powder (Mn) 99.99%		XMN-MP-A	5g	
		XMN-MP-B	25g	
Manganese pyrophosphate		I-4300	10g	**53731-35-4**
Manganese salicylate		I-4310	10g	**17032-49-4**
Manganese (II) silicofluoride		I-4320	10g	**25868-86-4**
Manganese stannate		I-4325	10g	**12209-35-7**
Manganese stearate (TECH)		S-109	5g	**3353-05-7**
Manganese (II) sulfate monohydrate		I-75	10g	**10034-96-5**
Manganese sulfide		I-4330	10g	**R**
Manganese tallate		I-4350	1g	**R**
Manganic acetylacetonate		2167L	500mg	**14284-89-0**
D-Mannitol		CARB-29	5g	**69-65-8**
Mannitol (S.G.)		O-200	5g	**69-65-8**
		O-200	10g	**69-65-8**
Mannitol hexacetate		5514F	1g	**642-00-2**
D-Mannosamine hydrochloride		2065L	5mg	**5505-63-5**
D-Mannose		CARB-13	5g	**3458-28-4**
Mansonil™		PS-1207	250mg	**50-65-7**
Manzate™		PS-2095	500mg	**8018-01-7**
Marathon™		PS-2133	100mg	**29091-21-2**
Marcidone™		PS-2126	250mg	**32809-16-8**
Margaric acid		O-2325	500mg	**506-12-7**
Marlate™		PS-83	250mg	**72-43-5**
Marshal™		PS-1063	250mg	**55285-14-8**
Marshal™		PS-1063	250mg	**55285-14-8**
Martius yellow/C.I.#10315		BS-3	1g	**605-69-6**
Mascot™		PS-2176	100mg	**64628-44-0**
Matacil™		PS-751	250mg	**2032-59-9**
Matador™		PS-2151	500mg	**100646-51-3**
Matador™		PS-2018	100mg	**91465-08-6**
Mataven™		PS-2038	100mg	**52756-25-9**
Mator™		PS-2134	50mg	**65733-18-8**
Mator™		PS-2134	50mg	**41096-46-2**
Matrak™		PS-2143	100mg	**56073-07-5**
Matrix™		PS-2118	100mg	**122931-48-0**
Maverick™		PS-2224	100mg	**141776-32-1**
Mavrik Aquaflow™		PS-1071	100mg	**102851-06-9**

Category Name	Specification	Catalog#	Size	CAS#
Maxim™		PS-2172	100mg	**131341-86-1**
MBTS		O-713	5g	**120-78-5**
MCP		PS-40	250mg	**94-74-6**
MCPA™		PS-40	250mg	**94-74-6**
MCPA		F966	250mg	**94-74-6**
MCPA methyl ester		PS-1105	100mg	**2436-73-9**
MCPA sodium salt		MET-40B	POR	**3653-48-3**
MCPB		PS-307	100mg	**94-81-5**
	100ug/mL in Acetonitrile	PS-307AJS	1mL	
	100ug/mL in MTBE	PS-307JS	1mL	
MCPB methyl ester		PS-1084	250mg	**57153-18-1**
	100ug/mL in Acetonitrile	PS-1084AJS	1mL	
	100ug/mL in MTBE	PS-1084JS	1mL	
MCPP™		PS-324	100mg	**7085-19-0**
MCPP methyl ester		PS-1106	100mg	**23844-56-6**
MEB		PS-22	1g	**12427-38-2**
Mecarbam		PS-2283	50mg	**2595-54-2**
	100ug/mL in Acetonitrile	PS-2283AJS	1mL	
	100ug/mL in Toluene	PS-2283JS	1mL	
	100ug/mL in Toluene	PS-2283JS	1mL	
Mechlorethamine hydrochloride		5574H	100mg	**55-86-7**
Mecoprop		PS-324	100mg	**7085-19-0**
	100ug/mL in Acetonitrile	PS-324AJS	1mL	
Mecoprop (S.G.)		F968	100mg	**7085-19-0**
	100ug/mL in Acetone	F968JS	1mL	
	100ug/mL in Acetone	F968S	5mL	
Mecoprop methyl ester (S.G.)		F969	100mg	**23844-56-6**
	100ug/mL in Methanol	F969JS	1mL	
	100ug/mL in Methanol	F969S	5mL	
Mecoprop methyl ester		PS-1106	100mg	**23844-56-6**
Mecoprop-P		PS-2116	250mg	**16484-77-8**
	100ug/mL in Acetonitrile	PS-2116AJS	1mL	
	100ug/mLin MTBE	PS-2116JS	1mL	
Mecoprop-2,4,4-trimethylpentyl ester		PS-1212	5mL	**R**
Mectizan™		PS-2220	100mg	70288-86-7
Medallion™		PS-2172	100mg	131341-86-1
Mediben™		PS-346	250mg	1918-00-9
Medifene™		PS-1014	250mg	13684-63-4
Mefenacet		PS-2140	250mg	73250-68-7
	100ug/mL in Methanol	PS-2140JS	1mL	
Mefenoxam		PS-2160	100mg	70630-17-0
	100ug/mL in Acetonitrile	PS-2160AJS	1mL	
	100ug/mL in MTBE	PS-2160JS	1mL	
Mefenpyr-diethyl		PS-2287	100mg	135590-91-9
	100ug/mL in Acetonitrile	PS-2287AJS	1mL	
	100ug/mL in Toluene	PS-2287JS	1mL	
Mefluidide		PS-2050	100mg	53780-34-0
	100ug/mL in Methanol	PS-2050JS	1mL	
MEK		O-810	5g	78-93-3
Melamine (S.G.)		O-701	5g	108-78-1
		O-701	10g	108-78-1
Melibiose		CARB-14	1g	585-99-9
Melprex™		PS-250	250mg	2439-10-3
Meltatox™		PS-1086	250mg	1593-77-7
Memory Check Solutions Kit in 2% HNO3 + Tr HF		XICP-MS-MCS-A	100mL	
		XICP-MS-MCS-B	250mL	
Menadione		V-23	1g	58-27-5
dl-Menthol (S.G.)		O-156	1g	15356-70-4
		O-156	10g	15356-70-4
Mepanipyrim		PS-2302	100mg	110235-47-7
Mepatar™		PS-2200	250mg	2058-46-0
Mephanance™		PS-40	250mg	94-74-6
Mephosfolan		PS-1026	100mg	950-10-7
	100ug/mL in Acetonitrile	PS-1026AJS	1mL	
	100ug/mL in Toluene	PS-1026JS	1mL	
Mepiquat chloride		PS-1047	10mg	24307-26-4
	100ug/mL in Water	PS-1047AJS	1mL	
Mepro™		PS-324	100mg	7085-19-0
Mepronil		PS-2227	100mg	55814-41-0
	100ug/mL in Methanol	PS-2227JS	1mL	
2-Mercaptoacetanilide		2023L	100mg	**R**
Mercaptoacetic acid		O-58	5g	**68-11-1**
Mercaptoacetic acid sodium salt		5603J	1g	**367-51-1**
Mercaptobenzene		O-978	1g	**108-98-5**
2-Mercaptobenzimidazole		5550J	1g	**583-39-1**
2-Mercaptobenzimidazole zinc salt (TECH)		Ou-77	3g	**155-04-4**
		Ou-77	10g	**155-04-4**
o-Mercaptobenzoic acid (S.G.)		O-117	1g	**147-93-3**
		O-117	10g	**147-93-3**

Category Name	Specification	Catalog#	Size	CAS#
2-Mercaptobenzothiazole (S.G.)		F2388	2g	**149-30-4**
	1000ug/mL in Methanol	F2388JS	1mL	
	1000ug/mL in Methanol	F2388S	5mL	
2-Mercaptobenzothiazole (S.G.)		0-715	2g	**149-30-4**
		0-715	5g	**149-30-4**
2-Mercaptobenzothiazole (TECH)		0u-85	3g	**149-30-4**
		0u-85	10g	**149-30-4**
2-Mercaptobenzothiazole monoethanolamine salt		PS-227	1g	**R**
2-Mercaptobenzoxazole		5920K	100mg	**2382-96-9**
Mercaptodimethur		PS-543	100mg	**2032-65-7**
1-Mercaptododecane		0-979	10g	**112-55-0**
2-Mercaptoethanol (S.G.)		0-188	5g	**60-24-2**
		0-188	10g	**60-24-2**
8-Mercaptoguanosine		2071L	25mg	**R**
1-Mercaptohexane		0-980	500mg	**111-31-9**
2-Mercapto-1-methylimidazole		5925K	1g	**60-56-0**
N-[Mercaptomethyl]phthalimide-S-[0,0-dimethyl phosphorodithioa		PS-653	1g	**732-11-6**
2-Mercapto-4-methylpyrimidine hydrochloride		5930K	100mg	**6959-66-6**
Mercapto-1-methyltetrazole sodium salt		5935K	1g	**R**
2-Mercapto-5-methyl-1,3,4-thiadiazole		5940K	10mg	**R**
1-Mercaptooctane		0-981	5g	**111-88-6**
Mercaptophos™		PS-655	250mg	**55-38-9**
3-Mercapto-1,2-propanediol		5533F	1g	**96-27-5**
2-Mercaptopropionic acid		5582E	5g	**79-42-5**
3-Mercaptopropionic acid (S.G.)		0-57	5g	**107-96-0**
2-Mercaptopurine		2188L	10mg	**R**
8-Mercaptopurine		5583J	10mg	**R**
6-Mercaptopurine riboside		2080L	25mg	**574-25-4**
4-Mercapto-1H-pyrazolo[3,4-d]pyrimidine		2083L	100mg	**5334-23-6**
4-Mercaptopyridine		2056L	100mg	**4556-23-4**
2-Mercaptopyridine-1-oxide sodium salt		5944K	1g	**3811-73-2**
2-Mercaptopyrimidine		5948K	10mg	**1450-85-7**
Mercaptosuccinic acid (S.G.)		0-80	1g	**70-49-5**
		0-80	5g	**70-49-5**
6-Mercapto-2′,3′,5′-triacetylpurine riboside		2116L	25mg	**R**
Merck Index		MI		
Mercuram™		PS-24	1g	**137-26-8**
Mercuric acetate		I-76	10g	**1600-27-7**
Mercuric bromide		I-4390	10g	**7789-47-1**
Mercuric chloranilate		I-4395	5g	**33770-60-4**
Mercuric chloride		I-77	1g	**7487-94-7**
Mercuric cyanide		I-4400	1g	**592-04-1**
Mercuric fluoride		I-4405	1g	**7783-39-3**
Mercuric iodide		I-4410	10g	**7774-29-0**
Mercuric nitrate monohydrate		I-78	1g	**7783-34-8**
Mercuric oxide-red & yellow powder		I-4420	10g	**21908-53-2**
Mercuric oxyfluoride		I-4440	10g	**28953-04-0**
Mercuric sulfate		I-4450	10g	**7783-35-9**
Mercuric thiocyanate		I-4470	10g	**592-85-8**
Mercury - 4% HNO3		X10M 33-1-100	100mL	
		X10M 33-1-250	250mL	
		X10M 33-1-500	500mL	
Mercury - Hg metal, 99.998%, 2% HNO3		X100033-1-A	100mL	
		X100033-1-B	250mL	
		X100033-1-C	500mL	
Mercury (I) chloride		I-79	10g	**7546-30-7**
Mercury Chloride (HgCl2) 99.998%		XHG-CL-S-A	2g	
		XHG-CL-S-B	10g	
Mercury Liquid Hg 99.998%		98145.451		
		XHG-M-B	25g	
Mercury Metallic - Organic Standard 50ug/g in Mineral Oil		XHGOMS	100g	
Mercury (I) nitrate		I-80	10g	**7782-86-7**
Mercury Oxide (HgO) 99.998%		XHG-O-A	5g	
		XHG-O-B	25g	
Mercury (I) sulfate		I-4460	5g	**7783-36-0**
Merfen™		PS-203	100mg	**102-98-7**
Merit™		PS-2086	500mg	**138261-41-3**
Merphenyl nitrate		PS-202	100mg	**55-68-5**
Merphos		PS-68	250mg	**150-50-5**
		PS-68	1g	**150-50-5**
Mertect™		PS-1057	1g	**148-79-8**
Merthiolate		5539F	1g	**54-64-8**
Mesamate™		PS-429	100mg	**2163-80-6**

Category Name	Specification	Catalog#	Size	CAS#
Mesitaldehyde		5587C	1g	**487-68-3**
Mesitoic acid		2017L	250mg	**480-63-7**
Mesitronitrile		5549F	100mg	**R**
Mesitylene (S.G.)		0-771	5g	**108-67-8**
2-Mesitylenesulfonic acid		2161L	500mg	**3453-83-6**
Mesityl oxide (S.G.)		F2405	5g	**141-79-7**
	1000ug/mL in Methanol	F2405JS	1mL	
	1000ug/mL in Methanol	F2405S	5mL	
Mesityl oxide (S.G.)		0-808	10g	**141-79-7**
Mesosulfuron-methyl		PS-2286	100mg	**208465-21-8**
	100ug/mL in Acetonitrile	PS-2286AJS	1mL	
	100ug/mL in Toluene	PS-2286JS	1mL	
Mesotrione		PS-2274	100mg	**104206-82-8**
	100ug/mL in Acetonitrile	PS-2274AJS	1mL	
Mestranol (S.G.)		F2145	100mg	**72-33-3**
	100ug/mL in Ethanol	F2145JS	1mL	
	100ug/mL in Ethanol	F2145S	5mL	
Mesurol™		PS-543	100mg	**2032-65-7**
Metacetaldehyde		PS-2030	1g	**9002-91-9**
Metacide™		PS-94	250mg	**298-00-0**
Metacrate™		PS-2096	100mg	**1129-41-5**
Meta-delphene™		PS-902	250mg	**134-62-3**
Metaflumizone		PS-2368	100mg	**139968-49-3**
Metalaxyl		PS-1099	100mg	**57837-19-1**
	100ug/mL in Acetonitrile	PS-1099AJS	1mL	
	100ug/mL in Toluene	PS-1099JS	1mL	
Metalaxyl-M		PS-2160	100mg	**70630-17-0**
Metaldehyde		PS-2030	1g	**9002-91-9**
	100ug/mL in Toluene	PS-2030JS	1mL	
	100ug/mL in Acetonitrile	PS-2030AJS	1mL	
Metam™		PS-221	250mg	**6734-80-1**
Metamitron		PS-2117	250mg	**41394-05-2**
	100ug/mL in Methanol	PS-2117JS	1mL	
Metam sodium		PS-221	250mg	**6734-80-1**
Metanilic acid		2044L	1g	**88-21-1**
Metanil yellow orange MNO/C.I.#13065		BS-16	1g	**587-98-4**
Metasol 30™		PS-14	1g	**62-38-4**
Metason™		PS-2030	1g	**9002-91-9**
Metasystox I		PS-1096	50mg	**919-86-8**
	100ug/mL in Acetonitrile	PS-1096AJS	1mL	
	100ug/mL in Toluene	PS-1096JS	1mL	
Meta Systox-R™		PS-641	50mg	**301-12-2**
Meta Systox R Sulfone		PS-642	100mg	**17040-19-6**
Metazachlor		PS-2312	100mg	**67129-08-2**
Metconazole		PS-2350	100mg	**125116-23-6**
Meteor™		PS-2216	100mg	**134098-61-6**
Methabenzthiazuron		PS-2048	100mg	**18691-97-9**
	100ug/mL in Acetonitrile	PS-2048AJS	1mL	
	100ug/mL Toluene	PS-2048JS	1mL	
Methacrifos		PS-2218	100mg	**30864-28-9**
	100ug/mL in Acetonitrile	PS-2218AJS	1mL	
	100ug/mL in Toluene	PS-2218JS	1mL	
Methacrolein (DNPH Derivative) (S.G.)		F2944	250mg	**R**
Methacrylamide (S.G.)		0-1012	5g	**79-39-0**
		0-1012	10g	**79-39-0**
Methacrylic acid		5590F	10g	**79-41-4**
Methacrylic acid sodium salt (S.G.)		0-1013	1g	**5536-61-8**
		0-1013	10g	**5536-61-8**
Methacrylonitrile (S.G.)		F923	5g	**126-98-7**
	100ug/mL in Methanol	F923JS	1mL	
	100ug/mL in Methanol	F923S	5mL	
Methamidophos		PS-676	100mg	**10265-92-6**
	100ug/mL in Acetonitrile	PS-676AJS	1mL	
	100ug/mL in Toluene	PS-676JS	1mL	
	100ug/mL in Toluene	PS-676JS	1mL	
Metam sodium		PS-221	250mg	**6734-80-1**
	100ug/mL in Water	PS-221AJS	1mL	
	100ug/mL in Toluene	PS-221JS	1mL	
Methanearsonic acid disodium salt		PS-281	500mg	**144-21-8**
Methanesulfonic acid (S.G.)		0-957	2g	**75-75-2**
		0-957	5g	**75-75-2**
Methanesulfonyl hydrazide		5952K	10mg	**R**
Methanol (S.G.)		F2453	5g	**67-56-1**
	100ug/mL in Methylene chloride	F2453JS	1mL	
	100ug/mL in Methylene chloride	F2453S	5mL	
Methanol (S.G.)		0-157	5g	**67-56-1**
Methanol (d4) (S.G.)		0-D157-10	10g	**811-98-3**
		0-D157-5	5g	**811-98-3**

Category Name	Specification	Catalog#	Size	CAS#
Methapyrilene hydrochloride (S.G.)		F926	1g	**135-23-9**
	100ug/mL in Methanol	F926JS	1mL	
	100ug/mL in Methanol	F926S	5mL	
Methar		PS-281	500mg	**144-21-8**
Methasan™		PS-21	1g	**137-30-4**
Methidathion		PS-679	250mg	**950-37-8**
	100ug/mL in Acetonitrile	PS-679AJS	1mL	
	100ug/mL in Toluene	PS-679JS	1mL	
	100ug/mL in Toluene	PS-679JS	1mL	
Methiocarb (S.G.)		F2042	100mg	**2032-65-7**
	100ug/mL in Methanol	F2042JS	1mL	
	100ug/mL in Methanol	F2042S	5mL	
Methiocarb		PS-543	100mg	**2032-65-7**
Methiocarb sulfone		MET-543A	50mg	**2179-25-1**
Methiocarb sulfoxide	100ug/mL in Toluene	MET-543B	5mL	**2635-10-1**
	100ug/mL in Toluene	MET-543BJS	1mL	
DL-Methionine (R.G.)		AA-15	1g	**59-51-8**
		AA-15	5g	**59-51-8**
DL-Methionine (S.G.)		O-39	2g	**59-51-8**
		O-39	10g	**59-51-8**
L-Methionine		5615F	1g	**63-68-3**
DL-Methionine sulfoxide		5590H	100mg	**62697-73-8**
L-Methioninol		2068L	25mg	**2899-37-8**
Methomyl (S.G.)		F2043	100mg	**16752-77-5**
	100ug/mL in Acetonitrile	F2043JS	1mL	
	100ug/mL in Acetonitrile	F2043S	5mL	
Methomyl		PS-775	100mg	**16752-77-5**
	100ug/mL in Toluene	PS-775JS	1mL	
Methoprotryne		PS-2122	100mg	**841-06-5**
	100ug/mL in Acetonitrile	PS-2122AJS	1mL	
	100ug/mL in MTBE	PS-2122JS	1mL	
Methoxyacetaldehyde dimethyl acetal		5956K	1g	**24332-20-5**
Methoxyacetic acid (S.G.)		O-54	1g	**625-45-6**
		O-54	5g	**625-45-6**
Methoxyacetonitrile		3166L	500mg	**1738-36-9**
3′-Methoxyacetophenone		2302L	1g	**586-37-8**
p-Methoxyacetophenone		5624F	10g	**100-06-1**
Methoxyamine hydrochloride		5973K	1g	**593-56-6**
2-Methoxyaniline		O-358	2g	**90-04-0**
4-Methoxyaniline		O-359	5g	**104-94-9**
2-Methoxyatrazine		PS-395	250mg	**1610-17-9**
p-Methoxybenzaldehyde		O-245	2g	**123-11-5**
o-Methoxybenzamide		5981K	10mg	**2439-77-2**
m-Methoxybenzamide		5983K	10mg	**5813-86-5**
p-Methoxybenzamide		5985K	100mg	**3424-93-9**
Methoxybenzene		O-581	5g	**100-66-3**
2-Methoxybenzenethiol		5627F	1g	**7217-59-6**
3-Methoxybenzenethiol		5988K	100mg	**15570-12-4**
4-Methoxybenzenethiol		5989K	500mg	**696-63-9**
m-Methoxybenzoic acid		5620	10g	**586-38-9**
o-Methoxybenzoic acid (S.G.)		O-114	1g	**579-75-9**
		O-114	5g	**579-75-9**
p-Methoxybenzoic acid		O-113	2g	**100-09-4**
o-Methoxybenzonitrile		5625F	1g	**6609-56-9**
m-Methoxybenzonitrile		5659H	100mg	**1527-89-5**
2-Methoxybenzyl alcohol		5994K	100mg	**612-16-8**
3-Methoxybenzyl alcohol		5996K	100mg	**6971-51-3**
p-Methoxybenzylamine		5629F	1g	**2393-23-9**
2(p-Methoxybenzylamino)pyridine		6000K	1g	**52818-63-0**
p-Methoxybenzyl-5-(4,6-dimethylpyrimidin-2-yl) thiolcarbonate		6008K	10mg	**41840-29-3**
2-Methoxy-4,6-bis(isopropylamino)-s-triazine		PS-386	250mg	**1610-18-0**
3-Methoxy-1-butanol (S.G.)		O-179	10g	**2517-43-3**
4-Methoxy-3-buten-2-one		5621F	1g	**4652-27-1**
3-Methoxy-1-butyl acetate (S.G.)		O-445	500mg	**4435-53-4**
		O-445	5g	**4435-53-4**
p-Methoxybutyrophenone		6012K	100mg	**R**
2-(Methoxycarbonylamino)-benzimidazole		PS-1077	100mg	**10605-21-7**
Methoxychlor		PS-83	250mg	**72-43-5**
Methoxychlor (S.G.)		F910	250mg	**72-43-5**
	100ug/mL in Methanol	F910JS	1mL	
	100ug/mL in Methanol	F910S	5mL	
o,p′-Methoxychlor		MET-83A	100mg	**R**
p,p′-Methoxychlor-olefin		MET-83B	50mg	**2132-70-9**
o-Methoxycinnamic acid		2101L	100mg	**6099-03-2**
m-Methoxycinnamic acid		2095L	100mg	**6099-04-3**
p-Methoxycinnamic acid		6016K	100mg	**830-09-1**

Category Name	Specification	Catalog#	Size	CAS#
Methoxy-DDT™		PS-83	250mg	**72-43-5**
4-Methoxy-2-6-di-tert-butylphenol		0u-15	3g	**489-01-0**
		0u-15	10g	**489-01-0**
2-Methoxy-3,6-dichlorobenzoic acid		PS-346	250mg	**1918-00-9**
2-Methoxy-3,6-dichloromethyl		PS-1102	100mg	**6597-78-0**
2-Methoxy-1,3-dioxolane		6020K	100mg	**19693-75-5**
o-Methoxydiphenyl		5625	5g	**86-26-0**
2-Methoxyethanol (S.G.)		O-178	10g	**109-86-4**
Methoxyethoxyethanol (S.G.)		O-174	5g	**111-77-3**
		O-174	10g	**111-77-3**
2-Methoxyethyl acetate (S.G.)		O-446	5g	**110-49-6**
		O-446	10g	**110-49-6**
Methoxyethyl acetyl ricinoleate (TECH)		Pz-15	10g	**R**
2-Methoxyethyl acrylate (S.G.)		O-1014	500mg	**3121-61-7**
		O-1014	2g	**3121-61-7**
Methoxyethyl adipate		5630	5g	**R**
2-Methoxyethylamine		6024K	1g	**109-85-3**
Methoxyethyl palmitate		5640A	10g	**R**
2-Methoxyethyl stearate (TECH)		Pz-255	10g	**R**
Methoxyfenozide		PS-2264	100mg	**161050-58-4**
	100ug/mL in Acetonitrile	PS-2264AJS	1mL	
	100ug/mL in Toluene	PS-2264JS	1mL	
5-Methoxy-1-indanone		6028K	10mg	**5111-70-6**
5-Methoxyindole		5632B	100mg	**1006-94-6**
2-Methoxyisopropylamine		6032K	1g	**37143-54-7**
Methoxymethoxybenzylidene cyclohexanone		5631B	10g	**R**
Methoxymethyl acetate		5632C	1g	**6290-49-9**
2-Methoxy-5-methylaniline (S.G.)		F2100	1g	**120-71-8**
	100ug/mL in Methanol	F2100JS	1mL	
	100ug/mL in Methanol	F2100S	5mL	
4-Methoxy-2-methylaniline		5650	10g	**102-50-1**
5-Methoxy-2-methylindole		5633B	100mg	**1076-74-0**
2-Methoxy-4-methylphenol		5660	1g	**93-51-6**
5-Methoxy-1-methyl-2-tetralone		5675F	200mg	**R**
1-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-3-[2-(3,3,3-trifluor		PS-2123	100mg	**94125-34-5**
2-Methoxynaphthalene (S.G.)		O-594	5g	**93-04-9**
		O-594	10g	**93-04-9**
4-Methoxy-1-naphthonitrile		2185L	250mg	**5961-55-7**
4-Methoxy-2-nitroaniline		5676F	1g	**96-96-8**
2-Methoxy-4-nitroaniline		6210	10g	**97-52-9**
2-Methoxy-5-nitroaniline (S.G.)		F2125	5g	**99-59-2**
	100ug/mL in Methanol	F2125JS	1mL	
	100ug/mL in Methanol	F2125S	5mL	
3-Methoxy-2-nitrobenzoic acid		3196L	250mg	
4-Methoxy-3-nitrobenzoic acid		6040K	100mg	**89-41-8**
2-Methoxy-5-nitropyridine		6044K	100mg	**5446-92-4**
(17a)-3-Methoxy-19-norpregma-1,3,5(10)-trien-20-yn-17-ol		F2145	100mg	**72-33-3**
2-Methoxy-N-(2-oxo-1,3-oxazolidin-3-yl)aceto-2′,6′-xylidide		PS-2137	100mg	**77732-09-3**
2-Methoxyphenol		4975B	10g	**90-05-1**
p-Methoxyphenol (S.G.)		O-887	2g	**150-76-5**
		O-887	10g	**150-76-5**
[p-Methoxyphenoxy]acetic acid		5632A	5g	**1877-75-4**
o-Methoxyphenylacetic acid		5635C	5g	**93-25-4**
4-Methoxyphenylacetic acid		2152L	1g	**104-01-8**
4-Methoxy-1,3-phenylenediamine (S.G.)		O-2416	100mg	**615-05-4**
4-Methoxy-m-phenylenediamine dihydrochloride		2380L	100mg	**614-94-8**
4-Methoxy-1,3-phenylenediamine sulfate hydrate (S.G.)		O-2398	500mg	**123333-56-2**
4-Methoxyphenyl methanol		O-220	2g	**105-13-5**
1-(o-Methoxyphenyl)piperazine dihydrochloride hydrate		6050K	500mg	**5464-78-8**
3-(p-Methoxyphenyl)propionic acid		5681E	1g	**25173-37-9**
1-Methoxy-2-propanol (S.G.)		O-180	10g	**107-98-2**
1-Methoxy-4-(1-propenyl)benzene		O-580	1g	**4180-23-8**
3-Methoxypropionitrile (S.G.)		O-845	2g	**110-67-8**
4′-Methoxypropiophenone		6052K	1g	**121-97-1**
3-Methoxypropylamine (S.G.)		O-317	5g	**5332-73-0**
2-(3-Methoxypropylamino)-5-nitropyridine		6060K	10mg	**R**
4-Methoxypyridine-N-oxide		5689B	1g	**1122-96-9**
Methyl (2,4,6-trichlorophenoxy) methyl ether (S.G.)		F2925	POR	**R**
Methyl glucoside dioleate (TECH)		S-667	10g	**82933-91-3**
Methyl glucoside sesquistearate (TECH)		S-669	10g	**68936-95-8**
Methyl o-trifluoromethylbenzoate		MET-2057A	100mg	**344-96-7**
Methyl abietate (S.G.)		O-420	5g	**127-25-3**
Methyl abietate (TECH)		Pz-1	10g	**127-25-3**
Methyl abietate (hydrogenated) (TECH)		Pz-2	10g	**R**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
N-Methylacetamide (S.G.)		0-254	2g	**79-16-3**
N-Methylacetamide (S.G.)		0-254	5g	**79-16-3**
N-Methylacetanilide		5700	10g	**579-10-2**
Methyl acetate (S.G.)		0-421	10g	**79-20-9**
Methyl acetoacetate		6068K	5g	**105-45-3**
p-Methylacetophenone (S.G.)		0-824	2g	**122-00-9**
Methyl-2-acetoxymethyl-5-benzyloxy carbonyl-4-methyl-3-pyrrolepropionate		6074K	10mg	**R**
Methyl acetyl ricinoleate (TECH)		Pz-13	10g	**R**
Methyl acrylate (S.G.)		F2434	5g	**96-33-3**
	100ug/mL in Methanol	F2434JS	1mL	
	100ug/mL in Methanol	F2434S	5mL	
Methyl acrylate (S.G.)		0-1015	10g	**96-33-3**
Methylal (S.G.)		0-3	1g	**109-87-5**
		0-3	5g	**109-87-5**
N-Methyl-b-alaninenitrile		5702F	1g	**693-05-0**
Methyl alcohol		F2453	5g	**67-56-1**
Methyl (E)-(RS)-3-[1-(allyloxyimino)butyl]-4-hydroxy-6,6-dimet		PS-1200	5mL	**66003-55-2**
Methylamine hydrochloride (S.G.)		0-290	2g	**593-51-1**
		0-290	10g	**593-51-1**
Methyl-p-aminobenzoate		5708B	1g	**619-45-4**
p-Methylamino benzoic acid		5706E	1g	**10541-83-0**
Methyl-3-amino-2,5-dichlorobenzoate		PS-1113	100mg	**7286-84-2**
2-Methylaminoethanol (S.G.)		0-313	5g	**109-83-1**
2-Methylaminoethyl chloride hydrochloride		2209L	250mg	**4535-90-4**
2-(Methylaminoethyl)pyridine		6084K	100mg	**5638-76-6**
2-Methylamino-5-nitropyridine		6088K	10mg	**R**
p-Methylaminophenol sulfate		5711F	5g	**55-55-0**
2-(Methylamino)pyridine		6092K	100mg	**4597-87-9**
4-(Methylamino)pyridine		6094K	10mg	**R**
Methyl amyl ketone		0-804	2g	**110-43-0**
N-Methylaniline (S.G.)		0-348	1g	**100-61-8**
N-Methylaniline (S.G.)		0-348	5g	**100-61-8**
2,N-Methylanilinoethanol		6098K	1g	**93-90-3**
N-Methyl-p-anisidine		6102K	10mg	**5961-59-1**
m-Methylanisole		6105K	1g	**100-84-5**
2-Methylanthracene (S.G.)		F1035	100mg	**613-12-7**
	100ug/mL in Toluene	F1035JS	1mL	
	100ug/mL in Toluene	F1035S	5mL	
9-Methylanthracene (S.G.)		F1036	100mg	**779-02-2**
	100ug/mL in Toluene	F1036JS	1mL	
	100ug/mL in Toluene	F1036S	5mL	
Methyl anthranilate (S.G.)		PS-2055	100mg	**134-20-3**
	100ug/mL in Methanol	PS-2055JS	1mL	
N-Methylanthranilic acid		6112K	1g	**119-68-6**
2-Methylanthraquinone		5708A	10g	**84-54-8**
N-Methylbenzamide		6116K	100mg	**613-93-4**
Methyl benzenesulfonate (S.G.)		0-970	500mg	**80-18-2**
		0-970	5g	**80-18-2**
Methyl benzilate		6120K	1g	**76-89-1**
2-Methylbenzimidazole		5714F	1g	**615-15-6**
5-Methylbenzimidazole		5710F	200mg	**614-97-1**
2-Methylbenzimidazole hydrochloride		5707E	1g	**R**
Methyl benzoate (S.G.)		F2271	5g	**93-58-3**
	500ug/mL in Methanol	F2271JS	1mL	
	500ug/mL in Methanol	F2271S	5mL	
Methyl benzoate (S.G.)		0-534	10g	**93-58-3**
4-Methylbenzophenone		5709F	1g	**134-84-9**
Methyl-p-benzoquinone		6124K	1g	**553-97-9**
2-Methylbenzothiazole (S.G.)		0-716	1g	**120-75-2**
		0-716	10g	**120-75-2**
N-Methylbenzothiazole-2-thione		6128K	100mg	**2254-94-6**
3-Methyl-2-benzothiazolinone hydrazone hydrochloride monohydrate		2797L	100mg	**4338-98-1**
3-Methylbenzothiazol-2-one hydrazone		2041L	250mg	**1128-67-2**
Methyl N-benzoyl-N-(3-chloro-4-fluorophenyl)-DL-ananinate		PS-2038	100mg	**52756-25-9**
dl-a-Methylbenzyl alcohol (S.G.)		0-216	2g	**98-85-1**
m-Methylbenzyl alcohol		6134K	100mg	**587-03-1**
o-Methylbenzyl alcohol		6136K	100mg	**89-95-2**
p-Methylbenzyl alcohol		2151F	1g	**589-18-4**
d-(+)-a-Methylbenzylamine		5713F	1g	**3886-69-9**
dl-a-Methylbenzylamine		5705H	1g	**618-36-0**
l-(-)-a-Methylbenzylamine		5712F	1g	**2627-86-3**
4-Methylbenzylamine		6140K	1g	**104-84-7**

Category Name	Specification	Catalog#	Size	CAS#
a-Methylbenzyl cyanide		6144K	100mg	**1823-91-2**
1-Methylbenzyl-3-[dimethoxyphosphinyloxy]cis-crotonate		PS-603	50mg	**7700-17-6**
a-Methylbenzyl-3-hydroxycrotonate dimethylphosphate		PS-603	50mg	**7700-17-6**
2-Methyl biphenyl (S.G.)		F1037	100mg	**643-58-3**
	100ug/mL in Hexane	F1037JS	1mL	
	100ug/mL in Hexane	F1037S	5mL	
3-Methyl biphenyl (S.G.)		F1038	100mg	**643-93-6**
	100ug/mL in Hexane	F1038JS	1mL	
	100ug/mL in Hexane	F1038S	5mL	
4-Methyl biphenyl (S.G.)		F1039	100mg	**644-08-6**
	100ug/mL in Hexane	F1039JS	1mL	
	100ug/mL in Hexane	F1039S	5mL	
2-Methylbiphenyl-3yl-methyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-tr		PS-2003	100mg	**82657-04-3**
Methyl bis(2-hydroxyethyl)coco ammonium chloride (TECH)		S-614-1	10g	**R**
Methyl bromide Solution (S.G.)	10,000ug/mL in Methanol	F46AJS	1mL	
	10,000ug/mL in Methanol	F46AS	5mL	
	100ug/mL in Methanol	F46JS	1mL	
	100ug/mL in Methanol	F46S	5mL	
Methylbromide	10,000ug/mL in Methanol	PS-155	5mL	**74-83-9**
Methyl bromoacetate (S.G.)		F2081	5g	**96-32-2**
	100ug/mL in t-Butylmethyl ether	F2081JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2081S	5mL	
Methyl-p-bromobenzoate		5730	5g	**619-42-1**
Methyl bromochloroacetate (S.G.)		F2029	10mg	**20428-74-4**
	100ug/mL in t-Butylmethyl ether	F2029JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2029S	5mL	
Methyl-4-bromocrotonate		5715F	1g	**1117-71-1**
Methyl bromodichloroacetate (S.G.)	100ug/mL in t-Butylmethyl ether	F2513JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2513S	5mL	
Methyl-2-bromopropionate (S.G.)		F2445	1g	**5445-17-0**
	2000ug/mL in t-Butylmethyl ether	F2445JS	1mL	
	2000ug/mL in t-Butylmethyl ether	F2445S	5mL	
Methyl-3-bromopropionate		6156K	1g	**3395-91-3**
3-Methyl-1,2-butadiene (S.G.)		0-2140	100mg	**598-25-4**
**** 2-Methyl-1,3-butadiene see 0-1011 Isoprene**		0-1011	1g	**78-79-5**
2-Methylbutane (S.G.)		0-2144	5g	**78-78-4**
2-Methyl-1-butanol (S.G.)		0-2142	5g	**137-32-6**
		0-2142	10g	**137-32-6**
2-Methyl-2-butanol		0-141	10g	**75-85-4**
3-Methyl-1-butanol		0-140	10g	**123-51-3**
3-Methyl-2-butanol		5722F	1g	**598-75-4**
3-Methyl-2-butanone (S.G.)		0-2145	5g	**563-80-4**
		0-2145	10g	**563-80-4**
2-Methyl-1-butene (S.G.)		0-2143	1g	**563-46-2**
		0-2143	5g	**563-46-2**
2-Methyl-2-butene (S.G.)		0-2146	1g	**513-35-9**
		0-2146	5g	**513-35-9**
3-Methyl-1-butene (S.G.)		0-2141	1g	**563-45-1**
		0-2141	5g	**563-45-1**
2-Methyl-3-buten-2-ol		6160K	1g	**115-18-4**
3-Methyl-1-buten-3-ol		5728J	1g	**R**
3-Methyl-2-buten-1-ol		5729F	100mg	**556-82-1**
3-Methyl-3-buten-1-ol		5730F	1g	**763-32-6**
2-Methyl butyl acetate		1525J	5g	**624-41-9**
3-Methyl butyl acetate		0-406	2g	**123-92-2**
Methyl-1-[butylcarbamoyl]-2-benzimidazole carbamate		PS-222	100mg	**17804-35-2**
Methyl tert-butyl ether		F909	1g	**1634-04-4**
Methyl butyl ketone		F708	2g	**591-78-6**
2-Methyl-3-butyn-2-ol (S.G.)		0-158	10g	**115-19-5**
Methyl butyrate (S.G.)		0-422	2g	**623-42-7**
		0-422	5g	**623-42-7**
2-Methylbutyric acid		6164K	100mg	**116-53-0**
3-Methyl butyric acid		0-30	5g	**503-74-2**
Methyl carbamate		1999L	1g	**598-55-0**
3-Methyl catechol		5733F	1g	**488-17-5**
4-Methyl catechol		6168K	1g	**452-86-8**
4-Methylcatechol (methyl-d3) (S.G.)		FD7005-A	0.1g	**R**
Methyl cellulose		5737F	1g	**9004-67-5**
Methyl chloride (S.G.)	100ug/mL in Methanol	F45JS	1mL	
	100ug/mL in Methanol	F45S	5mL	
Methyl chloroacetate (S.G.)		F2079	5g	**96-34-4**
	100ug/mL in t-Butylmethyl ether	F2079JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2079S	5mL	
Methyl-2-chloroacetoacetate		6172K	1g	**4755-81-1**
Methyl-4-chloroacetoacetate		6176K	1g	**32807-28-6**
Methyl-a-chloroacrylate		5721H	500mg	**80-63-7**

Category Name	Specification	Catalog#	Size	CAS#
Methyl-m-chlorobenzoate		6178K	100mg	2905-65-9
Methyl-o-chlorobenzoate		5742F	1g	610-96-8
Methyl-4-chlorobutyrate		5743F	1g	3153-37-5
Methyl chlorodibromoacetate	100ug/mL in t-Butylmethyl ether	F2515JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2515S	5mL	
Methyl 3-chloro-2-(5-ethoxy-7-fluoro[1,2,4] triazolo[1,5-c]-pyrimidin-2-ylsulfonamido)benzoate		PS-2165	100mg	147150-35-4
Methyl chloroform		F11	100mg	71-55-6
Methyl 2-chloro-9-hydroxyfluorene-9-carboxylate		PS-1022	100mg	2536-31-4
4-(2-Methyl-4-chlorophenoxy)butyric acid		PS-307	100mg	94-81-5
3-Methyl cholanthrene (S.G.)		F924	10mg	56-49-5
	100ug/mL in Toluene	F924JS	1mL	
	100ug/mL in Toluene	F924S	5mL	
6-Methylchrysene (S.G.)		F2566	10mg	1705-85-7
	100ug/mL in Methylene chloride	F2566JS	1mL	
	100ug/mL in Methylene chloride	F2566S	5mL	
a-Methylcinnamaldehyde		5750	10g	101-39-3
Methyl cinnamate (S.G.)		O-535	2g	103-26-4
		O-535	10g	103-26-4
a-Methylcinnamic acid		6184K	10mg	1199-77-5
p-Methylcinnamic acid		5745F	1g	1866-39-3
6-Methylcoumarin		6200K	1g	92-48-8
Methyl crotonate		5747F	1g	623-43-8
Methyl cyanoacetate		5755B	10g	105-34-0
Methyl-2-cyanobenzoate		5753E	1g	R
Methylcyclohexane (S.G.)		F2412	2g	108-87-2
	1000ug/mL in Methanol	F2412JS	1mL	
	1000ug/mL in Methanol	F2412S	5mL	
Methylcyclohexane (S.G.)		O-745	2g	108-87-2
2-Methyl-1,3-cyclohexanedione		2050L	500mg	1193-55-1
1-Methylcyclohexanol		5749F	1g	590-67-0
2-Methylcyclohexanol (S.G.)		O-159	2g	583-59-5
3-Methylcyclohexanol (S.G.)		O-160	5g	591-23-1
4-Methylcyclohexanol (S.G.)		O-161	2g	589-91-3
2-Methylcyclohexanone (S.G.)		O-2150	1g	583-60-8
		O-2150	5g	583-60-8
3-Methylcyclohexanone (S.G.)		O-2153	5g	591-24-2
		O-2153	10g	591-24-2
4-Methylcyclohexanone (S.G.)		O-2151	1g	589-92-4
		O-2151	5g	589-92-4
1-Methylcyclohexene (S.G.)		O-2152	1g	591-49-1
4-Methylcyclohexene (S.G.)		O-755	1g	591-47-9
2-Methylcyclohexylamine		6215K	1g	7003-32-9
N-Methylcyclohexylamine (S.G.)		O-291	2g	100-60-7
4-Methylcyclohexylamine		6188K	1g	6321-23-9
1-(2-Methylcyclohexyl)-3-phenylurea		PS-373	1g	1982-49-6
Methylcyclopentadiene dimer		6192K	1g	26472-00-4
Methylcyclopentane (S.G.)		O-746	1g	96-37-7
		O-746	5g	96-37-7
2-Methyl-1,3-cyclopentanedione		5758F	1g	765-69-5
3-Methyl-1,2-cyclopentanedione		6196K	100mg	765-70-8
1-Methylcyclopentanol		5759F	1g	1462-03-9
1-Methylcyclopropanecarboxylic acid		6225K	10mg	6914-76-7
S-Methyl-L-cysteine		2059L	250mg	1187-84-4
2-Methyl decane (S.G.)		O-2147	500mg	6975-98-0
		O-2147	1g	6975-98-0
4-Methyl decane (S.G.)		O-2149	250mg	2847-72-5
Methyl decanoate (S.G.)		O-423	1g	110-42-9
		O-423	10g	110-42-9
5-Methyl-2,4-diaminoanisole		5780	10g	5349-76-8
Methyl dibromoacetate (S.G.)		F2030	100mg	6482-26-4
	100ug/mL in t-Butylmethyl ether	F2030JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2030S	5mL	
N-Methyldibutylamine		5752H	100mg	3405-45-6
Methyl dichloroacetate (S.G.)		F2080	5g	116-54-1
	100ug/mL in t-Butylmethyl ether	F2080JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2080S	5mL	
Methyl-3,5-dichlorobenzoate		PS-1114	100mg	2905-67-1
Methyl-4-(2,4-dichlorophenoxy)butyrate		PS-1101	100mg	18625-12-2
Methyl-5-(2,4-dichlorophenoxy)-2-nitrobenzoate		PS-311	250mg	42576-02-3
Methyl-2-[4-(2',4'-dichlorophenoxy)phenoxy] propanoate		PS-1036	250mg	51338-27-3
Methyl-2-(2,4-dichlorophenoxy)propionate		PS-1103	100mg	57153-17-0
Methyl-N-(3,4-dichlorophenyl)carbamate		PS-1098	250mg	1918-18-9
Methyl-a,b-dichloropropionate		6230K	1g	3674-09-7
Methyl-2,2-dichloropropionate		PS-1100	100mg	17640-02-07
Methyl diethanolamine		5762C	10g	105-59-9

Category Name	Specification	Catalog#	Size	CAS#
Methyl 2-difluoromethyl-5-(4,5-dihydro-1,3-thiazol-2-yl)-4-isobutyl-6-trifluoromethylnicotinate		PS-2163	500mg	117718-60-2
Methyl-2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl)-4(or 5)-methyl ester benzoic acid		PS-2195	100mg	81405-85-8
Methyl-2,4-dihydroxybenzoate		5760H	1g	2150-47-2
Methyl-3,5-dihydroxybenzoate		6239K	1g	2150-44-9
Methyl dimethoxyacetate		5784F	1g	89-91-8
Methyl 2-[[[[[(4.6-dimethoxy-2-pyrimidinyl)amino] carbonyl]amino]sulfonyl]methyl]benzoate		PS-1082	100mg	83055-99-6
Methyl 5-[[(4,6-dimethoxy-2-pyrimidinyl)amino] carbonylaminosulfonyl]-3-chloro-1-methyl-1H-pyrazole-4-carboxylate		PS-2108	100mg	100784-20-1
Methyl-2,2-dimethyl-3-hydroxy-propionate		6244K	100mg	14002-80-3
S-methyl-N',N'-dimethyl-N-(methylcarbamoyloxy)-1-thio-oxamimidate		PS-737	250mg	23135-22-0
N,N-Dimethyl-2-methylcarbamoyloxyimino-2-(methythio)acetamide		PS-737	250mg	23135-22-0
Methyl 2(((((4.6-dimethyl-2-pyrimidinyl) amino)carbonyl)amino)sulfonyl)benzoate		PS-1074	100mg	74222-97-2
N-Methyl 0,0-dimethylthiolophosphoryl-5-thia-3-methyl-2-valeramide		PS-2187	100mg	2275-23-2
2-Methyl-4,6-dinitrophenol		F60	1g	534-52-1
Methyl diphenyl phosphate (TECH)		Pz-660	1g	115-89-9
Methyldisulfide		O-2311	1g	624-92-0
Methyl docosanoate (S.G.)		O-2340	100mg	929-77-1
Methyl-dodecanate		O-426	10g	111-82-0
Methyldodecylbenzyl trimethyl ammonium chloride (TECH)		S-617	10g	1399-80-0
Methyl Dursban		PS-418	250mg	5598-13-0
Methyl eicosanoate (S.G.)		O-2338	100mg	1120-28-1
N,N'-Methylene bis(acrylamide)		5775F	5g	110-26-9
2,2'-Methylene bis(6-tert-butyl-4-ethylphenol) (TECH)		Ou-12	1g	88-24-4
		Ou-12	10g	88-24-4
2,2'-Methylene bis(6-tert-butyl-4-methylphenol) (TECH)		Ou-13	3g	119-47-1
		Ou-13	10g	119-47-1
4,4'-Methylene bis(o-chloroaniline) (S.G.)		F950	100mg	101-14-4
	100ug/mL in Methanol	F950JS	1mL	
	100ug/mL in Methanol	F950S	5mL	
2,2'-Methylene bis(4-chlorophenol)		PS-6	250mg	97-23-4
4,4'-Methylene bis(2,6-di-tert-butylphenol) (TECH)		Ou-14	3g	118-82-1
		Ou-14	10g	118-82-1
4,4'-Methylene bis(N,N-dimethylaniline) (S.G.)		F2120	1g	101-61-1
	100ug/mL in Methanol	F2120JS	1mL	
	100ug/mL in Methanol	F2120S	5mL	
4,4'-Methylene bis(3-hydroxy-2-naphthoic acid) disodium salt		5787F	5g	6640-22-8
S,S'-Methylene bis[0,0-diethyl phosphorodithioate]		PS-92	250mg	563-12-2
2,2'-Methylene bis(3,4,6-trichlorophenol)		PS-1035	250mg	70-30-4
Methylene blue/C.I.#52015		BS-82	1g	61-73-4
Methylene bromide		O-633	10g	74-95-3
Methylene chloride (S.G.)		F44	5g	75-09-2
	100ug/mL in Methanol	F44JS	1mL	
	100ug/mL in Methanol	F44S	5mL	
Methylene chloride (S.G.)		O-648	2g	75-09-2
		O-648	5g	75-09-2
Methylene chloride (13C) (S.G.)		FC44-B	0.5g	R
		FC44-C	0.25g	R
Methylene chloride (d2) (S.G.)		FD44-5	5g	1665-00-5
		FD44-10	10g	1665-00-5
Methylenediamine dihydrochloride		5802F	1g	57166-92-4
4,4'-Methylenedianiline (S.G.)		O-349	2g	101-77-9
		O-349	5g	101-77-9
3,4-(Methylenedioxy)aniline		2077L	100mg	14268-66-7
1,2-Methylenedioxy-4-[2-(octylsulfinyl)propyl]benzene		PS-976	100mg	120-62-7
3.4-Methylene-dioxy-6-propylbenyzl n-butyl diethylene glycol ether		PS-100	100mg	51-03-6
Methylene di-p-phenylene diisocyanate (S.G.)		O-2162	5g	101-68-8
		O-2162	10g	101-68-8
5,5'-Methylene disalicyclic acid		5803F	10g	122-25-8
2-Methyleneglutaronitrile		5825	5g	1572-52-7
Methylene green/C.I.#52020		BS-158	1g	2679-01-8
Methylene violet/C.I.#50205		BS-160	100mg	2516-05-4
[[(1-Methyl-1,2-ethanediyl)bis[carbamodithioato]](2-)]zinc homopolymer		PS-2062	250mg	9016-72-2
Methyl 2-((4-ethoxy-6-methylamino-1,3,5-triazin-2-yl) carbamoylsulfamoyl)benzoate		PS-2183	100mg	97780-06-8
1-Methyl ethyl acetate		O-438	10g	108-21-4
(1-Methylethyl)benzene		PS-2179	1g	98-82-8
3-(1-Methylethyl)-1H-2.1.3-benzothiadiazin-4(3H)-one-2.2-dioxide		PS-1011	250mg	25057-89-0
1-Methylethyl (3,4-diethoxyphenyl) carbamate/Isopropyl 3,4-diethoxyphenylcarbamate		PS-2153	250mg	87130-20-9
N-Methylethylenediamine		3103L	100mg	109-81-9
1-Methylethyl-2-[[ethoxy[(1-methylethyl)amino] phophinothioyl]-oxy]benzoate		PS-1003	100mg	25311-71-1
Methyl ethyl ketone (S.G.)		O-810	5g	78-93-3

Category Name	Specification	Catalog#	Size	CAS#
1-Methylethyl 2-(4-methoxy[1,1′-biphenyl]-3-yl)hydrazinecarboxylate		PS-2194	250mg	149877-41-8
Methyl-p-ethylphenyl ether		5729J	500mg	622-60-6
2-(1-Methylethyl)phenyl methylcarbamate		PS-2070	250mg	2631-40-5
a-(1-Methylethyl)-a-[4-trifluoromethoxy)phenyl]-5-pyrimidineme		PS-2131	100mg	56425-91-3
1-Methyl fluorene (S.G.)		F1040	100mg	1730-37-6
	100ug/mL in Toluene	F1040JS	1mL	
	100ug/mL in Toluene	F1040S	5mL	
Methyl fluorene-9-carboxylate		5807F	100mg	R
N-Methylformamide		5810	10g	123-39-7
N-Methylformanilide		6243K	1g	
Methyl formate (S.G.)		F2537	5g	107-31-3
Methyl formate (S.G.)		O-424	10g	107-31-3
2-Methylfuran (S.G.)		O-571	1g	534-22-5
5-Methylfurfural		6245K	1g	620-02-0
N-Methyl-d-glucamine		6249K	1g	6284-40-8
Methyl-a-D-glucopyranoside		CARB-44	5g	97-30-3
Methyl-b-D-glucopyranoside		CARB-45	1g	709-50-2
Methyl green/C.I.#42590		BS-54	1g	14855-76-6
Methylguanidine sulfate		5782F	1g	R
Methyl heneicosanoate (S.G.)		O-2339	100mg	6064-90-0
Methyl heptadecanoate (S.G.)		O-2336	500mg	1731-92-6
2-Methyl heptane (S.G.)		O-2156	500mg	592-27-8
3-Methyl heptane (S.G.)		O-2157	250mg	589-81-1
4-Methyl heptane (S.G.)		O-2158	500mg	589-53-7
Methyl heptanoate (S.G.)		O-2332	1g	106-73-0
3-Methyl-2-heptanone (S.G.)		O-2155	500mg	2371-19-9
5-Methyl-3-heptanone (S.G.)		F2406	1g	541-85-5
	1000ug/mL in Methanol:Water (90:10)	F2406JS	1mL	
	1000ug/mL in Methanol:Water (90:10)	F2406S	5mL	
5-Methyl-3-heptanone (S.G.)		O-2154	1g	541-85-5
		O-2154	5g	541-85-5
2-Methyl-1-heptene (S.G.)		O-2159	100mg	15870-10-7
2-Methyl-2-heptene (S.G.)		O-2160	100mg	627-97-4
trans-2-Methyl-3-heptene (S.G.)		O-2161	100mg	692-96-6
		O-2161	500mg	692-96-6
1-Methylheptylamine		5824F	1g	
Methyl hexadecanoate		O-431	5g	112-39-0
2-Methyl-1,5-hexadiene (S.G.)		O-2163	100mg	4049-81-4
		O-2163	500mg	4049-81-4
2-Methylhexane (S.G.)		O-2167	500mg	591-76-4
3-Methyl hexane (S.G.)		O-2168	100mg	589-34-4
		O-2168	500mg	589-34-4
Methyl hexanoate (S.G.)		O-425	1g	106-70-7
4-Methyl-2-hexanone (S.G.)		O-2166	100mg	105-42-0
5-Methyl-2-hexanone (S.G.)		O-2165	1g	110-12-3
		O-2165	5g	110-12-3
2-Methyl-1-hexene (S.G.)		O-2169	100mg	6094-02-6
2-Methyl-2-hexene (S.G.)		O-2170	100mg	2738-19-4
trans-2-Methyl-3-hexene (S.G.)		O-2171	100mg	692-24-0
3-Methyl-1-hexene (S.G.)		O-2172	100mg	3404-61-3
cis-3-Methyl-2-hexene (S.G.)		O-2174	500mg	10574-36-4
		O-2174	1g	10574-36-4
4-Methyl-1-hexene (S.G.)		O-2173	100mg	3769-23-1
5-Methyl-1-hexene (S.G.)		O-2175	100mg	3524-73-0
Methyl hexyl ketone		O-811	5g	111-13-7
1-Methylhydantoin		6253K	100mg	616-04-6
Methyl hydrazine (S.G.)		O-2176	1g	60-34-4
Methylhydrazine sulfate		2062L	25mg	302-15-8
Methyl hydrazinocarboxylate		5828C	10g	6294-89-9
Methylhydroquinone		6256K	100mg	95-71-6
Methyl-3-hydroxy-a-mercapto-b-methylcinnimate		6262K	10mg	R
Methyl-p-hydroxybenzoate (S.G.)		F2279	2g	99-76-3
	500ug/mL in Methanol	F2279JS	1mL	
	500ug/mL in Methanol	F2279S	5mL	
Methyl-p-hydroxybenzoate (S.G.)		O-551	2g	99-76-3
		O-551	10g	99-76-3
Methyl-m-hydroxycarbanilate m-methylcarbanilate		PS-1014	250mg	13684-63-4
N-Methylhydroxylamine hydrochloride		5826F	1g	4229-44-1
o-Methylhydroxylaminehydrochloride		5973K	1g	593-56-6
4,4′,4″-Methylidyne tris(N,N-dimethylaniline)		5830F	1g	603-48-5
4-Methylimidazole		2341L	500mg	822-36-6
2-Methyl imidazole		5835	10g	693-98-1

Category Name	Specification	Catalog#	Size	CAS#
4-Methyl-5-imidazolemethanol hydrochloride		6265K	1g	38585-62-5
3,3′-(Methylimino)bispropylamine		5837A	5g	105-83-9
1-Methylindene (S.G.)		F2469	10mg	767-59-9
	100ug/mL in Methanol	F2469JS	1mL	
	100ug/mL in Methanol	F2469S	5mL	
1-Methyl-1-indene		F1041	10mg	767-60-2
3-Methyl indene (S.G.)		F1041	10mg	767-60-2
	100ug/mL in Toluene	F1041JS	1mL	
	100ug/mL in Toluene	F1041S	5mL	
1-Methylindole		5840F	100mg	603-76-9
3-Methylindole		5838B	1g	83-34-1
5-Methylindole		5839B	100mg	614-96-0
7-Methylindole		5840	1g	933-67-5
1-Methylindole-2-carboxylic acid		6268K	100mg	16136-58-6
Methyl iodide (S.G.)		F981	1g	74-88-4
	100ug/mL in Methanol	F981JS	1mL	
	100ug/mL in Methanol	F981S	5mL	
Methyl iodide (S.G.)		O-649	1g	74-88-4
Methyl-p-iodobenzoate		5841B	5g	619-44-3
Methyl isoamyl ketone		O-2165	1g	110-12-3
2-Methylisoborneol (S.G.)		F2906	20mg	R
	100ug/mL in Methanol	F2906JS	1mL	
2-Methylisoborneol Solution (S.G.)				
	100ug/mL in Methanol	F2906JS	1mL	
Methyl isobutyl ketone (S.G.)		O-809	10g	108-10-1
Methyl isobutyl ketone		F710	5g	108-10-1
Methyl isobutyrate		5830H	1g	547-63-7
Methyl isocyanate (S.G.)		O-2179	100mg	624-83-9
Methyl isopropyl ketone		O-2145	5g	563-80-4
Methyl isothiocyanate		MET-221A	1g	556-61-6
S-Methylisothiourea hemisulfate		6271K	100mg	867-44-7
o-Methylisourea hydrogen sulfate		6274K	100mg	29427-58-5
Methyl isovalerate		5831H	1g	556-24-1
5-methyl-3(2H)-isoxazolone		PS-2186	25mg	10004-44-1
Methyl laurate (S.G.)		O-426	10g	111-82-0
N-Methylmaleimide		6277K	10mg	930-88-1
Methyl mandelate		5850E	10g	771-90-4
Methyl-a-D-mannopyranoside		CARB-46	5g	617-04-9
Methyl mercaptan	1000ug/mL in Methanol	F2529JS	1mL	
	1000ug/mL in Methanol	F2529S	5mL	
2-(Methylmercapto)aniline		6280K	1g	2987-53-3
3-(Methylmercapto)aniline		5843C	10g	1783-81-9
2-Methyl-mercaptophenol		5839H	1g	1073-29-6
4-Methylmercaptophenol		5980	10g	1073-72-9
Methyl methacrylate (S.G.)		F982	5g	80-62-6
	100ug/mL in Methanol	F982JS	1mL	
	100ug/mL in Methanol	F982S	5mL	
Methyl methacrylate (S.G.)		O-1016	10g	80-62-6
Methyl methanesulfonate (S.G.)		F925	1g	66-27-3
	100ug/mL in Methylene chloride	F925JS	1mL	
	100ug/mL in Methylene chloride	F925S	5mL	
R-(+)-Methyl methanesulfonylpropionate		6286K	10mg	R
Methyl N-(methoxyacetyl)-N-(2,6-xylyl)-D-alaninate		PS-2160	100mg	70630-17-0
Methyl-o-methoxybenzoate		5847F	1g	606-45-1
Methyl(E)-2-methoxyimino-[2-(o-tolyloxymethyl)phenyl]acetate		PS-2182	250mg	143390-89-0
Methyl 2[[[[(4-methoxy-6-methyl-1.3.5-triazin-2-yl) amino]carbonyl]amino]sulfonyl]benzoate		PS-1078	100mg	74223-64-6
Methyl 3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl-carbamoyl) sulfamoyl)-thiophen-2-carboxylate		PS-2011	100mg	79277-27-3
Methyl 2-[[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino		PS-2099	250mg	101200-48-0
5-Methyl-2-(1-methyethyl)cyclohexanol		O-156	1g	15356-70-4
1-Methyl-4-(methylamino)piperidine		6289K	250mg	73579-08-5
1-Methyl-4-(methylamino)piperidine dihydrochloride (S.G.)		O-2425	250mg	R
S-Methyl-N-[(methylcarbamoyl)oxy]thioacetimidate		PS-775	100mg	16752-77-5
Methyl 3-(3-methylcarbaniloyloxy) carbanilate		PS-1014	250mg	13684-63-4
1-Methyl-4-(1-methylethenyl)cyclohexene		O-754	2g	5989-27-5
2-Methyl-N-(3-(1-methylethoxy)phenyl)benzamide		PS-2227	100mg	55814-41-0
Methyl(1-methylethyl)benzene		O-765	10g	99-87-6
Methyl-2-methyllactate		5844F	1g	2110-78-3
Methyl methylsulfinylmethyl sulfide		5848F	1g	R
2-Methyl-2-(methylsulfonyl)propanal-O-[(methylamino)carbonyl]oxime		PS-1055	10mg	1646-88-4
2-Methyl-2-(methylsulfoxo)propanal-O-[(methylamino)carbonyl]oxime		PS-1054	10mg	1646-87-3
2-Methyl-2-[methylthio]propionaldehyde-O-[methylcarbamoyl]oxim		PS-734	10mg	116-06-3

Category Name	Specification	Catalog#	Size	CAS#
N-Methyl-monitor™		PS-676-1	50mg	**28167-49-9**
N-Methylmorpholine (S.G.)		O-318	5g	**109-02-4**
Methyl myristate (S.G.)		F2265	1g	**124-10-7**
	5000ug/mL in t-Butylmethyl ether	F2265JS	1mL	
	5000ug/mL in t-Butylmethyl ether	F2265S	5mL	
Methyl myristate (S.G.)		O-427	1g	**124-10-7**
		O-427	10g	**124-10-7**
1-Methylnaphthalene (S.G.)		F1066	2g	**90-12-0**
	100ug/mL in Toluene	F1066JS	1mL	
	100ug/mL in Toluene	F1066S	5mL	
1-Methylnaphthalene (S.G.)		O-787	2g	**90-12-0**
1-Methylnaphthalene (d10) (S.G.)		FD1066-1	1g	**R**
2-Methylnaphthalene (S.G.)		F709	2g	**91-57-6**
	100ug/mL in Methanol	F709JS	1mL	
	100ug/mL in Methanol	F709S	5mL	
2-Methylnaphthalene (S.G.)		O-788	2g	**91-57-6**
		O-788	10g	**91-57-6**
2-Methylnaphthalene (13C6) Solution (S.G.)	100ug/mL in n-Nonane	FC709S	1.2mL	
2-Methylnaphthalene (d10) Solution (S.G.)	200ug/mL in Isooctane	FD709S	1.2mL	
Methyl-1-naphthalene acetate		PS-30	1g	**2876-78-0**
	100ug/mL in Methanol	PS-30AJS	1mL	
	100ug/mL in Toluene	PS-30JS	1mL	
2-Methyl-1,4-naphthaquinone		V-23	1g	**58-27-5**
N-Methyl-N-1-naphthyl acetamide		PS-352	1g	**R**
	100ug/mL in Methanol	PS-352JS	1mL	
Methyl neopentyl glycol		5845F	5g	**R**
Methyl nicotinate		5849F	1g	**93-60-7**
2-Methyl-3-nitroaniline		5870E	1g	**603-83-8**
4-Methyl-3-nitroaniline		5876E	1g	**119-32-4**
N-Methyl-o-nitroaniline		6301K	10mg	**612-28-2**
N-Methyl-p-nitroaniline		6298K	1g	**100-15-2**
2-Methyl-5-nitroaniline		F934	1g	**99-55-8**
3-Methyl-2-nitroanisole		6305K	100mg	**5345-42-6**
Methyl-m-nitrobenzoate		5872E	10g	**618-95-1**
2-Methyl-6-nitrobenzoic acid		6307K	100mg	**13506-76-8**
3-Methyl-2-nitrobenzoic acid		2038L	1g	**5437-38-7**
3-Methyl-4-nitrobenzoic acid		6310K	1g	**3113-71-1**
3-Methyl-6-nitrobenzoic acid		5871E	5g	**3113-72-2**
2-Methyl-3-nitrobenzyl alcohol		6313K	10mg	**23876-13-3**
3-Methyl-4-nitrobenzyl alcohol		6316K	10mg	**80866-75-7**
2-Methyl-5-nitroimidazole		5865F	1g	**696-23-1**
3-Methyl-4-nitrophenol		MET-678B	1g	**2581-34-2**
2-Methyl-5-nitrophenylisocyanate		5878E	1g	**R**
2-Methyl-2-nitro-1-propanol		6319K	1g	**76-39-1**
N-Methyl-N-nitrosoaniline (S.G.)		O-370	500mg	**614-00-6**
		O-370	5g	**614-00-6**
5-Methyl-4-nitroso-2-isopropylphenol		6570	1g	**2364-54-7**
N-Methyl-N-nitroso-N′-nitroguanidine (S.G.)		O-2392	100mg	**70-25-7**
N-Methyl-N-nitroso-p-toluenesulfonamide		5877A	5g	**80-11-5**
N-Methyl-N-nitrosourea (R.G.)		5878C	1g	**684-93-5**
4-Methyl-3-nitrourethane		5877F	5g	**R**
Methyl nonadecanoate (S.G.)		O-2337	100mg	**1731-94-8**
2-Methyl nonane (S.G.)		O-2177	100mg	**871-83-0**
		O-2177	500mg	**871-83-0**
3-Methyl nonane		5841H	500mg	**5911-04-6**
4-Methyl nonane (S.G.)		O-2178	500mg	**17301-94-9**
Methyl nonanoate (S.G.)		O-428	500mg	**1731-84-6**
		O-428	2g	**1731-84-6**
Methyl octadecadienoate (TECH)		Pz-278	10g	**R**
Methyl octadecanoate		O-433	2g	**112-61-8**
Methyl octadecenoate		O-430	500mg	**112-62-9**
N-Methyl-N-octadecylamine		2107L	100mg	**2439-55-6**
3-Methyl octane (S.G.)		O-2184	500mg	**2216-33-3**
		O-2184	1g	**2216-33-3**
4-Methyl octane (S.G.)		O-2185	500mg	**2216-34-4**
Methyl octanoate (S.G.)		O-429	5g	**111-11-5**
		O-429	10g	**111-11-5**
2-Methyl-1-octene (S.G.)		O-2197	500mg	**4588-18-5**
		O-2197	1g	**4588-18-5**
Methyl oleate (S.G.)		O-430	500mg	**112-62-9**
		O-430	1g	**112-62-9**
Methyl oleate (TECH)		Pz-6	10g	**112-62-9**
Methyl orange 1% in Methanol/C.I.#13025		BS-15	1g	**547-58-0**
5-methyl-1,2-oxazol-3-ol		PS-2186	25mg	**10004-44-1**

Category Name	Specification	Catalog#	Size	CAS#
Methyloxirane		O-572	1g	**75-56-9**
(S)-2-Methyl-4-oxo-3-(2-propynyl)-cyclopent-1-yl (1R)-cis-tran		PS-2109	10mg	**23031-36-9**
Methyl palmitate (S.G.)		O-431	5g	**112-39-0**
		O-431	10g	**112-39-0**
Methyl paraben		O-551	2g	**99-76-3**
Methyl paraoxon		PS-613	100mg	**950-35-6**
Methyl parathion (S.G.)		F996	250mg	**298-00-0**
	100ug/mL in Acetonitrile	F996JS	1mL	
	100ug/mL in Acetonitrile	F996S	5mL	
Methyl parathion		PS-94	250mg	**298-00-0**
	100ug/mL in Toluene	PS-94JS	1mL	
Methyl pentadecanoate (S.G.)		O-2335	100mg	**7132-64-1**
2-Methyl-1,4-pentadiene (S.G.)		O-2190	100mg	**763-30-4**
trans-3-Methyl-1,3-pentadiene (S.G.)		O-2189	25mg	**2787-43-1**
3-Methyl-1,4-pentadiene (S.G.)		O-2191	500mg	**1115-08-8**
		O-2191	1g	**1115-08-8**
2-Methylpentane (S.G.)		F2186	500mg	**107-83-5**
	100ug/mL in Methanol	F2186JS	1mL	
	100ug/mL in Methanol	F2186S	5mL	
2-Methylpentane (S.G.)		O-736	500mg	**107-83-5**
		O-736	5g	**107-83-5**
3-Methylpentane (S.G.)		F2187	1g	**96-14-0**
	100ug/mL in Methanol	F2187JS	1mL	
	100ug/mL in Methanol	F2187S	5mL	
3-Methylpentane (S.G.)		O-737	1g	**96-14-0**
		O-737	5g	**96-14-0**
2-Methyl-2,4-pentanediol		5880	10g	**107-41-5**
3-Methyl-1,5-pentanediol		5885B	10g	**4457-71-0**
2-Methyl-1-pentanol (S.G.)		O-2186	1g	**105-30-6**
		O-2186	5g	**105-30-6**
2-Methyl-3-pentanol (S.G.)		O-2187	1g	**565-67-3**
3-Methyl-3-pentanol (S.G.)		O-2188	1g	**77-74-7**
		O-2188	5g	**77-74-7**
2-Methyl-4-pentanol		O-162	10g	**108-11-2**
4-Methyl-2-pentanol (S.G.)		O-162	10g	**108-11-2**
2-Methyl-3-pentanone (S.G.)		O-2192	1g	**565-69-5**
4-Methyl-2-pentanone (S.G.)		F710	5g	**108-10-1**
	100ug/mL in Methanol:Water (90:10)	F710JS	1mL	
	100ug/mL in Methanol:Water (90:10)	F710S	5mL	
4-Methyl-2-pentanone (DNPH Derivative) (S.G.)		F2915	100mg	**R**
2-Methyl-1-pentene (S.G.)		O-2181	5g	**763-29-1**
2-Methyl-2-pentene (S.G.)		O-2182	1g	**625-27-4**
3-Methyl-1-pentene (S.G.)		O-2194	500mg	**760-20-3**
3-Methyl-1-pentene (S.G.)		O-2194	1g	**760-20-3**
cis-3-Methyl-2-pentene (S.G.)		O-2195	100mg	**922-62-3**
trans-3-Methyl-2-pentene (S.G.)		O-2196	500mg	**616-12-6**
4-Methyl-1-pentene (S.G.)		O-2183	1g	**691-37-2**
		O-2183	5g	**691-37-2**
4-Methyl-2-pentene (S.G.)		O-2193	1g	**4461-48-7**
		O-2193	5g	**4461-48-7**
4-Methyl-4-penten-2-ol		5893F	100mg	**R**
4-Methyl-3-penten-2-one		O-808	10g	**141-79-7**
3-Methyl-1-pentyn-3-ol (S.G.)		O-163	1g	**77-75-8**
1-Methylphenanthrene (S.G.)		F1042	100mg	**832-69-9**
	100ug/mL in Toluene	F1042JS	1mL	
	100ug/mL in Toluene	F1042S	5mL	
2-Methyl phenanthrene (S.G.)		F2470	POR	**2531-84-2**
	100ug/mL in Toluene	F2470JS	1mL	
	100ug/mL in Toluene	F2470S	5mL	
4-Methylphenanthrene (S.G.)		F2572	25mg	**832-64-4**
p-Methylphenethyl alcohol		6331K	100mg	**699-02-5**
2-Methylphenol (S.G.)		F711	5g	**95-48-7**
	100ug/mL in Methanol	F711JS	1mL	
	100ug/mL in Methanol	F711S	5mL	
3-Methyl phenol		F987	5g	**108-39-4**
4-Methylphenol (S.G.)		F712	5g	**106-44-5**
	100ug/mL in Methanol	F712JS	1mL	
	100ug/mL in Methanol	F712S	5mL	
1-Methyl-2-phenoxyethylamine		6334K	10mg	**35205-54-0**
2-[1-Methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine		PS-2110	100mg	**95737-68-1**
2-Methyl phenyl acetate		O-542	500mg	**533-18-6**
3-Methyl phenyl acetate		O-543	500mg	**122-46-3**
4-Methyl phenyl acetate		O-544	1g	**140-39-6**
Methyl N-phenylacetyl-N-2,6-xylyl-DL-alaninate		PS-2142	250mg	**71626-11-4**
N-Methyl-p-phenylenediamine dihydrochloride		2014L	250mg	**5395-70-0**
N-Methyl-o-phenylenediamine dihydrochloride		6337K	100mg	**25148-68-9**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
N-Methyl-N-phenylformamide		5901F	1g	93-61-8
4-Methylphenylisothiocyanate		6346K	100mg	622-59-3
5-Methyl-3-phenylisoxazole-4-carboxylic acid		6349K	1g	1136-45-4
dl-2-Methyl phenyl methanol		O-216	2g	98-85-1
3-Methyl-1-phenyl-5-pyrozolene		5895F	1g	89-25-8
3-Methyl-1-phenyl-2-pyrazolin-5-one		5895F	1g	89-25-8
Methyl phenyl sulfide		5892F	1g	100-68-5
Methyl phenyl sulfone		5899F	200mg	3112-85-4
1-Methyl-3-phenyl-5-(3-trifluoromethyl)phenyl)-4(1H)-pyridinon		PS-1070	100mg	59756-60-4
Methylphosphoramidothioic acid, O,S-dimethyl ester		PS-676-1	50mg	28167-49-9
3'-Methylphthalanilic acid		PS-50	1g	85-72-3
Methyl phthalate		PS-901	1g	131-11-3
4-Methylphthalic anhydride		5900F	100mg	19438-61-0
Methylphthalyl ethylglycolate (TECH)		Pz-77	10g	R
Methyl picolinate		3250L	50mg	2459-07-6
6-Methylpicolinic acid		5907F	1g	R
6-Methyl-2-picolyl-methylamine		5908F	250mg	6971-57-9
6-Methyl-2-picolyl-methylamine hydrochloride (S.G.)		O-2424	250mg	R
N-Methyl piperazine		5910	10g	109-01-3
2-Methylpiperidine (S.G.)		O-292	1g	109-05-7
		O-292	10g	109-05-7
3-Methylpiperidine		6361K	1g	626-56-2
4-Methylpiperidine		6364K	1g	626-58-4
N-Methylpiperidine		MET-1047A	1g	626-67-5
3-(2-Methylpiperidino)propyl-3,4-dichlorobenzoate		PS-409	1g	3478-94-2
1-Methyl-4-piperidone		5912F	1g	1445-73-4
6-Methyl-2-piperidone		6367K	10mg	R
2-Methyl-2-propanethiol (S.G.)		O-2013	1g	75-66-1
2-Methyl-1-propanol		O-143	10g	78-83-1
2-Methyl-2-propanol		O-145	10g	75-65-0
N-Methylpropargylamine		6376K	100mg	35161-71-8
N-Methyl-n-propargylbenzylamine		5926F	100mg	555-57-7
2-Methyl-2-propene-1-ol		5931F	1g	513-42-8
2-Methylpropene trimer		8330	1g	7756-94-7
Methyl propiolate		6379K	10mg	922-67-8
N-Methylpropionamide		5930	10g	1187-58-2
Methyl propionate (S.G.)		O-432	2g	554-12-1
		O-432	10g	554-12-1
2-Methylpropionic acid		O-6	10g	79-31-2
Methyl propyl acetate		O-2008	5g	105-46-4
Methyl-N-propylamine		6382K	10mg	627-35-0
Methyl propyl ketone		O-812	2g	107-87-9
2-Methylpyrazine (S.G.)		O-702	500mg	109-08-0
		O-702	10g	109-08-0
3-Methyl-2-pyrazolin-5-one		6386K	100mg	108-26-9
4-Methyl-2-pyrazolin-5-one		6388K	10mg	13315-23-6
2-Methylpyridine-d7 (S.G.)		F2552	10mg	93951-93-0
2-Methyl pyridine		O-703	10g	109-06-8
3-Methyl pyridine		O-704	10g	108-99-6
4-Methyl pyridine		O-705	10g	108-89-4
1-Methyl-2-pyridone		5944F	1g	694-85-9
Methyl-2-pyridylacetate		5945F	1g	1658-42-0
1-Methyl-2-[3-pyridyl]pyrrolidine		PS-85	1g	54-11-5
4-Methylpyrimidine		3270L	100mg	
N-Methylpyrrole		5948F	1g	96-54-8
N-Methylpyrrole-2-carboxaldehyde		5949F	1g	1192-58-1
N-Methylpyrrole-2-carboxylic acid		5950F	1g	6973-60-0
N-Methylpyrrolidine		6391K	1g	120-94-5
2-Methylpyrrolidine		6394K	10mg	R
1-Methyl-3-pyrrolidinol		6400K	10mg	13220-33-2
5-Methyl-2-pyrrolidinone		6403K	10mg	108-27-0
1-Methyl-2-pyrrolidinone (S.G.)		O-2313	5g	872-50-4
Methylpyruvate		6397K	1g	600-22-6
7-Methylquinoline		5955B	1g	612-60-2
2-Methylquinoxaline		5960	5g	7251-61-8
6-Methyl-2,3-quinoxalinedithiol cyclic-S,S,-dithiocarbonate		PS-860	100mg	2439-01-2
3-Methyl-2-quinoxalinol		2149L	1g	14003-34-0
Methyl red/C.I.#13020		BS-14	1g	493-52-7
Methyl red sodium salt		6406K	100mg	845-10-3

Category Name	Specification	Catalog#	Size	CAS#
5-Methylresorcinol		5953F	1g	504-15-4
2-Methylresorcinol		5965E	10g	608-25-3
Methylsalicylate (S.G.)		O-552	5g	119-36-8
5-Methylsalicylic acid		5962E	5g	89-56-5
Methyl stearate (S.G.)		O-433	2g	112-61-8
Methyl stearate (S.G.)		O-433	5g	112-61-8
Methyl stearate (TECH)		Pz-16	10g	112-61-8
b-Methylstyrene (R.G.)		6409K	100mg	637-50-3
trans-b-Methylstyrene		6412K	10mg	873-66-5
2-Methylstyrene (S.G.)		F2426	10mg	611-15-4
	1000ug/mL in Methanol	F2426JS	1mL	
	1000ug/mL in Methanol	F2426S	5mL	
4-Methylstyrene (S.G.)		F2427	10mg	622-97-9
	1000ug/mL in Methanol	F2427JS	1mL	
	1000ug/mL in Methanol	F2427S	5mL	
a-Methyl styrene (S.G.)		F2392	5g	98-83-9
	1000ug/mL in Methanol	F2392S	5mL	
a-Methyl styrene (S.G.)		O-1017	10g	98-83-9
a-Methylstyrene polymer (TECH)		Pz-153	10g	25014-31-7
Methyl succinic acid		5951F	1g	498-21-5
Methylsuccinic anhydride		5952F	1g	4100-80-5
4-Methyl-2-sulfanilamido-pyrimidine		5954F	1g	R
Methyl sulfanilylcarbamate		PS-1009	250mg	3337-71-1
Methyl sulfide (S.G.)		O-2314	5g	75-18-3
Methylsulfonylacetonitrile		6421K	10mg	2274-42-2
4-[Methylsulfonyl]-2,6-dinitro-N,N-di-propylaniline		PS-358	250mg	4726-14-1
2-Methylsulfonyl-4-trifluoromethyl benzoic acid		MET-2166B	100mg	142994-06-7
1-(Methylsulfonyl-4-trifluoromethyl phenyl)-2-cyano-3-cyclopropyl propyl-1,3 dio		MET-2166A	100mg	143701-75-1
Methyl sulfoxide (S.G.)		O-976	10g	67-68-5
Methylsulfuric acid potassium salt (S.G.)		O-944	500mg	562-54-9
		O-944	5g	562-54-9
N-Methyl-Tamaron™		PS-676-1	50mg	28167-49-9
Methyl tetracosanoate (S.G.)		O-2342	100mg	2442-49-1
Methyl tetradecanoate		O-427	1g	124-10-7
2-Methyl-3,3,4,4-tetrafluoro-2-butanol		5959F	1g	29553-26-2
2-Methyltetrahydrofuran		O-575	2g	96-47-9
2-Methyl-2-thiazoline		5972F	1g	2346-00-1
Methyl-2-thienyl ketone		5969F	1g	88-15-3
(Methylthio)acetonitrile		6424K	1g	35120-10-6
p-(Methylthio)benzoic acid		6427K	100mg	13205-48-6
4-(Methylthio)-m-cresol		5970	10g	3120-74-9
Methyl thiocyanate		5975E	10g	556-64-9
Methyl thioglycolate		6430K	1g	2365-48-2
2-Methylthio-2-imidazoline hydrochloride		5970F	1g	R
2-Methyl-3-thiomethyl-1,4-naphthoquinone		5971F	100mg	R
3-Methyl thiophene		5974F	1g	616-44-4
5-Methyl-2-thiophenecarboxaldehyde		6433K	100mg	13679-70-4
4-(Methylthio)phenol		5980	10g	1073-72-9
N-Methyl-thiophosphoramidic acid, O,S-dimethyl ester		PS-676-1	50mg	28167-49-9
3-(Methylthio)propylamine		3100L	1g	4104-45-4
2-Methyl-2-thiopseudourea sulfate		5992A	5g	R
4-Methyl-3-thiosemicarbazide		5978F	1g	6610-29-3
5-Methyl-2-thiouracil		5950J	1g	R
6-Methyl-2-thiouracil		5960J	1g	56-04-2
N-Methylthiourea		6001C	1g	598-52-7
4-[Methylthio]-3,5-xylyl-N-methylcarbamate		PS-543	100mg	2032-65-7
Methyl-p-toluate		5981F	1g	99-75-2
N-Methyl-p-toluenesulfonamide		6000	10g	640-61-9
Methyl 4-toluenesulfonate (S.G.)		O-971	2g	80-48-8
N-Methyl-o-toluidine		6442K	100mg	611-21-2
N-Methyl-m-toluidine		6444K	100mg	696-44-6
N-Methyl-p-toluidine		6446K	10mg	623-08-5
5-Methyl-1,2,4-triazolo-[3,4,b]-benzothiazole		PS-1083	50mg	41814-78-2
Methyl tribromoacetate (S.G.)		F2511	100mg	3222-05-7
	100ug/mL in t-Butylmethyl ether	F2511JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2511S	5mL	
Methyltrichloroacetate (S.G.)		F2028	1g	598-99-2
	100ug/mL in t-Butylmethyl ether	F2028JS	1mL	
	100ug/mL in t-Butylmethyl ether	F2028S	5mL	
Methyl-2,2,2-trichloroacetimidate		6449K	1g	2533-69-9

Category Name	Specification	Catalog#	Size	CAS#
Methyltricosanoate (S.G.)		O-2341	50mg	**2433-97-8**
Methyl tridecanoate (S.G.)		O-2334	250mg	**1731-88-0**
Methyl-3.4.5-trimethoxybenzoate		5989J	1g	**1916-07-0**
Methyl trimethylacetate		5985F	5g	**598-98-1**
Methyltriphenyl phosphonium bromide		6005B	10g	**1779-49-3**
Methyl undecanoate (S.G.)		O-2333	1g	**1731-86-8**
Methyl 10-undecenate		6452K	500mg	**111-81-9**
Methyl undecenoate (S.G.)		O-434	2g	**111-81-9**
Methylurea		6010	10g	**598-50-5**
Methyl valerate (S.G.)		O-2331	1g	**624-24-8**
2-Methylvaleric acid		6455K	10mg	**97-61-0**
**** Methyl vinyl ether & Maleic anhydride copolymer see 4897K Gantrez AN-139**				
Methyl vinyl ketone		6025	5g	**78-94-4**
Methyl violet 2B/C.I.#42535		BS-52	1g	**8004-87-3**
Methyl viologen		PS-366	500mg	**1910-42-5**
Methyl-a-D-xylopyranoside		CARB-47	1g	**91-09-8**
Methyl-b-D-xylopyranoside		CARB-48	1g	**612-05-5**
N-Methyl-N'-2.4-xylyl-N-(N-2.4-xylylformimidoyl)formamidine		PS-1005	250mg	**33089-61-1**
Methyl Yellow		BS-6	1g	**60-11-7**
3-methoxycarbonylaminophenyl 3-methylcarbanilate		PS-1014	250mg	**13684-63-4**
3-methoxycarbonylaminophenyl 3-methylcarbanilate		PS-1014	250mg	**13684-63-4**
3-methoxycarbonylaminophenyl 3-methylcarbanilate		PS-1014	250mg	**13684-63-4**
3-methoxycarbonylaminophenyl 3-methylcarbanilate		PS-1014	250mg	**13684-63-4**
Metiram		PS-225	250mg	**9006-42-2**
Metiram		PS-225	250mg	**9006-42-2**
Metobromuron		PS-374	250mg	**3060-89-7**
Metobromuron Solution	100ug/ml in Acetonitrile	PS-374AJS	1mL	
Metobromuron Solution	100ug/ml in Toluene	PS-374JS	1mL	
Metolachlor		PS-403	100mg	**51218-45-2**
Metolachlor Solution	100ug/ml in Acetonitrile	PS-403AJS	1mL	
Metolachlor (S.G.)		F2241	100mg	**51218-45-2**
Metolachlor Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2241JS	1ml	
Metolachlor (S.G.)	100ug/ml in t-Butylmethyl ether	F2241S	5ml	
Metolachlor (ring 13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC2241S	1.2ml	
Metolachlor OA		MET-403D	10mg	**152019-73-3**
Metolachlor ESA sodium salt		MET-403C	25mg	**171118-09-5**
Metolachlor ESA sodium salt Solution	100ug/mL in Methanol	MET-403CJS	1mL	
Metolachlor OA Solution	100ug/mL in Methanol	MET-403DJS	1mL	
Metolcarb		PS-2096	100mg	**1129-41-5**
Metolcarb Solution	100ug/ml in Acetonitrile	PS-2096AJS	1mL	
Metolcarb Solution	100ug/ml in Toluene	PS-2096JS	1mL	
Metoxuron		PS-2178	250mg	**19937-59-8**
Metoxuron Solution	100ug/ml in Acetonitrile	PS-2178AJS	1mL	
Metoxuron Solution	100ug/ml in Toluene	PS-2178JS	1mL	
Metribuzin		PS-398	250mg	**21087-64-9**
Metribuzin Solution	100ug/ml in Acetonitrile	PS-398AJS	1mL	
Metribuzin (S.G.)		F2237	250mg	**21087-64-9**
Metribuzin Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2237JS	1ml	
Metribuzin (S.G.)	100ug/ml in t-Butylmethyl ether	F2237S	5ml	
Metrifonate		PS-608	1g	**52-68-6**
Metron*		PS-94	250mg	**298-00-0**
Metronidazole		6460K	100mg	**443-48-1**
Metsulfuron methyl		PS-1078	100mg	**74223-64-6**
Metsulfuron methyl Solution	100ug/ml in Acetonitrile	PS-1078AJS	1mL	
Metsulfuron methyl Solution	100ug/ml in Toluene	PS-1078JS	1mL	
Metycaine hydrochloride		5999F	100mg	**533-28-8**
Mevinphos (S.G.)		F2066	250mg	**7786-34-7**
Mevinphos (S.G.)		PS-87	250mg	**7786-34-7**
Mevinphos		PS-87	250mg	**7786-34-7**
	** Mevinphos see F2066 Phosdrin			
MGK 264		PS-962	250mg	**113-48-4**
MGK 264 (TM) Solution	100ug/ml in Acetonitrile	PS-962AJS	1mL	
0.1% Mg(NO3)2 in 1% HNO3		XMM-9010-A	100ml	
0.1% Mg(NO3)2 in 1% HNO3		XMM-9010-B	250ml	
0.1% Mg(NO3)2 in 1% HNO3		XMM-9010-C	500ml	
1% Mg(NO3)2 in 1% HNO3		XMM-9011-A	100ml	
1% Mg(NO3)2 in 1% HNO3		XMM-9011-B	250ml	
1% Mg(NO3)2 in 1% HNO3		XMM-9011-C	500ml	
5% Mg(NO3)2 in 1% HNO3		XMM-9012-A	100ml	
5% Mg(NO3)2 in 1% HNO3		XMM-9012-B	250ml	
5% Mg(NO3)2 in 1% HNO3		XMM-9012-C	500ml	
10,000ug NH4H2PO4/mL-500ug Mg(NO3)2/mL in 1% HNO3		XMM-9110-A	100ml	
10,000ug NH4H2PO4/mL-500ug Mg(NO3)2/mL in 1% HNO3		XMM-9110-B	250ml	
10,000ug NH4H2PO4/mL-500ug Mg(NO3)2/mL in 1% HNO3		XMM-9110-C	500ml	
1500ug Pd/mL-1000ug Mg(NO3)2/mL in 10% HNO3		XMM-9101-A	100ml	
1500ug Pd/mL-1000ug Mg(NO3)2/mL in 10% HNO3		XMM-9101-B	250ml	
1500ug Pd/mL-1000ug Mg(NO3)2/mL in 10% HNO3		XMM-9101-C	500ml	
1000ug Pd/mL-600ug Mg(NO3)2/mL in 10% HNO3		XMM-9100-A	100ml	
1000ug Pd/mL-600ug Mg(NO3)2/mL in 10% HNO3		XMM-9100-B	250ml	
1000ug Pd/mL-600ug Mg(NO3)2/mL in 10% HNO3		XMM-9100-C	500ml	
750ug Pd/mL-500ug Mg(NO3)2/mL in 10% HNO3		XMM-9102-A	100ml	
750ug Pd/mL-500ug Mg(NO3)2/mL in 10% HNO3		XMM-9102-B	250ml	
750ug Pd/mL-500ug Mg(NO3)2/mL in 10% HNO3		XMM-9102-C	500ml	
MGK 264 (TM) (S.G.)		F2239	250mg	**113-48-4**
MGK 264 (TM) Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2239JS	1ml	
MGK 264 (TM) (S.G.)	100ug/ml in t-Butylmethyl ether	F2239S	5ml	
MGK 326*		PS-906	250mg	**136-45-8**
MGK 326 (TM) (S.G.)		F2381	250mg	**136-45-8**
MGK 326 (TM) Solution (S.G.)	1000ug/ml in Methanol	F2381JS	1ml	
MGK 326 (S.G.)	1000ug/ml in Methanol	F2381S	5ml	
MGK Repellent 326*		PS-906	250mg	**136-45-8**
MGK Repellent 874*		PS-952	1g	**3547-33-9**
MH		PS-65	250mg	**123-33-1**
**** MIBK see O-809 Methyl isobutyl ketone or F710 4-Methyl-2-pentanone**				
Mikal*		PS-2026	100mg	**39148-24-8**
Milbam*		PS-21	1g	**137-30-4**
Milban*		PS-1086	250mg	**1593-77-7**
Mildex*		PS-27	100mg	**39300-45-3**
Mildothane		PS-230	250mg	**23564-05-8**
Milk Powder Solution		XCRM-MP-A	100ml	
Milk Powder Solution		XCRM-MP-B	250ml	
Milk Powder Solution		XCRM-MP-C	500ml	
Milogard*		PS-385	500mg	**139-40-2**
Mimic*		PS-2188	100mg	**112410-23-8**
Mineral spirits (TECH)		Pz-122	10g	**64742-88-7**
Mintacol		PS-610	100mg	**311-45-5**
Miotisal A		PS-610	100mg	**311-45-5**
Mipax*		PS-901	1g	**131-11-3**
MIPC		PS-2070	250mg	**2631-40-5**
Miral*		PS-681	250mg	**42509-80-8**
Mirex		PS-702	100mg	**2385-85-5**
Mirex (S.G.)		F2121	100mg	**2385-85-5**
Mirex Solution (S.G.)	100ug/ml in Methanol	F2121JS	1ml	
Mirex (S.G.)	100ug/ml in Methanol	F2121S	5ml	
Mirex (13C8) Solution				
(200ug/ml in Toluene) (S.G.) 200ug/ml in Toluene		FC2121S	1ml	
Miro*		PS-2216	100mg	**134098-61-6**
Mitac*		PS-1005	250mg	**33089-61-1**
Mitoguazone hydrochloride		2104L	100mg	**R**
Mitox*		PS-853	100mg	**103-17-3**
Mitran*		PS-855	250mg	**80-33-1**
Mixture #1-Base Neutrals	2000ug/ml in Methylene chloride	PP-HC1	5ml	
Mixture #1-Base Neutrals	2000ug/ml in Methylene chloride	PP-HC1JM	1ml	
Mixture #2-Base Neutrals	2000ug/ml in Methylene chloride	PP-HC2	5ml	
Mixture #2-Base Neutrals	2000ug/ml in Methylene chloride	PP-HC2JM	1ml	
Mixture #3-Hazardous Substances	2000ug/ml in Methylene chloride	PP-HC3	5ml	
Mixture #3-Hazardous Substances	2000ug/ml in Methylene chloride	PP-HC3JM	1ml	
Mixture #4-Hazardous Substances	2000ug/ml in Methylene chloride	PP-HC4	5ml	
Mixture #4-Hazardous Substances	2000ug/ml in Methylene chloride	PP-HC4JM	1ml	
Mixture #5-Pesticides	2000ug/ml in Toluene:Hexane (50:50)	PP-HC5	5ml	
Mixture #5-Pesticides	2000ug/ml in Toluene:Hexane (50:50)	PP-HC5JM	1ml	
Mixture #6-Polynuclear Aromatic Hydrocarbons				
	2000ug/ml in CH2Cl2:Benzene (50:50)	PP-HC6	5ml	
Mixture #6-Polynuclear Aromatic Hydrocarbons				
	2000ug/ml in CH2Cl2:Benzene (50:50)	PP-HC6JM	1ml	
Mixture #7-Benzidines	2000ug/ml in Methanol	PP-HC7	5ml	
Mixture #7-Benzidines	2000ug/ml in Methanol	PP-HC7JM	1ml	

Category Name	Specification	Catalog#	Size	CAS#
Mixture #8-Internal Standards	4000ug/ml in Methylene chloride	PP-HC8JM	1ml	
Mixture #9-Phenols	2000ug/ml in Methylene chloride	PP-HC9	5ml	
Mixture #9-Phenols	2000ug/ml in Methylene chloride	PP-HC9JM	1ml	
Mobilawn*		PS-103	250mg	**97-17-6**
Mocap*		PS-672	250mg	**13194-48-4**
Modified glycerol phthalate resin (TECH)		S-245	10g	**R**
Modown*		PS-311	250mg	**42576-02-3**
Molinate		PS-501	250mg	**2212-67-1**
Molinate Solution	100ug/ml in Acetonitrile	PS-501AJS	1mL	
Molinate (S.G.)		F2242	250mg	**2212-67-1**
Molinate Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2242JS	1ml	
Molinate (S.G.)	100ug/ml in t-Butylmethyl ether	F2242S	5ml	
Molybdenum - (NH4)2Mo04, 99.999%,	H20, 1000ug/ml in water	X100034-4-A	100ml	
Molybdenum - (NH4)2Mo04, 99.999%,	H20, 1000ug/ml in water	X100034-4-B	250ml	
Molybdenum - 10% HCl		X10M 34-2-100	100ml	
Molybdenum - 10% HCl		X10M 34-2-250	250ml	
Molybdenum - 10% HCl		X10M 34-2-500	500ml	
Molybdenum - 4% HN03 + 2% HF		X10M 34-3-100	100ml	
Molybdenum - 4% HN03 + 2% HF		X10M 34-3-250	250ml	
Molybdenum - 4% HN03 + 2% HF		X10M 34-3-500	500ml	
Molybdenum - Mo metal, 99.999%, 2% HCl	X100034-2-A	100ml		
Molybdenum - Mo metal, 99.999%, 2% HCl	X100034-2-B	250ml		
Molybdenum - Mo metal, 99.999%, 2% HCl	X100034-2-C	500ml		
Molybdenum - Mo metal,99.999%,2% HN03 + HF		X100034-3-A	100ml	
Molybdenum - Mo metal,99.999%,2% HN03 + HF		X100034-3-B	250ml	
Molybdenum - Mo metal,99.999%,2% HN03 + HF		X100034-3-C	500ml	
Molybdenum Metallic - Organic Standard 1000ug/g in Mineral Oil		XMOOMS	100g	
Molybdenum Oxide (MoO3) 99.999%		XMO-O-A	5g	
Molybdenum Oxide (MoO3) 99.999%		XMO-O-B	25g	
Molybdenum Powder (Mo) 99.999%		XMO-MP-A	5g	
Molybdenum Powder (Mo) 99.999%		XMO-MP-B	25g	
Molybdenum sulfide-anhydrous		RE-150	1g	**1317-33-5**
Molybdenyl bis(acetylacetonate)		2155L	250mg	**17524-05-9**
Molybdic acid		I-4480	10g	**7782-91-4**
Molybdic oxide		I-4510	5g	**1313-27-5**
Molybdium metal		I-4500	5g	**7439-98-7**
Moncut*		PS-2057	250mg	**66332-96-5**
Mondaris*		PS-2064	1g	**71561-11-0**
Monitor*		PS-2224	100mg	**141776-32-1**
Monitor*		PS-676	100mg	**10265-92-6**
Monoacetin (S.G.)		O-460	5g	**26446-35-5**
Monobromomethane*	10,000ug/ml in Methanol	PS-155	5ml	**74-83-9**
Monobutyl phthalate (S.G.)		O-112	500mg	**131-70-4**
Monobutyrin (S.G.)		O-461	500mg	**557-25-5**
Monochloroacetic acid		PS-31	1g	**79-11-8**
Monocresyl diphenyl phosphate (TECH)		Pz-87	10g	**R**
Monocrotophos Solution	100ug/ml in Acetonitrile	PS-609AJS	1mL	
Monocrotophos (S.G.)		F2122	250mg	**6923-22-4**
Monocrotophos Solution (S.G.)	100ug/ml in Toluene	F2122JS	1ml	
Monocrotophos (S.G.)	100ug/ml in Toluene	F2122S	5ml	
Monocrotophos		PS-609	250mg	**6923-22-4**
Monodesmethyl Isoproturon		MET-2000A	250mg	**34123-57-4**
Monohydroxyethyltrihydroxy-propylethylenediamine		6026C	10g	**R**
Mono-isopropylammoniova sul		PS-2185	250mg	**38641-94-0**
Monolinuron		PS-2210	250mg	**1746-81-2**
Monolinuron Solution	100ug/ml in Acetonitrile	PS-2210AJS	1mL	
Monolinuron Solution	100ug/ml in Toluene	PS-2210JS	1mL	
Monomethyl adipate		6027A	1g	**627-91-8**
**** Monomethylhydrazine see O-2176 Methyl hydrazine**				
Monomethyl tetrachloroterephthalate		MET-33A	100mg	**887-54-7**
Monosodium N-lauryl-b-imino dipropionate (TECH)		S-564-1	POR	**14960-06-6**
Monosodium acid methane arsonate sesquihydrate		PS-429	100mg	**2163-80-6**
Monosodium acid methane arsonate sesquihydrate	Solution 100ug/ml in H2O	PS-429AJS	1mL	
Monothiono TEPP		PS-2181	50mg	**645-78-3**
Monothiono TEPP Solution	100ug/ml in Acetonitrile	PS-2181AJS	1mL	
Monothiono TEPP Solution	100ug/ml in Toluene	PS-2181JS	1mL	
Montrel		PS-607	50mg	**299-86-5**
Monuron Solution	1000ug/ml in Methanol	PS-59AJS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Monuron (S.G.)		F2374	250mg	**150-68-5**
Monuron Solution (S.G.)	1000ug/ml in Acetonitrile	F2374JS	1ml	
Monuron (S.G.)	1000ug/ml in Acetonitrile	F2374S	5ml	
Monuron		PS-59	250mg	**150-68-5**
Monuron TCA (S.G.)		F2560	1g	**140-41-0**
Monuron TCA		PS-371	1g	**140-41-0**
Mordant black II/C.I.#14645		BS-22	1g	**1787-61-7**
Mordant blue 29/C.I.#43825		BS-60	1g	**1667-99-8**
Mordant blue I3/C.I.#16680		BS-30	1g	**1058-92-0**
Morestan R*		PS-860	100mg	**2439-01-2**
Morin/C.I.#75660		BS-99	1g	**480-16-0**
Morocide*		PS-2087	100mg	**485-31-4**
Morpholine (S.G.)		O-319	10g	**110-91-8**
Morpholine abietate (TECH)		S-74	10g	**R**
Morpholine laurate (TECH)		S-65	10g	**R**
Morpholine linoleate (TECH)		S-71	10g	**R**
Morpholine myristate (TECH)		S-66	10g	**R**
Morpholine naphthenate (TECH)		S-73	10g	**R**
Morpholine oleate (TECH)		S-70	10g	**1095-66-5**
Morpholine palmitate (TECH)		S-67	10g	**R**
Morpholine ricinoleate (TECH)		S-72	10g	**R**
Morpholine stearate (TECH)		S-68	10g	**R**
Morpholine undecylenate (TECH)		S-69	10g	**R**
N-Morpholino-1-cyclohexene		6040	10g	**670-80-4**
Mortopal*		PS-601	500mg	**107-49-3**
Mospilan*		PS-2219	100mg	**135410-20-7**
Mostar*		PS-2151	500mg	**100646-51-3**
MPT*		PS-94	250mg	**298-00-0**
MSI*		PS-1096	50mg	**919-86-8**
MSMA		PS-429	100mg	**2163-80-6**
**** MTBE see F909 tert-Butylmethyl ether**				
MTST		PS-2181	50mg	**645-78-3**
Mucic acid (S.G.)		O-77	1g	**526-99-8**
Mucic acid diammonium salt		6045B	10g	**R**
Mucobromic acid		6049F	1g	**488-11-9**
Mucochloric acid		6050	5g	**87-56-9**
Multielement IC Standards in Water		XIC-1-A	100ml	
Multielement IC Standards in Water		XIC-1-B	250ml	
Multielement IC Standards in Water		XIC-1-C	500ml	
Multielement IC Standards in Water		XIC-2-A	100ml	
Multielement IC Standards in Water		XIC-2-B	250ml	
Multielement IC Standards in Water		XIC-2-C	500ml	
Multielement IC Standards in Water		XIC-3-A	100ml	
Multielement IC Standards in Water		XIC-3-B	250ml	
Multielement IC Standards in Water		XIC-3-C	500ml	
Multielement MO Standard in Mineral Oil (21 Component)		XOMS-21-A	100g	
Multielement MO Standard in Mineral Oil (21 Component)		XOMS-21-B	200g	
Multielement MO Standards in Mineral Oil (12 Components)		XOMS-12-A	100g	
Multielement MO Standards in Mineral Oil (12 Components)		XOMS-12-B	200g	
Multiple Branched Alkenes		Oh-34	KIT	
Murexide		6052F	100mg	**3051-09-0**
Muscatox*		PS-656	100mg	**56-72-4**
Muster*		PS-2183	100mg	**97780-06-8**
Myclobutanil		PS-2006	100mg	**88671-89-0**
Myclobutanil Solution	100ug/ml in Acetonitrile	PS-2006AJS	1mL	
Mylone*		PS-17	250mg	**533-74-4**
**** Myristaldehyde see O-2200 Tetradecylaldehyde**				
Myristamidopropyl betaine (TECH)		S-567	10g	**R**
Myristic acid (S.G.)		O-20	2g	**544-63-8**
Myristic acid (TECH)		S-5	10g	**544-63-8**
Myristic acid diethanolamide (TECH)		S-595	10g	**7545-23-5**
Myristyl bromide		6060	10g	**112-71-0**
Myristyl dimethylamine oxide (TECH)		S-552-2	5g	**R**
(-)-cis-Myrtanylamine		6056F	100mg	**38235-68-6**
N-(Phosphonomethyl)imino diacetic acid N-oxide (S.G.)		F2914	POR	**R**
NAA*		PS-29	1g	**86-87-3**
Nabac*		PS-1035	250mg	**70-30-4**
Nabam		PS-220	250mg	**142-59-6**

Category Name	Specification	Catalog#	Size	CAS#
Nabam Solution	100ug/ml in H2O	PS-220AJS	1mL	
Nabam Solution	100ug/ml in Toluene	PS-220JS	1mL	
Nabu*		PS-2013	100mg	**74051-80-2**
Nadic methyl anhydride		6075F	1g	**25134-21-8**
Naja*		PS-2216	100mg	**134098-61-6**
Naled (S.G.)		F2067	250mg	**300-76-5**
Naled		PS-605	250mg	**300-76-5**
Naled		PS-605	250mg	**300-76-5**
Naled Solution	100ug/ml Acetonitrile	PS-605JS	1mL	
**** Naled see F2067 Dibrom**				
Namafos*		PS-668	50mg	**297-97-2**
Namate*		PS-281	500mg	**144-21-8**
Namekil*		PS-2030	1g	**9002-91-9**
Nankor*		PS-657	100mg	**299-84-3**
Naphtha (Petroleum distillates) (S.G.)		0-2257	5g	**8030-30-6**
Naphthacene (S.G.)		F1043	50mg	**92-24-0**
Naphthacene Solution (S.G.)	100ug/ml in Toluene	F1043JS	1ml	
Naphthacene (S.G.)	100ug/ml in Toluene	F1043S	5ml	
1-Naphthaldehyde		6070	10g	**66-77-3**
2-Naphthaldehyde		6125F	100mg	**66-99-9**
Naphthalene (S.G.)		F55	5g	**91-20-3**
Naphthalene Solution (S.G.)	100ug/ml in Methanol	F55JS	1ml	
Naphthalene (S.G.)	100ug/ml in Methanol	F55S	5ml	
Naphthalene (13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC55S	1.2ml	
Naphthalene (S.G.)		0-789	5g	**91-20-3**
Naphthalene-d8 (S.G.)		F310	100mg	**1146-65-2**
Naphthalene-d8 Solution (S.G.)	2000ug/ml in Isooctane	F310JS	1ml	
Naphthalene-d8 (S.G.)	2000ug/ml in Isooctane	F310S	5ml	
1-Naphthaleneacetamide		PS-28	1g	**86-86-2**
1-Naphthaleneacetamide Solution	100ug/ml in Methanol	PS-28AJS	1mL	
1-Naphthaleneacetamide Solution	100ug/ml in Toluene	PS-28JS	1mL	
1-Naphthaleneacetic acid (S.G.)		0-87	1g	**86-87-3**
1-Naphthaleneacetic acid		PS-29	1g	**86-87-3**
1-Naphthaleneacetic acid Solution	100ug/ml in Methanol	PS-29AJS	1mL	
1-Naphthaleneacetic acid Solution	100ug/ml in MTBE	PS-29JS	1mL	
1-Naphthaleneacetic acid methyl ester		PS-30	1g	**2876-78-0**
Naphthalene-alkylated (TECH)		Pz-960	10g	**R**
2,3-Naphthalenedicarboxylic acid		2137L	250mg	**2169-87-1**
**** 1.3-Naphthalenediol see 0-2360 1,3-Dihydroxynaphthalene**				
1.4-Naphthalenediol (S.G.)		0-906	500mg	**571-60-8**
1.5-Naphthalenediol (S.G.)		0-907	1g	**83-56-7**
**** 2,7-Naphthalenediol see 0-2365 2,5-Dihydroxynaphthalene**				
**** 1,6-Naphthalenediol see 0-2361 1,6-Dihydroxynaphthalene**				
2.7-Naphthalenedisulfonic acid disodium salt		6085F	1g	**1655-35-2**
2.6-Naphthalenedisulfonic acid disodium salt		6086C	10g	**1655-45-4**
1.5-Naphthalene disulfonic acid sodium salt		6085B	5g	**1655-29-4**
1-Naphthalenemethylamine		6504K	10mg	**118-31-0**
2-Naphthalenesulfonic acid monohydrate (S.G.)		0-958	500mg	**120-18-3**
2-Naphthalene sulfonic acid sodium salt 6506K			1g	532-02-5
1.4.5.8-Naphthalene tetracarboxylic acid 6090F			1g	128-97-2
1.4.5.8-Naphthalene tetracarboxylic dianhydride		6087A	5g	**81-30-1**
1.3.6-Naphthalene trisulfonic acid sodium salt		6092F	1g	**5182-30-9**
1-8-Naphthalic anhydride		PS-1048	500mg	**81-84-5**
1-8-Naphthalic anhydride Solution	100ug/ml in Acetonitrile	PS-1048AJS	1mL	
1-8-Naphthalic anhydride Solution	100ug/ml in Toluene	PS-1048JS	1mL	
1,8-Naphthalimide		2266L	1g	**81-83-4**
Naphthenic acid (TECH)		S-14	10g	**1338-24-5**
Naphthenic acid copper salt		PS-2028	1g	**1338-02-9**
Naphthenic base oil (TECH)		Pz-125	10g	**R**
b-Naphthoflavone		2164L	25mg	**6051-87-2**
1-Naphthoic acid		6104B	5g	**86-55-5**
2-Naphthoic acid		6105B	5g	**93-09-4**
1-Naphthol (S.G.)		0-877	5g	**90-15-3**
2-Naphthol (S.G.)		0-878	5g	**135-19-3**
a-Naphtholbenzein		6110	1g	**145-50-6**
2-Naphthol-6.8-disulfonic acid dipotassium salt		6115B	10g	**842-18-2**
1-Naphthol-3.6-disulfonic acid disodium salt (S.G.)		0-959	1g	**20349-39-7**
2-Naphthol-3.6-disulfonic acid disodium salt (S.G.)		0-960	5g	**135-51-3**
Naphthol green B/C.I.#10020		BS-1	1g	**19381-50-1**

Category Name	Specification	Catalog#	Size	CAS#
1-Naphthol-4-sulfonic acid sodium salt		2353L	1g	**6099-57-6**
2-Naphthol-6-sulfonic acid sodium salt		6116B	10g	**135-76-2**
Naphthol yellow S/C.I.#10316		BS-4	1g	**846-70-8**
b-Naphthonitrile		6120	10g	**613-46-7**
1.4-Naphthoquinone (S.G.)		F997	1g	**130-15-4**
1.4-Naphthoquinone Solution (S.G.)	100ug/ml in Hexane	F997JS	1ml	
1.4-Naphthoquinone (S.G.)	100ug/ml in Hexane	F997S	5ml	
1.4-Naphthoquinone (S.G.)		0-927	1g	**130-15-4**
1.2-Naphthoquinone-4-sulfonic acid sodium salt		6132F	1g	**521-24-4**
a-Naphthoxy acetic acid		6129F	100mg	**2976-75-2**
2-Naphthoxyacetic acid		PS-35	1g	**120-23-0**
2-Naphthoxyacetic acid Solution	100ug/ml in Methanol	PS-35AJS	1mL	
2-Naphthoxyacetic acid Solution	100ug/ml in MTBE	PS-35JS	1mL	
2-(a-Naphthoxy)-N.N-diethyl propionamide		PS-553	250mg	**15299-99-7**
2-(Naphthoyl)benzoic acid		2245L	500mg	**5018-87-1**
N-1-Naphthylacetamide		PS-354	500mg	**R**
N-1-Naphthylacetamide Solution	100ug/ml in Methanol	PS-354JS	1mL	
b-Naphthyl acetate		2839L	1g	
a-Naphthyl acetate		6000H	1g	**830-81-9**
1-Naphthylacetonitrile		2140L	500mg	**132-75-2**
a-Naphthylamine (S.G.)		F928	100mg	**134-32-7**
a-Naphthylamine Solution (S.G.)	100ug/ml in Methanol	F928JS	1ml	
a-Naphthylamine (S.G.)	100ug/ml in Methanol	F928S	5ml	
b-Naphthylamine (S.G.)		F927	100mg	**91-59-8**
b-Naphthylamine Solution (S.G.)	100ug/ml in Methanol	F927JS	1ml	
b-Naphthylamine (S.G.)	100ug/ml in Methanol	F927S	5ml	
1-Naphthylamine-6-sulfonic acid		1408L	1g	**119-79-9**
**** 2-Naphthylamine-1-sulfonic acid see 1842F 1-Amino-2-naphthalensulfonic acid**				
2-Naphthyl benzoate (S.G.)		0-536	2g	**93-44-7**
N-(1-Naphthyl)ethylenediaminedihydrochloride (R.G.)		6141C	1g	**1465-25-4**
1-Naphthyl isocyanate		6138F	1g	**86-84-0**
1-Naphthyl isothiocyanate (R.G.)		6139F	100mg	**551-06-4**
1-Naphthyl-N-methylcarbamate		PS-84	250mg	**63-25-2**
(2-Naphthyloxy)acetic acid sodium salt		6140	10g	**R**
1-Naphthyl phosphate		6149A	1g	**R**
2-Naphthyl phosphate disodium salt dihydrate		6147A	100mg	**31681-98-8**
1-Naphthyl phosphate, monosodium salt 2368L		100mg		**81012-89-7**
N-1-Naphthylphthalamic acid		PS-343	250mg	**132-66-1**
N-1-Naphthylphthalamic acid Solution	100ug/ml in Acetonitrile	PS-343AJS	1mL	
N-1-Naphthylphthalamic acid Solution	100ug/ml in MTBE	PS-343JS	1mL	
N-(1-Naphthyl)phthalimide		MET-343A	1g	**R**
b-Naphthyl stearate		2275L	250mg	**R**
a-Naphthylthiocarbamide		PS-106	250mg	**86-88-4**
a-Naphthylthiourea		PS-106	250mg	**86-88-4**
a-Naphthylthiourea Solution	100ug/ml in Acetonitrile	PS-106AJS	1mL	
a-Naphthylthiourea Solution	100ug/ml in Toluene	PS-106JS	1mL	
Napropamide		PS-553	250mg	**15299-99-7**
Napropamide*		PS-553	250mg	**15299-99-7**
Napropamide Solution	100ug/ml in Acetonitrile	PS-553AJS	1mL	
**** Napropamide see F2238 Devrinol**				
Naptalam		PS-343	250mg	**132-66-1**
2-Napthoyl chloride		2194L	500mg	**2243-83-6**
1-Napthylhydrazine hydrochloride		2191L	500mg	**2243-56-3**
Navadel*		PS-658	100mg	**78-34-2**
Navron*		PS-2029	1g	**640-19-7**
N-Benzyladenine		PS-2206	250mg	**1214-39-7**
N(sup 6)-Benzyladenine		PS-2206	250mg	**1214-39-7**
N-(2,6-Bis(1-methylethyl)-4-phenoxyphenyl) -N'-(1,1-dimethylethyl)thiourea		PS-2221	250mg	**80060-09-9**
Neburon Solution	100ug/ml in Toluene	PS-377JS	1mL	
Neburon (S.G.)		F2375	250mg	**555-37-3**
Neburon Solution (S.G.)	1000ug/ml in Acetonitrile	F2375JS	1ml	
Neburon (S.G.)	1000ug/ml in Acetonitrile	F2375S	5ml	
Neburon		PS-377	250mg	**555-37-3**
Neguvon*		PS-608	1g	**52-68-6**
Nemacide VC-13*		PS-103	250mg	**97-17-6**
Nemacur*		PS-612	250mg	**22224-92-6**
Nemafume*		PS-1	250mg	**96-12-8**

Category Name	Specification	Catalog#	Size	CAS#
Nemagon*		PS-1	250mg	96-12-8
Nemax*		PS-4	1g	76-06-2
Nemesis*		PS-2110	100mg	95737-68-1
Neocid*		PS-74	250mg	8017-34-3
Neocidol		PS-90	250mg	333-41-5
Neocuproine		6222E	500mg	484-11-7
Neodymium - 10% HCl		X10M 35-2-100	100ml	
Neodymium - 10% HCl		X10M 35-2-250	250ml	
Neodymium - 10% HCl		X10M 35-2-500	500ml	
Neodymium - 4% HN03		X10M 35-1-100	100ml	
Neodymium - 4% HN03		X10M 35-1-250	250ml	
Neodymium - 4% HN03		X10M 35-1-500	500ml	
Neodymium - Nd203, 99.99%, 2% HCl		X100035-2-A	100ml	
Neodymium - Nd203, 99.99%, 2% HCl		X100035-2-B	250ml	
Neodymium - Nd203, 99.99%, 2% HCl		X100035-2-C	500ml	
Neodymium - Nd203, 99.99%, 2% HN03		X100035-1-A	100ml	
Neodymium - Nd203, 99.99%, 2% HN03		X100035-1-B	250ml	
Neodymium - Nd203, 99.99%, 2% HN03		X100035-1-C	500ml	
Neodymium Oxide (Nd2O2) 99.99%		XND-O-A	5g	
Neodymium Oxide (Nd2O2) 99.99%		XND-O-B	25g	
Neohexane (S.G.)		O-738	1g	75-83-2
Neomycin sulfate salt		PS-2201	250mg	1405-10-3
** Neopentanoic acid see 7145F Pivalic acid				
Neopentyl alcohol		6155F	1g	75-84-3
Neopentyl glycol dibenzoate (TECH)		Pz-778	5g	R
Neopentyl glycol monohydroxypivalate		6153	5g	1115-20-4
Neo-Pynamin*		PS-1042	100mg	7696-12-0
Neoron*		PS-1062	250mg	18181-80-1
Neosorexa*		PS-2143	100mg	56073-07-5
Neotetrazolium chloride		6168F	100mg	298-95-3
Nerkol*		PS-89	250mg	62-73-7
N-(1-Ethylpropyl)-N-nitroso-3,4-dimethyl-2,6-dinitrobenzenamine		MET-401A	100mg	R
Neutral red/C.I.#50040		BS-75	1g	553-24-2
Nevirol*		PS-2114	1g	4727-29-1
New fuchsin/C.I.#42520		BS-146	1g	3248-91-7
New methylene blue/C.I.#52030		BS-153	1g	1934-16-3
Nexagan*		PS-2008	100mg	4824-78-6
Nexter*		PS-2125	1g	96489-71-3
1% NH4 H2P04 in 0.05% HN03		XMM-9002-A	100ml	
1% NH4 H2P04 in 0.05% HN03		XMM-9002-B	250ml	
1% NH4 H2P04 in 0.05% HN03		XMM-9002-C	500ml	
1% NH4Cl in H2O		XPC-AMM-A	250ml	
1% NH4Cl in H2O		XPC-AMM-B	500ml	
0.1% NH4H2P04 in 0.05% HN03		XMM-9001-A	100ml	
0.1% NH4H2P04 in 0.05% HN03		XMM-9001-B	250ml	
0.1% NH4H2P04 in 0.05% HN03		XMM-9001-C	500ml	
10% NH4H2P04 IN 0.05% HN03		XMM-9003-A	100ml	
10% NH4H2P04 IN 0.05% HN03		XMM-9003-B	250ml	
10% NH4H2P04 IN 0.05% HN03		XMM-9003-C	500ml	
50% NH4H2P04 in 0.05% HN03		XMM-9004-A	100ml	
50% NH4H2P04 in 0.05% HN03		XMM-9004-B	250ml	
50% NH4H2P04 in 0.05% HN03		XMM-9004-C	500ml	
0.1% NH4N03 in H20		XMM-9040-A	100ml	
0.1% NH4N03 in H20		XMM-9040-B	250ml	
0.1% NH4N03 in H20		XMM-9040-C	500ml	
1% NH4N03 IN H2O		XMM-9041-A	100ml	
1% NH4N03 IN H2O		XMM-9041-B	250ml	
1% NH4N03 IN H2O		XMM-9041-C	500ml	
5% NH4N03 in H2O		XMM-9042-A	100ml	
5% NH4N03 in H2O		XMM-9042-B	250ml	
5% NH4N03 in H2O		XMM-9042-C	500ml	
4-n-Heptylphenol (S.G.)		F2935	250mg	1987-50-4
0.1% Ni(N03)2 in 1% HN03		XMM-9030-A	100ml	
0.1% Ni(N03)2 in 1% HN03		XMM-9030-B	250ml	
0.1% Ni(N03)2 in 1% HN03		XMM-9030-C	500ml	
1% Ni(N03)2 in 1% HN03		XMM-9031-A	100ml	
1% Ni(N03)2 in 1% HN03		XMM-9031-B	250ml	
1% Ni(N03)2 in 1% HN03		XMM-9031-C	500ml	
5% Ni(N03)2 in 1%HN03		XMM-9032-A	100ml	
5% Ni(N03)2 in 1%HN03		XMM-9032-B	250ml	
5% Ni(N03)2 in 1%HN03		XMM-9032-C	500ml	

Category Name	Specification	Catalog#	Size	CAS#
** Niacin see V-1 and O-121 Nicotinic acid				
** Niacinamide see V-10 Vitamin B3/B5 [Nicotinamide] and O-271 Nicotinamide				
Niagarmite*	100ug/ml in Hexane	PS-850	5ml	140-57-8
Nialate*		PS-92	250mg	563-12-2
Nicarbazin		PS-2313	100mg	330-95-0
Nickel metal		I-4686	1g	7440-02-0
Nickel - 10% HCl		X10M 36-2-100	100ml	
Nickel - 10% HCl		X10M 36-2-250	250ml	
Nickel - 10% HCl		X10M 36-2-500	500ml	
Nickel - 4% HN03		X10M 36-1-100	100ml	
Nickel - 4% HN03		X10M 36-1-250	250ml	
Nickel - 4% HN03		X10M 36-1-500	500ml	
Nickel - Ni metal, 99.99%, 2% HN03		X100036-1-A	100ml	
Nickel - Ni metal, 99.99%, 2% HN03		X100036-1-B	250ml	
Nickel - Ni metal, 99.99%, 2% HN03		X100036-1-C	500ml	
Nickel - Ni metal,99.999%,2% HCl		X100036-2-A	100ml	
Nickel - Ni metal,99.999%,2% HCl		X100036-2-B	250ml	
Nickel - Ni metal,99.999%,2% HCl		X100036-2-C	500ml	
Nickel acetate		I-81	10g	6018-89-9
Nickel acetylacetonate		I-4560	1g	3264-82-2
Nickel aluminum alloy		I-4570	1g	12635-27-7
Nickel (II) ammonium sulfate		I-4580	10g	15699-18-0
Nickel antimonate		I-4585	1g	R
Nickel arsenite		I-4595	1g	R
Nickel at 100ug/ml in NaCN		XNI-CN-100-A	100ml	
Nickel at 100ug/ml in NaCN		XNI-CN-100-B	250ml	
Nickel at 100ug/ml in NaCN		XNI-CN-100-C	500ml	
Nickel at 10ug/ml in NaCN		XNI-CN-10-A	100ml	
Nickel at 10ug/ml in NaCN		XNI-CN-10-B	250ml	
Nickel at 10ug/ml in NaCN		XNI-CN-10-C	500ml	
Nickel at 1ug/ml in NaCN		XNI-CN-1-A	100ml	
Nickel at 1ug/ml in NaCN		XNI-CN-1-B	250ml	
Nickel at 1ug/ml in NaCN		XNI-CN-1-C	500ml	
Nickel at 50ug/ml in NaCN		XNI-CN-50-A	100ml	
Nickel at 50ug/ml in NaCN		XNI-CN-50-B	250ml	
Nickel at 50ug/ml in NaCN		XNI-CN-50-C	500ml	
Nickel borate		I-4600	10g	53802-89-4
Nickel (II) carbonate		I-4610	10g	3333-67-3
Nickel (II) chloride		I-82	10g	7791-20-0
Nickel Chloride (NiCl2) 99.999%		XNI-CL-S-A	5g	
Nickel Chloride (NiCl2) 99.999%		XNI-CL-S-B	25g	
Nickel dibutyl dithiocarbamate (TECH)		Ou-72	3g	13927-77-0
Nickel fluoride		I-4640	1g	10028-18-9
Nickel hexafluorophosphate		I-4645	1g	23730-94-1
Nickel Metallic - Organic Standard 1000ug/g in Mineral Oil		XNIOMS	100g	
Nickel (II) nitrate		I-83	10g	13478-00-7
Nickel Nitrate (Ni(N03)2 xH20) 99.999%		XNI-NO-S-A	5g	
Nickel Nitrate (Ni(N03)2 xH20) 99.999%		XNI-NO-S-B	25g	
Nickel oleate (TECH)		S-111	10g	R
Nickel Oxide (NiO) 99.995%		XNI-O-A	5g	
Nickel Oxide (NiO) 99.995%		XNI-O-B	25g	
Nickel (II) oxide - green powder		I-4675	10g	1313-99-1
Nickel (III) oxide - grey black		I-4670	1g	1314-06-3
Nickel phthalocyanine		3046L	500mg	14055-02-8
Nickel Powder (Ni) 99.999%		XNI-MP-A	5g	
Nickel Powder (Ni) 99.999%		XNI-MP-B	25g	
Nickel (Raney)		I-4687	1g	37187-84-1
Nickel meta-silicate		I-4680	10g	21784-78-1
Nickel (II) sulfate		I-84	10g	10101-97-0
Nickel sulfide		I-4690	1g	16812-54-7
Nickel thiocyanate		I-4700	5g	20427-77-4
Nickel titanate		I-4705	1g	12035-39-1
Niclofen*		PS-394	100mg	1836-75-5
Niclosamide		PS-1207	250mg	50-65-7
Nicosulfuron		PS-2005	100mg	111991-09-4
Nicosulfuron		PS-2005	100mg	111991-09-4
Nicotinamide (S.G.)		O-271	2g	98-92-0
** Nicotinamide see also V-10 Vitamin B3/B5 [Nicotinamide]				
Nicotinamide-N-oxide		2224L	250mg	1986-81-8
Nicotine (S.G.)		F2123	1g	54-11-5
Nicotine Solution (S.G.)	100ug/ml in Methanol	F2123JS	1ml	

Category Name	Specification	Catalog#	Size	CAS#
Nicotine (S.G.)	100ug/ml in Methanol	F2123S	5ml	
Nicotine		PS-85	1g	**54-11-5**
Nicotinic acid (S.G.)		O-121	5g	**59-67-6**
Nicotinic acid (S.G.)		V-1	5g	**59-67-6**
Nicotinic acid hydrochloride		6279F	1g	**R**
Nicotinic acid N-oxide		2365L	100mg	**2398-81-4**
Nifos T*		PS-601	500mg	**107-49-3**
Nigrosine/C.I.#50420		BS-78	1g	**8005-03-6**
Nile blue A/C.I.#51180		BS-80	1g	**2381-85-3**
Nimitex*		PS-665	100mg	**3383-96-8**
Ninhydrin		6154A	1g	**485-47-2**
Niobium - 4% HNO3 + 1% HF		X10M 37-3-100	100ml	
Niobium - 4% HNO3 + 1% HF		X10M 37-3-250	250ml	
Niobium - 4% HNO3 + 1% HF		X10M 37-3-500	500ml	
Niobium - Nb metal, 99.99%, 2% HNO3+0.5% HF		X100037-3-A	100ml	
Niobium - Nb metal, 99.99%, 2% HNO3+0.5% HF		X100037-3-B	250ml	
Niobium - Nb metal, 99.99%, 2% HNO3+0.5% HF		X100037-3-C	500ml	
Niobium Oxide (Nb2O5) 99.9+%		XNB-O-A	5g	
Niobium Oxide (Nb2O5) 99.9+%		XNB-O-B	25g	
Niobium Powder (Nb) 99.9%		XNB-MP-A	5g	
Niobium Powder (Nb) 99.9%		XNB-MP-B	25g	
NIP*		PS-394	100mg	**1836-75-5**
Niran*		PS-95	500mg	**56-38-2**
Nissorun		PS-1079	100mg	**78587-05-0**
Nitenpyram		PS-2370	100mg	**150824-47-8**
Nitosorg*		PS-2185	250mg	**38641-94-0**
Nitralin		PS-358	250mg	**4726-14-1**
Nitralin Solution	100ug/ml in Acetonitrile	PS-358AJS	1mL	
Nitralin Solution	100ug/ml in Hexane	PS-358JS	1mL	
Nitran		PS-94	250mg	**298-00-0**
Nitrapyrin		PS-419	100mg	**1929-82-4**
Nitrapyrin Solution	100ug/ml in Acetonitrile	PS-419AJS	1mL	
Nitrapyrin Solution	100ug/ml in Toluene	PS-419JS	1mL	
100ug/ml Nitrate in water for Ion Chromatography		XIC-NO-A	100ml	
100ug/ml Nitrate in water for Ion Chromatography		XIC-NO-B	250ml	
100ug/ml Nitrate in water for Ion Chromatography		XIC-NO-C	500ml	
Nitrate @ 1000ug/ml in water		XIC-NO-M-A	100ml	
Nitrate @ 1000ug/ml in water		XIC-NO-M-B	250ml	
Nitrate @ 1000ug/ml in water		XIC-NO-M-C	500ml	
Nitrazine yellow/C.I.#14890		BS-23	1g	**5423-07-4**
Nitric Acid (subboiling distilled acid)		XSB-HNO3-1L	1L	
Nitric Acid (subboiling distilled acid)		XSB-HNO3-500	500ml	
**** Nitrilotriacetic acid see 8440 Timethyl-a.a'.a"-tricarboxylic acid**				
Nitrilotriacetic acid disodium salt (TECH) CDF-9		5g	15467-20-6	
Nitrilotriacetic acid trisodium salt (TECH) CDF-10		5g	5064-31-3	
**** 2.2.2-Nitrilotriethanol see O-314 Triethanolamine**				
Nitrilotris[methylene]triphosphonic acid 6155B		10g	6419-19-8	
100ug/ml Nitrite in water for ion Chromatography		XIC-N-A	100ml	
100ug/ml Nitrite in water for ion Chromatography		XIC-N-C	500ml	
Nitrite @ 1000ug/ml in water		XIC-N-M-A	100ml	
Nitrite @ 1000ug/ml in water		XIC-N-M-B	250ml	
Nitrite @ 1000ug/ml in water		XIC-N-M-C	500ml	
100ug/ml Nitrite in water for ion Chromatography		XIC-N-B	250ml	
5-Nitroacenaphthene (S.G.)		F2124	500mg	**602-87-9**
5-Nitroacenaphthene (d9) Solution (S.G.)	50ug/ml in Toluene	FD2124S	1.2ml	
5-Nitroacenaphthene Solution (S.G.)	100ug/ml in Methanol	F2124JS	1ml	
5-Nitroacenaphthene (S.G.)	100ug/ml in Methanol	F2124S	5ml	
p-Nitroacetanilide		6154B	5g	**104-04-1**
m-Nitroacetophenone		6155	5g	**121-89-1**
p-Nitroacetophenone		6287F	1g	**100-19-6**
3-Nitro-4-acetylaminophenyl acetate		6175	1g	**R**
5-Nitro-4-amino-1.3-dimethylbenzene		6220	5g	**R**
**** 3-Nitro-4-aminonisole see 5676F 4-Methoxy-2-nitroaniline**				
3-Nitro-4-aminophenetole		6300F	100mg	**R**
**** 4-Nitro-2-aminophenol see O-898 2-Amino-4-nitrophenol**				
5-Nitro-2-aminotoluene		6240	10g	**99-52-5**
o-Nitroaniline (S.G.)		F713	5g	**88-74-4**

Category Name	Specification	Catalog#	Size	CAS#
o-Nitroaniline Solution (S.G.)	100ug/ml in Methanol	F713JS	1ml	
o-Nitroaniline (S.G.)	100ug/ml in Methanol	F713S	5ml	
o-Nitroaniline (S.G.)		O-371	5g	**88-74-4**
m-Nitroaniline (S.G.)		F714	2g	**99-09-2**
m-Nitroaniline Solution (S.G.)	100ug/ml in Methanol	F714JS	1ml	
m-Nitroaniline (S.G.)	100ug/ml in Methanol	F714S	5ml	
m-Nitroaniline (S.G.)		O-372	2g	**99-09-2**
p-Nitroaniline (S.G.)		F715	5g	**100-01-6**
p-Nitroaniline Solution (S.G.)	100ug/ml in Methanol	F715JS	1ml	
p-Nitroaniline (S.G.)	100ug/ml in Methanol	F715S	5ml	
p-Nitroaniline (S.G.)		O-373	5g	**100-01-6**
**** 5-Nitro-o-anisidine see F2125 2-Methoxy-5-nitroaniline**				
m-Nitroanisole		6243B	1g	**555-03-3**
o-Nitroanisole		6244	5g	**91-23-6**
p-Nitroanisole (S.G.)		F2175	1g	**100-17-4**
p-Nitroanisole Solution (S.G.)	100ug/ml in Isooctane:Acetone (90:10)	F2175JS	1ml	
p-Nitroanisole (S.G.)	100ug/ml in Isooctane:Acetone (90:10)	F2175S	5ml	
4-Nitroanthranilic acid		2215L	500mg	**619-17-0**
5-Nitroanthranilic acid		2242L	100mg	**R**
Nitroaromatic & Cyclic Ketones Neat Kit - 8090		NCK8090-1N	KIT	
Nitroaromatics & Cyclic Ketones Solutions Kit - 8090		NCK8090-1S	KIT	
Nitroaromatics & Nitramine Intermediate Standards Mixture #1 - 8330	1000ug/ml in Methanol:Acetonitrile (50:50)	NN8330-1M	5ml	
Nitroaromatics & Nitramine Intermediate Standards Mixture #2 - 8330	1000ug/ml in Methanol:Acetonitrile (50:50)	NN8330-2M	5ml	
Nitroaromatics & Nitramines Solutions Kit - 8330		NN8330-1S	KIT	
5-Nitrobarbituric acid		6250	1g	**480-68-2**
DL-m-Nitrobenzalacetone		6514K	10mg	**R**
m-Nitrobenzaldehyde		6260	10g	**99-61-6**
p-Nitrobenzaldehyde		6261E	1g	**555-16-8**
p-Nitrobenzamide		6270	10g	**619-80-7**
m-Nitrobenzamide		6517K	100mg	**645-09-0**
Nitrobenzene (S.G.)		F56	5g	**98-95-3**
Nitrobenzene Solution (S.G.)	1000ug/ml in Acetonitrile	F56AJS	1ml	
Nitrobenzene Solution (S.G.)	1000ug/ml in Acetonitrile	F56AS	5ml	
Nitrobenzene Solution (S.G.)	100ug/ml in Methanol	F56JS	1ml	
Nitrobenzene (S.G.)	100ug/ml in Methanol	F56S	5ml	
Nitrobenzene (13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC56S	1.2ml	
Nitrobenzene (S.G.)		O-852	10g	**98-95-3**
Nitrobenzene-d5 (S.G.)		F320	1g	**4165-60-0**
Nitrobenzene-d5 (S.G.)	2000ug/ml in Methanol	F320S	5ml	
p-Nitrobenzeneazo-a-naphthol		6289F	100mg	**5290-62-0**
**** p-Nitrobenzeneazoresorcinol see 6430F 4-(p-Nitrophenylazo)resorcinol**				
m-Nitrobenzene sulfonic acid sodium salt		6275B	10g	**127-68-4**
m-Nitrobenzhydrazide		6280	10g	**618-94-0**
6-Nitrobenzimidazole nitrate		6295F	1g	**27896-84-0**
o-Nitrobenzoic acid		6282B	10g	**552-16-9**
m-Nitrobenzoic acid (S.G.)		O-118	5g	**121-92-6**
p-Nitrobenzoic acid (S.G.)		O-119	5g	**62-23-7**
o-Nitrobenzonitrile		6284	1g	**612-24-8**
m-Nitrobenzonitrile		6283	5g	**619-24-9**
4-Nitrobenzophenone		6526K	100mg	**1144-74-7**
2-Nitrobenzyl alcohol		6532K	100mg	**612-25-9**
4-Nitrobenzyl alcohol		6310	10g	**619-73-8**
m-Nitrobenzylamine hydrochloride		2212L	100mg	**26177-43-5**
p-Nitrobenzylamine hydrochloride		6535K	10mg	**18600-42-5**
o-Nitrobenzyl bromide		6538K	100mg	**3958-60-9**
**** p-Nitrobenzyl bromide see 2375B a-Bromo-p-nitrotoluene**				
p-Nitrobenzyl chloride		6331F	1g	**100-14-1**
4-Nitrobiphenyl (S.G.)		F949	100mg	**92-93-3**
4-Nitrobiphenyl Solution (S.G.)	100ug/ml in Methanol	F949JS	1ml	
4-Nitrobiphenyl (S.G.)	100ug/ml in Methanol	F949S	5ml	
2-Nitrobiphenyl (TECH)		Pz-148	1g	**86-00-0**
3-Nitro-2-butanol		6541K	100mg	**6270-16-2**
p-Nitro-tert-butylbenzene		6544K	10mg	**R**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
4-Nitrocatechol		2122L	100mg	3316-09-4
** 2-Nitro-4-chloroaniline see O-375 4-Chloro-2-nitroaniline				
Nitrochloroform*		PS-4	1g	76-06-2
2-Nitrocinnamaldehyde		2221L	500mg	R
m-Nitrocinnamaldehyde		2398L	100mg	R
o-Nitrocinnamic acid		2374L	500mg	612-41-9
m-Nitrocinnamic acid		2206L	250mg	555-68-0
p-Nitrocinnamic acid		6350	5g	619-89-6
Nitrocyclohexane		6342F	1g	1122-60-7
2-Nitro-p-cymene		6547K	100mg	943-15-7
** 4-Nitro-1.2-diaminobenzene see 6433F 4-Nitro-o-phenylenediamine				
2-Nitro-1.4-diaminobenzene		6355	1g	5307-14-2
** Nitro-o-dichlorobenzene see 3593K 3.4-Dichloronitrobenzene				
m-Nitrodimethylaniline		6360	1g	R
2-Nitrodiphenylamine		6367	5g	119-75-5
p-Nitrodiphenyl ether		6365	1g	620-88-2
Nitroethane (S.G.)		O-853	10g	79-24-3
Nitrofen		PS-394	100mg	1836-75-5
Nitrofen (S.G.)		F2126	100mg	1836-75-5
Nitrofen Solution (S.G.)	100ug/ml in Methanol	F2126JS	1ml	
Nitrofen (S.G.)	100ug/ml in Methanol	F2126S	5ml	
Nitrogen & Phosphorous Containing Pesticides Mixtures Kit - 507		MMPM507-5	KIT	
Nitrogen & Phosphorous Containing Pesticides - Neat		NPP-507N	KIT	
Nitrogen & Phosphorous Containing Pesticides - Solutions		NPP-507S	KIT	
Nitrogen (NaNO2) @ 100ug/ml in Water		XIC-NO2-A	100ml	
Nitrogen (NaNO2) @ 100ug/ml in Water		XIC-NO2-B	250ml	
Nitrogen (NaNO2) @ 100ug/ml in Water		XIC-NO2-C	500ml	
Nitrogen (NaNO3) @ 100ug/ml in Water		XIC-NO3-A	100ml	
Nitrogen (NaNO3) @ 100ug/ml in Water		XIC-NO3-B	250ml	
Nitrogen (NaNO3) @ 100ug/ml in Water		XIC-NO3-C	500ml	
Nitrogen from NaNO2 @ 1000ug/ml in water		XIC-NO2-M-A	100ml	
Nitrogen from NaNO2 @ 1000ug/ml in water		XIC-NO2-M-B	250ml	
Nitrogen from NaNO2 @ 1000ug/ml in water		XIC-NO2-M-C	500ml	
Nitrogen from NaNO3 @ 1000ug/ml in water		XIC-NO3-M-A	100ml	
Nitrogen from NaNO3 @ 1000ug/ml in water		XIC-NO3-M-B	250ml	
Nitrogen from NaNO3 @ 1000ug/ml in water		XIC-NO3-M-C	500ml	
Nitrogens		On-165A	KIT	
Nitroguanidine (min 20wt% water)		6380	10g	556-88-7
4-Nitrohippuric acid		2260L	500mg	2645-07-0
5-Nitroindole		6388B	1g	6146-52-7
6-Nitroindole		6389B	100mg	4769-96-4
5-Nitroindoline		6553K	100mg	32692-19-6
6-Nitroindoline		6556K	100mg	19727-83-4
m-Nitroiodobenzene		6390	1g	645-00-1
p-Nitroiodobenzene		6390C	5g	R
5-Nitroisatin		6352F	100mg	611-09-6
5-Nitroisophthalic acid		6393A	10g	618-88-2
5-Nitroisoquinoline		2236L	100mg	607-32-9
Nitromethane (S.G.)		O-854	5g	75-52-5
2-Nitro-6-methylaniline		6398C	1g	570-24-1
2-Nitro-2-methyl-1,3-propanediol		2356L	1g	
Nitron		6399F	1g	2218-94-2
1-Nitronaphthalene (S.G.)		O-855	500mg	86-57-7
3-Nitro-1,8-naphthalic anhydride		2248L	250mg	3027-38-1
2-Nitro-1-naphthol (R.G.)		2254L	100mg	607-24-9
4-Nitrophenethyl bromide		2269L	250mg	5339-26-4
o-Nitrophenetole		6412B	1g	610-67-3
p-Nitrophenetole		6414F	1g	100-29-8
2-Nitrophenol (S.G.)		F57	5g	88-75-5
2-Nitrophenol Solution (S.G.)	100ug/ml in Methanol	F57JS	1ml	
2-Nitrophenol (S.G.)	100ug/ml in Methanol	F57S	5ml	
2-Nitrophenol (d4) (S.G.)		FD57-A	0.1g	R
2-Nitrophenol (d4) (S.G.)		FD57-C	0.25g	R
2-Nitrophenol (S.G.)		O-895	5g	88-75-5
3-Nitrophenol		6559K	100mg	554-84-7
4-Nitrophenol (S.G.)		F58	5g	100-02-7
4-Nitrophenol Solution (S.G.)	100ug/ml in Methanol	F58JS	1ml	

Category Name	Specification	Catalog#	Size	CAS#
4-Nitrophenol (S.G.)	100ug/ml in Methanol	F58S	5ml	
4-Nitrophenol (d4) (S.G.)		FD58-A	0.1g	R
4-Nitrophenol (d4) (S.G.)		FD58-C	0.25g	R
4-Nitrophenol (S.G.)		O-896	5g	100-02-7
4-Nitrophenol sodium salt		6416F	1g	824-78-2
p-Nitrophenoxyacetic acid		6562K	10mg	1798-11-4
o-Nitrophenoxyacetic acid		6565K	100mg	1878-87-1
p-Nitrophenyl acetate		6407H	500mg	830-03-5
m-Nitrophenylacetic acid		2146L	100mg	1877-73-2
o-Nitrophenylacetic acid		6421E	5g	3740-52-1
p-Nitrophenylacetic acid		6420	1g	104-03-0
p-Nitrophenylacetonitrile (S.G.)		O-850	500mg	555-21-5
4-(p-Nitrophenylazo)orcinol		6394J	10mg	74-39-5
4-(p-Nitrophenylazo)resorcinol		6430F	1g	74-39-5
2-Nitrophenyl disulfide		6571K	1g	1155-00-6
3-Nitrophenyl disulfide		6432F	1g	537-91-7
4-Nitrophenyl disulfide		6568K	1g	100-32-3
4-Nitro-o-phenylenediamine		6433F	1g	99-56-9
p-Nitrophenyl formate		2182L	500mg	1865-01-6
2-Nitrophenyl-b-D-galactopyranoside		2134L	100mg	369-07-3
p-Nitrophenyl hydrazine		6450	5g	100-16-3
m-Nitrophenyl isocyanate		6435F	1g	3320-86-3
p-Nitrophenyl isocyanate		6455B	1g	100-28-7
3-Nitrophenyl isothiocyanate		6574K	10mg	3529-82-6
4-Nitrophenyl isothiocyanate		6577K	100mg	2131-61-5
p-Nitrophenyl-2-nitro-4-[trifluoromethyl]phenyl ether		PS-431	250mg	15457-05-3
Nitrophenyloxamic acid		6456E	500mg	R
4-Nitrophenyl phosphorodichloridate		3178L	500mg	
p-Nitrophenyl trifuoroacetate		2257L	500mg	658-78-6
3-Nitrophthalic acid		6490	5g	603-11-2
4-Nitrophthalic acid		6500	5g	610-27-5
3-Nitrophthalic anhydride		6510	10g	641-70-3
3-Nitrophthalimide		6514B	1g	603-62-3
4-Nitrophthalimide		6515B	5g	89-40-7
6-Nitropiperonal		2227L	250mg	712-97-0
6-Nitropiperonal-p-nitrophenyl hydrazine		3253L	100mg	
2-Nitropropane (S.G.)		F243S	5g	79-46-9
2-Nitropropane Solution (S.G.)	100ug/ml in Methanol	F243SJS	1ml	
2-Nitropropane (S.G.)	100ug/ml in Methanol	F243SS	5ml	
1-Nitropropane (S.G.)		O-856	10g	108-03-2
2-Nitropropane (S.G.)		O-857	10g	79-46-9
5-Nitro-2-n-propylaminopyridine		6580K	10mg	R
4-Nitropyridine-N-oxide		6583K	1g	1124-33-0
2-(5-Nitro-2-pyridylamino)ethanol		6499F	1g	R
5-Nitroquinoline		6586K	100mg	607-34-1
6-Nitroquinoline		6516B	1g	613-50-3
8-Nitroquinoline		6517B	5g	607-35-2
4-Nitroquinoline-N-oxide (S.G.)		F929	100mg	56-57-5
4-Nitroquinoline-N-oxide Solution (S.G.)	100ug/ml in Methanol	F929JS	1ml	
4-Nitroquinoline-N-oxide (S.G.)	100ug/ml in Methanol	F929S	5ml	
2-Nitroresorcinol		6520	1g	601-89-8
5-Nitrosalicylaldehyde		6530	1g	97-51-8
5-Nitrosalicylic acid		6521A	1g	96-97-9
Nitrosamines - Neat Form		PPN-7N	KIT	
Nitrosamines - Solutions		PPN-7S	KIT	
Nitrosamines Mixture	VARIED in Isooctane	CRFAN-1M	5ml	
Nitrosamines Mixture - 607,8070A	1000ug/ml in Methanol	NA607-1M	5ml	
Nitrosamines Mixture-8270	2000ug/ml in Methylene chloride	N-8270M	5ml	
Nitrosoamines Kit		NAS-9	KIT	
N-Nitrosodi-n-butylamine (S.G.)		F930	100mg	924-16-3
N-Nitrosodi-n-butylamine Solution (S.G.)	100ug/ml in Methanol	F930JS	1ml	
N-Nitrosodi-n-butylamine (S.G.)	100ug/ml in Methanol	F930S	5ml	
N-Nitrosodiethanolamine (S.G.)		F2008	100mg	1116-54-7
N-Nitrosodiethanolamine Solution (S.G.)	100ug/ml in Methanol	F2008JS	1ml	
N-Nitrosodiethanolamine (S.G.)	100ug/ml in Methanol	F2008S	5ml	
N-Nitrosodiethylamine (S.G.)		F931	1g	55-18-5
N-Nitrosodiethylamine Solution (S.G.)	100ug/ml in Methanol	F931JS	1ml	

Category Name	Specification	Catalog#	Size	CAS#
N-Nitrosodiethylamine (S.G.)	100ug/ml in Methanol	F931S	5ml	
N-Nitrosodiisopropylamine (S.G.)		F2009	50mg	**601-77-4**
N-Nitrosodiisopropylamine Solution (S.G.)	100ug/ml in Methanol	F2009JS	1ml	
N-Nitrosodiisopropylamine (S.G.)	100ug/ml in Methanol	F2009S	5ml	
N-Nitrosodimethylamine (S.G.)		F61	250mg	**62-75-9**
N-Nitrosodimethylamine Solution (S.G.)	100ug/ml in Methanol	F61JS	1ml	
N-Nitrosodimethylamine (S.G.)	100ug/ml in Methanol	F61S	5ml	
N-Nitrosodimethylamine (2,2',4,4',6,6'-d6) (S.G.)	1000ug/ml in Methylene chloride	FD61S	1ml	
p-Nitrosodimethylaniline		6550	5g	**138-89-6**
N-Nitrosodiphenylamine (S.G.)		F62	1g	**86-30-6**
N-Nitrosodiphenylamine Solution (S.G.)	100ug/ml in Ethanol	F62JS	1ml	
N-Nitrosodiphenylamine (S.G.)	100ug/ml in Ethanol	F62S	5ml	
N-Nitrosodiphenylamine (2,2',4,4',6,6'-d6) (S.G.)		FD62-E	0.01g	**R**
N-Nitrosodiphenylamine (2,2',4,4',6,6'-d6) (S.G.)	1000ug/ml in Methylene chloride	FD62S	1ml	
N-Nitrosodiphenylamine (S.G.)		0-374	500mg	**86-30-6**
4-Nitrosodiphenylamine		6187J	1g	**156-10-5**
N-Nitrosodi-n-propylamine (S.G.)		F63	1g	**621-64-7**
N-Nitrosodi-n-propylamine Solution (S.G.)	100ug/ml in Hexane	F63JS	1ml	
N-Nitrosodi-n-propylamine (S.G.)	100ug/ml in Hexane	F63S	5ml	
N-Nitrosodi-n-propylamine (d14) Solution (S.G.)	1000ug/ml in Methylene chloride	FD63S	1ml	
N-Nitroso-n-ethylurea (R.G.)		6397J	100mg	**759-73-9**
N-Nitrosomethylethylamine (S.G.)		F932	100mg	**10595-95-6**
N-Nitroso methylethylamine Solution (S.G.)	100ug/ml in Methanol	F932JS	1ml	
N-Nitrosomethylethylamine (S.G.)	100ug/ml in Methanol	F932S	5ml	
**** N-Nitrosomethylurea see 5878C N-Methyl-N-nitrosourea**				
N-Nitrosomorpholine (S.G.)		F933	100mg	**59-89-2**
N-Nitrosomorpholine Solution (S.G.)	100ug/ml in Methanol	F933JS	1ml	
N-Nitrosomorpholine (S.G.)	100ug/ml in Methanol	F933S	5ml	
1-Nitroso-2-naphthol/C.I.#10005		BS-123	1g	**131-91-9**
1-Nitroso-2-naphthol (S.G.)		0-897	500mg	**131-91-9**
2-Nitroso-1-naphthol		6565B	10g	**132-53-6**
1-Nitroso-2-naphthol-3.6-disulfonic acid disodium salt		6546J	1g	**525-05-3**
p-Nitrosophenol - min 30wt% water (R.G.)		6567B	10g	**104-91-6**
N-Nitrosopiperidine (S.G.)		F936	1g	**100-75-4**
N-Nitrosopiperidine Solution (S.G.)	100ug/ml in Methanol	F936JS	1ml	
N-Nitrosopiperidine (S.G.)	100ug/ml in Methanol	F936S	5ml	
N-Nitrosopyrrolidine (S.G.)		F935	1g	**930-55-2**
N-Nitrosopyrrolidine Solution (S.G.)	100ug/ml in Methanol	F935JS	1ml	
N-Nitrosopyrrolidine (S.G.)	100ug/ml in Methanol	F935S	5ml	
4-Nitrosoresorcinol		6521	5g	**698-31-7**
N-Nitrososarcosine		6210J	100mg	**13256-22-9**
**** p-Nitrosothymol see 6570 5-Methyl-4-nitroso-2-isopropylphenol**				
B-Nitrostyrene		6580	1g	**102-96-5**
2-Nitroterephthalic acid		6480	1g	**610-29-7**
Nitrothal isopropyl		PS-2346	100mg	**10552-74-6**
o-Nitrotoluene (S.G.)		F2287	5g	**88-72-2**
o-Nitrotoluene Solution (S.G.)	1000ug/ml in Acetonitrile	F2287AJS	1ml	
o-Nitrotoluene (S.G.)	1000ug/ml in Acetonitrile	F2287AS	5ml	
o-Nitrotoluene Solution (S.G.)	2500ug/ml in t-Butylmethyl ether	F2287JS	1ml	
o-Nitrotoluene (S.G.)	2500ug/ml in t-Butylmethyl ether	F2287S	5ml	
o-Nitrotoluene (S.G.)		0-858	5g	**88-72-2**
m-Nitrotoluene (S.G.)		F2484	2g	**99-08-1**
m-Nitrotoluene Solution (S.G.)	1000ug/ml in Acetonitrile	F2484JS	1ml	
m-Nitrotoluene (S.G.)	1000ug/ml in Acetonitrile	F2484S	5ml	
o-Nitrotoluene (ring-13C6) Solution (S.G.)	100ug/ml in Acetonitrile	FC2287S	1.2ml	
m-Nitrotoluene (S.G.)		0-859	2g	**99-08-1**
p-Nitrotoluene (S.G.)		F2485	5g	**99-99-0**
p-Nitrotoluene Solution (S.G.)	1000ug/ml in Acetonitrile	F2485JS	1ml	
p-Nitrotoluene (S.G.)	1000ug/ml in Acetonitrile	F2485S	5ml	
p-Nitrotoluene (ring 13C6) Solution (1ug/ml in Acetonitrile) (S.G.)	1ug/ml in Acetonitrile	FC2485S	1.2ml	

Category Name	Specification	Catalog#	Size	CAS#
p-Nitrotoluene (S.G.)		0-860	5g	**99-99-0**
5-Nitro-o-toluidine (S.G.)		F934	1g	**99-55-8**
5-Nitro-o-toluidine Solution (S.G.)	100ug/ml in Methanol	F934JS	1ml	
5-Nitro-o-toluidine (S.G.)	100ug/ml in Methanol	F934S	5ml	
5-Nitrouracil		6595B	1g	**611-08-5**
6-Nitroveratraldehyde		2251L	500mg	**20357-25-9**
Nitrox 80*		PS-94	250mg	**298-00-0**
3-Nitro-o-xylene		6594K	1g	**83-41-0**
**** 2-Nitro-m-xylene see F2051 1,3-Dimethyl-2-nitrobenzene**				
N-Methyl-methamidophos		PS-676-1	50mg	**28167-49-9**
N-Methyl-methamidophos Solution	100ug/ml in Acetonitrile	PS-676-1AJS	1mL	
N-Methyl-methamidophos Solution	100ug/ml in Toluene	PS-676-1JS	1mL	
N-Nitroso-N-(1-ethylpropyl)-2,6-dinitro-3,4-xylidine		MET-401A	100mg	**R**
N-Nitrosopendimethalin		MET-401A	100mg	**R**
NNOSBP*		PS-56	100mg	**88-85-7**
Nofar*		PS-1056	50mg	**56073-10-0**
Nogos*		PS-89	250mg	**62-73-7**
Nomersan*		PS-24	1g	**137-26-8**
cis-Nonachlor		MET-75B	25mg	**5103-73-1**
cis-Nonachlor (S.G.)		F2179	25mg	**5103-73-1**
cis-Nonachlor Solution (S.G.)	100ug/ml in Methanol	F2179JS	1ml	
cis-Nonachlor (S.G.)	100ug/ml in Methanol	F2179S	5ml	
trans-Nonachlor		MET-75C	25mg	**39765-80-5**
trans-Nonachlor (S.G.)		F2180	25mg	**39765-80-5**
trans-Nonachlor Solution (S.G.)	100ug/ml in Methanol	F2180JS	1ml	
trans-Nonachlor (S.G.)	100ug/ml in Methanol	F2180S	5ml	
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (S.G.)		6700G	5mg	**40186-72-9**
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (S.G.)	100ug/ml in Hexane	6700GS	2ml	
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (S.G.)		6701G	5mg	**52663-79-3**
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (S.G.)	100ug/ml in Hexane	6701GS	2ml	
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (S.G.)				
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (S.G.)	100ug/ml in Hexane	6702GS	2ml	
n-Nonadecane (S.G.)		F2269	1g	**629-92-5**
n-Nonadecane Solution (S.G.)	10,000ug/ml in Methylene chloride	F2269JS	1ml	
n-Nonadecane (S.G.)	10,000ug/ml in Methylene chloride	F2269S	5ml	
n-Nonadecane (d40) (S.G.)		FD2269-1	1g	**R**
n-Nonadecane (d40) (S.G.)		FD2269-A	0.1g	**R**
n-Nonadecane (S.G.)		0-2203	1g	**629-92-5**
n-Nonadecanoic acid (C19) (S.G.)		0-2326	1g	**646-30-0**
2-Nonadecanone (S.G.)		0-2209	100mg	**629-66-3**
Nonamethylene diammonium adipate (R.G.)		N-230	1g	**R**
Nonamethylene diammonium terephthalate (R.G.)		N-240	1g	**R**
Nonanal (S.G.)		F2332	1g	**124-19-6**
Nonanal Solution (S.G.)	1000ug/ml in Acetonitrile	F2332JS	1ml	
Nonanal (S.G.)	1000ug/ml in Acetonitrile	F2332S	5ml	
Nonanal (DNPH Derivative) (S.G.)		F2351	100mg	**R**
Nonanal (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2351AJS	1ml	
Nonanal (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2351AS	5ml	
Nonanal (DNPH Derivative) Solution (S.G.)	1000ug/ml in Methanol:Acetonitrile (80:20)	F2351JS	1ml	
Nonanal (DNPH Derivative) (S.G.)	1000ug/ml in Methanol:Acetonitrile (80:20)	F2351S	5ml	
Nonanal (S.G.)		0-2211	1g	**124-19-6**
n-Nonane (S.G.)		F1099	5g	**111-84-2**
n-Nonane Solution (S.G.)	100ug/ml in Methanol	F1099JS	1ml	
n-Nonane (S.G.)	100ug/ml in Methanol	F1099S	5ml	
n-Nonane (d20) (S.G.)		FD1099-1	1g	**R**
n-Nonane (d20) (S.G.)		FD1099-5	5g	**R**
1.9-Nonanediol		6597B	1g	**3937-56-2**
Nonanoic acid (S.G.)		0-21	5g	**112-05-0**
1-Nonanol (S.G.)		0-2210	1g	**143-08-8**
2-Nonanol		6540H	500mg	**628-99-9**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
2-Nonanone (S.G.)		O-2213	100mg	821-55-6
5-Nonanone (S.G.)		O-2214	1g	502-56-7
Nonanonitrile		6600F	1g	2243-27-8
trans-2-Nonenal (S.G.)		F2929	250mg	18829-56-6
1-Nonene (S.G.)		O-2205	500mg	124-11-8
trans-3-Nonene (S.G.)		O-2207	100mg	20063-92-7
trans-4-Nonene (S.G.)		O-2208	500mg	10405-85-3
4-Nonene (cis & trans) (S.G.)		O-2216	500mg	2198-23-4
Nonene-1-oxide		6603F	500mg	R
Nonenylsuccinic anhydride		6605F	1g	28928-97-4
Non-Halogenated Volatiles Mix #1-8015/8240	100ug/ml in Methanol:Water (90:10)	NHV-1M	5ml	
Nonionic Surfactants Kit		SU-150	KIT	
Non Priority Pollutants - Solutions Kit		NOP-1S	KIT	
Non Priority Pollutants-Neat		NOP-1N	KIT	
Nonyl acetate		6608F	1g	143-13-5
p-n-Nonylphenol (13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC7002S	1.2ml	
Nonyl phenol (TECH)		S-306	10g	25154-52-3
Nonylphenoxy poly(ethyleneoxy)ethanol, branched. POE 10.5-11 (TECH)		S-351	10g	68412-54-4
Nonylphenoxy poly(ethyleneoxy)ethanol, branched. POE 7-8 (TECH)		S-349	10g	68412-54-4
1-Nonyne (S.G.)		O-2215	1g	3452-09-3
2-Nonyne (S.G.)		O-2217	1g	19447-29-1
3-Nonyne (S.G.)		O-2218	1g	20184-89-8
2-Norbornanecarbonitrile		2263L	250mg	2234-26-6
5-Norbornene-2,3-dicarboxylic acid		2782L	500mg	3853-88-1
5-Norbornene-2.2-dimethanol		6630K	10mg	6707-12-6
5-Norbornene-2-methanol		6600	5g	95-12-5
exo-Norborneol		2230L	250mg	497-37-0
Norbornylene		6618F	1g	498-66-8
Norcamphor		2233L	250mg	497-38-1
Norephedrine hydrochloride		2653L	1g	154-41-6
Norflurazon (S.G.)		F2240	100mg	27314-13-2
Norflurazon Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2240JS	1ml	
Norflurazon (S.G.)	100ug/ml in t-Butylmethyl ether	F2240S	5ml	
Norflurazon		PS-1044	100mg	27314-13-2
Norflurazon Solution	100ug/ml in Acetonitrile	PS-1044AJS	1mL	
DL-Norleucine (TECH)		AA-16	1g	616-06-8
Norphenylephrine hydrochloride		6623F	100mg	636-87-3
Nortron*		PS-1045	250mg	26225-79-6
3a,alpha,4alpha,5alpha,7alpha,7a,alpha-N,N-Dimethyl-N' -(octahydro-4,7-methano-1H (S.G.)		F2920	1g	18530-56-8
Noruron		PS-2288	1g	18530-56-8
Noruron Solution	100ug/ml in Acetonitrile	PS-2288AJS	1mL	
Noruron Solution	100ug/ml in Toluene	PS-2288JS	1mL	
DL-Norvaline (R.G.)		AA-17	1g	760-78-1
Novaluron		PS-2253	100mg	116714-46-6
Novaluron Solution	100ug/ml in Acetonitrile	PS-2253AJS	1mL	
Novaluron Solution	100ug/ml in Toluene	PS-2253JS	1mL	
NPA		PS-343	250mg	132-66-1
Nucidol*		PS-90	250mg	333-41-5
Nucleinic acid		6630F	100mg	9008-72-4
Nurele*		PS-2203	250mg	65731-84-2
Nustar*		PS-2041	100mg	85509-19-9
Nuvacron*		PS-609	250mg	6923-22-4
Nuvan*		PS-89	250mg	62-73-7
Nuvanol* N		PS-1206	5ml	18181-70-9
Nylar*		PS-2109	10mg	23031-36-9
Nylmerate*		PS-14	1g	62-38-4
0,0,0-Trimethyl phosphorothioate (S.G.)		F2570	100mg	152-18-1
0,0-Dimethyl phosphoramidothionate (S.G.)		F2942	250mg	17321-47-0
O-1000A One Year Replacement Kit		O-1000A-R6	KIT	
O-1000A- Three Year Replacement Kit - Part E		O-1000A-R24E	KIT	
O-1000A Three Year Replacement Kit - Part A		O-1000A-R24A	KIT	
O-1000A Three Year Replacement Kit - Part B		O-1000A-R24B	KIT	
O-1000A Three Year Replacement Kit - Part C		O-1000A-R24C	KIT	
O-1000A Three Year Replacement Kit - Part D		O-1000A-R24D	KIT	
O-1000A TWo Year Replacement Kit		O-1000A-R12	KIT	
Octabromobiphenyl (S.G.)		O-2221	100mg	27858-07-7
Octachlor*		PS-75	250mg	57-74-9
2.2'.3.3'.4.4'.5.5'-Octachlorobiphenyl (S.G.)		6680G	5mg	35694-08-7
2.2'.3.3'.4.4'.5.5'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	6680GS	2ml	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	9081GS	2ml	
2,2',3,3',4,5,5',6'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	9082GS	2ml	
2.2'.3.3'.4.4'.5.6-Octachlorobiphenyl (S.G.)		6681G	5mg	52663-78-2
2.2'.3.3'.4.4'.5.6-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	6681GS	2ml	
2.2'.3.3'.4.5.5'.6-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	6682GS	2ml	
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (S.G.)		9081G	5mg	42740-50-1
2,2',3,3',4,5,6,6'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	9050GS	2ml	
2.2'.3.3'.4.5.5'.6-Octachlorobiphenyl (S.G.)		6682G	5mg	68194-17-2
2.2'.3.3'.4.5'.6.6'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	6683GS	2ml	
2.2'.3.3'.5.5'.6.6'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	6684GS	2ml	
2,2',3,3',4,5,6,6'-Octachlorobiphenyl (S.G.)		9050G	5mg	52663-73-7
2.2'.3.3'.4.5'.6.6'-Octachlorobiphenyl (S.G.)		6683G	5mg	40186-71-8
2.2'.3.4.4'.5.6.6'-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	6685GS	2ml	
2,3,3',4,4',5,5',6-Octachlorobiphenyl (S.G.)	100ug/ml in Hexane	9051GS	2ml	
2,2',3,3',4,5,5',6'-Octachlorobiphenyl (S.G.)		9082G	5mg	52663-75-9
2.2'.3.3'.5.5'.6.6'-Octachlorobiphenyl (S.G.)		6684G	5mg	2136-99-4
2.2'.3.4.4'.5.6.6'-Octachlorobiphenyl (S.G.)		6685G	5mg	74472-52-9
2,3,3',4,4',5,5',6-Octachlorobiphenyl (S.G.)		9051G	5mg	74472-53-0
Octachlorodibenzo-p-dioxin (S.G.)		6690G	50mg	R
Octachlorodibenzo-p-dioxin (S.G.)	50ug/ml in Toluene	6690GS	1ml	
Octachlorodibenzofuran (S.G.)		6695G	50mg	R
Octachlorodibenzofuran (S.G.)	50ug/ml in Toluene	6695GS	1ml	
1.3.4.5.6.7.8.8-Octachloro-1.3.3a.4.7.7a-hexahydro-4.7-methano		PS-704	10mg	297-78-9
1.2.4.5.6.7.8.8-Octachloro-4.7-methane-3a.4.7.7a-tetrahydroind		PS-75	250mg	57-74-9
Octachlorostyrene Solution (S.G.)	100ug/ml in Methylene chloride	F2479JS	1ml	
Octachlorostyrene (S.G.)	100ug/ml in Methylene chloride	F2479S	5ml	
1.2.4.5.6.7.8.8-Octachloro-3a.4.7.7a-tetrahydro-4.7-methanoind		PS-75	250mg	57-74-9
Octacide 264*		PS-962	250mg	113-48-4
n-Octacosane (S.G.)		F2196	500mg	630-02-4
n-Octacosane Solution (S.G.)	100ug/ml in Methylene chloride	F2196JS	1ml	
n-Octacosane (S.G.)	100ug/ml in Methylene chloride	F2196S	5ml	
n-Octacosane (S.G.)		O-2227	500mg	630-02-4
** 9.2-Octadecadienoic acid see 0-19 Linoleic acid				
n-Octadecane (S.G.)		F2188	2g	593-45-3
n-Octadecane Solution (S.G.)	100ug/ml in Methylene chloride	F2188JS	1ml	
n-Octadecane (S.G.)	100ug/ml in Methylene chloride	F2188S	5ml	
n-Octadecane (S.G.)		O-739	2g	593-45-3
1-Octadecanethiol		6620	10g	2885-00-9
** Octadecanoic acid see 0-27 Stearic acid				
1-Octadecanol (S.G.)		O-164	5g	112-92-5
1-Octadecene (S.G.)		O-2219	5g	112-88-9
** 9-Octadecenoic acid see 0-23 Oleic acid				
Octadecyl acetate (S.G.)		O-435	500mg	822-23-1
n-Octadecylamine (TECH)		S-492	10g	R
Octadecyl-3.5-di-tert-butyl-4-hydroxycinnamate (TECH)		Ou-16	3g	R
Octadecyltrimethyl ammonium chloride (TECH)		S-607	10g	R
1.3-Octadiene (S.G.)		O-2228	100mg	1002-33-1
1.4-Octadiene (cis & trans) (S.G.)		O-2229	100mg	5675-25-2
1.7-Octadiene (S.G.)		O-2220	5g	3710-30-3
1.7-Octadiyne (S.G.)		O-2230	500mg	871-84-1
Octafluoronaphthalene (S.G.)		O-2295	100mg	313-72-4
Octahydro-1,3,5,7-tetranitro-1,3,5,7 -tetrazocine Solution (S.G.)	1000ug/ml in Acetonitrile	F2481JS	1mL	
Octahydro-1,3,5,7-tetranitro-1,3,5,7 -tetrazocine (S.G.)	1000ug/ml in Acetonitrile	F2481S	5mL	
Octa-Klor*		PS-75	250mg	57-74-9
g-Octalactone		6643F	1g	104-50-7
Octalox*		PS-76	250mg	60-57-1
Octamethylene diamine (R.G.)		N-250	1g	373-44-4
Octamethylene diamine phenylene-1.4-diacetic acid salt (R.G.)		N-260	1g	R
Octamethylene diammonium adipate (R.G.)		N-270	1g	R
Octamethylene diammonium sebacate (R.G.)		N-290	1g	R
Octamethylene diammonium suberate (R.G.)		N-300	1g	R
Octamethyleneimine		6644F	100mg	5661-71-2
Octamethylpyrophosphoramide		PS-2338	50mg	152-16-9
n-Octane (S.G.)		F2413	1g	111-65-9
n-Octane Solution (S.G.)	1000ug/ml in Methanol	F2413JS	1ml	

Category Name	Specification	Catalog#	Size	CAS#
n-Octane (S.G.)	1000ug/ml in Methanol	F2413S	5ml	
n-Octane (d18) (S.G.)		FD2413-1	1g	R
n-Octane (d18) (S.G.)		FD2413-5	5g	R
n-Octane (S.G.)		0-740	1g	111-65-9
100 Octane Aviation Fuel Solution (S.G.)	2500ug/ml in Methanol	CSRGO-661-1JS	1ml	
100 Octane Aviation Fuel Solution (S.G.)	50,000ug/ml in Methylene chloride	CSRGO-662-1JS	1ml	
1-Octanesulfonic acid, sodium salt monohydrate		2389L	100mg	5324-84-5
1-Octanethiol (S.G.)		0-981	5g	111-88-6
Octanoic acid (S.G.)		0-22	2g	124-07-2
** 1-Octanol see 0-166 Octyl alcohol				
2-Octanol (S.G.)		0-165	10g	123-96-6
4-Octanol		6675J	500mg	589-62-8
3-Octanone (S.G.)		0-2222	1g	106-68-3
2-Octanone (S.G.)		0-811	5g	111-13-7
Octanophenone (S.G.)		F2253	1g	1674-37-9
Octanophenone Solution (S.G.)	1000ug/ml in Acetonitrile	F2253JS	1ml	
Octanophenone (S.G.)	1000ug/ml in Acetonitrile	F2253S	5ml	
n-Octatriacontane (S.G.)		0-2233	100mg	7194-85-6
Octave*		PS-2175	250mg	67747-09-5
trans 3-Octene (S.G.)		0-2234	500mg	14919-01-8
1-Octene (S.G.)		0-756	5g	111-66-0
2-Octene (S.G.)		0-757	500mg	111-67-1
trans-4-Octene (S.G.)		0-2225	1g	14850-23-8
Octyl acetate		6695F	1g	112-14-1
n-Octyl acrylate		6696F	1g	2499-59-4
Octyl alcohol (S.G.)		F2273	5g	111-87-5
Octyl alcohol Solution (S.G.)	2500ug/ml in Methanol	F2273JS	1ml	
Octyl alcohol (S.G.)	2500ug/ml in Methanol	F2273S	5ml	
Octyl alcohol (S.G.)		0-166	10g	111-87-5
Octyl aldehyde (S.G.)		F2333	1g	124-13-0
Octyl aldehyde Solution (S.G.)	1000ug/ml in Acetonitrile	F2333JS	1ml	
Octyl aldehyde (S.G.)	1000ug/ml in Acetonitrile	F2333S	5ml	
Octyl aldehyde (DNPH Derivative) (S.G.)		F2352	100mg	R
Octyl aldehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2352AJS	1ml	
Octyl aldehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2352AJS	1ml	
Octyl aldehyde (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2352AS	5ml	
Octyl aldehyde (DNPH Derivative) Solution (S.G.)	1000ug/ml in Methanol:Acetonitrile (80:20)	F2352JS	1ml	
Octyl aldehyde (DNPH Derivative) (S.G.) [ampul	1000ug/ml in Methanol:Acetonitrile (80:20)	F2352S	5ml	
Octyl aldehyde (S.G.)		0-2235	1g	124-13-0
n-Octylamine (S.G.)		0-2223	5g	111-86-4
n-Octylbenzene (S.G.)		0-2224	1g	2189-60-8
N-Octylbicycloheptene dicarboximide		PS-962	250mg	113-48-4
Octyl decyl adipate (TECH)		Pz-28	10g	110-29-2
n-Octyl-n-decyl phthalate (S.G.)		Pt-38	10g	119-07-3
n-Octyl-n-decyl phthalate (TECH)		Pz-505	10g	119-07-3
Octylene glycol*		PS-102	1g	94-96-2
Octylene glycol diglycolate (TECH)		Pz-775	10g	R
n-Octyl epoxystearate (TECH)		Pz-940	10g	R
** Octyl ether see 4285F Dioctyl ether				
Octyl isodecyl phthalate (S.G.)		Pt-39	10g	R
Octyl isodecyl phthalate (TECH)		Pz-510	10g	R
N-Octyl methacrylate		6711J	100mg	2157-01-9
n-Octyl nitrile		6697F	500mg	124-12-9
p-n-Octylphenol (S.G.)		F2937	250mg	1806-26-4
p-tert-Octylphenol (S.G.)		F2938	5g	140-66-9
Octylphenoxyethoxyethyl dimethyl-benzyl ammonium chloride (TECH)		S-621	10g	121-54-0
tert-Octylphenoxy poly(oxyethylene)ethanol (TECH)		S-337	10g	9036-19-5
p-Octylphenyl salicylate (TECH)		Ou-104	3g	R
n-Octylsuccinic anhydride		6701F	1g	4200-92-4
n-Octyl sulphoxide of isosafrole		PS-976	100mg	120-62-7
2-(Octylthio)ethanol		PS-952	1g	3547-33-9
1-Octyne (S.G.)		0-2231	5g	629-05-0
2-Octyne (S.G.)		0-2236	1g	2809-67-8
3-Octyne (S.G.)		0-2237	500mg	15232-76-5
4-Octyne (S.G.)		0-2232	1g	1942-45-6

Category Name	Specification	Catalog#	Size	CAS#
OFF*		PS-902	250mg	134-62-3
Ofir*		PS-2207	100mg	66246-88-6
Oftanol		PS-1003	100mg	25311-71-1
Ofunack*		PS-2155	250mg	119-12-0
Ohric*		PS-2154	500mg	24096-53-5
Oil & Grease Spiking Mixture - 1664	4000ug/ml in Acetone	OG1664-1M	5ml	
Oil red EGN/C.I.#26120		BS-141	1g	4477-79-6
Oil red O/C.I.#26125		BS-159	1g	1320-06-5
Oko*		PS-89	250mg	62-73-7
Oleamide (TECH)		Pz-138	10g	301-02-0
Oleamide (TECH)		S-589	10g	301-02-0
Oleic acid (S.G.)		0-23	10g	112-80-1
Oleic acid (TECH)		S-10	10g	112-80-1
Oleic acid diethanolamide (TECH)		S-597	10g	93-83-4
Oleic acid monoisopropanolamide (TECH)		S-604	10g	111-05-7
Oleic amido alkyl dimethylamine (TECH)		S-575	10g	R
Oleyl alcohol (TECH)		Pz-135	10g	143-28-2
Oleyl alcohol (TECH)		S-304	10g	143-28-2
Oleyl amido betaine (TECH)		S-570	10g	R
Oleylamine (TECH)		S-494	10g	112-90-3
Oleylamine acetate (TECH)		S-541	10g	R
N-Oleyl sarcosine (TECH)		S-586	10g	R
Olymp*		PS-2041	100mg	85509-19-9
Omal		PS-10	1g	88-06-2
Omega*		PS-2175	250mg	67747-09-5
Omethoate		PS-2017	100mg	1113-02-6
Omethoate Solution	100ug/ml in Toluene	PS-2017JS	1ml	
Propargite Solution	100ug/ml in Toluene	PS-858JS	1ml	
Omtan		PS-704	10mg	297-78-9
One Methyl Branched Alkenes		Oh-33	KIT	
Onmex*		PS-2207	100mg	66246-88-6
O,O-Diethyl O-(1,2,2,2-tetrachloroethyl) phosphorothioate		PS-2217	250mg	54593-83-8
Optica*		PS-2116	250mg	16484-77-8
Option*		PS-1088	100mg	66441-23-4
Option*		PS-2223	100mg	71283-80-2
Orange G/C.I.#16230		BS-28	1g	1936-15-8
Orange II/C.I.#15510		BS-24	1g	633-96-5
Orange IV/C.I.#13080		BS-17	1g	554-73-4
Orbit*		PS-1214	5ml	67564-91-4
Orcein		6723J	100mg	1400-62-0
Orchard Leaves Solution		XCRM-OL-A	100ml	
Orchard Leaves Solution		XCRM-OL-B	250ml	
Orchard Leaves Solution		XCRM-OL-C	500ml	
Orcinol monohydrate		6726F	1g	6153-39-5
Ordram*		PS-501	250mg	2212-67-1
Oreste*		PS-2155	250mg	119-12-0
Organic Compounds - 525 - Neat		OCDW-525N	KIT	
Organic Compounds - 525 - Solution		OCDW-525S	KIT	
Organic Compounds Mixtures & Solution Kit - 525.1		MMS525-5	KIT	
Organic Halogens		Ox-160A	KIT	
Organic Ministockroom (sheet MSDS)		O-1000A	KIT	
Organic ministockroom with disk		O-1000AD	KIT	
Organic Sulfur		Os-70A	KIT	
Organochlorine Pesticide Matrix Spiking Mixture-8270	Varied Conc. in Acetone	OCP-MSM	5ml	
Organochlorine Pesticides 608/625/8080/8081-Neat		PPO-8N	KIT	
Organochlorine Pesticides 608/625/8080/8081-Solutions		PPO-8S	KIT	
Organochlorine Pesticides Mixture #1 - 508	1000ug/ml in t-Butylmethyl ether	OCP508-1JM	1ml	
Organochlorine Pesticides Mixture #1 - 508	1000ug/ml in t-Butylmethyl ether	OCP508-1M	5ml	
Organochlorine Pesticides Mixture #2 - 508	1000ug/ml in t-Butylmethyl ether	OCP508-2JM	1ml	
Organochlorine Pesticides Mixture #2 - 525.2	500ug/ml in Acetone	OCPH-525JM	1ml	
Organochlorine Pesticides Mixture #3 - 508.1	500ug/ml in Ethyl acetate	OCP508-3M	5ml	
Organochlorine Pesticides Mixture-608/625/8080/8081	100ug/ml in Toluene:Hexane (50:50)	PPO-8JM	1ml	
Organochlorine Pesticides Mixture-608/625/8080/8081	100ug/ml in Toluene:Hexane (50:50)	PPO-8M	5ml	

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Organochlorine Pesticides Mixture-8080/8081				
	100ug/ml in Toluene:Hexane (50:50)	OCP-8080JM	1ml	
Organochlorine Pesticides Mixture-8080/8081				
	100ug/ml in Toluene:Hexane (50:50)	OCP-8080M	5ml	
Organochlorine Pesticides Neat Kit #1 - 608.1		OCP608-1N	KIT	
Organochlorine Pesticides Neat Kit #2 - 608.2		OCP608-2N	KIT	
Organochlorine Pesticides Solutions Kit #1 - 608.1		OCP608-1S	KIT	
Organochlorine Pesticides Solutions Kit #2 - 608.2		OCP608-2S	KIT	
Organohalide Pesticide Mixtures Kit - 505		MMOHP505-2	KIT	
Organohalide Pesticides and Commercial PCB's 505 - Neat		OHP505-1N	KIT	
Organohalide Pesticides and Commercial PCB's - 505 Solutions		OHP505-1S	KIT	
Organohalide Pesticides Mixture #1 - 505 100ug/ml in Toluene		OHP505-1M	5ml	
Organohalide Pesticides Mixture #2 - 505 100ug/ml in Methanol		OHP505-2M	5ml	
Organophosphorous Compounds - 8141 Neat		OPP-8141N	KIT	
Organophosphorous Compounds - 8141 Solutions		OPP-8141S	KIT	
Organophosphorous Compounds 8321 - Neat		OPC-8321N	KIT	
Organophosphorous Compounds Mixture - 8141A	100ug/ml in Toluene	OPC8141A-1JM	1ml	
Organophosphorous Compounds Mixture - 8141	100ug/ml in Toluene	OPP-8141JM	1ml	
Organophosphorous Compounds Mixture - 8141	100ug/ml in Toluene	OPP-8141M	5ml	
Organophosphorous Pesticide Mixture #1 - 1618 VARIED in Isooctane		OPP1618-1M	5ml	
Organophosphorous Pesticide Mixture #2 - 1618 VARIED in Isooctane		OPP1618-2M	5ml	
Organophosphorous Pesticides 8140-Neat		OPP-8140N	KIT	
Organophosphorous Pesticides 8140-Solutions		OPP-8140S	KIT	
Organophosphorous Pesticides Mixture #1 - 614	1000ug/ml in Hexane	OPP614-1M	5ml	
Organophosphorous Pesticides Mixture #2 - 614.1	1000ug/ml in Hexane	OPP614-2M	5ml	
Organophosphorous Pesticides Mixture #2 - 622	1000ug/ml in Hexane	OPP622-1BM	5ml	
Organophosphorous Pesticides Mixture #3 - 622	1000ug/ml in Hexane	OPP622-2M	5ml	
Organophosphorous Pesticides Mixture #4 - 622	1000ug/ml in Hexane	OPP622-3M	5ml	
Organophosphorous Pesticides Mixture-8140	100ug/ml in Methylene chloride	OPP-8140JM	1ml	
Organophosphorous Pesticides Mixture-8140	100ug/ml in Methylene chloride	OPP-8140M	5ml	
Organophosphorous Pesticides Mixtures Kit - 8141A		MMOPP8141-3	KIT	
Organophosphorus Compounds 8321 - Solution		OPC-8321S	KIT	
Organophosphorus Pesticides Mixture-8270	2000ug/ml in Hexane:Acetone (80:20)	CSHC-13	5ml	
Ormetoprim		PS-2277	250mg	**6981-18-6**
Ormetoprim Solution	100ug/ml in Acetonitrile	PS-2277AJS	1mL	
Ormetoprim Solution	100ug/ml in Toluene	PS-2277JS	1mL	
L-Ornithine dihydrochloride		6732F	100mg	**6211-16-1**
L-(+)-Ornithine hydrochloride		6732H	1g	**3184-13-2**
Orotic acid monohydrate		6800K	1g	**50887-69-9**
Orthene*		PS-738	250mg	**30560-19-1**
Orthoboric acid H3B03 99.99%		XB-A-A	5g	
Orthoboric acid H3B03 99.99%		XB-A-B	25g	
Ortho-mite*	100ug/ml in Hexane	PS-850	5ml	**140-57-8**
Orthophos*		PS-95	500mg	**56-38-2**
Orthotran*		PS-855	250mg	**80-33-1**
Ortus*		PS-2216	100mg	**134098-61-6**
Oryzalin		PS-410	1g	**19044-88-3**
Oryzalin Solution	100ug/ml in Toluene	PS-410JS	1mL	
Oryzalin (S.G.)		F2386	1g	**19044-88-3**
Oryzalin Solution (S.G.)	1000ug/ml in Acetonitrile	F2386JS	1ml	
Oryzalin (S.G.)	1000ug/ml in Acetonitrile	F2386S	5ml	
Oryzamate*		PS-2082	500mg	**27605-76-1**
Osbac*		PS-1046	250mg	**3766-81-2**
OSHA Regulated Chemicals		OSHA-450	KIT	
Osmium (NH4)202CI6, 99.996%, 10% HCl		X100070-2-A	100ml	
Otetryn*		PS-2200	250mg	**2058-46-0**
Ouabain		6737F	100mg	**630-60-4**
Oust Weed Killer*		PS-1074	100mg	**74222-97-2**
Outrider*		PS-2224	100mg	**141776-32-1**
Ovex		PS-855	250mg	**80-33-1**
Ovex Solution	100ug/ml in Acetonitrile	PS-855AJS	1mL	
Ovex Solution	100ug/ml in Hexane	PS-855JS	1mL	
Ovotox*		PS-855	250mg	**80-33-1**
Ovotran*		PS-855	250mg	**80-33-1**
7-Oxabicyclo[2.2.1]heptane-2.3-dicarboxylic acid		PS-345	100mg	**62059-43-2**
Oxadiazon		PS-1050	250mg	**19666-30-9**
Oxadiazon Solution	100ug/ml in Acetonitrile	PS-1050AJS	1mL	
Oxadiazon Solution	100ug/ml in Toluene	PS-1050JS	1mL	
Oxadiazon-hydroxy 10ng/ul in Toluene		MET-1050A	5ml	**R**

Category Name	Specification	Catalog#	Size	CAS#
Oxadixyl		PS-2137	100mg	**77732-09-3**
Oxadixyl Solution	100ug/ml in Acetonitrile	PS-2137AJS	1mL	
Oxadixyl Solution	100ug/ml in Toluene	PS-2137JS	1ml	
Oxalic acid dihydrate (S.G.)		0-69	2g	**6153-56-6**
Oxamic acid		6730	5g	**471-47-6**
Oxamide (S.G.)		0-255	1g	**471-46-5**
Oxamyl		PS-737	250mg	**23135-22-0**
Oxamyl (S.G.)		F2044	250mg	**23135-22-0**
Oxamyl Solution (S.G.)	100ug/ml in Acetonitrile	F2044JS	1ml	
Oxamyl (S.G.)	100ug/ml in Acetonitrile	F2044S	5ml	
Oxanilide (S.G.)		0-265	500mg	**620-81-5**
Oxanilide (copper inhibitor) (TECH)		0u-81	3g	**620-81-5**
2-Oxazolidone		6745F	1g	**497-25-6**
Oxindole		6749F	1g	**59-48-3**
Oxine-copper		PS-2091	500mg	**10380-28-6**
Oxlopar*		PS-2200	250mg	**2058-46-0**
**** 3-Oxobutanoic acid ethyl ester see 0-465 Ethylacetoacetate**				
Oxohydroxybis(8-hydroxy quinolino)-vanadium (V)		6755F	1g	**41922-39-8**
Oxolinic acid		PS-2297	250mg	**14698-29-4**
Oxolinic acid Solution	100ug/ml in Acetonitrile	PS-2297AJS	1mL	
Oxolinic acid Solution	100ug/ml in Toluene	PS-2297JS	1mL	
**** 2-Oxopropanoic acid see 0-56 Pyruvic acid**				
**** 1.1'-Oxybis(butane) see 0-565 Butyl ether**				
Oxybis(2-ethyl acetate) (S.G.)		0-506	500mg	**628-68-2**
**** 1.1'-Oxybis(3-methylbutane) see 0-560 Isoamyl ether**				
10.10'-Oxybis(phenoxarsine)		6757F	5g	**58-36-6**
**** 3.3'-Oxybis(1-propene) see 0-559 Allyl ether**				
Oxybis(tributyltin)		PS-282	1g	**56-35-9**
Oxycarboxin		PS-295	1g	**5259-88-1**
Oxycarboxin Solution	100ug/ml in Acetonitrile	PS-295AJS	1mL	
Oxycarboxin Solution	100ug/ml in Toluene	PS-295JS	1mL	
Oxychlordane 100ug/ml in Methanol	100ug/ml in Methanol	MET-75A	5ml	**27304-13-8**
Oxychlordane 100ug/ml in Methanol	100ug/ml in Methanol	MET-75AJS	1ml	
Oxydemeton-methyl		PS-641	50mg	**301-12-2**
Oxydemeton-methyl Solution	100ug/ml in Acetonitrile	PS-641AJS	1mL	
Oxydemeton-methyl sulfone		PS-642	100mg	**17040-19-6**
a.a'-Oxydiacetic acid (S.G.)		0-79	1g	**110-99-6**
4,4'-Oxydianiline (S.G.)		F2127	500mg	**101-80-4**
4,4'-Oxydianiline Solution (S.G.)	100ug/ml in Methanol	F2127JS	1ml	
4,4'-Oxydianiline (S.G.)	100ug/ml in Methanol	F2127S	5ml	
4.4'-Oxydiphenol		6743B	1g	**1965-09-9**
3.3'-Oxydipropionitrile (S.G.)		0-846	1g	**1656-48-0**
Oxyfluorfen		PS-1033	250mg	**42874-03-3**
Oxyfluorfen Solution	100ug/ml in Methanol	PS-1033JS	1mL	
Oxygenates in Gasoline - ASTM D4815-93	**VARIED**	OG4815-1M	5ml	
Oxyject 100*		PS-2200	250mg	**2058-46-0**
**** Oxyranyl methanol see 0-175 2,3-Epoxy-1-propanol**				
Oxytetracycline hydrochloride		PS-2200	250mg	**2058-46-0**
Oxytetrin*		PS-2200	250mg	**2058-46-0**
Oxythioquinox*		PS-860	100mg	**2439-01-2**
Oyster Tissue Solution		XCRM-OT-A	100ml	
Oyster Tissue Solution		XCRM-OT-B	250ml	
Oyster Tissue Solution		XCRM-OT-C	500ml	
P.O.E. (10) Dodecyl phenol (S.G.)		S-360-1	1g	**9014-92-0**
Paarlan*		PS-406	250mg	**33820-53-0**
Paclobutrazol		PS-2097	500mg	**76738-62-0**
Paclobutrazol Solution	100ug/ml in Acetonitrile	PS-2097AJS	1mL	
Paclobutrazol Solution	100ug/ml in Toluene	PS-2097JS	1ml	
Padan*		PS-2069	250mg	**22042-59-7**
PAH - Control Sample Mixture - 8310/610/8100	**VARIED in Acetonitrile**	CSM-8310M	5ml	
PAH 610/525/550-Neat		PPH-10N	KIT	
PAH 610/525/550-Solutions		PPH-10S	KIT	
PAH Mixture - 525	500ug/ml in Toluene	PAH525-1JM	1ml	
PAH Mixture - 525	500ug/ml in Toluene	PAH525-1M	5ml	
PAH Mixture #2 - 525.2	100ug/ml in Acetone	PAH525-2JM	1ml	
PAH Mixture #4 - 550 VARIED in Acetonitrile		PAH550-4M	5ml	
PAH-Mixture 610/525/550	100ug/ml in Methanol	PPH-10JM	1ml	
PAH-Mixture 610/525/550	100ug/ml in Methanol	PPH-10M	5ml	

Category Name	Specification	Catalog#	Size	CAS#
PAH Mixture-8270	2000ug/ml in Methylene chloride: Benzene (50:50)	PAH-8270M	5ml	
Paicer*		PS-2064	1g	**71561-11-0**
Palatinol M*		PS-901	1g	**131-11-3**
Palladium - 10% HCl		X10M 38-2-100	100ml	
Palladium - 10% HCl		X10M 38-2-250	250ml	
Palladium - 10% HCl		X10M 38-2-500	500ml	
Palladium - 10% HNO3 + trace of Cl		X10M 38-1-100	100ml	
Palladium - 10% HNO3 + trace of Cl		X10M 38-1-250	250ml	
Palladium - 10% HNO3 + trace of Cl		X10M 38-1-500	500ml	
Palladium - Pd metal, 99.99%, 5% HCl		X100038-2-A	100ml	
Palladium - Pd metal, 99.99%, 5% HCl		X100038-2-B	250ml	
Palladium - Pd metal, 99.99%, 5% HCl		X100038-2-C	500ml	
Palladium Metal (Pd) 99.99%		XPD-MP-A	1g	
Palladium Metal (Pd) 99.99%		XPD-MP-B	5g	
Palladium Nitrate Pd(NO3)2 99.99%		XPD-NO-S-A	2g	
Palladium Nitrate Pd(NO3)2 99.99%		XPD-NO-S-B	10g	
Palladium Oxide (PdO) 99.99%		XPD-O-A	1g	
Palladium Oxide (PdO) 99.99%		XPD-O-B	5g	
Palladium Pd Metal, 99.99%, 10% HNO3		X100038-1-A	100ml	
Palladium Pd Metal, 99.99%, 10% HNO3		X100038-1-B	250ml	
Palladium Pd Metal, 99.99%, 10% HNO3		X100038-1-C	500ml	
Palladium wire		RE-160	100mg	**7440-05-3**
Palmitamide		2827L	100mg	**629-54-9**
Palmitic acid (S.G.)		O-24	2g	**57-10-3**
Palmitic acid (TECH)		S-6	10g	**57-10-3**
Pancreatin		6759J	10g	**8249-47-6**
(R)-(-)-Pantolactone		6873K	100mg	**599-04-2**
Papain		6760F	1g	**9001-73-4**
Papthion*		PS-2025	100mg	**2597-03-7**
Parabanic acid		6744B	1g	**120-89-8**
Parabis*		PS-6	250mg	**97-23-4**
Paracide*		PS-3	1g	**106-46-7**
para-Ethylvinylbenzene (S.G.)		F2907	250mg	**3454-07-7**
Paraformaldehyde (S.G.)		O-232	5g	**30525-89-4**
Paramoth		PS-3	1g	**106-46-7**
Paraoxon		PS-610	100mg	**311-45-5**
Paraoxon Solution	100ug/ml in Acetonitrile	PS-610AJS	1mL	
Paraoxon Solution		PS-610JS	1mL	
Paraphos*		PS-95	500mg	**56-38-2**
Paraquat dichloride tetrahydrate Solution (S.G.)	1770ug/ml in De-ionized water	F1103AJS	1ml	
Paraquat dichloride tetrahydrate Solution (1770ug/ml in De-ionized water) (S.G.)				
	1770ug/ml in De-ionized water	F1103AS	5ml	
Paraquat dichloride tetrahydrate Solution (S.G.)	100ug/ml in De-ionized water	F1103JS	1ml	
Paraquat dichloride tetrahydrate (S.G.)	100ug/ml in De-ionized water	F1103S	5ml	
Paraquat CL tetrahydrate		PS-366	500mg	**1910-42-5**
Pararosaniline acetate		BS-48	1g	**6035-94-5**
**** Pararosaniline chloride see BS-49 Basic fuchsin**				
Parathion (S.G.)		F998	500mg	**56-38-2**
Parathion Solution (S.G.)	100ug/ml in Acetonitrile	F998JS	1ml	
Parathion (S.G.)	100ug/ml in Acetonitrile	F998S	5ml	
Parathion (diethyl-d10) (S.G.)		FD998-E	0.01g	**R**
Parathion (diethyl-d10) Solution (S.G.)	100ug/ml in n-Nonane	FD998S	1.2ml	
Parathion		PS-95	500mg	**56-38-2**
Parathion Solution	100ug/ml in Toluene	PS-95JS	1mL	
**** Parathion ethyl see F998 Parathion**				
**** Parathion methyl see F996 Methyl Parathion**				
Parathion methyl O-analog		PS-613	100mg	**950-35-6**
Parathion O-analog		PS-610	100mg	**311-45-5**
Paridol*		PS-94	250mg	**298-00-0**
Parlay		PS-2097	500mg	**76738-62-0**
PARTIAL PAYMENT		PP		
Parton*		PS-94	250mg	**298-00-0**
Parzate*		PS-23	1g	**12122-67-7**
Parzate Liquid*		PS-220	250mg	**142-59-6**
Parzate zineb*		PS-23	1g	**12122-67-7**
Patent blue/C.I.#42045		BS-112	1g	**129-17-9**
Patoran		PS-374	250mg	**3060-89-7**
Paturyl*		PS-2206	250mg	**1214-39-7**

Category Name	Specification	Catalog#	Size	CAS#
Pay-Off*		PS-1072	100mg	**70124-77-5**
Payze*		PS-387	250mg	**21725-46-2**
PCA		PS-430	250mg	**1698-60-8**
PCB Mixture - 525.1	100ug/ml in Acetone	PCB525-1JM	1ml	
PCB Mixture - 525.1	100ug/ml in Acetone	PCB525-1M	5ml	
PCB Mixture #2 - 525.2	500ug/ml in Acetone	PCBH525-1JM	1ml	
PCNB*		PS-150	1g	**82-68-8**
**** PCNB see F999 Pentachloronitrobenzene**				
PCP*		PS-7	1g	**87-86-5**
2% Pd in 10% HNO3		XMM-9022-A	100ml	
2% Pd in 10% HNO3		XMM-9022-B	250ml	
2% Pd in 10% HNO3		XMM-9022-C	500ml	
1% Pd in 10%HNO3		XMM-9021-A	100ml	
1% Pd in 10%HNO3		XMM-9021-B	250ml	
1% Pd in 10%HNO3		XMM-9021-C	500ml	
0.5% Pd in 10%HNO3		XMM-9023-A	100ml	
0.5% Pd in 10%HNO3		XMM-9023-B	250ml	
0.5% Pd in 10%HNO3		XMM-9023-C	500ml	
0.1% Pd in 5% HNO3		XMM-9020-A	100ml	
0.1% Pd in 5% HNO3		XMM-9020-B	250ml	
0.1% Pd in 5% HNO3		XMM-9020-C	500ml	
PDB*		PS-3	1g	**106-46-7**
PDU*		PS-61	250mg	**101-42-8**
Peak*		PS-2123	100mg	**94125-34-5**
PEBC		PS-55	1g	**1114-71-2**
Pebulate		PS-55	1g	**1114-71-2**
**** Pebulate see F2233 S-Propyl butylethylthiocarbamate**				
PEG 400 (S.G.)		F2159	5g	**25322-68-3**
PEG 400 Solution (S.G.)	100ul/ml in Methanol	F2159JS	1ml	
PEG 400 (100ul/ml in Methanol) (S.G.)	100ul/ml in Methanol	F2159S	5ml	
PEG 600 (S.G.)		F2160	5g	**25322-68-3**
PEG 600 Solution (S.G.)	100ul/ml in Methanol	F2160JS	1ml	
PEG 600 (100ul/ml in Methanol) (S.G.)	100ul/ml in Methanol	F2160S	5ml	
PEG 1000 (TECH)		S-651	1g	**25322-68-3**
Pegasus*		PS-2221	250mg	**80060-09-9**
PEG (400) di and tri ricinoleate (TECH)		S-194	10g	**R**
PEG 200 diisostearate (TECH)		S-162	10g	**R**
PEG 400 diisostearate (TECH)		S-163	10g	**R**
PEG 200 dilaurate (TECH)		S-132	10g	**R**
PEG 300 dilaurate (TECH)		S-133	10g	**R**
PEG 400 dilaurate (TECH)		S-134	10g	**68139-91-3**
PEG 600 dilaurate (TECH)		S-135	10g	**R**
PEG 1000 dilaurate (TECH)		S-136	10g	**R**
PEG 1540 dilaurate (TECH)		S-137	10g	**R**
PEG 6000 dilaurate (TECH)		S-138	10g	**R**
PEG 200 dioleate (TECH)		S-175	10g	**R**
PEG 400 dioleate (TECH)		S-176	10g	**R**
PEG 600 dioleate (TECH)		S-177	10g	**R**
PEG 1000 dioleate (TECH)		S-178	10g	**R**
PEG 1540 dioleate (TECH)		S-179	10g	**R**
PEG 4000 dioleate (TECH)		S-180	10g	**R**
PEG 6000 dioleate (TECH)		S-181	10g	**R**
PEG 6000 dipalmitate (TECH)		S-653	5g	**R**
PEG 200 distearate (TECH)		S-151	10g	**9005-08-7**
PEG 300 distearate (TECH)		S-152	10g	**9005-08-7**
PEG 400 distearate (TECH)		S-153	10g	**9005-08-7**
PEG 600 distearate (TECH)		S-154	10g	**9005-08-7**
PEG 1000 distearate (TECH)		S-155	10g	**9005-08-7**
PEG 1540 distearate (TECH)		S-156	10g	**9005-08-7**
PEG 4000 distearate (TECH)		S-157	10g	**9005-08-7**
PEG 6000 distearate (TECH)		S-158	10g	**9005-08-7**
PEG 6000 linolenate (TECH)		S-654	1g	**R**
PEG 200 monoisostearate (TECH)		S-159	10g	**56002-14-3**
PEG 400 monoisostearate (TECH)		S-160	10g	**R**
PEG 600 monoisostearate (TECH)		S-161	10g	**R**
PEG 200 monolaurate (TECH)		S-124	10g	**R**
PEG 300 monolaurate (TECH)		S-125	10g	**R**
PEG 400 monolaurate (TECH)		S-126	10g	**R**
PEG 600 monolaurate (TECH)		S-127	10g	**R**

Category Name	Specification	Catalog#	Size	CAS#
PEG 1000 monolaurate (TECH)		S-128	10g	**R**
PEG 1540 monolaurate (TECH)		S-129	10g	**R**
PEG 4000 monolaurate (TECH)		S-130	10g	**R**
PEG 6000 monolaurate (TECH)		S-131	10g	**R**
PEG 6000 monolinoleate (TECH)		S-655	1g	**R**
PEG 200 monooleate (TECH)		S-167	10g	**9004-96-0**
PEG 300 monooleate (TECH)		S-168	10g	**9004-96-0**
PEG 400 monooleate (TECH)		S-169	10g	**9004-96-0**
PEG 600 monooleate (TECH)		S-170	10g	**9004-96-0**
PEG 1000 monooleate (TECH)		S-171	10g	**9004-96-0**
PEG 1540 monooleate (TECH)		S-172	10g	**9004-96-0**
PEG 4000 monooleate (TECH)		S-173	10g	**9004-96-0**
PEG 6000 monooleate (TECH)		S-174	10g	**9004-96-0**
PEG 200 monoricinoleate (TECH)		S-184	10g	**1323-38-2**
PEG 400 monoricinoleate (TECH)		S-185	10g	**R**
PEG 600 monoricinoleate (TECH)		S-186	10g	**R**
PEG 1000 monoricinoleate (TECH)		S-187	10g	**R**
PEG 1200 monoricinoleate (TECH)		S-188	10g	**R**
PEG 300 monostearate (TECH)		S-143	10g	**9004-99-3**
PEG 400 monostearate (TECH)		S-144	10g	**9004-99-3**
PEG 600 monostearate (TECH)		S-145	10g	**9004-99-3**
PEG 1000 monostearate (TECH)		S-146	10g	**9004-99-3**
PEG 1540 monostearate (TECH)		S-147	10g	**9004-99-3**
PEG 4000 monostearate (TECH)		S-148	10g	**9004-99-3**
PEG 6000 monostearate (TECH)		S-149	10g	**9004-99-3**
PEG 6000 palmitate (TECH)		S-652	5g	**R**
PEG 200 Stearate (TECH)		S-142	10g	**9004-99-3**
PEG (200) trihydroxy stearate (TECH)		S-203	10g	**R**
Pelargonamide		6759B	5g	**R**
Pelargonic acid (TECH)		S-2	10g	**112-05-0**
**** Pelargonic acid see 0-21 Nonanoic acid**				
Penchlorol		PS-7	1g	**87-86-5**
Penconazole		PS-2207	100mg	**66246-88-6**
Penconazole Solution	100ug/ml in Acetonitrile	PS-2207AJS	1mL	
Penconazole Solution	100ug/ml in Toluene	PS-2207JS	1ml	
Pencycuron		PS-1095	100mg	**66063-05-6**
Pencycuron		PS-1095	100mg	**66063-05-6**
Pencycuron Solution	100ug/ml in Acetonitrile	PS-1095AJS	1mL	
Pencycuron Solution	100ug/ml in Toluene	PS-1095JS	1mL	
Pendimethalin		PS-401	1g	**40487-42-1**
Pendimethalin		PS-401	1g	**40487-42-1**
Pendimethalin Solution	10ug/ml in Acetonitrile	PS-401AJS	1mL	
**** Pendimethalin see F2438 Prowl**				
DL-Penicillamine		6765F	100mg	**52-66-4**
L-(+)-Penicillamine		6877K	10mg	**1113-41-3**
D-(-)-Penicillamine		6879K	10mg	**52-67-5**
Penncozeb*		PS-2095	500mg	**8018-01-7**
Pennfluid*		PS-2095	500mg	**8018-01-7**
Pennsylvania DER Gasoline Range Hydrocarbons Mixture	1000ug/ml in Methanol	USTGRHPA-1JM	1ml	
Pennsylvania DER Gasoline Range Hydrocarbons Mixture	1000ug/ml in Methanol	USTGRHPA-1M	5ml	
Pennsylvania Extractable Polynuclear Aromatic Hydrocarbons				
(PAH) Standards Mix	2000ug/ml in Methylene chloride	USTPAHPA-1JM	1ml	
Pennsylvania Extractable Polynuclear Aromatic Hydrocarbons				
(PAH) Standards Mix	2000ug/ml in Methylene chloride	USTPAHPA-1M	5ml	
Pennsylvania Volatile Petroleum Hydrocarbon Standards Mixture				
	Varied in Methanol	USTVPPA-1JM	1ml	
Pennsylvania Volatile Petroleum Hydrocarbon Standards Mixture				
	Varied in Methanol	USTVPPA-1M	5ml	
Penoxsulam		PS-2359	50mg	**219714-96-2**
Penphene*		PS-79	250mg	**8001-35-2**
Penta*		PS-7	1g	**87-86-5**
Pentaaminechlorocobalt(III)chloride		3022L	100mg	
2.2′.4.5.5′Pentabromobiphenyl (S.G.)	100ug/ml in Hexane	6752GS	2ml	
2.2′.4.5′.6-Pentabromobiphenyl (S.G.)		6750G	5mg	**59080-39-6**
2.2′.4.5′.6-Pentabromobiphenyl (S.G.)	100ug/ml in Hexane	6750GS	2ml	
Pentabromophenol		6801A	10g	**608-71-9**
Pentac		PS-862	250mg	**2227-17-0**

Category Name	Specification	Catalog#	Size	CAS#
Pentacene (S.G.)		F1046	10mg	**135-48-8**
Pentachlorin*		PS-74	250mg	**8017-34-3**
Pentachloroaniline		MET-150A	100mg	**527-20-8**
Pentachloroanisole		PS-1109	1g	**1825-21-4**
Pentachloroanisole (S.G.)		F2156	1g	**1825-21-4**
Pentachloroanisole Solution (S.G.)	100ug/ml in Methanol	F2156JS	1ml	
Pentachloroanisole (S.G.)	100ug/ml in Methanol	F2156S	5ml	
2,3,4,5,6-Pentachloroanisole		PS-1109	1g	**1825-21-4**
Pentachlorobenzene (S.G.)		F938	2g	**608-93-5**
Pentachlorobenzene Solution (S.G.)	100ug/ml in Methylene chloride	F938JS	1ml	
Pentachlorobenzene (S.G.)	100ug/ml in Methylene chloride	F938S	5ml	
2,2′,3,3′,4-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9024GS	2ml	
2,2′,3,4,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9025GS	2ml	
2,2′4,5,6′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9054GS	2ml	
2,3,3′,4,6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9056GS	2ml	
2,3,4′,5,6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9057GS	2ml	
2′,3,4,4′,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9058GS	2ml	
2.2′.3.4.5′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6785GS	2ml	
2,2′,3,3′,4-Pentachlorobiphenyl (S.G.)		9024G	5mg	**52663-62-4**
2,2′,3,4,5-Pentachlorobiphenyl (S.G.)		9025G	10mg	**55312-69-1**
2.2′.3.4.5′-Pentachlorobiphenyl (S.G.)		6785G	10mg	**38380-02-8**
2.2′.3.4.6-Pentachlorobiphenyl (S.G.)		6787G	5mg	**55215-17-3**
2.2′.3.5.6-Pentachlorobiphenyl (S.G.)		6788G	5mg	**73575-56-1**
2,2′,3,5′,6-Pentachlorobiphenyl (S.G.)		9026G	5mg	**38379-99-6**
2.2′.3′.4.5-Pentachlorobiphenyl (S.G.)		6786G	10mg	**41464-51-1**
2,2′,3′,4,6-Pentachlorobiphenyl (S.G.)		9027G	5mg	**60233-25-2**
2,2′,4,4′,5-Pentachlorobiphenyl (S.G.)		9053G	5mg	**38380-01-7**
2.2′.3.4.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6787GS	2ml	
2.2′.4.4′.6-Pentachlorobiphenyl (S.G.)		6791G	5mg	**39485-83-1**
2.2′.4.5.5′-Pentachlorobiphenyl (S.G.)		6789G	10mg	**37680-73-2**
2,2′4,5,6′-Pentachlorobiphenyl (S.G.)		9054G	5mg	**68194-06-9**
2.2′.4.5′.6-Pentachlorobiphenyl (S.G.)		6790G	10mg	**60145-21-3**
2.2′.4.6.6′-Pentachlorobiphenyl (S.G.)		6792G	5mg	**56558-16-8**
2,3,3′,4,4′-Pentachlorobiphenyl (S.G)		9028G	5mg	**32598-14-4**
2.2′.3.5.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6788GS	2ml	
2,3,3′,4,5-Pentachlorobiphenyl (S.G.)		9055G	5mg	**70424-69-0**
2,2′,3,5′,6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9026GS	2ml	
2,3,3′,4,5′-Pentachlorobiphenyl (S.G.)		9029G	5mg	**70362-41-3**
2.2′.3′.4.5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6786GS	2ml	
2,3,3′,4,6-Pentachlorobiphenyl (S.G.)		9056G	5mg	**74472-35-8**
2,2′,3′,4,6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9027GS	2ml	
2,3,3′,4′,6-Pentachlorobiphenyl (S.G.)		9030G	5mg	**38380-03-9**
2,2′,4,4′,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9053GS	2ml	
2.3.3′.5.6-Pentachlorobiphenyl (S.G.)		6793G	5mg	**74472-36-9**
2,3,4,4′,5-Pentachlorobiphenyl (S.G.)		9031G	5mg	**74472-37-0**
2.3.4.4′.6-Pentachlorobiphenyl (S.G.)		6794G	5mg	**74472-38-1**
2.2′.4.5.5′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6789GS	2ml	
2.3.4.5.6-Pentachlorobiphenyl (S.G.)		6795G	10mg	**18259-05-7**
2,3,4′,5,6-Pentachlorobiphenyl (S.G.)		9057G	5mg	**68194-11-6**
2,3′,4,4′,5-Pentachlorobiphenyl (S.G.)		9032G	5mg	**31508-00-6**
2.3′.4.4′.6-Pentachlorobiphenyl (S.G.)		6796G	5mg	**56558-17-9**
2.3′.4.5′.6-Pentachlorobiphenyl (S.G.)		6797G	5mg	**56558-18-0**
2′,3,3′,4,5-Pentachlorobiphenyl (S.G.)		9033G	5mg	**76842-07-4**
2′,3,4,4′,5-Pentachlorobiphenyl (S.G.)		9058G	5mg	**65510-44-3**
2.2′.4.5′.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6790GS	2ml	
2′,3,4,5,5′-Pentachlorobiphenyl (S.G.)		9034G	5mg	**70424-70-3**
3,3′,4,4′,5-Pentachlorobiphenyl (S.G.)		9035G	10mg	**57465-28-8**
3,3′,4,5,5′-Pentachlorobiphenyl (S.G.)		9036G	5mg	**39635-33-1**
2.2′.4.4′.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6791GS	2ml	
2.2′.4.6.6′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6792GS	2ml	
2,3,3′,4,4′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9028GS	2ml	
2,3,3′,4,5′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9029GS	2ml	
2,3,3′,4′,6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9030GS	2ml	
2.3.3′.5.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6793GS	2ml	
2,3,4,4′,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9031GS	2ml	
2.3.4.4′.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6794GS	2ml	
2.3.4.5.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6795GS	2ml	

Category Name	Specification	Catalog#	Size	CAS#
2,3′,4,4′,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9032GS	2ml	
2.3′.4.4′.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6796GS	2ml	
2.3′.4.5′.6-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	6797GS	2ml	
2′,3,3′,4,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9033GS	2ml	
2′,3,4,5,5′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9034GS	2ml	
3,3′,4,4′,5-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9035GS	2ml	
3,3′,4,5,5′-Pentachlorobiphenyl (S.G.)	100ug/ml in Hexane	9036GS	2ml	
2′.3′.4′.5.5′-Pentachloro-2-biphenylol (S.G.)		6800G	5mg	**R**
Pentachlorocyanobenzene (S.G.)		F2930	100mg	**20925-85-3**
Pentachloroethane (S.G.)		F937	5g	**76-01-7**
Pentachloroethane Solution (S.G.)	100ug/ml in Hexane	F937JS	1ml	
Pentachloroethane (S.G.)	100ug/ml in Hexane	F937S	5ml	
Pentachloronitrobenzene		PS-150	1g	**82-68-8**
Pentachloronitrobenzene (S.G.)		F999	1g	**82-68-8**
Pentachloronitrobenzene Solution (S.G.)	1000ug/ml in Isooctane	F999AJS	1ml	
Pentachloronitrobenzene (S.G.)	1000ug/ml in Isooctane	F999AS	5ml	
Pentachloronitrobenzene Solution (S.G.)	2000ug/ml in Ethyl acetate	F999BJS	1ml	
Pentachloronitrobenzene (S.G.)	2000ug/ml in Ethyl acetate	F999BS	5ml	
Pentachloronitrobenzene Solution (S.G.)	5000ug/ml in Isooctane	F999CJS	1ml	
Pentachloronitrobenzene (S.G.)	5000ug/ml in Isooctane	F999CS	5ml	
Pentachloronitrobenzene Solution (S.G.)	100ug/ml in Methanol	F999JS	1ml	
Pentachloronitrobenzene (S.G.)	100ug/ml in Methanol	F999S	5ml	
Pentachlorophenol		PS-7	1g	**87-86-5**
Pentachlorophenol (S.G.)		F64	1g	**87-86-5**
Pentachlorophenol Solution (S.G.)	100ug/ml in Methanol	F64JS	1ml	
Pentachlorophenol (S.G.)	100ug/ml in Methanol	F64S	5ml	
Pentachlorophenol (13C6) (S.G.)		FC64-E	0.01g	**R**
Pentachlorophenol (S.G.)		O-892	500mg	**87-86-5**
Pentachlorophenol methyl ester		PS-1109	1g	**1825-21-4**
**** Pentachlorophenol methyl ester see F2156 Pentachloroanisole**				
Pentachlorophenyl acetate		PS-2384	POR	**1441-02-7**
2,3,3′,4,5-Pentachloropiphenyl (S.G.)	in Methanol	9055GS	2ml	
Pentachloropyridine		6887K	1g	**2176-62-7**
Pentachlorothioanisole (S.G.)		O-2415	100mg	**1825-19-0**
Pentachlorothiophenol		MET-690B	100mg	**133-49-3**
**** Pentachlorothiophenol see MET-690B in Pesticide Catalog**				
2,3,4,5,6-Pentachlorotoluene (S.G.)		F2149	50mg	**877-11-2**
2,3,4,5,6-Pentachlorotoluene Solution (S.G.)	100ug/ml in Toluene	F2149JS	1ml	
2,3,4,5,6-Pentachlorotoluene (S.G.)	100ug/ml in Toluene	F2149S	5ml	
n-Pentacosane (S.G.)		O-2246	100mg	**629-99-2**
n-Pentadecane (S.G.)		O-2238	5g	**629-62-9**
n-Pentadecane (d32) (S.G.)		O-D2238-1	1g	**R**
n-Pentadecane (d32) (S.G.)		O-D2238-5	5g	**R**
Pentadecanoic acid (C15) (S.G.)		O-2324	100mg	**1002-84-2**
1-Pentadecanol (S.G.)		O-2239	1g	**629-76-5**
2-Pentadecanone (S.G.)		O-2244	100mg	**2345-28-0**
8-Pentadecanone		6786J	1g	**818-23-5**
trans-1.3-Pentadiene (S.G.)		O-2247	100mg	**2004-70-8**
**** 1.3-Pentadiene see 7140 Piperylene**				
**** 2.4-Pentadione see O-815 Acetyl acetone**				
Pentaerythritol (S.G.)		O-201	5g	**115-77-5**
Pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (S.G.)		Ou-111	3g	**6683-19-8**
Pentaerythritol diformal		6776E	10g	**126-54-5**
Pentaerythritol dioleate (TECH)		S-256	10g	**R**
Pentaerythritol distearate (TECH)		S-253	10g	**R**
Pentaerythritol monolaurate (TECH)		S-251	10g	**R**
Pentaerythritol monooleate (TECH)		S-255	10g	**R**
Pentaerythritol monoricinoleate (TECH)		Pz-780	10g	**R**
Pentaerythritol monostearate (TECH)		S-252	10g	**78-23-9**
Pentaerythritol tetraacetate		6777B	5g	**597-71-7**
Pentaerythritol tetrabromide		6806A	5g	**3229-00-3**
Pentaerythritol tetranitrate Solution (S.G.)		F2523JS	1mL	
Pentaerythritoltetranitrate (S.G.)		F2523JS	1mL	
Pentaerythritol tetranitrate Solution (S.G.)	1000ug/ml in Acetonitrile	F2523S	5mL	

Category Name	Specification	Catalog#	Size	CAS#
Pentaerythritol tetraricinoleate (TECH)		Pz-785	10g	**R**
Pentaerythritol tetraricinoleate (TECH)		S-258	10g	**R**
Pentaerythritol tetrastearate (S.G.)		O-494	5g	**115-83-3**
Pentaerythritol tetrastearate (TECH)		S-254	10g	**115-83-3**
Pentaerythritol trioleate (TECH)		S-257	10g	**R**
Pentaerythrityl tetrabis(3.5-di-tert-butyl-4-hydroxycinnamate) (TECH)		Ou-17	3g	**R**
Pentafluoroacetophenone		6771F	500mg	**652-29-9**
Pentafluorobenzene (S.G.)		F841	1g	**363-72-4**
Pentafluorobenzene Solution (S.G.)	2000ug/ml in Methanol	F841JS	1ml	
Pentafluorobenzene (S.G.)	2000ug/ml in Methanol	F841S	5ml	
Pentafluorobenzylbromide (S.G.)		F2303	1g	**1765-40-8**
**** O-(2,3,5,6-Pentafluorobenzyl)-hydroxylamine hydrochloride see F2563 PFBHA**				
2,3,4,5,6-Pentafluorobiphenyl (S.G.)		F2162	100mg	**784-14-5**
2,3,4,5,6-Pentafluorobiphenyl Solution (S.G.)	1000ug/ml in Methylene chloride	F2162JS	1ml	
2,3,4,5,6-Pentafluorobiphenyl (S.G.)	1000ug/ml in Methylene chloride	F2162S	5ml	
Pentafluorophenol (S.G.)		F440	1g	**771-61-9**
Pentafluorophenol Solution (S.G.)	100ug/ml in Methanol	F440JS	1ml	
Pentafluorophenol (S.G.)	100ug/ml in Methanol	F440S	5ml	
Pentafluoropropionic acid		6895K	100mg	**422-64-0**
Pentamethylbenzene		6776F	1g	**700-12-9**
Pentamethyl diethylenetriamine		6780	10g	**3030-47-5**
Pentamethylene chlorohydrin-5-chloro-1-pentanol		6777F	1g	**5259-98-3**
**** Pentanal see O-234 Valeraldehyde**				
n-Pentane (S.G.)		F2414	5g	**109-66-0**
n-Pentane Solution (S.G.)	1000ug/ml in Methanol	F2414JS	1ml	
n-Pentane (S.G.)	1000ug/ml in Methanol	F2414S	5ml	
n-Pentane (d12) (S.G.)		FD2414-1	1g	**R**
n-Pentane (d12) (S.G.)		FD2414-5	5g	**R**
n-Pentane (S.G.)		O-2240	5g	**109-66-0**
2.4-Pentanediol		6806H	500mg	**625-69-4**
1.5-Pentanediol (S.G.)		O-202	2g	**111-29-5**
2.3-Pentanedione (S.G.)		O-818	500mg	**600-14-6**
Pentanochlor		PS-2281	100mg	**2307-68-8**
Pentanochlor Solution	100ug/ml in Acetonitrile	PS-2281AJS	1mL	
Pentanochlor Solution	100ug/ml in Toluene	PS-2281JS	1mL	
**** Pentanoic acid see O-29 Valeric acid**				
2-Pentanol (S.G.)		O-2199	5g	**6032-29-7**
3-Pentanol (S.G.)		O-2245	5g	**584-02-1**
**** 1-Pentanol see O-139 Amyl alcohol**				
**** 2-Pentanol see O-2199 Methyl propyl carbinol**				
2-Pentanone (S.G.)		F2403	2g	**107-87-9**
2-Pentanone Solution (S.G.)	1000ug/ml in Methanol:Water (90:10)	F2403JS	1ml	
2-Pentanone (S.G.)	1000ug/ml in Methanol:Water (90:10)	F2403S	5ml	
2-Pentanone (S.G.)		O-812	2g	**107-87-9**
3-Pentanone (S.G.)		O-813	10g	**96-22-0**
1-Pentene (S.G.)		O-2241	1g	**109-67-1**
2-Pentene (S.G.)		O-2242	1g	**109-68-2**
cis-2-Pentene (S.G.)		O-2243	100mg	**627-20-3**
trans-2-Pentene (S.G.)		O-2249	100mg	**646-04-8**
4-Pentenoic acid		6790	5g	**591-80-0**
Pentol triphosphite		6813A	5g	**R**
**** Pentyl acetate see O-2003 Amyl Acetate**				
Pentyl[2-chloro-5-(cyclohex-1-ene-1,2-dicarboximido)-4-fluorop		PS-2119	500mg	**87546-18-7**
Pentyl disulfide		6802F	1g	**2051-04-9**
Pentylene tetrazole		6805	5g	**54-95-5**
Pentyl ether		6810	10g	**693-65-2**
1-Pentyne (S.G.)		O-2250	1g	**627-19-0**
2-Pentyne (S.G.)		O-2251	1g	**627-21-4**
3-Pentyn-1-ol		6803F	500mg	**10229-10-4**
4-Pentyn-1-ol		6804F	500mg	**5390-04-5**
Perchlorobenzene		PS-690	250mg	**118-74-1**
Perchloromethanethiol		PS-224	1g	**594-42-3**
Perchloromethyl mercaptan		PS-224	1g	**594-42-3**

Category Name	Specification	Catalog#	Size	CAS#
Perchloromethyl mercaptan Solution	100ug/ml in Acetonitrile	PS-224AJS	1mL	
Perchloromethyl mercaptan Solution	100ug/ml in Toluene	PS-224JS	1mL	
Perchloropentacyclodecane		PS-702	100mg	**2385-85-5**
Perenox		I-2980	10g	**1317-39-1**
Perfekthion*		PS-659	250mg	**60-51-5**
Perfluorobutyric acid		6820	10g	**375-22-4**
Perfluorocaprylic acid		6825C	5g	**335-67-1**
Perfluoro surfactant - cationic (TECH)		S-637	10g	**R**
Perfluorotributylamine (S.G.)		F2163	500mg	**311-89-7**
Performance Check Mixture - 525.2	500ug/ml in Toluene	PCM525-1M	5ml	
Perhydrofluorene (S.G.)		F1044	1g	**5744-03-6**
Perhydrofluorene Solution (S.G.)	100ug/ml in Toluene	F1044JS	1ml	
Perhydrofluorene (S.G.)	100ug/ml in Toluene	F1044S	5ml	
Perinaphthenone		6817F	100mg	**548-39-0**
Periodic acid		I-4730	5g	**10450-60-9**
Perm E-8*		PS-2028	1g	**1338-02-9**
Permethrin (S.G.)		F2216	250mg	**52645-53-1**
Permethrin Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2216JS	1ml	
Permethrin (S.G.)	100ug/ml in t-Butylmethyl ether	F2216S	5ml	
Permethrin		PS-758	250mg	**52645-53-1**
cis-Permethrin		PS-758-1	50mg	**61949-76-6**
cis-Permethrin Solution	100ug/ml in Acetonitrile	PS-758-1AJS	1mL	
cis-Permethrin Solution	100ug/ml in MTBE	PS-758-1JS	1mL	
Permethrin Solution	100ug/ml in Acetonitrile	PS-758AJS	1mL	
Trans-Permethrin (Isomeric Mix)		PS-758-2	50mg	**61949-77-7**
Trans-Permethrin (Isomeric Mix) Solution	100ug/ml in Acetonitrile	PS-758-2AJS	1mL	
Trans-Permethrin (Isomeric Mix) Solution	100ug/ml in MTBE	PS-758-2JS	1mL	
cis-Permethrin (phenoxy-13C6) 50ug/mL in n-Nonane Solution (S.G.)				
	50ug/mL in n-Nonane	FC2216AS	1.2mL	
trans-Permethrin (phenoxy-13C6) 50ug/mL in n-Nonane Solution (S.G.)				
	50ug/mL in n-Nonane	FC2216BS	1.2mL	
Permit*		PS-2108	100mg	**100784-20-1**
Peropal*		PS-2063	250mg	**41083-11-8**
Perthane		PS-73	1g	**72-56-0**
Perthane (TM) (S.G.)		F2295	1g	**72-56-0**
Perthane (TM) (S.G.)	1000ug/ml in Isooctane	F2295S	5ml	
Perylene (S.G.)		F1047	100mg	**198-55-0**
Perylene Solution (S.G.)	100ug/ml in Toluene	F1047JS	1ml	
Perylene (S.G.)	100ug/ml in Toluene	F1047S	5ml	
Perylene-d12 (S.G.)		F750	10mg	**1520-96-3**
Perylene-d12 Solution (S.G.)	2000ug/ml in Methylene chloride	F750JS	1ml	
Perylene-d12 (S.G.)	2000ug/ml in Methylene chloride	F750S	5ml	
PESTICIDE & ENVIRONMENTAL MSDS DISK		DSK-201	DSK	
Pesticide Control Sample Mixture	VARIED in Toluene	CSM-8080M	5ml	
Pesticide Manual		PM	book	
Pesticides Mixture #1 - 507	1000ug/ml in t-Butylmethyl ether	PM507-1M	5ml	
Pesticides Mixture #2 - 507	1000ug/ml in t-Butylmethyl ether	PM507-2M	5ml	
Pesticides Mixture #3 - 507	1000ug/ml in t-Butylmethyl ether	PM507-3M	5ml	
Pesticides Mixture #4 - 507	1000ug/ml in t-Butylmethyl ether	PM507-4M	5ml	
Pesticides Mixture #5 - 507	1000ug/ml in t-Butylmethyl ether	PM507-5M	5ml	
Pesticide Standard Mixture A	VARIED in Hexane	CLP-18M	5ml	
Pesticide Standard Mixture B	VARIED in Toluene:Hexane (50:50)	CLP-19M	5ml	
Pestmaster EDB-85*		PS-154	1g	**106-93-4**
Petrochemical Calibration Mixture #1 - (ASTM D2887) - GRO/DRO VARIED		PCM-1M	5ml	
Petroleum ether (BP range 30-60C) (S.G.)		O-2252	5g	**8032-32-4**
Petroleum Hydrocarbons Reference Oil Mixture - GRO/DRO - 418.1 VARIED		TPH418-1M	10ml	
PFBHA (S.G.)		F2563	100mg	**57981-02-9**
Phaltan*		PS-26	250mg	**133-07-3**
**** Phenacetin see F912 p-Acetophenetidide**				
Phenacide*		PS-79	250mg	**8001-35-2**
Phenamiphos		PS-612	250mg	**22224-92-6**
Phenamiphos Solution	100ug/ml in Acetonitrile	PS-612AJS	1mL	
Phenamiphos Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2246JS	1ml	
Phenamiphos (S.G.)	100ug/ml in t-Butylmethyl ether	F2246S	5ml	

Category Name	Specification	Catalog#	Size	CAS#
Phenanthrene (S.G.)		F81	1g	**85-01-8**
Phenanthrene Solution (S.G.)	100ug/ml in Toluene	F81JS	1ml	
Phenanthrene Solution (S.G.)	100ug/ml in Methanol	F81MJS	1ml	
Phenanthrene (S.G.)	100ug/ml in Methanol	F81MS	5ml	
Phenanthrene (S.G.)	100ug/ml in Toluene	F81S	5ml	
Phenanthrene (13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC81S	1.2ml	
Phenanthrene (S.G.)		O-790	5g	**85-01-8**
Phenanthrene-d10 (S.G.)		F208	100mg	**1517-22-2**
Phenanthrene-d10 Solution (S.G.)	2000ug/ml in Methylene chloride	F208AJS	1ml	
Phenanthrene-d10 (S.G.)	2000ug/ml in Methylene chloride	F208AS	5ml	
Phenanthrene-d10 Solution (S.G.)	100ug/ml in Methanol	F208JS	1ml	
Phenanthrene-d10 (S.G.)	100ug/ml in Methanol	F208S	5ml	
Phenanthrene-9-carboxaldehyde		2371L	100mg	**4707-71-5**
Phenanthrenequinone		6902K	10mg	**84-11-7**
**** 1.10-Phenanthrolene see 6833F 1.10-Phenanthroline monohydrate**				
o-Phenanthroline ferrous sulfate complex		6833J	1g	**14634-91-4**
1.10-Phenanthroline monohydrate		6833F	100mg	**5144-89-8**
1.10-Phenanthroline monohydrochloride		6834F	100mg	**3829-86-5**
**** Phenazone see 2021F Antipyrene**				
Phencapton*		PS-88	1g	**786-19-6**
Phenethyl acetate		6904K	1g	**103-45-7**
Phenethylamine (S.G.)		O-350	2g	**64-04-0**
p-Phenethylazophenyl hexanoate		6835F	100mg	**R**
m-Phenetidine		6833B	1g	**621-33-0**
p-Phenetidine		6835	5g	**156-43-4**
p-Phenetidine hydrochloride		2407L	1g	**637-56-9**
Phenetole (S.G.)		O-595	1g	**103-73-1**
Phenetox*		PS-79	250mg	**8001-35-2**
Phenmedipham		PS-1014	250mg	**13684-63-4**
Phenmedipham		PS-1014	250mg	**13684-63-4**
Phenmedipham		PS-1014	250mg	**13684-63-4**
Phenmedipham		PS-1014	250mg	**13684-63-4**
Phenmedipham Solution	100ug/ml in Acetonitrile	PS-1014AJS	1mL	
Phenmedipham Solution	100ug/ml in Toluene	PS-1014JS	1mL	
Phenmerzyl nitrate*		PS-202	100mg	**55-68-5**
Phenol (S.G.)		F65	5g	**108-95-2**
Phenol Solution (S.G.)	100ug/ml in Methanol	F65JS	1ml	
Phenol (S.G.)	100ug/ml in Methanol	F65S	5ml	
Phenol (13C6) (S.G.)		FC65-A	0.1g	**R**
Phenol (ring-d5) (S.G.)		FD65-1	1g	**4165-62-2**
Phenol (ring-d5) (S.G.)		FD65-5	5g	**4165-62-2**
Phenol (S.G.)		O-879	5g	**108-95-2**
Phenol-d6 (S.G.)		F330	100mg	**13127-88-3**
Phenol-d6 Solution (S.G.)	2000ug/ml in Methanol	F330JS	1ml	
Phenol-d6 (S.G.)	2000ug/ml in Methanol	F330S	5ml	
Phenolphthalein		6837	5g	**77-09-8**
Phenols		Oph-60A	KIT	
Phenols Kit-Neat Form-604		PP-2N	KIT	
Phenols Kit-Solutions Form-604		PP-2S	KIT	
Phenols Mixture - 604	VARIED in Methanol	PP-2M	5ml	
Phenols Mixture #1-8040	2000ug/ml in Isopropanol	CSHC-1	5ml	
Phenols Mixture #2-8040	2000ug/ml in Isopropanol	CSHC-2	5ml	
Phenols Mixture-8040	1000ug/ml in Isopropanol	PH-1M	5ml	
Phenols Standards 8040-Neat		PH-1N	KIT	
Phenols Standards 8040-Solutions		PH-1S	KIT	
p-Phenolsulfonic acid sodium salt		6843B	10g	**825-90-1**
Phenothiazine (S.G.)		O-717	5g	**92-84-2**
Phenothiazine		PS-733	1g	**92-84-2**
Phenothiazine Solution	100ug/ml in Acetonitrile	PS-733AJS	1mL	
Phenothiazine Solution	100ug/ml in Toluene	PS-733JS	1mL	
Phenothioxin (S.G.)		O-718	500mg	**262-20-4**
d-(cis-trans)-Phenothrin (S.G.)		F2458	50mg	**26002-80-2**
d-(cis-trans)-Phenothrin Solution (S.G.)	1000ug/ml in Acetonitrile	F2458JS	1ml	
d-(cis-trans)-Phenothrin (S.G.)	1000ug/ml in Acetonitrile	F2458S	5ml	

Category Name	Specification	Catalog#	Size	CAS#
d-(cis-trans)-Phenothrin		PS-1030	50mg	26002-80-2
d-Phenothrin*		PS-1030	50mg	26002-80-2
d-(cis-trans)-Phenothrin Solution	100ug/ml in Toluene	PS-1030JS	1mL	
Phenoxur		PS-733	1g	92-84-2
Phenoxyacetic acid (S.G.)		0-115	2g	122-59-8
Phenoxyacetic acid		PS-36	1g	122-59-8
Phenoxyacetic acid Solution	100ug/ml in Methanol	PS-36AJS	1mL	
Phenoxyacetic acid Solution	100ug/ml in MTBE	PS-36JS	1mL	
p-Phenoxyaniline		6912K	1g	139-59-3
3-Phenoxybenzoic acid (phenoxy-13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC2002S	1.2ml	
3-Phenoxybenzoic acid		MET-758C	1g	3739-38-6
3-Phenoxybenzyl d-cis.trans-chrysanthemate		PS-1030	50mg	26002-80-2
m-Phenoxybenzyl alcohol		MET-758B	1g	13826-35-2
4-Phenoxybutyl bromide		6920K	100mg	1200-03-9
Phenoxyethanoic acid		PS-36	1g	122-59-8
2-Phenoxyethanol (S.G.)		0-221	5g	122-99-6
Phenoxyethanol (TECH)		Pz-137	10g	122-99-6
b-Phenoxyethyl acrylate		2317L	1g	48145-04-6
(2-(4-Phenoxyphenoxy)ethyl)carbamic acid ethyl ester		PS-2174	100mg	79127-80-3
[3-Phenoxyphenyl] methyl-[+]-cis,trans-3-[2.2-dichloroethenyl]		PS-758	250mg	52645-53-1
(3-Phenoxyphenyl)methyl-cis-3-(2,2-dichloroethenyl)-2,2-dimeth		PS-758-1	50mg	61949-76-6
4-Phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether		PS-2110	100mg	95737-68-1
2-Phenoxypropionic acid		PS-37	1g	940-31-8
2-Phenoxypropionic acid Solution	100ug/ml in Methanol	PS-37AJS	1mL	
2-Phenoxypropionic acid Solution	100ug/ml in MTBE	PS-37JS	1mL	
m-Phenoxytoluene		6924K	1g	3586-14-9
Phenthoate		PS-2025	100mg	2597-03-7
Phenthoate Solution	100ug/ml in Acetonitrile	PS-2025AJS	1mL	
Phenthoate Solution	100ug/ml in Toluene	PS-2025JS	1ml	
Phentinoacetate		PS-1021	250mg	900-95-8
Phentinoacetate Solution	100ug/ml in Acetonitrile	PS-1021AJS	1mL	
Phentinoacetate Solution	100ug/ml in Toluene	PS-1021JS	1mL	
Phenylacetaldehyde (S.G.)		0-242	1g	122-78-1
Phenylacetamide (S.G.)		0-266	5g	103-81-1
Phenylacetate (S.G.)		0-537	2g	122-79-2
Phenylacetic acid (S.G.)		0-88	5g	103-82-2
Phenylacetic hydrazide		2476L	100mg	937-39-3
Phenylacetonitrile (S.G.)		0-838	10g	140-29-4
p-Phenylacetophenone		6845C	1g	92-91-1
DL-Phenylalanine (R.G.)		AA-18	1g	150-30-1
** 4-(N-Phenylamino)phenol see 0-884 p-Anilinophenol				
9-Phenylanthracene (S.G.)		F1048	100mg	602-55-1
9-Phenylanthracene Solution (S.G.)	100ug/ml in Toluene	F1048JS	1ml	
9-Phenylanthracene (S.G.)	100ug/ml in Toluene	F1048S	5ml	
N-Phenylanthranilic acid		6854A	1g	91-40-7
Phenylarsine oxide		2482L	100mg	637-03-6
Phenyl arsonic acid		6846F	1g	98-05-5
p-Phenylazoaniline (S.G.)		F2088	2g	60-09-3
p-Phenylazoaniline Solution (S.G.)	100ug/ml in Methanol	F2088JS	1ml	
p-Phenylazoaniline (S.G.)	100ug/ml in Methanol	F2088S	5ml	
p-Phenylazoaniline (S.G.)		0-386	2g	60-09-3
p-Phenylazophenol		6858A	10g	1689-82-3
p-Phenylazophenyl isocyanate		6861F	100mg	R
** N-Phenylbenzamide see 0-264 Benzanilide				
Phenyl benzene		PS-2032	1g	92-52-4
Phenyl benzoate (S.G.)		0-538	1g	93-99-2
Phenyl-p-benzoquinone		6932K	10mg	363-03-1
Phenyl biguanide hydrochloride		2893L	1g	
Phenylbiguanide MBT salt		6882F	1g	R
Phenylboric acid		6875A	1g	98-80-6
** 1-Phenyl-1.3-butadiene see 2126A 1-Benzoylacetone				
trans-4-Phenyl-3-butene-2-one (S.G.)		0-825	5g	122-57-6
4-Phenylbutylamine		6896F	1g	13214-66-9
4-Phenyl-3-butyn-2-one		6936K	10mg	1817-57-8
2-Phenylbutyric acid		6890	5g	90-27-7
4-Phenylbutyric acid		6913E	1g	1821-12-1
Phenyl carbamate		2455L	250mg	622-46-8
** Phenyl carbonate see 0-397 Diphenyl carbonate				
Phenyl chloroformate		6915E	1g	1885-14-9
Phenyl chlorothioformate		6920	10g	13464-19-2

Category Name	Specification	Catalog#	Size	CAS#
Phenylcyclohexane (S.G.)		0-772	1g	827-52-1
2-Phenylcyclohexanone		6924F	100mg	1444-65-1
N-Phenyl-N'-cyclohexyl-p-phenylenediamine (TECH)		0u-42	3g	101-87-1
trans-2-Phenylcyclopropylamine hydrochloride		6920H	100mg	95-62-5
** 1.2-Phenyl dicarboxylic acid see 0-89 Phthalic acid				
** 1.3-Phenyl dicarboxylic acid see 0-86 Isophthalic acid				
** 1.4-Phenyl dicarboxylic acid see 0-91 Terphthalic acid				
N-Phenyldiethanolamine		6940K	5g	120-07-0
Phenyl disulfide		6930	5g	882-33-7
m-Phenylene diacetate (S.G.)		0-539	500mg	108-58-7
p-Phenylene diacetate (S.G.)		0-540	500mg	1205-91-0
o-Phenylene diacetonitrile		6970J	5g	613-73-0
p-Phenylenediamine (S.G.)		F1081	2g	106-50-3
o-Phenylenediamine (S.G.)		0-351	2g	95-54-5
m-Phenylenediamine (S.G.)		0-352	5g	108-45-2
p-Phenylenediamine (S.G.)		0-353	2g	106-50-3
o-Phenylenediamine dihydrochloride		6962B	5g	615-28-1
m-Phenylenediamine dihydrochloride		6960	5g	541-69-5
p-Phenylenediamine dihydrochloride		6930F	1g	624-18-0
o-Phenylenediarsonic acid		6931H	100mg	R
1,4-Phenylene diisothiocyanate		2491L	100mg	4044-65-9
(p-Phenylenedimethylene) bis(triphenylphosphonium chloride)		6966B	1g	R
(p-Phenylenedioxy)diacetic acid		6967C	1g	R
2.2'-(p-Phenylenedioxy) diethanol hydroquinone bis(2-hydroxyethyl)ether		6968C	10g	104-38-1
(+/-)-Phenyl-1.2-ethanediol (S.G.)		0-217	1g	93-56-1
** 2-Phenyl ethanol see 0-218 2-Phenyl ethyl alcohol				
** N-Phenylethanolamine see 0-368 2-Anilinoethanol				
Phenyl ether (S.G.)		F2477	5g	101-84-8
Phenyl ether Solution (S.G.)	1000ug/ml in Methylene chloride	F2477JS	1ml	
Phenyl ether (S.G.)	1000ug/ml in Methylene chloride	F2477S	5ml	
Phenyl ether (13C12) Solution (S.G.)	50ug/ml in n-Nonane	FC2477S	1.2ml	
Phenyl ether (d10) (S.G.)		FD2477-A	0.1g	R
Phenyl ether (S.G.)		0-596	5g	101-84-8
Phenyl ether glycolic acid		PS-36	1g	122-59-8
2-Phenylethyl acetate (S.G.)		0-541	2g	103-45-7
2-Phenylethyl alcohol (S.G.)		0-218	5g	60-12-8
** b-Phenylethylamine see 0-350 Phenethylamine				
b-Phenylethyl benzoate		6932H	1g	94-47-3
N-Phenylethylenediamine		6948K	10mg	1664-40-0
** Phenylethylene oxide see 0-591 1.2-Epoxyethylbenzene				
Phenylethylhydrazine sulfate		2449L	250mg	R
Phenylgermanium oxide		6941F	100mg	R
Phenyl-b-D-glucopyranoside		CARB-49	100mg	1464-44-4
N-Phenylglycine (S.G.)		0-95	500mg	103-01-5
(+/-)-2-Phenylglycinonitrile hydrochloride		6952K	100mg	53941-45-0
o-Phenylglycolic acid		PS-36	1g	122-59-8
p-Phenylglyoxal monohydrate		6949F	100mg	1074-12-0
1-Phenylheptane		6950F	5g	1078-71-3
n-Heptylbenzene (S.G.)		F2934	250mg	1078-71-3
1-Phenylhexane (S.G.)		0-2253	1g	1077-16-3
Phenylhydrazine (S.G.)		0-2254	5g	100-63-0
Phenylhydrazine hydrochloride (S.G.)		0-728	1g	59-88-1
** Phenyl-2-hydroxybenzoate see 0-553 Phenyl salicylate				
Phenyl-1-hydroxy-2-naphthoate		6960K	1g	132-54-7
Phenyl isocyanate (S.G.)		0-403	1g	103-71-9
p-(2-Phenylisopropyl)phenol		6972K	10mg	599-64-4
Phenyl isothiocyanate		6986C	10g	103-72-0
Phenylium*		PS-36	1g	122-59-8
2-Phenyllevulinic acid		6983F	100mg	4439-87-6
N-Phenylmaleamic acid		6963K	1g	555-59-9
Phenylmercaptoacetic acid		6990F	5g	103-04-8
Phenylmercuriborate		PS-203	100mg	102-98-7
Phenyl mercuric acetate		PS-14	1g	62-38-4
Phenyl mercuric acetate Solution		PS-14AJS	1mL	
Phenyl mercuric acetate Solution		PS-14JS	1mL	
Phenyl mercuric benzoate		PS-15	1g	R
Phenyl mercuric borate		PS-203	100mg	102-98-7
Phenyl mercuric chloride		PS-214	1g	100-56-1
Phenyl mercuric chloride Solution	100ug/ml in Acetonitrile	PS-214AJS	1mL	

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Category Name	Specification	Catalog#	Size	CAS#
Phenyl mercuric chloride Solution	100ug/ml in Toluene	PS-214JS	1mL	
Phenyl mercuric hydroxide		PS-215	1g	**100-57-2**
Phenyl mercuric lactate		PS-216	1g	**R**
Phenylmercuric oleate		PS-199	100mg	**104-60-9**
Phenylmercuric oleate Solution	100ug/ml in Acetonitrile	PS-199AJS	1mL	
Phenylmercuric oleate Solution	100ug/ml in Toluene	PS-199JS	1mL	
Phenyl mercuric phthalate		PS-217	1g	**R**
Phenyl mercuric phthalate Solution	100ug/ml in Acetonitrile	PS-217AJS	1mL	
Phenyl mercuric phthalate Solution	100ug/ml in Toluene	PS-217JS	1mL	
Phenylmercury borate		PS-203	100mg	**102-98-7**
Phenylmercury nitrate		PS-202	100mg	**55-68-5**
Phenylmercury nitrate Solution	100ug/ml in Acetonitrile	PS-202AJS	1mL	
Phenylmercury nitrate Solution	100ug/ml in Toluene	PS-202JS	1mL	
Phenylmercury salicylate		PS-205	1g	**28086-13-7**
Phenylmercury salicylate Solution	100ug/ml in Acetonitrile	PS-205AJS	1mL	
Phenylmercury salicylate Solution	100ug/ml in Toluene	PS-205JS	1mL	
Phenylmethanesulfonate		6900H	500mg	**R**
**** Phenyl methanol see 0-213 Benzyl alcohol**				
**** Phenyl methyl amine see 0-337 Benzylamine**				
5-(Phenylmethyl)-3-furanmethanol		MET-1000A	100mg	**R**
5-(Phenylmethyl)-3-furanmethanol		MET-1000A	100mg	**R**
1-Phenylnaphthalene (S.G.)		F1049	100mg	**605-02-7**
1-Phenylnaphthalene Solution (S.G.)	100ug/ml in Toluene	F1049JS	1ml	
1-Phenylnaphthalene (S.G.)	100ug/ml in Toluene	F1049S	5ml	
2-Phenylnaphthalene (S.G.)		O-2368	25mg	**612-94-2**
N-Phenyl-1-naphthylamine (S.G.)		**O-2393**	**5g**	**90-30-2**
N-Phenyl-2-naphthylamine (S.G.)		O-2394	5g	**135-88-6**
N-Phenyl-1-naphthylamine (TECH)		Ou-44	3g	**90-30-2**
N-Phenyl-2-naphthylamine (TECH)		Ou-43	3g	**135-88-6**
Phenyl-B-naphthylamine-acetone reaction product (TECH)		Ou-48	3g	**R**
**** 1-Phenyl octane see O-2224 n-Octyl benzene**				
2-Phenylpentafluoropropene		7013F	200mg	**R**
1-Phenyl-1-pentanone (S.G.)		F2254	1g	**1009-14-9**
1-Phenyl-1-pentanone (S.G.)	2000ug/ml in Methanol	F2254S	5ml	
p-Phenylphenetole		7015B	5g	**613-40-1**
o-Phenylphenol		PS-420	1g	**90-43-7**
o-Phenylphenol Solution	100ug/ml in Acetonitrile	PS-420AJS	1mL	
**** o-Phenylphenol see F2225 2-Biphenylol**				
p-Phenylphenol (phenyl-13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC7001S	1.2ml	
N-Phenyl-o-phenylenediamine		7028F	1g	**534-85-0**
N-Phenyl-p-phenylenediamine monohydrochloride		7029F	1g	**2198-59-6**
**** Phenylphosphonic dichloride see O-924 Dichlorophenyl phosphine oxide**				
**** Phenylphosphonothioic dichloride see O-925 Dichlorophenyl phosphine sulfide**				
Phenylphthalanic acid		PS-2114	1g	**4727-29-1**
4-Phenylpiperidine (S.G.)		O-2414	100mg	**771-99-3**
**** 3-Phenylpropanal see O-241 Hydrocinnamaldehyde**				
2-Phenyl propane		PS-2179	1g	**98-82-8**
2-Phenyl propane		PS-2179	1g	**98-82-8**
3-Phenyl-1-propanol (S.G.)		O-219	2g	**122-97-4**
**** 2-Phenyl-2-propanol see O-215 a.a-Dimethylbenzylalcohol**				
Phenylpropargyl alcohol		7038F	100mg	**4187-87-5**
**** 3-Phenylpropenal see O-240 trans-Cinnamaldehyde**				
Phenylpropiolic acid		2569L	1g	**637-44-5**
Phenyl propionate		7035F	1g	**637-27-4**
2-Phenylpropionic acid		7039F	100mg	**492-37-5**
3-Phenyl-2-propyn-1-ol		6978K	10mg	**R**
Phenylpyruvic acid sodium salt monohydrate		6981K	100mg	**114-76-1**
2-Phenylquinoline-4-carboxylic acid		6984K	100mg	**132-60-5**
**** Phenyl-p-quinone see 6932K Phenyl-p-benzoquinone**				
3-Phenylrhodanine		7040F	500mg	**1457-46-1**
Phenyl salicylate (S.G.)		O-553	5g	**118-55-8**
Phenyl salicylate (TECH)		Ou-105	3g	**118-55-8**
Phenyl[salicyloyloxy]mercury		PS-205	1g	**28086-13-7**
Phenyl stearate		7043B	5g	**637-55-8**
Phenyl sulfide (S.G.)		O-949	500mg	**139-66-2**
Phenyl sulfone (S.G.)		F2272	2g	**127-63-9**
Phenyl sulfone Solution (S.G.)	1000ug/ml in Acetonitrile	F2272JS	1ml	
Phenyl sulfone (S.G.)	1000ug/ml in Acetonitrile	F2272S	5ml	

Category Name	Specification	Catalog#	Size	CAS#
Phenyl sulfone (S.G.)		O-977	2g	**127-63-9**
Phenyl sulfoxide		6935H	1g	**945-51-7**
1-Phenyl-3-(1,2,3-thiadiazol-5-yl)urea		PS-2044	250mg	**51707-55-2**
Phenylthiocarbamide		PS-801	1g	**103-85-5**
4-Phenyl-3-thiosemicarbazide		6990K	1g	**5351-69-9**
Phenyl-2-thiourea		PS-801	1g	**103-85-5**
Phenyl-2-thiourea Solution	100ug/ml in Acetonitrile	PS-801AJS	1mL	
Phenyl-2-thiourea Solution	100ug/ml in Toluene	PS-801JS	1mL	
**** 4-Phenyltoluene see F1039 4-Methyl biphenyl**				
Phenyl 4-tolyl sulfone		7042F	500mg	**R**
1-Phenyl-1,2,4-triazolyl-3-(0,0-diethylthionophosphate)		PS-2139	100mg	**24017-47-8**
Phenyltrimethoxysilane		7043F	1g	**2996-92-1**
Phenyltrimethylammonium bromide		2521L	1g	**16056-11-4**
4-Phenylurazole		2446L	100mg	**15988-11-1**
Phenylurea (S.G.)		O-987	1g	**64-10-8**
Phermernite*		PS-202	100mg	**55-68-5**
Phillips R-874*		PS-952	1g	**3547-33-9**
Phix*		PS-14	1g	**62-38-4**
Phlorglucinol dihydrate		7055C	10g	**6099-90-7**
Phloxine B/C.I.#45410		BS-68	1g	**18472-87-2**
Phophos*		PS-672	250mg	**13194-48-4**
Phorate		PS-654	100mg	**298-02-2**
Phorate Solution	100 ug/mL in Acetonitrile	PS-654AJS	1mL	
Phorate (S.G.)		F1080	100mg	**298-02-2**
Phorate Solution (S.G.)	100ug/ml in Hexane	F1080JS	1ml	
Phorate (S.G.)	100ug/ml in Hexane	F1080S	5ml	
Phorate-oxon 100ug/ml in Toluene	100ug/ml in Toluene	MET-654A	5ml	**2600-69-3**
Phorate sulfone 100ug/ml in Hexane		MET-654B	5ml	**2588-04-7**
Phorate sulfoxide		MET-654C	100mg	**2588-03-6**
Phosalone		PS-682	100mg	**2310-17-0**
Phosalone (S.G.)		F2128	100mg	**2310-17-0**
Phosalone Solution (S.G.)	100ug/ml in Methanol	F2128JS	1ml	
Phosalone (S.G.)	100ug/ml in Methanol	F2128S	5ml	
Phosarbin		PS-2181	50mg	**645-78-3**
Phosdrin (TM) Solution	100ug/ml in Acetonitrile	PS-87AJS	1mL	
Phosdrin (TM) Solution (S.G.)	100ug/ml in Toluene	F2066JS	1ml	
Phosdrin (TM) (S.G.)	100ug/ml in Toluene	F2066S	5ml	
Phosethoprop		PS-672	250mg	**13194-48-4**
Phosfolan		PS-842	1g	**947-02-4**
Phosfolan Solution	100ug/ml in Acetonitrile	PS-842AJS	1mL	
Phosfolan Solution	100ug/ml in Toluene	PS-842JS	1mL	
Phosfon*		PS-67	50mg	**115-78-6**
Phosmet (S.G.)		F2129	1g	**732-11-6**
Phosmet (dimethyl-d6) Solution (S.G.)	100ug/ml in Acetonitrile	FD2129S	1.2ml	
Phosmet		PS-653	1g	**732-11-6**
**** Phosmet see F2129 Imidan**				
Phosmet-oxon 100ug/ml in Toluene	100ug/mL in Toluene	MET-653A	5ml	**R**
Phosphacol		PS-610	100mg	**311-45-5**
Phosphamidon		PS-606	250mg	**13171-21-6**
Phosphamidon Solution	100ug/ml in Acetonitrile	PS-606JS	1mL	
Phosphamidon (S.G.)		F2130	250mg	**13171-21-6**
Phosphamidon Solution (S.G.)	100ug/ml in Toluene	F2130JS	1ml	
Phosphamidon (S.G.)	100ug/ml in Toluene	F2130S	5ml	
Phosphan		PS-67	50mg	**115-78-6**
Phosphan Solution	100ug/ml in Methanol	PS-67JS	1mL	
Phosphate (NH4H2PO4) @ 100ug/ml in Water		XIC-PP-A	100ml	
Phosphate (NH4H2PO4) @ 100ug/ml in Water		XIC-PP-B	250ml	
Phosphate (NH4H2PO4) @ 100ug/ml in Water		XIC-PP-C	500ml	
Phosphate @ 1000ug/ml in water		XIC-PP-M-A	100ml	
Phosphate @ 1000ug/ml in water		XIC-PP-M-B	250ml	
Phosphate @ 1000ug/ml in water		XIC-PP-M-C	500ml	
Phosphet		PS-653	1g	**732-11-6**
3-Phosphoglyceric acid barium salt		7054F	100mg	**22457-55-2**
Phosphomolybdic acid		I-85	5g	**51429-74-4**
Phosphonitrilic chloride-n-propylester		I-4750	1g	**5116-77-8**
N-(Phosphonomethyl) glycine		PS-1051	1g	**1071-83-6**
N-(Phosphonomethyl)iminodiacetic acid hydrate (S.G.)		F2913	250mg	**5994-61-6**
Phosphoric acid		I-4760	10g	**7664-38-2**

Category Name	Specification	Catalog#	Size	CAS#
Phosphoric acid-boron trifluoride complex		I-4770	5g	13669-76-6
Phosphorous - 0.05% HNO3		X10M 39-1-100	100ml	
Phosphorous - 0.05% HNO3		X10M 39-1-250	250ml	
Phosphorous - 0.05% HNO3		X10M 39-1-500	500ml	
Phosphorous @ 1000ug/ml in water		XIC-P-M-A	100ml	
Phosphorous @ 1000ug/ml in water		XIC-P-M-B	250ml	
Phosphorous @ 1000ug/ml in water		XIC-P-M-C	500ml	
Phosphorus - (NH4)H2PO4, 99.99+%, 0.05% HNO3		X100039-1-A	100ml	
Phosphorus - (NH4)H2PO4, 99.99+%, 0.05% HNO3		X100039-1-B	250ml	
Phosphorus - (NH4)H2PO4, 99.99+%, 0.05% HNO3		X100039-1-C	500ml	
100ug/ml Phosphorus in water for ion Chromatography		XIC-P-A	100ml	
100ug/ml Phosphorus in water for ion Chromatography		XIC-P-B	250ml	
100ug/ml Phosphorus in water for ion Chromatography		XIC-P-C	500ml	
Phosphorus acid-crystals		I-4780	10g	13598-36-2
Phosphorus isocyanate		I-4800	1g	12141-20-7
Phosphorus Metallo - Organic Standard	1000 ug/g Mineral Oil	XPPOMS	100g	
Phosphorus pentachloride		I-86	10g	10026-13-8
Phosphorus pentasulfide		I-4820	10g	1314-80-3
Phosphorus pentoxide		I-4830	10g	1314-56-3
Phosphorus sesquisulfide		I-4840	10g	1314-85-8
Phosphorus sulfide		I-4845	5g	R
Phosphorus tribromide		I-4850	10g	7789-60-8
Phosphorus trichloride		I-4860	10g	7719-12-2
Phosphothion*		PS-86	500mg	121-75-5
Phosphotungstic acid		I-87	5g	12067-99-1
Phosphurus Oxide (P2O5) 99.998%		XP-O-A	5g	
Phosphurus Oxide (P2O5) 99.998%		XP-O-B	25g	
Phostebupirim		PS-2192	100mg	96182-53-5
Phostoxin*				
Phosvel*		PS-677	100mg	21609-90-5
Phoxim		PS-2100	100mg	14816-18-3
Phoxim Solution	100ug/ml in Acetonitrile	PS-2100AJS	1mL	
Phoxim Solution	100ug/ml in Toluene	PS-2100JS	1mL	
Phthalamic acid		MET-26A	100mg	88-97-1
Phthalamide (S.G.)		O-267	2g	88-96-0
Phthalanillic acid		PS-2114	1g	4727-29-1
Phthalanillic acid Solution	100ug/ml in Acetonitrile	PS-2114AJS	1mL	
Phthalanillic acid Solution	100ug/ml in MTBE	PS-2114JS	1mL	
Phthalate and Adipic Ester Mixture - 506	1000ug/ml in Isooctane	PAE-506M	5ml	
Phthalate Esters - Control Sample Mixture - 606,8060	VARIED in Acetone	CSM-8060M	5ml	
Phthalate Esters - Mixture	100ug/ml in Hexane	PPP-6M	5ml	
Phthalate Esters - Solutions		PPP-6S	KIT	
Phthalate Esters Mixture - 8061	1000ug/ml in Isooctane	PT8061-1M	5ml	
Phthalate Esters -Neat Form		PPP-6N	KIT	
Phthalate Esters Neat Kit - 8061		PT8061-1N	KIT	
Phthalate Esters Solutions Kit - 8061		PT8061-1S	KIT	
Phthalate Kit		PT-35	KIT	
Phthalates Esters Mixture-8060	2000ug/ml in Hexane	CSHC-3	5ml	
Phthalazine		6999K	10mg	253-52-1
Phthaldialdehyde (DNPH Derivative) (S.G.)		F2945	250mg	R
Phthalic acid (ring-1,2-13C2, dicarboxyl-13C2) Solution (S.G.)	100ug/ml in n-Nonane	FC7006S	1.2ml	
Phthalic acid (S.G.)		O-89	5g	88-99-3
Phthalic acid (carboxyl-13C) (S.G.)		O-C89-B	0.5g	R
Phthalic acid (ring-d4) (S.G.)		O-D89-5	5g	R
Phthalic acid dimethyl ester		PS-901	1g	131-11-3
Phthalic acid monopotassium salt		7096H	1g	877-24-7
Phthalic anhydride (S.G.)		F2131	5g	85-44-9
Phthalic anhydride Solution (S.G.)	100ug/ml in Toluene	F2131JS	1ml	
Phthalic anhydride (S.G.)	100ug/ml in Toluene	F2131S	5ml	
Phthalic anhydride (S.G.)		O-131	5g	85-44-9
o-Phthalicdicarboxaldehyde		7071F	100mg	643-79-8
Phthalide		7070	10g	87-41-2
Phthalimide (S.G.)		O-793	5g	85-41-6
Phthalocyanine		7078F	100mg	574-93-6
Phthalonitrile (S.G.)		O-839	1g	91-15-6
Phthalophos		PS-653	1g	732-11-6
Phthaloyl chloride (S.G.)		O-137	500mg	88-95-9
N-Phthaloyl-L-glutamic anhydride		3133L	10mg	

Category Name	Specification	Catalog#	Size	CAS#
Phthalthrin		PS-1042	100mg	7696-12-0
N-Phthalyl glycine		7005K	10mg	4702-13-0
Phthalylsulphathiazole		7099F	10g	85-73-4
p--Hydroxyacetophenone (S.G.)		O-224	1g	99-93-4
Phygon*		PS-12	250mg	117-80-6
Phygon Paste*		PS-12	250mg	117-80-6
Phygon XL*		PS-12	250mg	117-80-6
Phytane (S.G.)		F2526	50mg	638-36-8
Phytar*		PS-51	500mg	75-60-5
Phytic acid, calcium salt		2992L	1g	R
** Phytonadione see V-22 Vitamin K1				
Phytosol*		PS-2007	100mg	327-98-0
Phytosterol		7100F	100mg	83-46-5
Picfume*		PS-4	1g	76-06-2
Picloram		PS-274	250mg	1918-02-1
Picloram Solution	100ug/ml in Acetonitrile	PS-274AJS	1mL	
Picloram (S.G.)		F2041	250mg	1918-02-1
Picloram Solution (S.G.)	1000ug/ml in Acetonitrile	F2041AJS	1ml	
Picloram (S.G.)	1000ug/ml in Acetonitrile	F2041AS	5ml	
Picloram Solution (S.G.)	100ug/ml in Acetone	F2041JS	1ml	
Picloram (S.G.)	100ug/ml in Acetone	F2041S	5ml	
Picloram methyl ester		PS-1108	100mg	14143-55-6
Picloram methyl ester (S.G.)		F2155	100mg	14143-55-6
Picloram methyl ester Solution (S.G.)	100ug/ml in Methanol	F2155JS	1ml	
Picloram methyl ester (S.G.)	100ug/ml in Methanol	F2155S	5ml	
2-Picoline (S.G.)		F1082	5g	109-06-8
2-Picoline Solution (S.G.)	100ug/ml in Methanol	F1082JS	1ml	
2-Picoline (S.G.)	100ug/ml in Methanol	F1082S	5ml	
2-Picoline (d7) (S.G.)		FD1082-1	1g	R
2-Picoline (S.G.)		O-703	10g	109-06-8
3-Picoline (S.G.)		O-704	10g	108-99-6
3-Picoline (d7) (S.G.)		O-D704-1	1g	R
4-Picoline (S.G.)		O-705	10g	108-89-4
4-Picoline (d7) (S.G.)		O-D705-1	1g	R
2-Picoline-N-oxide		7101F	1g	19305-07-8
3-Picoline-N-oxide		7102F	1g	1003-73-2
Picolinic acid		7010K	1g	98-98-6
Picolinic acid n-oxide		7106F	1g	824-40-8
Picolinonitrile		7115F	1g	100-70-9
3-Picolyl chloride hydrochloride (S.G.)		F2098	1g	6959-48-4
3-Picolyl chloride hydrochloride Solution (S.G.)	100ug/ml in Methanol	F2098JS	1ml	
3-Picolyl chloride hydrochloride (S.G.)	100ug/ml in Methanol	F2098S	5ml	
Picric acid - min 30wt% water (S.G.)		O-2300	1g	88-89-1
Picric acid - min 30wt% water/C.I.#10305		BS-2	1g	88-89-1
Picrolonic acid		7117E	1g	550-74-3
Pictyl*		PS-2174	100mg	79127-80-3
Pik-off*		PS-412	1g	557-30-2
Pilardax*		PS-1082	100mg	83055-99-6
Pilocarpine hydrochloride		2944L	100mg	54-71-7
Pilot Super*		PS-2151	500mg	100646-51-3
Pimelic acid		7118C	5g	111-16-0
Pinacol (S.G.)		O-203	1g	76-09-5
Pinacolone (S.G.)		O-2255	5g	75-97-8
Pindone		PS-905	250mg	83-26-1
Pine gel		PS-2207	100mg	66246-88-6
a-Pinene (S.G.)		O-2315	1g	80-56-8
Pinene (S.G.)		O-758	1g	R
b-Pinene (S.G.)		O-2316	5g	127-91-3
Pinnacle (TM)		PS-2011	100mg	79277-27-3
Pinnacle (TM) Solution	100ug/ml in Acetonitrile	PS-2011AJS	1mL	
Pinonic acid		7120	5g	473-72-3
Pinoxaden		PS-2319	100mg	243973-20-8
** d-a-Pipecoline see O-292 2-Methyl piperidine				
Piperalin		PS-409	1g	3478-94-2
Piperalin Solution	100ug/ml in Acetonitrile	PS-409AJS	1mL	
Piperalin Solution	100ug/ml in Toluene	PS-409JS	1mL	
Piperazine anhydrous (S.G.)		O-331	2g	110-85-0

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Category Name	Specification	Catalog#	Size	CAS#
1-Piperazinecarboxaldehyde		7135F	1g	7755-92-2
N,N'-[Piperazine-1,4-diylbis[(trichloromethyl)methylene]]difor		PS-2014	100mg	26644-46-2
Piperazine hydrate		7122B	10g	142-63-2
DL-Pipercolinic acid		7020K	100mg	4043-87-2
N-Piperdine ethanol		7026K	1g	3040-44-6
Piperidine (S.G.)		O-293	1g	110-89-4
3-Piperidinecarboxylic acid ethyl ester		7023K	10mg	71962-74-8
2-Piperidinemethanol		2359L	250mg	3433-37-2
3-Piperidinemethanol		7029K	1g	4606-65-9
3-Piperidinol		7032K	10mg	6859-99-0
4-Piperidone monohydrate hydrochloride		7137F	1g	40064-34-4
4[3-(4-Piperidyl)-propyl]-N-piperidine		7036K	10mg	R
Piperonal		7130	10g	120-57-0
Piperonal bis[2-(2'-n-butoxyethoxy)ethyl] acetal				
Piperonyl butoxide		PS-100	100mg	51-03-6
Piperonyl butoxide Solution	100ug/ml in Acetonitrile	PS-100AJS	1mL	
Piperonyl butoxide Solution	100ug/ml in Isooctane	PS-100JS	1mL	
Piperonylic acid		7039K	10mg	94-53-1
1-Piperoylpiperidine		7139F	100mg	94-62-2
Pipron*		PS-409	1g	3478-94-2
Pirimicarb		PS-757	250mg	23103-98-2
Pirimicarb Solution	100ug/ml in Acetonitrile	PS-757AJS	1mL	
Pirimicarb Solution	100ug/ml in Toluene	PS-757JS	1ml	
Pirimicarb-desmethyl		MET-757A	POR	R
Pirimicarb-desmethyl		MET-757A	POR	R
Pirimiphos-ethyl		PS-643	250mg	23505-41-1
Pirimiphos-ethyl Solution	100ug/ml in Toluene	PS-643JS	1ml	
Pirimiphos-methyl		PS-644	250mg	29232-93-7
Pirimiphos-methyl Solution	100ug/ml in Acetonitrile	PS-644AJS	1mL	
Pirimiphos-methyl Solution	100ug/mL in Toluene	PS-644JS	1ml	
Pirimor*		PS-757	250mg	23103-98-2
Pirofos		PS-2181	50mg	645-78-3
Pival*		PS-905	250mg	83-26-1
Pivalic acid		7145F	5g	75-98-9
2-Pivaloyl-1.3-indandione		PS-905	250mg	83-26-1
2-Pivaloyl-1.3-indandione Solution	100ug/ml in Acetonitrile	PS-905AJS	1mL	
2-Pivaloyl-1.3-indandione Solution	100ug/mL in Toluene	PS-905JS	1mL	
2-Pivalyl-1.3-indandione		PS-905	250mg	83-26-1
Pivalyl indandione*		PS-905	250mg	83-26-1
Pivalyl Valone*		PS-905	250mg	83-26-1
Pivalyn*		PS-905	250mg	83-26-1
Pivot*		PS-2039	100mg	81335-77-5
Pix*		PS-1047	10mg	24307-26-4
Planavin*		PS-358	250mg	4726-14-1
Planete Aster*		PS-2157	100mg	79983-71-4
Planofix		PS-29	1g	86-87-3
Plantvax*		PS-295	1g	5259-88-1
Plateau*		PS-2197	250mg	104098-48-8
Plath-Lyse*		PS-6	250mg	97-23-4
Platinum - 10% HCl		X10M 40-2-250	250ml	
Platinum - 10% HCl		X10M 40-2-500	500ml	
Platinum - Pt metal, 99.99%, 5% HCl		X100040-2-A	100ml	
Platinum - Pt metal, 99.99%, 5% HCl		X100040-2-B	250ml	
Platinum - Pt metal, 99.99%, 5% HCl		X100040-2-C	500ml	
Platinum 10% HCl		X10M 40-2-100	100ml	
Platinum Powder (Pt) 99.99%		XPT-MP-A	1g	
Platinum Powder (Pt) 99.99%		XPT-MP-B	5g	
Plictran*		PS-107	250mg	13121-70-5
Plondrel*	100ug/ml in Hexane	PS-1208	5ml	5131-24-8
Plondrel*		PS-2127	100mg	5131-24-8
PMA*		PS-14	1g	62-38-4
PMAC*		PS-14	1g	62-38-4
PMAS*		PS-14	1g	62-38-4
PMM		PS-224	1g	594-42-3
PMP*		PS-911	250mg	83-28-3
PNA Solution Kit		PNA-45S	KIT	
PNA Solutions		PNA-E20S	KIT	
PNA Solutions		PNA-E40S	KIT	
Poast*		PS-2013	100mg	74051-80-2
POE (10) Dinonylphenol (TECH)		S-671	10g	68891-21-4
POE (10) Tridecyl alcohol (TECH)		S-330-1	10g	24938-91-8

Category Name	Specification	Catalog#	Size	CAS#
POE (21) Dinonylphenol (TECH)		S-672	10g	68891-21-4
POE abietic acid (TECH)		S-209	10g	R
POE (30) ammonium lauryl sulfate (TECH)		S-399	10g	R
POE (1) C 12-14 tert-amine (TECH)		S-508	10g	R
POE (15) C 12-14 tert-amine (TECH)		S-510	10g	R
POE (1) C 18-24 tert-amine (TECH)		S-518	10g	R
POE (5) C 18-24 tert-amine (TECH)		S-519	10g	R
POE (10) C 18-24 tert-amine (TECH)		S-519-1	5g	R
POE (15) C 18-24 tert-amine (TECH)		S-520	10g	R
POE (5) castor oil (TECH)		S-195	10g	61791-12-6
POE (16) castor oil (TECH)		S-196	10g	R
POE (20) castor oil (TECH)		S-197	10g	R
POE (30) castor oil (TECH)		S-198	10g	61791-12-6
POE (40) castor oil (TECH)		S-199	10g	R
POE (80) castor oil (TECH)		S-200	10g	R
POE (200) castor oil (TECH)		S-201	10g	R
POE (10) cetyl alcohol ether (TECH)		S-316	10g	9004-95-9
POE (20) cetyl alcohol ether (TECH)		S-317	10g	R
POE (2) cetyl ether (TECH)		S-315	10g	9004-95-9
POE (24) cholesterol (TECH)		S-336	10g	R
POE (2) coco amine (TECH)		S-522	10g	R
POE (5) coco amine (TECH)		S-523	10g	61791-14-8
POE (15) coco amine (TECH)		S-525	10g	61791-14-8
POE (5) coco fatty acids ester (TECH)		S-190	10g	R
POE (15) coco fatty acids ester (TECH)		S-191	10g	R
POE (70) dinonyl phenol (TECH)		S-357	10g	68891-21-4
POE (150) dinonyl phenol (TECH)		S-358	10g	R
POE (12) tert-dodecylmercaptoethanol (TECH)		S-487	10g	9004-83-5
POE (5) dodecyl phenol (TECH)		S-359	10g	9014-92-0
POE (9) dodecyl phenol (TECH)		S-360	10g	9014-92-0
POE (20) glycerol monostearate (TECH)		S-241	10g	68553-11-7
POE (5) hydrogenated castor oil (TECH)		S-204	10g	R
POE (16) hydrogenated castor oil (TECH)		S-205	10g	61788-85-0
POE (25) hydrogenated castor oil (TECH)		S-206	10g	61788-85-0
POE hydrogenated tallow amide (5 Moles EtO) (TECH)		S-601	10g	R
POE hydrogenated tallow amide (50 Moles EtO) (TECH)		S-602	10g	R
POE (20) isohexadecyl alcohol ether (TECH)		S-325	10g	9004-95-9
POE (20) lanolin (TECH)		S-211	10g	R
POE (50) lanolin (TECH)		S-212	10g	8039-09-6
POE (75) lanolin (TECH)		S-213	10g	8039-09-6
POE (5) lanolin alcohol ether (TECH)		S-333	10g	R
POE (16) lanolin alcohol ether (TECH)		S-334	10g	61791-20-6
POE (25) lanolin alcohol ether (TECH)		S-335-1	5g	R
POE (4) lauryl alcohol ether (TECH)		S-313	10g	9002-92-0
POE (23) lauryl alcohol ether (TECH)		S-314	10g	9002-92-0
POE (1 to 2) nonylphenol (TECH)		S-346	10g	68412-54-4
POE (4) nonylphenol (TECH)		S-347	10g	68412-54-4
POE (6) nonylphenol (TECH)		S-348	10g	R
POE (9 to 10) nonylphenol (TECH)		S-350	10g	9016-45-9
POE (12) nonylphenol (TECH)		S-352	10g	9016-45-9
POE (14) nonylphenol (TECH)		S-353	10g	9016-45-9
POE (20) nonylphenol (TECH)		S-354	10g	R
POE (30) nonylphenol (TECH)		S-355	10g	R
POE (50) nonylphenol (TECH)		S-356	10g	R
POE octadecylamine (TECH)		S-533	10g	R
POE (3) tert-octylphenol (TECH)		S-338	10g	9036-19-5
POE (5) tert-octylphenol (TECH)		S-339	10g	9036-19-5
POE (7 to 8) tert-octylphenol (TECH)		S-340	10g	9036-19-5
POE (9 to 10) tert-octylphenol (TECH)		S-341	10g	9036-19-5
POE (12 to 13) tert-octylphenol (TECH)		S-342	10g	9002-93-1
POE (16) tert-octylphenol (TECH)		S-343	10g	9002-93-1
POE (30) tert-octylphenol (TECH)		S-344	10g	9002-93-1
POE (40) tert-octylphenol (TECH)		S-345	10g	9002-93-1
POE octylphenol sodium sulfonate salt (TECH)		S-392	10g	12627-38-2
POE (12) octyl phosphate (TECH)		S-477	10g	R
POE oleic amide (TECH)		S-598	10g	26027-37-2
POE (2) oleyl alcohol ether (TECH)		S-322	10g	9004-98-2
POE (10) oleyl alcohol ether (TECH)		S-323	10g	9004-98-2
POE (20) oleyl alcohol ether (TECH)		S-324	10g	R
POE (2) oleyl amine (TECH)		S-516	10g	13127-82-7
POE (5) oleyl amine (TECH)		S-517	10g	R

Category Name	Specification	Catalog#	Size	CAS#
POE propylene glycol monostearate (TECH)		S-227	10g	37231-60-0
POE (10) red oil (oleic acid) ester (TECH)		S-193	10g	9004-96-0
POE (2) sodium lauryl ether sulfate (TECH)		S-397	10g	32612-48-9
POE (3.5) sodium lauryl ether sulfate (TECH)		S-398	10g	32612-48-9
POE (1) sodium lauryl monoether sulfate (TECH)		S-396	10g	9004-82-4
POE (4) sorbitan monolaurate (TECH)		S-260	10g	9005-64-5
POE (20) sorbitan monolaurate (TECH)		S-261	10g	9005-64-5
POE (5) sorbitan monooleate (TECH)		S-270	10g	9005-65-6
POE (20) sorbitan monooleate (TECH)		S-271	10g	9005-65-6
POE (20) sorbitan monopalmitate (TECH)		S-263	10g	9005-66-7
POE (4) sorbitan monostearate (TECH)		S-265	10g	9005-67-8
POE (20) sorbitan monostearate (TECH)		S-266	10g	9005-67-8
POE (20) sorbitan trioleate (TECH)		S-274	10g	9005-70-3
POE (20) sorbitan tristearate (TECH)		S-268	10g	9005-71-4
POE (6) sorbitol beeswax ester (TECH)		S-282	10g	R
POE (20) sorbitol beeswax ester (TECH)		S-283	10g	R
POE (40) sorbitol hexaoleate (TECH)		S-278	10g	R
POE (50) sorbitol hexaoleate (TECH)		S-279	10g	R
POE sorbitol oleate laurate (TECH)		S-280	10g	R
POE sorbitol polyoleate (TECH)		S-281-1	10g	R
POE (2) soya amine (TECH)		S-529	10g	R
POE (5) soya amine (TECH)		S-530	10g	61791-24-0
POE (10) soya amine (TECH)		S-531	10g	R
POE (15) soya amine (TECH)		S-532	10g	R
POE (2) stearyl alcohol ether (TECH)		S-318	10g	R
POE (10) stearyl alcohol ether (TECH)		S-319	10g	R
POE (20) stearyl alcohol ether (TECH)		S-320	10g	9005-00-9
POE (100) stearyl alcohol ether (TECH)		S-321	10g	9005-00-9
POE (2) stearyl amine (TECH)		S-511	10g	R
POE (5) stearyl amine (TECH)		S-512	10g	R
POE (15) stearyl amine (TECH)		S-514	10g	R
POE (50) stearyl amine (TECH)		S-515	10g	R
POE (12) tall oil (TECH)		S-207	10g	61791-00-2
POE (16) tall oil (TECH)		S-208	10g	R
POE (16) tall oil fatty acid ester (TECH)		S-650	5g	61791-00-2
POE (2) tallow amine (TECH)		S-526	10g	61791-44-4
POE (5) tallow amine (TECH)		S-527	10g	8051-58-9
POE (15) tallow amine (TECH)		S-528	10g	61791-26-2
POE (3) N-tallow trimethylene diamine (TECH)		S-535	10g	R
POE (3.5) tetramethyldecynediol (TECH)		S-364	10g	9014-85-1
POE (30) tetramethyldecynediol (TECH)		S-366	10g	R
POE (6) tridecyl alcohol ether (TECH)		S-328	10g	R
POE (9) tridecyl alcohol ether (TECH)		S-329	10g	R
POE (18) tridecyl alcohol ether (TECH)		S-331	10g	R
POE (12) tridecyl alcohol ether (TECH)		S-327	10g	R
Polaris*		PS-2164	100mg	2439-99-8
Polo*		PS-2221	250mg	80060-09-9
Polyacrylic acid		7170	10g	9003-01-4
Polyacrylonitrile		7180	10g	25014-41-9
Polybrominated Biphenyl Kit		PBB-4	KIT	
Polybutadiene-low mw (TECH)		Pz-157	10g	9003-17-2
Polychlorinated Biphenyls - 508A - Neat		PCB-508AN	KIT	
Polychlorinated Biphenyls - 508A - Solution		PCB-508AS	KIT	
Polychlorobicyclic terpenes		PS-79	250mg	8001-35-2
Polycron*		PS-1024	250mg	41198-08-7
Polyester-MW 850 (TECH)		Pz-111	10g	R
Polyester-MW 2200 (TECH)		Pz-112	10g	R
Polyester-MW 3380 (TECH)		Pz-113	10g	R
Polyester-MW 6000 (TECH)		Pz-114	10g	R
Polyester plasticizer-acetylate (TECH)		Pz-976	10g	R
Polyester viscosity 16520 cP. (TECH)		Pz-115	10g	R
Polyethylene chlorinated		3016L	1g	
** Polyethylene glycol see also PEG-				
Polyethylene glycol adipate (TECH)		Pz-330	10g	R
Polyethyleneglycol-200-dibenzoate (TECH)		Pz-101	10g	R
Polyethyleneglycol-600-dibenzoate (TECH)		Pz-102	10g	R
Polyethyleneglycol di-2-ethylhexoate (TECH)		Pz-1100	10g	R
Polyethyleneglycol dimethacrylate		7201F	5g	R
** Polyethylene glycol 6000 linoleate see 6944H PEG 6000 Linoleate				
Poly(ethyleneimine)		2314L	1g	9002-98-6
Poly(ethylene oxide)		2998L	1g	25322-68-3

Category Name	Specification	Catalog#	Size	CAS#
Polyglycoldiamine		7202F	5g	R
Polyisobutylene high viscosity (TECH)		Pz-151	10g	9003-27-4
Polyisobutylene low viscosity (TECH)		Pz-149	10g	9003-27-4
Polyisobutylene medium viscosity (TECH)		Pz-150	10g	9003-27-4
Polymeric plasticizer (Santicizer 411) (TECH)		Pz-996	10g	R
Polymeric plasticizer (Santicizer 412) (TECH)		Pz-997	10g	R
Polymeric plasticizer (Santicizer 429) (TECH)		Pz-999	10g	R
Polymerized-1.2-dihydro-2.2.4-trimethylquinoline (TECH)		Ou-51	3g	26780-96-1
Polynuclear Aromatic Hydrocarbons Mixture - 550	200ug/ml in Acetonitrile	PNA-550JM	1ml	
Polynuclear Aromatic Hydrocarbons Mixture - 550	200ug/ml in Acetonitrile	PNA-550M	5ml	
** Polyoxyethylene see also POE				
** Polyoxymethylene see 0-232 Paraformaldehyde				
** Polyoxypropylene see also POP-				
Polyoxypropylene-polyoxyethylene block copolymer		S-373-1	1g	9003-11-6
Polyphenylether		7205F	1g	R
Polyphosphorylamide		7208C	5g	R
Polypropylene-amorphous (TECH)		Pz-152	10g	R
Polypropyleneglycol sebacate (TECH)		Pz-103	10g	R
Polypropylene methylethylene		7210	10g	R
Polythiodipropionate		7213	5g	R
Polytrin*		PS-2203	250mg	65731-84-2
Poly(vinyl acetate)		2440L	1g	9003-20-7
Polyvinyl alcohol		7214E	10g	9002-89-5
Poly(vinyl butyral)		2452L	1g	63148-65-2
Polyvinyl chloride		6937H	10g	9002-86-2
Polyvinyl hydrogen phthalate		7215	5g	R
Polyvinyl pyrrolidone POP		7215E	5g	9003-39-8
Polyvinyl stearate		7220	10g	9003-95-6
Pomarsol*		PS-24	1g	137-26-8
Pomarsol Z*		PS-21	1g	137-30-4
Pomasol*		PS-24	1g	137-26-8
Ponceau 6/C.I.#16150		BS-26	1g	3761-53-3
Ponceau 3R/C.I.#16155		BS-131	1g	3564-09-8
Ponceau S/C.I.#27195		BS-143	1g	6226-79-5
P.O.P. 2200/ 40% EtO (TECH)		S-367	10g	R
P.O.P. 2000/ 10% EtO (TECH)		S-368	10g	R
P.O.P. 2500/ 20% EtO (TECH)		S-369	10g	R
P.O.P. 2900/ 40% EtO (TECH)		S-370	10g	R
P.O.P. 8400/ 80% EtO (TECH)		S-371	10g	R
P.O.P. 4600/ 50% EtO (TECH)		S-372	10g	R
Poppy seed oil		7212F	5g	R
Poseidon*		PS-2125	1g	96489-71-3
Posse*		PS-1063	250mg	55285-14-8
Posse*		PS-1063	250mg	55285-14-8
** Potash see I-103 Potassium hydroxide				
Potassium - 1% HCl		X10M 41-2-100	100ml	
Potassium - 1% HCl		X10M 41-2-250	250ml	
Potassium - 1% HCl		X10M 41-2-500	500ml	
Potassium - 1% HNO3		X10M 41-1-100	100ml	
Potassium - 1% HNO3		X10M 41-1-250	250ml	
Potassium - 1% HNO3		X10M 41-1-500	500ml	
100ug/ml Potassium in water for Ion Chromatography		XIC-K-A	100ml	
100ug/ml Potassium in water for Ion Chromatography		XIC-K-B	250ml	
100ug/ml Potassium in water for Ion Chromatography		XIC-K-C	500ml	
Potassium - KCl, 99.99%, 1% HCl		X100041-2-A	100ml	
Potassium - KCl, 99.99%, 1% HCl		X100041-2-B	250ml	
Potassium - KCl, 99.99%, 1% HCl		X100041-2-C	500ml	
Potassium - KNO3,99.999%,1% HNO3		X100041-1-A	100ml	
Potassium - KNO3,99.999%,1% HNO3		X100041-1-B	250ml	
Potassium - KNO3,99.999%,1% HNO3		X100041-1-C	500ml	
Potassium @ 1000ug/ml in Water		XIC-K-M-A	100ml	
Potassium @ 1000ug/ml in Water		XIC-K-M-B	250ml	
Potassium @ 1000ug/ml in Water		XIC-K-M-C	500ml	
Potassium abietate (TECH)		S-53	10g	R
Potassium acetate		I-88	10g	127-08-2
Potassium acetylacetonate		I-4880	100mg	2421-99-0
Potassium acrylate		7226F	1g	R
Potassium antimonate		I-4890	5g	10090-54-7
Potassium antimonyl oxalate		I-4900	10g	R
Potassium bicarbonate		I-89	10g	298-14-6

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Potassium bifluoride-crystal		I-4910	10g	7789-29-9
Potassium biiodate		I-4920	5g	13455-24-8
Potassium binoxalate		I-4930	10g	127-95-7
Potassium bisulfate		I-90	10g	7646-93-7
Potassium meta-bisulfite		I-4950	10g	16731-55-8
Potassium bitartrate		I-4960	10g	868-14-4
Potassium borate		I-4961	1g	12045-78-2
Potassium bromate		I-91	10g	7758-01-2
Potassium bromide		I-92	10g	7758-02-3
Potassium tert-butoxide		I-4965	10g	865-47-4
Potassium caprate (TECH)		S-43	10g	R
Potassium carbonate		I-93	10g	6381-79-9
Potassium Carbonate (K2CO3) 99.999%		XK-CO-S-A	5g	
Potassium Carbonate (K2CO3) 99.999%		XK-CO-S-B	25g	
Potassium chloride		I-95	10g	7447-40-7
Potassium Chloride (KCl) 99.999%		XK-CL-S-A	5g	
Potassium Chloride (KCl) 99.999%		XK-CL-S-B	25g	
Potassium chromate		I-96	10g	7789-00-6
Potassium cinnamate		2413L	1g	R
Potassium citrate		I-4990	10g	6100-05-6
Potassium cyanate		I-97	10g	590-28-3
Potassium cyanate		PS-289	1g	590-28-3
Potassium cyanate Solution	100ug/ml in H2O	PS-289AJS	1mL	
Potassium cyanate Solution	100ug/ml in Toluene	PS-289JS	1mL	
Potassium cyanide		I-98	1g	151-50-8
Potassium dichromate		I-99	10g	7778-50-9
Potassium dimethyldithiocarbamate		PS-2020	100mg	128-03-0
Potassium ethylxanthate		7225C	10g	140-89-6
Potassium ferricyanide		I-100	10g	13746-66-2
Potassium ferrocyanide		I-101	10g	14459-95-1
Potassium fluoborate		I-5000	10g	14075-53-7
Potassium fluoride		I-102	10g	7789-23-3
Potassium gluconate		7228F	10g	299-27-4
Potassium hexafluoroarsenate		I-5020	1g	17029-22-0
Potassium hexafluorophosphate		I-5030	1g	17084-13-8
Potassium hexafluorozirconate		I-5040	10g	16923-95-8
Potassium hydroxide		I-103	10g	1310-58-3
Potassium-N-hydroxymethyl-N-methyldithiocarbamate		PS-2019	100mg	51026-28-9
Potassium iodate		I-104	10g	7758-05-6
Potassium iodide		I-105	10g	7681-11-0
Potassium isopropyl xanthate		7230F	1g	140-92-1
Potassium laurate (TECH)		S-44	5g	10124-65-9
Potassium lauryl sulfate (TECH)		S-386	5g	R
Potassium linoleate (TECH)		S-50	10g	R
Potassium maleate		7234F	5g	R
Potassium Metallo-Organic Standard	1000ug/g in Mineral Oil	XKKOMS	100g	
Potassium myristate (TECH)		S-45	10g	R
Potassium naphthenate (TECH)		S-52	10g	R
Potassium nitrate		I-106	10g	7757-79-1
Potassium Nitrate (KNO3) 99.99%		XK-NO-S-A	5g	
Potassium Nitrate (KNO3) 99.99%		XK-NO-S-B	25g	
Potassium nitrite		I-107	10g	7758-09-0
Potassium oleate (TECH)		S-49	10g	143-18-0
Potassium oxalate		I-5070	10g	6487-48-5
Potassium palmitate (TECH)		S-46	10g	R
Potassium pentafluorozirconate		I-5080	1g	13782-18-8
Potassium perchlorate		I-108	10g	7778-74-7
Potassium periodate		I-5085	1g	7790-21-8
Potassium permanganate		I-109	10g	7722-64-7
Potassium persulfate		I-110	10g	7727-21-1
Potassium phosphate		I-111	10g	7778-77-0
Potassium phosphate dibasic		I-112	10g	7758-11-4
Potassium phosphate-tribasic		I-113	10g	7778-53-2
Potassium polymerized alkyl-naphthalene sulfonate (TECH)		S-445	10g	R
Potassium pyrosulfate		I-5100	10g	7790-62-7
Potassium ricinoleate (TECH)		S-51	10g	R
Potassium sodium tartrate		I-5110	10g	6381-59-5
Potassium stearate (TECH)		S-47	10g	R
Potassium sulfate		I-114	10g	7778-80-5
Potassium sulfide		I-5130	10g	1312-73-8
Potassium sulfite		I-5140	10g	10117-38-1

Category Name	Specification	Catalog#	Size	CAS#
Potassium superoxide		I-7026	1g	
Potassium tartrate		I-5150	10g	921-53-9
Potassium tetrafluoroantimonate		I-5164	1g	15273-81-1
Potassium thiocyanate		I-115	10g	333-20-0
Potassium titanate		I-5170	10g	12030-97-6
Potassium titanium fluoride		I-5180	10g	16919-27-0
Potassium tripolyphosphate		I-5190	10g	13845-36-8
Potassium undecylenate (TECH)		S-48	10g	R
Powmyl*		PS-2153	250mg	87130-20-9
PPG-1 Hydroxyethyl caprylamide (TECH)		S-665	10g	201305-18-2
PPG-2 Hydroxyethyl cocamide (TECH)		S-664	10g	201363-52-2
PPG-2 Hydroxyethyl coco/isostearamide (TECH)		S-666	10g	R
Prallethrin		PS-2109	10mg	23031-36-9
Prallethrin Solution	100ug/ml in Acetonitrile	PS-2109AJS	1mL	
Prallethrin Solution	100ug/ml in Isooctane	PS-2109JS	1mL	
Pramitol*		PS-386	250mg	1610-18-0
Praseodymium - 10% HCl		X10M 42-2-100	100ml	
Praseodymium - 10% HCl		X10M 42-2-250	250ml	
Praseodymium - 10% HCl		X10M 42-2-500	500ml	
Praseodymium - 4% HNO3		X10M 42-1-100	100ml	
Praseodymium - 4% HNO3		X10M 42-1-250	250ml	
Praseodymium - 4% HNO3		X10M 42-1-500	500ml	
Praseodymium - Pr4O11, 99.99%, 2% HCl	X100042-2-A	100ml		
Praseodymium - Pr4O11, 99.99%, 2% HCl	X100042-2-B	250ml		
Praseodymium - Pr4O11, 99.99%, 2% HCl	X100042-2-C	500ml		
Praseodymium - Pr4O11, 99.99%, 2% HNO3		X100042-1-A	100ml	
Praseodymium - Pr4O11, 99.99%, 2% HNO3		X100042-1-B	250ml	
Praseodymium - Pr4O11, 99.99%, 2% HNO3		X100042-1-C	500ml	
Praseodymium Oxide (Pr6O11) 99.99%		XPR-O-A	5g	
Praseodymium Oxide (Pr6O11) 99.99%		XPR-O-B	25g	
Prebane*		PS-379	1g	886-50-0
Precision*		PS-2174	100mg	79127-80-3
Prednisolone-(hydrogen succinate) sodium salt		7246F	100mg	1715-33-9
Preeglone*		PS-366	500mg	1910-42-5
Prefar*		PS-425	250mg	741-58-2
Preforan*		PS-431	250mg	15457-05-3
Prelude*		PS-2175	250mg	67747-09-5
Premalin*		PS-2210	250mg	1746-81-2
Premerge*		PS-56	100mg	88-85-7
Premier* Herbicide		PS-1211	5ml	62924-70-3
Pre-San*		PS-425	250mg	741-58-2
Preservit*		PS-17	250mg	533-74-4
Preside*		PS-2111	500mg	98967-40-9
Pretilachlor		PS-2294	250mg	51218-49-6
Pretilachlor Solution	100ug/ml in Acetonitrile	PS-2294AJS	1mL	
Pretilachlor Solution	100ug/ml in Toluene	PS-2294JS	1mL	
Preventol G-D*		PS-6	250mg	97-23-4
Prevex*		PS-2167	250mg	25606-41-1
Previcur-N*		PS-2167	250mg	25606-41-1
Primary Amines		Oam-31	KIT	
Primary Drinking Water Metals (in 2% HNO3)		XDWPS-A	100ml	
Primary Drinking Water Metals (in 2% HNO3)		XDWPS-B	250ml	
Primary Drinking Water Metals (in 2% HNO3)		XDWPS-C	500ml	
Primatol*		PS-386	250mg	1610-18-0
Primatol P*		PS-385	500mg	139-40-2
Primatol Q*		PS-384	1g	7287-19-6
Primatol S*		PS-58	500mg	122-34-9
Prime*		PS-1211	5ml	62924-70-3
Primicid*		PS-643	250mg	23505-41-1
Primisulfuron		PS-2169	100mg	86209-51-0
Primisulfuron-methyl		PS-2169	100mg	86209-51-0
Primisulfuron-methyl Solution	100ug/ml in Acetonitrile	PS-2169AJS	1mL	
Primisulfuron-methyl Solution	100ug/ml in Toluene	PS-2169JS	1mL	
Primulin yellow/C.I.#49000		BS-73	1g	30113-37-2
Princep*		PS-58	500mg	122-34-9
Priority Pollutant Kit		F-120	KIT	
Priority Pollutant Kit		F-120NS	KIT	
Priority Pollutants Kit		F-120SL	KIT	
Prism*		PS-2045	100mg	99129-21-2
Pristane (S.G.)		F2525	1g	1921-70-6
Probenazole		PS-2082	500mg	27605-76-1

Category Name	Specification	Catalog#	Size	CAS#
Probenazole Solution	100ug/ml in Methanol	PS-2082JS	1mL	
Procaine hydrochloride		7240	10g	**51-05-8**
Prochloraz		PS-2175	250mg	**67747-09-5**
Prochloraz Solution	100ug/ml in Acetonitrile	PS-2175AJS	1mL	
Prochloraz Solution	100ug/ml in Toluene	PS-2175JS	1ml	
Procure*		PS-2121	250mg	**68694-11-1**
Procyazine		PS-402	1g	**32889-48-8**
Procyazine Solution	100ug/ml in Acetonitrile	PS-402AJS	1mL	
Procyazine Solution	100ug/ml in MTBE	PS-402JS	1mL	
Procymidone		PS-2126	250mg	**32809-16-8**
Procymidone Solution	100ug/ml in Acetonitrile	PS-2126AJS	1mL	
Procymidone Solution	100ug/ml in Toluene	PS-2126JS	1ml	
Prodiamine		PS-2133	100mg	**29091-21-2**
Prodiamine Solution	100ug/ml in Acetonitrile	PS-2133AJS	1mL	
Prodiamine Solution	100ug/ml in Isooctane	PS-2133JS	1mL	
Profenofos		PS-1024	250mg	**41198-08-7**
Profenofos Solution	100ug/ml in Acetonitrile	PS-1024AJS	1mL	
Profenofos Solution	100ug/ml in Hexane	PS-1024JS	1ml	
Proflavine sulfate		2821L	1g	
Profluralin (S.G.)	1000ug/ml in Hexane	F2367S	5ml	
Profluralin (S.G.)		F2367	1g	**26399-36-0**
Profluralin Solution (S.G.)	1000ug/ml in Hexane	F2367JS	1ml	
Profluralin		PS-399	1g	**26399-36-0**
Profluralin Solution	100ug/ml in Acetonitrile	PS-399AJS	1mL	
Pro-Gibb		PS-49	100mg	**77-06-5**
Prograss*		PS-1045	250mg	**26225-79-6**
Prohexadione		PS-2226-1	100mg	**88805-35-0**
Prohexadione-Calcium		PS-2226	100mg	**127277-53-6**
Prokarbol*		PS-57	1g	**534-52-1**
Prokarbol*		PS-57	1g	**534-52-1**
Prolate		PS-653	1g	**732-11-6**
Prolin*		PS-104	1g	**81-81-2**
L-Proline (R.G.)		AA-19	1g	**147-85-3**
Promecarb		PS-2027	100mg	**2631-37-0**
Promecarb (S.G.)		F2358	100mg	**2631-37-0**
Promecarb Solution (S.G.)	1000ug/ml in Methanol	F2358JS	1ml	
Promecarb (S.G.)	1000ug/ml in Methanol	F2358S	5ml	
Prometon (S.G.)		F2210	250mg	**1610-18-0**
Prometon Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2210JS	1ml	
Prometon (S.G.)	100ug/ml in t-Butylmethyl ether	F2210S	5ml	
Prometon		PS-386	250mg	**1610-18-0**
Prometon Solution	100ug/ml in Acetonitrile	PS-386AJS	1mL	
Prometryne		PS-384	1g	**7287-19-6**
Prometryne Solution	100ug/ml in Acetonitrile	PS-384AJS	1mL	
Prometryne (S.G.)		F2235	1g	**7287-19-6**
Prometryne Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2235JS	1ml	
Prometryne (S.G.)	100ug/ml in t-Butylmethyl ether	F2235S	5ml	
Promulgated Volatiles Mixture - 524.2	2000ug/ml in Methanol	PV524-1M	5ml	
Pronamide*		PS-349	1g	**23950-58-5**
**** Pronamide see F1083 Propyzamide**				
Propachlor		PS-355	250mg	**1918-16-7**
Propachlor Solution	100ug/ml in Acetonitrile	PS-355AJS	1mL	
Propachlor (S.G.)		F2205	250mg	**1918-16-7**
Propachlor Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2205JS	1ml	
Propachlor (S.G.)	100ug/ml in t-Butylmethyl ether	F2205S	5ml	
Propachlor ESA sodium salt		MET-355A	25mg	**947601-88-9**
Propachlor ESA sodium salt Solution	100ug/mL in Methanol	MET-355AJS	1mL	
Propachlor OA sodium salt		MET-355B	10mg	**70628-36-3**
Propachlor OA Solution	100ug/mL in Methanol	MET-355BJS	1mL	
Propal*		PS-324	100mg	**7085-19-0**
Propamocarb		PS-2167-1	250mg	**24579-73-5**
Propamocarb Solution	100ug/ml in H2O	PS-2167-1AJS	1mL	
Propamocarb Solution	100ug/ml in Toluene	PS-2167-1JS	1mL	
Propamocarb HCl		PS-2167	250mg	**25606-41-1**
Propamocarb HCl Solution	100ug/ml in H2O	PS-2167AJS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
Propamocarb Hydrochloride		PS-2167	250mg	**25606-41-1**
**** Propanal see 0-233 Propionaldehyde**				
1.2-Propanediamine (S.G.)		0-332	5g	**78-90-0**
1.3-Propanediol (S.G.)		0-204	1g	**504-63-2**
**** 1.2-Propanediol see 0-205 Propylene glycol**				
1.3-Propanedithiol		7255C	5g	**109-80-8**
**** 2-Propanethiol see 0-2137 Isopropyl mercaptan**				
**** 1,2,3-Propanetriol diacetate see 0-509 Diacetin**				
**** 1,2,3-Propanetriol monoacetate see 0-460 Monoacetin**				
Propanil (S.G.)		F2379	500mg	**709-98-8**
Propanil Solution (S.G.)	1000ug/ml in Acetonitrile:Acetone (90:10)	F2379JS	1ml	
Propanil (1000ug/ml in Acetonitrile:Acetone (90:10)) (S.G.)	1000ug/ml in Acetonitrile:Acetone (90:10)	F2379S	5ml	
Propanil		PS-356	500mg	**709-98-8**
**** 1-Propanol see 0-167 Propyl alcohol**				
**** 2-Propanol see 0-168 Isopropyl alcohol**				
3-Propanolpyridine		7255	10g	**2859-67-8**
Propagite		PS-858	100mg	**2312-35-8**
Propargite*		PS-858	100mg	**2312-35-8**
Propargite Solution	100ug/ml in Acetonitrile	PS-858AJS	1mL	
**** Propargyl alcohol see F2019 2-Propyn-1-ol**				
Propazine		PS-385	500mg	**139-40-2**
Propazine Solution	100ug/ml in Acetonitrile	PS-385AJS	1mL	
Propazine (S.G.)		F2236	500mg	**139-40-2**
Propazine Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2236JS	1ml	
Propazine (S.G.)	100ug/ml in t-Butylmethyl ether	F2236S	5ml	
Propazine (ring-13C3) Solution (S.G.)	100ug/ml in n-Nonane	FC2236S	1.2ml	
Propazine-2-hydroxy 100ug/ml in Acetonitrile:Water (75:25).		MET-385A	5ml	**R**
**** 1,2-Propene didodeconate see 0-496 1.2-Propylene dilaurate**				
**** 1,2-Propene dioctadecanoate see 0-497 1.2-Propylene distearate**				
**** 2-Propen-1-ol see 0-138 Allyl alcohol**				
**** 1-Propen-2-ol acetate see 0-436 Isopropenyl acetate**				
**** Propenyl acetate see 0-405 Allyl acetate**				
2-Propenylidene diacetate (S.G.)		0-495	500mg	**869-29-4**
Propetamphos		PS-1076	100mg	**31218-83-4**
Propetamphos		PS-1076	100mg	**31218-83-4**
Propham		PS-53	1g	**122-42-9**
Propham Solution	100 ug/ml in Toluene	PS-53JS	1mL	
Propham (S.G.)		F2376	1g	**122-42-9**
Propham Solution (S.G.)	1000ug/ml in Acetonitrile	F2376JS	1ml	
Propham (S.G.)	1000ug/ml in Acetonitrile	F2376S	5ml	
Prophos Solution	100ug/ml in Acetonitrile	PS-672AJS	1mL	
Prophos Solution	100ug/mL in Acetonitrile	PS-672JS	1mL	
Prophos (S.G.)		F2062	250mg	**13194-48-4**
Prophos Solution (S.G.)	100ug/ml in Toluene	F2062JS	1ml	
Prophos (S.G.)	100ug/ml in Toluene	F2062S	5ml	
Prophos		PS-672	250mg	**13194-48-4**
Propiconazole		PS-1075	250mg	**60207-90-1**
Propiconazole		PS-1075	250mg	**60207-90-1**
Propiconazole Solution	100ug/ml in Acetonitrile	PS-1075AJS	1mL	
Propiconazole Solution (S.G.)	100ug/ml in Cyclohexane	PS-1075JS	1ml	
Propineb		PS-2062	250mg	**9016-72-2**
Propineb Solution	100ug/ml in Acetonitrile	PS-2062AJS	1mL	
Propineb Solution	100ug/ml in Toluene	PS-2062JS	1mL	
b-Propiolactone (S.G.)		F947	100mg	**57-57-8**
b-Propiolactone Solution (S.G.)	1000ug/ml in Toluene	F947JS	1ml	
b-Propiolactone (S.G.)	1000ug/ml in Toluene	F947S	5ml	
Propiolic acid		7262B	1g	**471-25-0**
Propionaldehyde (S.G.)		F2335	5g	**123-38-6**
Propionaldehyde Solution (S.G.)	1000ug/ml in Acetonitrile	F2335JS	1ml	
Propionaldehyde (S.G.)	1000ug/ml in Acetonitrile	F2335S	5ml	
Propionaldehyde (DNPH Derivative) (S.G.)		F2354	100mg	**725-00-8**
Propionaldehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2354AJS	1ml	
Propionaldehyde (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2354AS	5ml	

Category Name	Specification	Catalog#	Size	CAS#
Propionaldehyde (DNPH Derivative) Solution (S.G.)				
	1000ug/ml in Methanol:Acetonitrile (80:20)	F2354JS	1ml	
Propionaldehyde (DNPH Derivative) (S.G.)	1000ug/ml in Methanol:Acetonitrile (80:20)	F2354S	5ml	
Propionaldehyde (S.G.)		O-233	1g	**123-38-6**
Propionaldehyde diethyl acetal		7065K	100mg	**4744-08-5**
Propionamide (S.G.)		O-256	1g	**79-05-0**
Propionic acid (S.G.)		O-25	10g	**79-09-4**
Propionic acid sodium salt		7265B	10g	**137-40-6**
Propionic anhydride (S.G.)		O-129	10g	**123-62-6**
Propionitrile (S.G.)		F983	2g	**107-12-0**
Propionitrile Solution (S.G.)	100ug/ml in Methanol	F983JS	1ml	
Propionitrile (S.G.)	100ug/ml in Methanol	F983S	5ml	
Propionitrile (S.G.)		O-840	2g	**107-12-0**
Propiophenone (S.G.)		F2256	1g	**93-55-0**
Propiophenone Solution (S.G.)	1000ug/ml in Acetonitrile	F2256JS	1ml	
Propiophenone (S.G.)	1000ug/ml in Acetonitrile	F2256S	5ml	
Proponex-Plus*		PS-324	100mg	**7085-19-0**
Propoxur (S.G.)		F2045	1g	**114-26-1**
Propoxur Solution (S.G.)	100ug/ml in Acetonitrile	F2045JS	1ml	
Propoxur (S.G.)	100ug/ml in Acetonitrile	F2045S	5ml	
Propoxur		PS-551	1g	**114-26-1**
Propoxur		PS-551	1g	**114-26-1**
Propoxur Solution	100ug/ml in Toluene	PS-551JS	1mL	
**** Propoxur see F2045 Baygon**				
Propoxycarbazone-sodium		PS-2285	100mg	**181274-15-7**
Propoxycarbazone-sodium Solution		PS-2285AJS	1mL	
2-Propoxyethanol (S.G.)		O-2299	1g	**2807-30-9**
Propyl acetate (S.G.)		O-437	2g	**109-60-4**
Propyl alcohol (S.G.)		**F2557**	**5g**	**71-23-8**
Propyl alcohol (S.G.)		O-167	5g	**71-23-8**
n-Propylamine (S.G.)		F2020	5g	**107-10-8**
n-Propylamine Solution (S.G.)	100ug/ml in Methanol	F2020JS	1ml	
2-(Propylamino)ethanol		7069K	1g	**16369-21-4**
n-Propylbenzene (S.G.)		F827	5g	**103-65-1**
n-Propylbenzene Solution (S.G.)	100ug/ml in Methanol	F827JS	1ml	
n-Propylbenzene (S.G.)	100ug/ml in Methanol	F827S	5ml	
S-Propyl butylethylthiocarbamate		PS-55	1g	**1114-71-2**
S-Propyl butylethylthiocarbamate Solution	100ug/ml in Acetonitrile	PS-55AJS	1mL	
S-Propyl butylethylthiocarbamate (S.G.)		F2233	1g	**1114-71-2**
S-Propyl butylethylthiocarbamate Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2233JS	1ml	
S-Propyl butylethylthiocarbamate (S.G.)	100ug/ml in t-Butylmethyl ether	F2233S	5ml	
S-Propyl n-butylthiolcarbamate		PS-55	1g	**1114-71-2**
N-Propyl-N-cyclopropylmethyl-2.6-dinitro-4-(a,a,a-trifluoro)to		PS-399	1g	**26399-36-0**
S-Propyl dipropylthiocarbamate		PS-504	250mg	**1929-77-7**
S-Propyl-N.N-dipropylthiolcarbamate		PS-504	250mg	**1929-77-7**
Propylene carbonate (S.G.)		O-399	10g	**108-32-7**
Propylene carbonate (TECH)		Pz-33	10g	**108-32-7**
1.2-Propylene dilaurate (S.G.)		O-496	1g	**R**
1.2-Propylene distearate (S.G.)		O-497	1g	**R**
Propylene glycol (S.G.)		O-205	10g	**57-55-6**
Propylene glycol dilaurate (TECH)		Pz-93	10g	**R**
Propylene glycol dilaurate (TECH)		S-218-1	10g	**R**
Propylene glycol dipelargonate (TECH)		S-225	10g	**41395-83-9**
Propylene glycol distearate (TECH)		Pz-796	10g	**R**
Propylene glycol distearate (TECH)		S-219	10g	**R**
Propylene glycol monohydroxystearate (TECH)		S-224	10g	**R**
Propylene glycol monoisostearate (TECH)		S-223	10g	**R**
Propylene glycol monolaurate (TECH)		Pz-91	5g	**27194-74-7**
Propylene glycol monolaurate (TECH)		S-217	5g	**27194-74-7**
**** a-Propylene glycol monomethyl ether see O-180 1-Methoxy-2-propanol**				
Propylene glycol monooleate (TECH)		Pz-92	10g	**R**
Propylene glycol monooleate (TECH)		S-221	10g	**R**
Propylene glycol monoricinoleate (TECH)		Pz-790	10g	**R**

Category Name	Specification	Catalog#	Size	CAS#
Propylene glycol monoricinoleate (TECH)		S-222	10g	**26402-31-3**
Propylene glycol monostearate (TECH)		Pz-795	10g	**1323-39-3**
Propylene glycol monostearate (TECH)		S-218	10g	**1323-39-3**
Propylene oxide (S.G.)		O-572	1g	**75-56-9**
Propylene thiourea (S.G.)		F2449	250mg	**2122-19-2**
Propylene thiourea Solution (S.G.)	100ug/ml in Ethyl acetate containing 0.1% of DTT	F2449JS	1ml	
Propylene thiourea (100ug/ml in Ethyl acetate containing 1000ug/ml of DTT) (S.G.)				
	100ug/ml in Ethyl acetate containing 0.1% of DTT	F2449S	5ml	
Propyl formate (S.G.)		O-439	500mg	**110-74-7**
Propyl gallate (TECH)		Ou-18	3g	**121-79-9**
Propyl-p-hydroxybenzoate (R.G.)		7310F	10g	**94-13-3**
n-Propyl mercaptan (S.G.)		O-2256	5g	**107-03-9**
Propyl nitrate (S.G.)		O-833	500mg	**627-13-4**
n-Propyl oleate (TECH)		Pz-225	10g	**R**
2-n-Propylphenol		7145H	1g	**644-35-9**
2-n-Propylpiperidine		7080K	10mg	**10388-95-1**
Propyl propionate (S.G.)		O-440	1g	**106-36-5**
Propyl stearate		7145J	5g	**R**
Propyl sulfone		7330F	100mg	**598-03-8**
6-Propyl-2-thiouracil (S.G.)		F2133	1g	**51-52-5**
6-Propyl-2-thiouracil Solution (S.G.)	100ug/ml in Methanol	F2133JS	1ml	
6-Propyl-2-thiouracil (S.G.)	100ug/ml in Methanol	F2133S	5ml	
Propyl-p-tolyl ether		7150J	200mg	**R**
1-(N-Propyl-N-(2-(2,4,6-trichlorophenoxy)ethyl)carbamoyl)imidazole		PS-2175	250mg	**67747-09-5**
Propyl valerate		7139H	500mg	**R**
2-Propyn-1-ol (S.G.)		F2019	5g	**107-19-7**
2-Propyn-1-ol Solution (S.G.)	100ug/ml in Methanol	F2019JS	1ml	
2-Propyn-1-ol (S.G.)	100ug/ml in Methanol	F2019S	5ml	
2-Propyn-1-ol (S.G.)		O-169	5g	**107-19-7**
2-Propynyl-(E,E)-3,7,11-trimethyl-2,4-dodecadienoate		PS-2051	100mg	**42588-37-4**
Propyzamide		PS-349	1g	**23950-58-5**
Propyzamide (S.G.)		**F**1083	1g	**23950-58-5**
Propyzamide Solution (S.G.)	100ug/ml in Methanol	F1083JS	1ml	
Propyzamide (S.G.)	100ug/ml in Methanol	F1083S	5ml	
Prosulfuron		PS-2123	100mg	**94125-34-5**
Prosulfuron Solution	100ug/ml in Acetonitrile	PS-2123AJS	1mL	
Prosulfuron Solution	100ug/ml in Toluene	PS-2123JS	1mL	
Protect*		PS-1048	500mg	**81-84-5**
Protex*		PS-99	250mg	**83-79-4**
Prothioconazole		PS-2351	100mg	**178928-70-6**
**** Prothiofos see F2070 Tokuthion**				
Prothiophos		PS-1094	100mg	**34643-46-4**
Prothiophos		PS-1094	100mg	**34643-46-4**
Prowl (TM) (S.G.)		F2438	1g	**40487-42-1**
Prowl (TM) Solution (S.G.)	1000ug/ml in Isooctane	F2438JS	1ml	
Prowl (TM) (S.G.)	1000ug/ml in Isooctane	F2438S	5ml	
Prussian blue/C.I.#77510		BS-163	500mg	**14038-43-8**
Pseudothiohydantion		2566L	500mg	**556-90-1**
**** Pteroylglutamic acid see V-24 Vitamin L**				
**** PTU see F2449 Propylene thiourea**				
(+)-Pulegone		7340F	1g	**89-82-7**
Puma*		PS-2223	100mg	**71283-80-2**
Punch*		PS-2041	100mg	**85509-19-9**
Puralin*		PS-24	1g	**137-26-8**
Purgable Volatile Organic Compounds #1 - GRO/DRO	1000ug/ml in Methanol	TPH-1M	5ml	
Purgeable Hydrocarbons and Aromatics Mixture - 601/602 200ug/ml in Methanol		PHA-1JM	1ml	
Purgeable Hydrocarbons and Aromatics Mixture - 601/602	200ug/ml in Methanol	PHA-1M	5ml	
Purgeable Internal Standards mixture	2000ug/ml in Methanol	PP-10M	5ml	
Purgeable Internal Standards neat		PP-10N	KIT	
Purgeable Internal Standards Solutions		PP-10S	KIT	
Purgeable Organic Compounds - Supplement - 524.2				
	100ug/ml in Methanol:Water (95:5)	POC-1JM	1ml	

Category Name	Specification	Catalog#	Size	CAS#
Purgeables-Aromatic-Method 602-Solutions		PR-1AS	KIT	
Purgeables-Aromatics-Method 602-Mixture	100ug/ml in Methanol	PR-1AM	5ml	
Purgeables-Aromatics-Method 602-Neat		PR-1AN	KIT	
Purgeables Internal Standards Mixture #A - CLP Vol	2500ug/ml in Methanol	CLP-4AM	5ml	
Purgeables Internal Std Mixture-8240/CLP	1000ug/ml in Methanol	CLP-4M	5ml	
Purgeables Kit-Methods 601 & 602-Neat Form		PR-1N	KIT	
Purgeables Kit-Methods 601 & 602-Solutions		PR-1S	KIT	
Purgeables Mixture A	200ug/ml in Methanol	PPW-24AM	5ml	
Purgeables Mixture B	200ug/ml in Methanol	PPW-24BM	5ml	
Purgeables Mixture C	200ug/ml in Methanol	PPW-24CM	5ml	
Purgeables Surrogate Standards Mixture #A - CLP Vol	2500ug/ml in Methanol	CLP-3AM	5ml	
Purgeables Surrogate Std Mixture-8240/CLP	250ug/ml in Methanol	CLP-3M	5ml	
Purivel*		PS-2178	250mg	**19937-59-8**
Purpurin/C.I.#58205		BS-88	1g	**81-54-9**
Pursuit*		PS-2039	100mg	**81335-77-5**
Pydrin*		PS-1032	250mg	**51630-58-1**
Pymetrozine		PS-2189	250mg	**123312-89-0**
Pymetrozine Solution	100ug/ml in Acetonitrile	PS-2189AJS	1mL	
Pymetrozine Solution	100ug/ml in Toluene	PS-2189JS	1mL	
Pyraclofos		PS-2046	50mg	**77458-01-6**
Pyraclofos Solution	100ug/ml in Acetonitrile	PS-2046AJS	1mL	
Pyraclofos Solution	100ug/ml in Toluene	PS-2046JS	1mL	
Pyraclostrobin		PS-2235	100mg	**175013-18-0**
Pyraclostrobin Solution	100ug/ml in Acetonitrile	PS-2235AJS	1mL	
Pyraflufen		MET-2306A	10mg	**129630-17-7**
Pyraflufen-ethyl		PS-2306	100mg	**129630-19-9**
Pyramine		PS-430	250mg	**1698-60-8**
Pyramite*		PS-2125	1g	**96489-71-3**
Pyrazinamide		7084K	1g	**98-96-4**
Pyrazine		2422L	100mg	**290-37-9**
Pyrazole		7088K	100mg	**288-13-1**
3-Pyrazolidinone hydrachloride		7092K	10mg	**R**
Pyrazon		PS-430	250mg	**1698-60-8**
Pyrazon Solution	100ug/ml in Methanol	PS-430JS	1mL	
Pyrazophos		PS-2049	100mg	**13457-18-6**
Pyrazophos Solution	100ug/ml in Acetonitrile	PS-2049AJS	1mL	
Pyrazophos Solution	100ug/ml in Toluene	PS-2049JS	1ml	
Pyrazosulfuron-ethyl		PS-2105	100mg	**93697-74-6**
Pyrazosulfuron-ethyl Solution	100ug/ml in Acetonitrile	PS-2105AJS	1mL	
Pyrazosulfuron-ethyl Solution	100ug/ml in Toluene	PS-2105JS	1mL	
Pyrazoxyfen (S.G.)		PS-2064	1g	**71561-11-0**
Pyrazoxyfen Solution	100ug/ml in Methanol	PS-2064JS	1mL	
Pyrene (S.G.)		F84	1g	**129-00-0**
Pyrene Solution (S.G.)	100ug/ml in Toluene	F84JS	1ml	
Pyrene Solution (S.G.)	100ug/ml in Methanol	F84MJS	1ml	
Pyrene (S.G.)	100ug/ml in Methanol	F84MS	5ml	
Pyrene (S.G.)	100ug/ml in Toluene	F84S	5ml	
Pyrene (13C3) Solution (S.G.)	100ug/ml in n-Nonane	FC84S	1.2ml	
Pyrene (S.G.)		O-791	500mg	**129-00-0**
1-Pyrenecarboxaldehyde		2431L	100mg	**3029-19-4**
Pyrene-d10 (S.G.)		F2489	10mg	**R**
Pyrene-d10 Solution (S.G.)	500 ug/ml in Acetone	F2489JS	1ml	
Pyrene-d10 (S.G.)	500 ug/ml in Acetone	F2489S	5ml	
Pyresyn* (0.1mg/ml in Methylene chloride)		PS-96	5ml	**584-79-2**
Pyrethrins & Pyrethroids Mixture #1 - 1660	VARIED in Acetonitrile	PP1660-1M	5ml	
Pyrethrins & Pyrethroids Mixture #2 - 1660	400ug/ml in Acetonitrile	PP1660-2M	5ml	
Pyrethrum		PS-97	100mg	**8003-34-7**
Pyrethrum Solution	100ug/ml in Acetonitrile	PS-97AJS	1mL	
Pyrethrum Solution	100ug/ml in MTBE	PS-97JS	1mL	
Pyridaben		PS-2125	1g	**96489-71-3**
Pyridaben Solution	100ug/ml in Methanol	PS-2125JS	1mL	
Pyridaryl		PS-2360	50mg	**179101-81-6**
Pyridaphenthion		PS-2155	250mg	**119-12-0**
Pyridaphenthion		PS-2155	250mg	**119-12-0**
Pyridaphenthion Solution	100ug/ml in Acetonitrile	PS-2155AJS	1mL	
Pyridaphenthion Solution	100ug/ml in Toluene	PS-2155JS	1ml	
Pyridate		PS-2081	500mg	**55512-33-9**

Category Name	Specification	Catalog#	Size	CAS#
Pyridate Solution	100ug/ml in Acetonitrile	PS-2081AJS	1mL	
Pyridate Solution	100ug/ml in MTBE	PS-2081JS	1mL	
Pyridine (S.G.)		F1084	5g	**110-86-1**
Pyridine Solution (S.G.)	100ug/ml in Methanol	F1084JS	1ml	
Pyridine (S.G.)	100ug/ml in Methanol	F1084S	5ml	
Pyridine (S.G.)		O-706	5g	**110-86-1**
Pyridine-d5 (S.G.)		F340	1g	**7291-22-7**
Pyridine-d5 Solution (S.G.)	2000ug/ml in Isooctane	F340JS	1ml	
Pyridine-d5 (S.G.)	2000ug/ml in Isooctane	F340S	5ml	
Pyridine-4-aldehyde		7096K	10mg	**872-85-5**
Pyridine-3-aldehyde thiosemicarbazone		2410L	100mg	**555-90-8**
2-Pyridinealdoxime		8000K	1g	**873-69-8**
3-Pyridinealdoxime		8002K	100mg	**1193-92-6**
4-Pyridinealdoxime		8004K	100mg	**696-54-8**
Pyridineborane		2503L	100mg	**110-51-0**
2-Pyridinecarboxaldehyde		2395L	1g	**1121-60-4**
2-Pyridinecarboxaldehyde (DNPH Derivative) (S.G.)		F2947	250mg	**R**
**** 3-Pyridine carboxylic acid see 0-121 Nicotinic acid**				
**** 4-Pyridine carboxylic acid see 0-120 Isonicotinic acid**				
**** 3-Pyridine carboxylic acid amide see 0-271 Nicotinamide**				
2,3-Pyridinedicarboxylic acid		2404L	1g	**89-00-9**
2.6-Pyridinedicarboxylic acid		8010K	100mg	**499-83-2**
3.4-Pyridinedicarboxylic acid		8013K	10mg	**490-11-9**
3.5-Pyridinedicarboxylic acid		7341F	1g	**499-81-0**
2.3-Pyridinedicarboxylic anhydride		7343F	1g	**699-98-9**
2,6-Pyridinedimethanol		2479L	100mg	**1195-59-1**
Pyridine sulfur trioxide		7348F	1g	**26412-87-3**
4-(1H)-Pyridone		8025K	1g	**626-64-2**
Pyridoxal hydrochloride (S.G.)		V-2	500mg	**65-22-5**
Pyridoxal 5-phosphate monohydrate		2464L	10mg	**41468-25-1**
Pyridoxamine dihydrochloride (S.G.)		V-3	100mg	**524-36-7**
**** Pyridoxin see V-12 Vitamin B6**				
**** Pyridoxin hydrochloride see V-13 Vitamin B6 hydrochloride**				
4-Pyridylacetic acid hydrochloride		2443L	100mg	**28356-58-3**
2-Pyridylacetic acid hydrochloride		7355F	100mg	**16179-97-8**
3-Pyridylacetic acid hydrochloride		8029K	100mg	**6419-36-9**
b-(4-Pyridyl)-acrylic acid		8032K	10mg	**R**
1.2-Pyridylazo-2-naphthol		6759F	100mg	**85-85-8**
3-Pyridylcarbinol		8036K	1g	**100-55-0**
4-Pyridylcarbinol		8038K	1g	**586-95-8**
Pyridylmercuric stearate		7365F	5g	**R**
1-(3-Pyridylmethyl)-3-(4-nitrophenyl)urea		PS-1059	100mg	**53558-25-1**
1-(2-Pyridyl)piperazine (S.G.)		O-2421	500mg	**34803-66-2**
**** 3-(3 Pyridyl)-1-propanol see 7255 3-Propanolpyridine**				
Pyrifluquinazon		PS-2344	100mg	**337458-27-2**
Pyrimethanil		PS-2251	100mg	**53112-28-0**
Pyrimethanil Solution	100ug/ml in Acetonitrile	PS-2251AJS	1mL	
Pyrimethanil Solution	100ug/ml in Toluene	PS-2251JS	1mL	
Pyriminil		PS-1059	100mg	**53558-25-1**
Pyrinex*		PS-674	250mg	**2921-88-2**
Pyriproxyfen		PS-2110	100mg	**95737-68-1**
Pyriproxyfen Solution	100ug/ml in Methanol	PS-2110JS	1mL	
Pyrithiobac-Sodium		PS-2145	500mg	**123343-16-8**
Pyrithiobac-Sodium Solution	100ug/ml in H2O	PS-2145AJS	1mL	
Pyrithiobac-Sodium Solution	100ug/ml in Toluene	PS-2145JS	1mL	
**** Pyrocatechol see O-902 Catechol**				
Pyrogallol (S.G.)		**O**-908	2g	**87-66-1**
dl-a-Pyroglutamic acid		1639F	5g	**149-87-1**
Pyromellitic acid (S.G.)		O-90	2g	**89-05-4**
**** Pyromellitic dianhydride see 2081B 1.2.4.5-Benzenetetracarboxylic anhydride**				
Pyromellitic diimide		2437L	100mg	**2550-73-4**
Pyrophos		PS-2181	50mg	**645-78-3**
Pyroxsulam		PS-2369	100mg	**422556-08-9**
Pyrrole (S.G.)		O-2370	5g	**109-97-7**
Pyrrole-2-carboxaldehyde		7369F	1g	**1003-29-8**
Pyrrole-2-carboxylic acid		8050K	10mg	**634-97-9**
Pyrrolidine (S.G.)		O-294	1g	**123-75-1**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
3-Pyrrolidinol		6998H	100mg	40499-83-0
2-Pyrrolidone (S.G.)		O-321	10g	616-45-5
Pyrrolidonyl-4-butyramide		2428L	1g	R
Pyruvaldehyde dimethyl acetal		8060K	1g	6342-56-9
Pyruvic acid (S.G.)		O-56	1g	127-17-3
Quadris*		PS-2141	250mg	131860-33-8
Quality Control Standard - 19		XQCS-19-A	100ml	
Quality Control Standard - 19		XQCS-19-B	250ml	
Quality Control Standard - 19		XQCS-19-C	500ml	
Quality Control Standard - 7		XQCS-7-A	100ml	
Quality Control Standard - 7		XQCS-7-B	250ml	
Quality Control Standard - 7		XQCS-7-C	500ml	
Quality Control Standard (26) Matrix 4% HNO3 + Tr HF		XQCS-26-A	100ml	
Quality Control Standard (26) Matrix 4% HNO3 + Tr HF		XQCS-26-B	250ml	
Quality Control Standard (26) Matrix 4% HNO3 + Tr HF		XQCS-26-C	500ml	
p-Quater phenyl (S.G.)		F1050	100mg	135-70-6
p-Quater phenyl Solution (S.G.)	100ug/ml in Toluene	F1050JS	1ml	
p-Quater phenyl (S.G.)	100ug/ml in Toluene	F1050S	5ml	
Quel*		PS-1008	100mg	12771-68-5
Queleton*		PS-655	250mg	55-38-9
Queletox*		PS-655	250mg	55-38-9
Quercetin dihydrate/C.I.#75670		BS-100	1g	6151-25-3
Quilan*		PS-389	250mg	1861-40-1
Quinaldic acid		8100K	10mg	93-10-7
Quinaldine		7395B	10g	91-63-4
Quinalphos		PS-2010	250mg	13593-03-8
Quinalphos Solution	100ug/ml in Acetonitrile	PS-2010AJS	1mL	
Quinalphos Solution	100ug/ml in Toluene	PS-2010JS	1ml	
Quinatox*		PS-2010	250mg	13593-03-8
Quinclorac		PS-2098	500mg	84087-01-4
Quinclorac Solution	100ug/ml in Acetonitrile	PS-2098AJS	1mL	
Quinclorac Solution	100ug/ml in MTBE	PS-2098JS	1mL	
Quinhydrone (S.G.)		O-928	500mg	106-34-3
D-Quinic acid		2752L	500mg	77-95-2
Quinidine monohydrate		7386F	100mg	56-54-2
Quinidine sulfate		7380F	100mg	6591-63-5
Quinine hydrochloride		2524L	200mg	6119-47-7
Quinine sulfate		2989L	100mg	804-63-7
Quinizarin/C.I.#58050		BS-87	1g	81-64-1
Quinoclamine		PS-2385	POR	2797-51-5
Quinolate*		PS-2091	500mg	10380-28-6
Quinoline (S.G.)		F2567	5g	91-22-5
Quinoline (d7) (S.G.)		FD2567-1	1g	34071-94-8
Quinoline (d7) (S.G.)		FD2567-A	0.1g	34071-94-8
Quinoline (S.G.)		O-707	5g	91-22-5
3-Quinolinecarboxaldehyde		8110K	10mg	13669-42-6
4-Quinolinecarboxaldehyde		8112K	10mg	4363-93-3
2.4-Quinolinediol		8116K	100mg	86-95-3
2.4-Quinolinediol monosodium salt		8118K	100mg	4510-76-3
Quinoline yellow/C.I.#47005		BS-72	1g	8004-92-0
8-Quinolinol		PS-18	1g	148-24-3
** 8-Quinolinol see O-697 8-Hydroxyquinoline				
8-Quinolinol lithium salt		7394F	100mg	R
8-Quinolinol zinc salt		7395F	100mg	R
Quinomethionate		PS-860	100mg	2439-01-2
Quinomethionate Solution	100ug/ml in Acetonitrile	PS-860AJS	1mL	
Quinomethionate Solution	100ug/ml in Toluene	PS-860JS	1mL	
p-Quinone (S.G.)		F2092	2g	106-51-4
p-Quinone Solution (S.G.)	100ug/ml in Hexane	F2092JS	1ml	
p-Quinone (S.G.)	100ug/ml in Hexane	F2092S	5ml	
p-Quinone (S.G.)		O-929	2g	106-51-4
Quinonechloroimide		7210H	500mg	637-61-6
Quinophenol		PS-18	1g	148-24-3
N'-2-Quinoxalyl sulfanilamine		PS-2056	10mg	59-40-5
Quinoxyfen		PS-2284	100mg	124495-18-7
Quinoxyfen Solution	100ug/ml in Acetonitrile	PS-2284AJS	1mL	
Quinoxyfen Solution	100ug/ml in Toluene	PS-2284JS	1mL	
m-Quinquephenyl (S.G.)		F1051	10mg	16716-13-5
m-Quinquephenyl Solution (S.G.)	100ug/ml in Hexane	F1051JS	1ml	
m-Quinquephenyl (S.G.)	100ug/ml in Hexane	F1051S	5ml	
Quintozene		PS-150	1g	82-68-8
Quinuclidine hydrochloride		7407F	100mg	39896-06-5
3-Quinuclidinol		7445B	1g	1619-34-7
3-Quinuclidinone hydrochloride		7409F	1g	1193-65-3
Quizalofop		MET-1080A	50mg	76578-12-6
Quizalofop methyl		MET-1080B	50mg	R
Quizalofop ethyl		PS-1080	100mg	76578-14-8
Quizalofop ethyl Solution	100ug/ml in Acetonitrile	PS-1080AJS	1mL	
Quizalofop ethyl Solution	100ug/ml in Toluene	PS-1080JS	1mL	
Quizalofop-P-ethyl		PS-2151	500mg	100646-51-3
Quizalofop-P-ethyl Solution	100ug/ml in Acetonitrile	PS-2151AJS	1mL	
Quizalofop-P-ethyl Solution	100ug/ml in Toluene	PS-2151JS	1mL	
Rabon*		PS-611	250mg	22248-79-9
Racumin*		PS-2093	250mg	5836-29-3
Racuza*		PS-1102	100mg	6597-78-0
Radapon*		PS-32	250mg	75-99-0
Rad-E-Cate 35*		PS-51	500mg	75-60-5
Radiant*		PS-2119	500mg	87546-18-7
D-(+)-Raffinose pentahydrate		CARB-15	1g	17629-30-0
Ragadan*		PS-2225	100mg	23560-59-0
Ramrod*		PS-355	250mg	1918-16-7
Randox*		PS-351	250mg	93-71-0
Rapidogen black J		BS-125	1g	R
Raptor*		PS-2162	250mg	114311-32-9
Ratak*		PS-2143	100mg	56073-07-5
Rattler*		PS-2185	250mg	38641-94-0
Rattrack*		PS-106	250mg	86-88-4
Raviac*		PS-2085	250mg	3691-35-8
Raxil*		PS-1091	100mg	107534-96-3
** RDX see F2471S Hexahydro-1,3,5-trinitro-1,3,5-triazine				
Reagent Chemicals - American Chemical Society Specifications (S.G.)		RC	Book	
Reducymol*		PS-1008	100mg	12771-68-5
Reflex*		PS-2102	500mg	72178-02-0
Regal gel		PS-2207	100mg	66246-88-6
Regim-8*		PS-561	1g	88-82-4
Reglone*		PS-365	500mg	6385-62-2
Regulated Volatiles Mixture - 524.2	2000ug/ml in Methanol	RV524-1M	5ml	
Regulox		PS-65	250mg	123-33-1
Reldan*		PS-418	250mg	5598-13-0
Rely*		PS-2124	250mg	77182-82-2
Renegade*		PS-2083	250mg	67375-30-8
Replacement Kit		ATLAB RF-HLB	KIT	
Resitox*		PS-656	100mg	56-72-4
Resmethrin		PS-1000	250mg	10453-86-8
Resmethrin Solution	100ug/ml in Acetonitrile	PS-1000AJS	1mL	
Resmethrin (S.G.)		F2293	250mg	10453-86-8
Resmethrin Solution (S.G.)	1000ug/ml in t-Butylmethyl ether	F2293JS	1ml	
Resmethrin (S.G.)	1000ug/ml in t-Butylmethyl ether	F2293S	5ml	
D-trans-Resmethrin		PS-2080	250mg	28434-01-7
Resorcinol (S.G.)		F2134	5g	108-46-3
Resorcinol Solution (S.G.)	100ug/ml in Methanol	F2134JS	1ml	
Resorcinol (S.G.)	100ug/ml in Methanol	F2134S	5ml	
Resorcinol (S.G.)		O-909	5g	108-46-3
Resorcinol monoacetate (S.G.)		O-554	2g	102-29-4
Resorcinol monobenzoate (TECH)		Ou-106	3g	136-36-7
Resource*		PS-2119	500mg	87546-18-7
RESTOCKING FEE		RSF		
Retene (S.G.)		F1052	50mg	483-65-8
Retene Solution (S.G.)	100ug/ml in Toluene	F1052JS	1ml	
Retene (S.G.)	100ug/ml in Toluene	F1052S	5ml	
** Retinol palmitate see V-6 Vitamin A palmitate				
Revap*		PS-611	250mg	22248-79-9
Revised Purgeable Volatile Organic Compounds Mixture #1A (WISC) - TPH	2000ug/ml in Methanol	TPH-1AJM	1ml	
Revised Purgeable Volatile Organic Compounds Mixture #1A (WISC) - TPH	2000ug/ml in Methanol	TPH-1AM	5ml	

Category Name	Specification	Catalog#	Size	CAS#
Rezifilm*		PS-24	1g	137-26-8
RF-A Gasoline (S.G.)		O-2343	5g	R
L-Rhamnose		CARB-16	1g	10030-85-0
Rhenium - 4% HNO3		X10M 43-1-100	100ml	
Rhenium - 4% HNO3		X10M 43-1-250	250ml	
Rhenium - 4% HNO3		X10M 43-1-500	500ml	
Rhenium - Re metal, 99.99%, 2% HNO3		X100043-1-A	100ml	
Rhenium - Re metal, 99.99%, 2% HNO3		X100043-1-B	250ml	
Rhenium - Re metal, 99.99%, 2% HNO3		X100043-1-C	500ml	
Rhenium - Re metal,99.99%,2% HCl		X100043-2-A	100ml	
Rhenium - Re metal,99.99%,2% HCl		X100043-2-B	250ml	
Rhenium - Re metal,99.99%,2% HCl		X100043-2-C	500ml	
Rhenium Oxide (Re2O7) 99.99%		XRE-O-A	1g	
Rhenium Oxide (Re2O7) 99.99%		XRE-O-B	5g	
Rhenium Powder (Re) 99.99%		XRE-MP-A	1g	
Rhenium Powder (Re) 99.99%		XRE-MP-B	5g	
Rhenium Shot (Re) 99.99%		XR-MS-A	1g	
Rhenium Shot (Re) 99.99%		XR-MS-B	5g	
Rhodamine B/C.I.#45170		BS-62	1g	81-88-9
Rhodium - (NH4)3RhCl6,99.99%,10% HCl		X100044-2-A	100ml	
Rhodium - (NH4)3RhCl6,99.99%,10% HCl		X100044-2-B	250ml	
Rhodium - (NH4)3RhCl6,99.99%,10% HCl		X100044-2-C	500ml	
Rhodizonic acid dipotassium salt		7482J	100mg	13021-40-4
Rhodizonic acid disodium salt		7481J	100mg	523-21-7
Ribitol		CARB-30	1g	488-81-3
** Riboflavin see V-9 Vitamin B2				
Riboflavin 5'-phosphate sodium salt		3238L	100mg	130-40-5
b-D-Ribofuranose-1-acetate-2.3.5-tribenzoate		7504F	100mg	6974-32-9
D-Ribose		CARB-17	5g	50-69-1
Rice bran oil		8175K	1g	R
Ricinoleic acid (TECH)		S-13	10g	141-22-0
Rid*		PS-33	250mg	1861-32-1
Ridomil*		PS-1099	100mg	57837-19-1
Rifle*		PS-2169	100mg	86209-51-0
Rimsulfuron		PS-2118	100mg	122931-48-0
Rimsulfuron Solution	100ug/ml in Acetonitrile	PS-2118AJS	1mL	
Rimsulfuron Solution	100ug/ml in MTBE	PS-2118JS	1mL	
Riogen*		PS-14	1g	62-38-4
Ripcord*		PS-2203	250mg	65731-84-2
Risolex*		PS-2156	500mg	57018-04-9
Rival*		PS-2175	250mg	67747-09-5
River Sediment A Solution (in 5% HNO3)		XCRM-RS-A-250	250ml	
River Sediment A Solution (in 5% HNO3)		XCRM-RS-A-100	100ml	
River Sediment B Solution (in 5% HNO3)		XCRM-RS-B-100	100ml	
River Sediment B Solution (in 5% HNO3)		XCRM-RS-B-250	250ml	
Rodanin S-62*		PS-2180	1g	96-45-7
Rodex*		PS-2029	1g	640-19-7
Rogor*		PS-659	250mg	60-51-5
Rogue*		PS-356	500mg	709-98-8
Ro-Neet		PS-502	250mg	1134-23-2
Ronilan*		PS-1049	1g	50471-44-8
Ronnel*		PS-657	100mg	299-84-3
** Ronnel see F2068 Fenchlorphos				
Ronstar*		PS-1050	250mg	19666-30-9
Rootone*		PS-28	1g	86-86-2
** Rosaniline see BS-50 Basic fuchsin				
Rose bengal G/C.I.#45435		BS-70	1g	632-69-9
Rosin oil - low viscosity (TECH)		Pz-163	10g	R
Rosin oil - medium viscosity (TECH)		Pz-164	10g	R
Rosin oil - high viscosity (TECH)		Pz-165	10g	R
Rosolic acid/C.I.#43800		BS-108	1g	603-45-2
Rospin*		PS-857	250mg	5836-10-2
Rotenone		PS-99	250mg	83-79-4
Rotenone Solution	100ug/ml in Acetonitrile	PS-99AJS	1mL	
Rotenone (S.G.)		F2382	250mg	83-79-4
Rotenone Solution (S.G.)	1000ug/ml in Methylene chloride	F2382JS	1ml	
Rotenone (S.G.)	1000ug/ml in Methylene chloride	F2382S	5ml	
Rothane*		PS-72	250mg	72-54-8
Roundup*		PS-1051	1g	1071-83-6
Roundup*		PS-2185	250mg	38641-94-0
Rovral*		PS-1052	100mg	36734-19-7
Roxion*		PS-659	250mg	60-51-5
Royal MH-30		PS-65	250mg	123-33-1
Rozol*		PS-2085	250mg	3691-35-8
Rubenal*		PS-1014	250mg	13684-63-4
Rubenal*		PS-1014	250mg	13684-63-4
Rubenal*		PS-1014	250mg	13684-63-4
Rubenal*		PS-1014	250mg	13684-63-4
Rubetram*		PS-1045	250mg	26225-79-6
Rubidium - 1% HCl		X10M 45-2-100	100ml	
Rubidium - 1% HCl		X10M 45-2-250	250ml	
Rubidium - 1% HCl		X10M 45-2-500	500ml	
Rubidium - 1% HNO3		X10M 45-1-100	100ml	
Rubidium - 1% HNO3		X10M 45-1-250	250ml	
Rubidium - 1% HNO3		X10M 45-1-500	500ml	
Rubidium - RbCl, 99.95%, 1% HCl		X100045-2-A	100ml	
Rubidium - RbCl, 99.95%, 1% HCl		X100045-2-B	250ml	
Rubidium - RbCl, 99.95%, 1% HCl		X100045-2-C	500ml	
Rubidium - RbNO3,99.95%,2% HNO3		X100045-1-A	100ml	
Rubidium - RbNO3,99.95%,2% HNO3		X100045-1-B	250ml	
Rubidium - RbNO3,99.95%,2% HNO3		X100045-1-C	500ml	
Rubidium Carbonate (Rb2CO3) 99.9%		XRB-CO-S-A	5g	
Rubidium Carbonate (Rb2CO3) 99.9%		XRB-CO-S-B	25g	
Rubidium Cloride (RbCl) 99.95%		XRB-CL-S-A	5g	
Rubidium Cloride (RbCl) 99.95%		XRB-CL-S-B	25g	
Rubidium hydroxide		I-5200	1g	1310-82-3
Rubidium Nitrate (RbNO3) 99.98%		XRB-NO-S-A	5g	
Rubidium Nitrate (RbNO3) 99.98%		XRB-NO-S-B	25g	
Rubigan*		PS-1073	100mg	60168-88-9
Rubitox		PS-682	100mg	2310-17-0
Rubrene (S.G.)		F1053	10mg	517-51-1
Rubrene Solution (S.G.)	100ug/ml in Toluene	F1053JS	1ml	
Rubrene (S.G.)	100ug/ml in Toluene	F1053S	5ml	
Ruelene		PS-607	50mg	299-86-5
Ruelene (TM) Solution	100ug/ml in Acetonitrile	PS-607AJS	1mL	
Ruelene (TM) Solution	100ug/ml in Toluene	PS-607JS	1mL	
Rugby*		PS-2199	100mg	95465-99-9
Ruthenium - (NH4)2RuCl6,10% HCl		X100046-2-A	100ml	
Ruthenium - (NH4)2RuCl6,10% HCl		X100046-2-B	250ml	
Ruthenium - (NH4)2RuCl6,10% HCl		X100046-2-C	500ml	
Ruthenium chloride		RE-190	100mg	10049-08-8
** Saccharin see O-795 Benzoic sulfamide				
Sacemid*		PS-2040	100mg	34256-82-1
SADH*		PS-391	250mg	1596-84-5
Saflufenacil		PS-2371	100mg	372137-35-4
Safranine O/C.I.#50240		BS-84	1g	477-73-6
Safrole (S.G.)		F939	5g	94-59-7
Safrole Solution (S.G.)	100ug/ml in Methanol	F939JS	1ml	
Safrole (S.G.)	100ug/ml in Methanol	F939S	5ml	
Safrotin (TM) Solution	100ug/ml in Acetonitrile	PS-1076AJS	1mL	
Safrotin (TM) Solution	100ug/mL in Toluene	PS-1076JS	1ml	
Saga*		PS-2115	100mg	66841-25-6
Salclydeneacetamide		8809K	10mg	R
Salicin		CARB-50	1g	138-52-3
Salicylaldehyde (S.G.)		O-247	2g	90-02-8
Salicylaldoxime		7334F	10g	94-67-7
Salicylamide (S.G.)		O-269	5g	65-45-2
Salicylanilide		8800K	1g	87-17-2
Salicylhydrazide		8803K	1g	936-02-7
Salicylhydroxamic acid		8806K	100mg	89-73-6
Salicylic acid (S.G.)		F2266	5g	69-72-7
Salicylic acid Solution (S.G.)	2000ug/ml in Isopropanol	F2266JS	1ml	
Salicylic acid (S.G.)	2000ug/ml in Isopropanol	F2266S	5ml	
Salicylic acid (S.G.)		O-107	5g	69-72-7
Samarium - 10% HCl		X10M 47-2-100	100ml	
Samarium - 10% HCl		X10M 47-2-250	250ml	
Samarium - 10% HCl		X10M 47-2-500	500ml	
Samarium - 4% HNO3		X10M 47-1-100	100ml	

Category Name	Specification	Catalog#	Size	CAS#
Samarium - 4% HNO3		X10M 47-1-250	250ml	
Samarium - 4% HNO3		X10M 47-1-500	500ml	
Samarium - Sm203, 99.99%, 2% HCl		X100047-2-A	100ml	
Samarium - Sm203, 99.99%, 2% HCl		X100047-2-B	250ml	
Samarium - Sm203, 99.99%, 2% HCl		X100047-2-C	500ml	
Samarium - Sm203, 99.99%, 2% HNO3		X100047-1-A	100ml	
Samarium - Sm203, 99.99%, 2% HNO3		X100047-1-B	250ml	
Samarium - Sm203, 99.99%, 2% HNO3		X100047-1-C	500ml	
Samarium Oxide (Sm203) 99.99%		XSM-O-A	5g	
Samarium Oxide (Sm203) 99.99%		XSM-O-B	25g	
Sancap*		PS-411	100mg	4147-51-7
Sand - Certified Reference Solid (Elevated Conc. Priority Pollutants)		XCRM-SA-B	50g	
Sand - Certified Reference Solid (Pristine)		XCRM-SA-A	50g	
Sandofan*		PS-2137	100mg	77732-09-3
Saniprid*		PS-2219	100mg	135410-20-7
Sanmarton Solution (S.G.)	1000ug/ml in Acetonitrile	F2459JS	1ml	
Sanmarton (S.G.)	1000ug/ml in Acetonitrile	F2459S	5ml	
Sanmarton Solution	100ug/ml in Toluene	PS-1032JS	1mL	
Sanmite*		PS-2125	1g	96489-71-3
Santophen 20*		PS-7	1g	87-86-5
Santoquin*		PS-432	250mg	91-53-2
Sapecron*		PS-1087	250mg	470-90-6
Saphire*		PS-2172	100mg	131341-86-1
Saponin		7537	1g	8047-15-2
Saprol*		PS-2014	100mg	26644-46-2
Sarcosine		7339F	10g	107-97-1
Sarcosine anhydride		8812K	10mg	5076-82-4
Sarcosine methyl ester hydrochloride		2512L	500mg	
Sarolex*		PS-90	250mg	333-41-5
Saturn*		PS-1017	250mg	28249-77-6
Saturno*		PS-1017	250mg	28249-77-6
Savey miticide*		PS-1079	100mg	78587-05-0
SBP 1382		PS-1000	250mg	10453-86-8
Scandium - 10% HCl		X10M 48-2-100	100ml	
Scandium - 10% HCl		X10M 48-2-250	250ml	
Scandium - 10% HCl		X10M 48-2-500	500ml	
Scandium - 4% HNO3		X10M 48-1-100	100ml	
Scandium - 4% HNO3		X10M 48-1-250	250ml	
Scandium - 4% HNO3		X10M 48-1-500	500ml	
Scandium - Sc203, 99.99%, 2% HCl		X100048-2-A	100ml	
Scandium - Sc203, 99.99%, 2% HCl		X100048-2-B	250ml	
Scandium - Sc203, 99.99%, 2% HCl		X100048-2-C	500ml	
Scandium - Sc203,99.99%,2% HNO3		X100048-1-A	100ml	
Scandium - Sc203,99.99%,2% HNO3		X100048-1-B	250ml	
Scandium - Sc203,99.99%,2% HNO3		X100048-1-C	500ml	
Scandium nitrate		I-5205	100mg	13465-60-6
Scandium Oxide (Sc203) 99.99%		XSC-O-A	2g	
Scandium Oxide (Sc203) 99.99%		XSC-O-B	10g	
Scepter*		PS-2053	100mg	81335-37-7
Schering 36268		PS-840	250mg	6164-98-3
Scoop*		PS-2173	100mg	97886-45-8
Scorpion*		PS-2111	500mg	98967-40-9
Scout*		PS-2115	100mg	66841-25-6
Scutl*		PS-14	1g	62-38-4
Sebacic acid (S.G.)		O-70	5g	111-20-6
Sebacic dihydrazide		7538	5g	925-83-7
Sec & Tert Amines		Oam-32	KIT	
Secondary Drinking Water Metals (in 2% HNO3)		XDWSS-A	100ml	
Secondary Drinking Water Metals (in 2% HNO3)		XDWSS-B	250ml	
Secondary Drinking Water Metals (in 2% HNO3)		XDWSS-C	500ml	
Secondary Stock Standard Mixture #1 - 1666 VARIED in Methanol:Water (90:10)		SSS1666-1JM	1ml	
Secondary Stock Standard Mixture #1 - 1666 VARIED in Methanol:Water (90:10)		SSS1666-1M	5ml	
Secondary Stock Standard Mixture #2- 1666 Varied in Methanol		SSS1666-2JM	1ml	
Secondary Stock Standard Mixture #2- 1666 Varied n Methanol		SSS1666-2M	5ml	
Sedoheptulosan		CARB-18	100mg	469-90-9
Selecron*		PS-1024	250mg	41198-08-7
Select*		PS-2045	100mg	99129-21-2

Category Name	Specification	Catalog#	Size	CAS#
Selenium metal		I-5220	10g	7782-49-2
Selenium - 10% HCl		X10M 49-2-100	100ml	
Selenium - 10% HCl		X10M 49-2-250	250ml	
Selenium - 10% HCl		X10M 49-2-500	500ml	
Selenium - 10% HNO3		X10M 49-1-100	100ml	
Selenium - 10% HNO3		X10M 49-1-250	250ml	
Selenium - 10% HNO3		X10M 49-1-500	500ml	
Selenium Metallo-Organic Standard	50ug/g in Mineral Oil	XSEOMS	100g	
Selenium - Se metal, 99.999%, 2% HNO3		X100049-1-A	100ml	
Selenium - Se metal, 99.999%, 2% HNO3		X100049-1-B	250ml	
Selenium - Se metal, 99.999%, 2% HNO3		X100049-1-C	500ml	
Selenium - Se metal,99.99%,2% HCl		X100049-2-A	100ml	
Selenium - Se metal,99.99%,2% HCl		X100049-2-B	250ml	
Selenium - Se metal,99.99%,2% HCl		X100049-2-C	500ml	
Selenium dioxide		I-5210	1g	7446-08-4
Selenium Oxide (SeO2) 99.999%		XSE-O-A	2g	
Selenium Oxide (SeO2) 99.999%		XSE-O-B	5g	
Selenium Powder (Se) 99.999%		XSE-MP-A	5g	
Selenium Powder (Se) 99.999%		XSE-MP-B	25g	
Selenium Shot Se 99.999%		XSE-MS-A	5g	
Selenium Shot Se 99.999%		XSE-MS-B	25g	
Selenous acid		RE-200	1g	7783-00-8
Semevin*		PS-2012	250mg	59669-26-0
Semicarbazide hydrochloride (S.G.)		O-392	2g	563-41-7
Semi-Volatile Base Neutrals Extractable Mixture #1 - Skinner List	200ug/ml in Methylene chloride	SKBN-1JM	1ml	
Semi-Volatile Base Neutrals Extractable Mixture #1 - Skinner List	200ug/ml in Methylene chloride	SKBN-1M	5ml	
Semi-Volatile Base Neutrals Extractable Mixture #2 - Skinner List	2000ug/ml in Methylene chloride	SKBN-2JM	1ml	
Semi-Volatile Base Neutrals Extractable Mixture #2 - Skinner List	2000ug/ml in Methylene chloride	SKBN-2M	5ml	
Semi-Volatile Organic Compounds 8250-Neat		SVOC-1N	KIT	
Semi-Volatile Organic Compounds 8250-Solutions		SVOC-1S	KIT	
Semi-Volatile Organic Compounds 8270-Neat		SVC-8270N	KIT	
Semi-Volatile Organic Compounds 8270-Solutions		SVC-8270S	KIT	
Semi-Volatiles Mixture #1 - 8250A	1000ug/ml in Toluene	SV8250-1JM	1ml	
Semi-Volatiles Mixture #1 - 8270B	1000ug/ml in Methylene chloride	SV8270-1JM	1ml	
Semi-Volatiles Mixture #1 - 8270B	1000ug/ml in Methylene chloride	SV8270-1M	5ml	
Semi-Volatiles Mixture #2 - 8250A	1000ug/ml in Methylene chloride	SV8250-2JM	1ml	
Semi-Volatiles Mixture #2 - 8270B	1000ug/ml in Methanol	SV8270-2JM	1ml	
Semi-Volatiles Mixture #3 - 8250A	1000ug/ml in Toluene	SV8250-3JM	1ml	
Semi-Volatiles Mixture #3 - 8270B	1000ug/ml in Methylene chloride	SV8270-3JM	1ml	
Semi-Volatiles Mixture #3 - 8270B	1000ug/ml in Methylene chloride	SV8270-3M	5ml	
Semi-Volatiles Mixture #4 - 8250A	1000ug/ml in Methylene chloride	SV8250-4JM	1ml	
Semi-Volatiles Mixture #5 - 8250A	1000ug/ml in Methanol	SV8250-5JM	1ml	
Semi-Volatiles Mixture #6 - 8250A	1000ug/ml in Methylene chloride	SV8250-6JM	1ml	
Semi-Volatiles Mixture #7 - 8250A	1000ug/ml in Methylene chloride	SV8250-7JM	1ml	
Semi-Volatiles Mixture #7 - 8250A	1000ug/ml in Methylene chloride	SV8250-7M	5ml	
Semi-Volatiles Mixtures Kit - CLP Semi		MMCLPSEM-3	KIT	
Semi-Volatiles Mixtures Kits #2 - 8270B		MM8270-4	KIT	
Semi-Volatiles Supplement Mixture - 8270B	1000ug/ml in Methylene chloride	SV8270-1XJM	1ml	
Semi-Volatiles Supplement Mixture - 8270B	1000ug/ml in Methylene chloride	SV8270-1XM	5ml	
Semi-Volatiles Supplement Mixture - CLP Semi	1000ug/ml in Methylene chloride	CLPSEM-1XJM	1ml	
Semi-Volatiles Supplement Mixture - CLP Semi	1000ug/ml in Methylene chloride	CLPSEM-1XM	5ml	
Semi-Volatile Target Compound Neat Kit - CLP		CLPSEM-1N	KIT	
Semi-Volatile Target Compounds Solutions Kit - CLP		CLPSEM-1S	KIT	
Sempra*		PS-2108	100mg	100784-20-1
Sencor*		PS-398	250mg	21087-64-9
Sendran*		PS-551	1g	114-26-1
Sentinel*		PS-2130	50mg	94361-06-5
Sequel*		PS-2216	100mg	134098-61-6
L-Serine		7510H	1g	56-45-1
DL-Serine (TECH)		AA-20	1g	302-84-1
DL-Serine methyl ester hydrochloride		2527L	200mg	5619-04-5
N-Serve*		PS-419	100mg	1929-82-4

Category Name	Specification	Catalog#	Size	CAS#
SES		PS-313	1g	149-26-8
Sesame oil		7530H	1g	8008-74-0
Sesamol		7550	5g	533-31-3
Sethoxydim		PS-2013	100mg	74051-80-2
Sethoxydim Solution	100ug/ml in Acetonitrile	PS-2013AJS	1mL	
Sethoxydim Solution	100ug/ml in Toluene	PS-2013JS	1mL	
Sevin*		PS-84	250mg	63-25-2
Sha chong shuang		PS-2184	250mg	52207-48-4
Shark*		PS-2170	100mg	128639-02-1
Sherman*		PS-2209	250mg	24934-91-6
Sherpa*		PS-2203	250mg	65731-84-2
SHIPPING CHARGES		SC	0	
Shucker-Stuff		PS-65	250mg	123-33-1
Sibutol*		PS-1093	100mg	55179-31-2
Siduron		PS-373	1g	1982-49-6
Siduron Solution	100ug/ml in Toluene	PS-373JS	1mL	
Siduron (S.G.)		F2377	1g	1982-49-6
Siduron Solution (S.G.)	1000ug/ml in Acetonitrile	F2377JS	1ml	
Siduron (S.G.)	1000ug/ml in Acetonitrile	F2377S	5ml	
Sigma		PS-230	250mg	23564-05-8
Silica gel (60-200 mesh)		M-8A1-5	10g	1343-98-2
Silicic acid		I-5230	10g	7699-41-4
Silicon - (NH4)2SiF6, 99.999%, H2O		X100050-4F-A	100ml	
Silicon - (NH4)2SiF6, 99.999%, H2O		X100050-4F-B	250ml	
Silicon - (NH4)2SiF6, 99.999%, H2O		X100050-4F-C	500ml	
Silicon - H2O		X10M 50-4-100	100ml	
Silicon - H2O		X10M 50-4-250	250ml	
Silicon - H2O		X10M 50-4-500	500ml	
Silicon - Na2SiO3,99.9%, H2O		X100050-4-A	100ml	
Silicon - Na2SiO3,99.9%, H2O		X100050-4-B	250ml	
Silicon - Na2SiO3,99.9%, H2O		X100050-4-C	500ml	
Silicon chloride		I-5240	10g	10026-04-7
Silicon Dioxide (SiO2) 99.995%		XSI-O-A	5g	
Silicon Dioxide (SiO2) 99.995%		XSI-O-B	25g	
Silicone defoamer - oil (TECH)		S-643	10g	68554-65-4
Silicone defoamer - water dispersible (TECH)		S-644	10g	68440-66-4
Silicon Metallic - Organic Standard 1000ug/g in Mineral Oil		XSIOMS	100g	
Silicotungstic acid		I-116	10g	12027-38-2
Silver - 4% HNO3		X10M 51-1-100	100ml	
Silver - 4% HNO3		X10M 51-1-250	250ml	
Silver - 4% HNO3		X10M 51-1-500	500ml	
Silver - Ag metal, 99.999%, 2% HNO3		X100051-1-A	100ml	
Silver - Ag metal, 99.999%, 2% HNO3		X100051-1-B	250ml	
Silver - Ag metal, 99.999%, 2% HNO3		X100051-1-C	500ml	
Silver acetate		I-5260	1g	563-63-3
Silverado*		PS-2223	100mg	71283-80-2
Silver carbonate		I-5270	1g	534-16-7
Silver chloride		I-5280	5g	7783-90-6
Silver chromate		I-5290	5g	7784-01-2
Silver cyanate		I-5300	10g	3315-16-0
Silver cyanide		I-5310	1g	506-64-9
Silver laurate		I-5325	1g	18268-45-6
Silver Metallic - Organic Standard	1000ug/g in Mineral Oil	XAGOMS	100g	
Silver nitrate		I-117	5g	7761-88-8
Silver Nitrate (AgNO3) 99.999%		XAG-NO-S-A	5g	
Silver Nitrate (AgNO3) 99.999%		XAG-NO-S-B	10g	
Silver Oxide (AgO) 99.5%		XAG-O-A	2g	
Silver Oxide (AgO) 99.5%		XAG-O-B	10g	
Silver Powder (Ag) 99.9995%		XAG-MP-A	2g	
Silver Powder (Ag) 99.9995%		XAG-MP-B	10g	
Silver Shot (Ag) 99.999%		XAG-MS-A	2g	
Silver Shot (Ag) 99.999%		XAG-MS-B	10g	
Silver sulfate		I-5350	1g	10294-26-5
Silver thiocyanate		I-5360	1g	1701-93-5
Silver vanadate		I-5365	500mg	13497-94-4
Silvex (S.G.)		F970	250mg	93-72-1
Silvex Solution (S.G.)	100ug/ml in Acetone	F970JS	1ml	
Silvex (S.G.)	100ug/ml in Acetone	F970S	5ml	

Category Name	Specification	Catalog#	Size	CAS#
Silvex		PS-47	250mg	93-72-1
Silvex Solution	100ug/ml in Acetonitrile	PS-47AJS	1mL	
Silvex 2-ethylhexyl ester		PS-329	1g	R
Silvex isooctyl ester		PS-329	1g	R
Silvex isooctyl ester Solution	100ug/ml in Acetonitrile	PS-329AJS	1mL	
Silvex isooctyl ester Solution	100ug/ml in MTBE	PS-329JS	1mL	
Silvex methyl ester		PS-342	250mg	4841-20-7
Silvex methyl ester (S.G.)		F971	250mg	4841-20-7
Silvex methyl ester Solution (S.G.)	100ug/ml in Methanol	F971JS	1ml	
Silvex methyl ester (S.G.)	100ug/ml in Methanol	F971S	5ml	
Silvisar*		PS-51	500mg	75-60-5
Simazine		PS-58	500mg	122-34-9
Simazine (S.G.)		F2073	500mg	122-34-9
Simazine Solution (S.G.)	1000ug/ml in Acetone	F2073AJS	1ml	
Simazine (S.G.)	1000ug/ml in Acetone	F2073AS	5ml	
Simazine Solution (S.G.)	100ug/ml in Methanol	F2073JS	1ml	
Simazine (S.G.)	100ug/ml in Methanol	F2073S	5ml	
Simazine (ring-13C3) Solution (S.G.)	100ug/ml in Methanol	FC2073S	1.2ml	
Simazine hydroxy		MET-58B	25mg	2599-11-3
Simetryn		PS-381	50mg	1014-70-6
Simetryn Solution	100ug/ml in Acetonitrile	PS-381AJS	1mL	
Simetryn (S.G.)		F2234	50mg	1014-70-6
Simetryn Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2234JS	1ml	
Simetryn (S.G.)	100ug/ml in t-Butylmethyl ether	F2234S	5ml	
Simulated Rainwater		XSR LEVEL I	250ml	
Simulated Rainwater		XSR LEVEL II	250ml	
Sinbar*		PS-375	1g	5902-51-2
Sinox*		PS-57	1g	534-52-1
Sinox*		PS-57	1g	534-52-1
Sirius*		PS-2105	100mg	93697-74-6
Slo-Gro		PS-65	250mg	123-33-1
SMDC		PS-221	250mg	6734-80-1
(S)-Methoprene		PS-1040-1	POR	65733-16-6
S-Methyl thioacetate (S.G.)		F2939	250mg	1534-08-3
S-Metolachlor		PS-403-1	100mg	87392-12-9
S-Metolachlor Solution	100ug/ml in Acetonitrile	PS-403-1AJS	1mL	
S-Metolachlor Solution	100ug/ml in t-Butylmethyl ether	PS-403-1JS	1mL	
Snip*		PS-1202	5ml	35575-96-3
SNP*		PS-95	500mg	56-38-2
Sodar*		PS-281	500mg	144-21-8
Sodium - 1% HCl		X10M 52-2-100	100ml	
Sodium - 1% HCl		X10M 52-2-250	250ml	
Sodium - 1% HCl		X10M 52-2-500	500ml	
Sodium - 1% HNO3		X10M 52-1-100	100ml	
Sodium - 1% HNO3		X10M 52-1-250	250ml	
Sodium - 1% HNO3		X10M 52-1-500	500ml	
Sodium ascorbate (S.G.)		V-4	5g	134-03-2
1% Sodium in 1% HCl		XIB-NA-A1-B	250ml	
1% Sodium in 1% HCl		XIB-NA-A1-C	500ml	
5% Sodium in 1% HCl		XIB-NA-A5-B	250ml	
5% Sodium in 1% HCl		XIB-NA-A5-C	500ml	
1% Sodium in 1% HNO3		XIB-NA-B1-B	250ml	
1% Sodium in 1% HNO3		XIB-NA-B1-C	500ml	
5% Sodium in 1% HNO3		XIB-NA-B5-B	250ml	
5% Sodium in 1% HNO3		XIB-NA-B5-C	500ml	
100ug/ml Sodium in water for Ion Chromatography		XIC-NA-A	100ml	
100ug/ml Sodium in water for Ion Chromatography		XIC-NA-B	250ml	
100ug/ml Sodium in water for Ion Chromatography		XIC-NA-C	500ml	
Sodium - NaCl, 99.98%, 1% HCl		X100052-2-A	100ml	
Sodium - NaCl, 99.98%, 1% HCl		X100052-2-B	250ml	
Sodium - NaCl, 99.98%, 1% HCl		X100052-2-C	500ml	
Sodium - NaNO3, 99.99%, 1% HNO3		X100052-1-A	100ml	
Sodium - NaNO3, 99.99%, 1% HNO3		X100052-1-B	250ml	
Sodium - NaNO3, 99.99%, 1% HNO3		X100052-1-C	500ml	
Sodium @ 1000ug/ml in Water		XIC-NA-M-A	100ml	
Sodium @ 1000ug/ml in Water		XIC-NA-M-B	250ml	
Sodium @ 1000ug/ml in Water		XIC-NA-M-C	500ml	
Sodium abietate (TECH)		S-40	10g	R

Category Name	Specification	Catalog#	Size	CAS#
Sodium acetate trihydrate		I-118	10g	6131-90-4
Sodium alginate		I-5375	10g	9005-38-3
Sodium alkylarylpolyether sulfonate (Triton X-200) (TECH)		S-469	10g	R
Sodium alkylarylpolyether sulfonate (Triton X-202) (TECH)		S-470	10g	2917-94-4
Sodium alkylbenzene C10-C16 sulfonate (linear) (TECH)		S-677	10g	R
Sodium aluminate		I-5380	10g	1302-42-7
Sodium amide		I-5390	10g	7782-92-5
Sodium ammonium phosphate		I-119	10g	51750-73-3
Sodium antimonate		I-5400	5g	R
Sodium arsenate		PS-428	1g	7778-43-0
Sodium arsenate Solution	100ug/ml in H2O	PS-428AJS	1mL	
Sodium arsenate Solution	100ug/ml in Toluene	PS-428JS	1mL	
Sodium arsenate-dibasic		I-120	10g	10048-95-0
Sodium arsenite		I-121	10g	7784-46-5
Sodium azide		I-5420	1g	26628-22-8
Sodium benzenesulfinate		I-5425	5g	25932-11-0
Sodium benzyl naphthalene sulfonate (TECH)		S-442	10g	R
Sodium bicarbonate		I-122	10g	144-55-8
Sodium bismuthate		I-123	10g	12232-99-4
Sodium bisulfate		I-124	10g	10034-88-5
Sodium bisulfite		I-125	10g	7631-90-5
Sodium borate		I-126	10g	1303-96-4
Sodium bromate		I-5470	10g	7789-38-0
Sodium bromide		I-127	10g	7647-15-6
Sodium calcium hydrate-12 mesh		I-5480	10g	8006-28-8
Sodium capryl lactylate (TECH)		S-300-1	10g	R
Sodium carbonate		I-128	10g	5968-11-6
Sodium carbonate (TECH)		S-646	10g	497-19-8
Sodium Carbonate (Na2CO3) 99.999%		XNA-CO-S-A	5g	
Sodium Carbonate (Na2CO3) 99.999%		XNA-CO-S-B	25g	
Sodium carbonate-anhydrous		I-5490	10g	497-19-8
Sodium carbonate peroxide		I-5500	10g	15630-89-4
Sodium carboxymethyl cellulose		7595C	10g	9004-32-4
Sodium carboxymethylcocohydroxy-ethyl imidazolinium hydroxide (TECH)		S-557	10g	R
Sodium carboxymethylsodiumcarboxy-ethyl coco ether imidazolinium (TECH)		S-560	10g	6865-39-5
Sodium carboxymethylstearylhydroxy-ethyl imidazolinium hydroxide (TECH)		S-559	10g	68608-63-9
Sodium carboxymethylundecylhydroxy-ethyl imidazolinium hydroxide (TECH)		S-556	10g	R
Sodium cetyl/stearyl sulfate (TECH)		S-381	10g	68955-20-4
Sodium chlorate		I-129	10g	7775-09-9
Sodium chloride		I-130	10g	7647-14-5
Sodium Chloride (NaCl) 99.99+%		XNA-CL-S-A	5g	
Sodium Chloride (NaCl) 99.99+%		XNA-CL-S-B	25g	
Sodium chlorite		I-5505	10g	7758-19-2
Sodium 2-Chloro-6-(4,6-dimethoxypyrimidin-2-ylthio)benzoate		PS-2145	500mg	123343-16-8
Sodium choleate		7622F	1g	302-95-4
Sodium chromate		I-131	10g	10034-82-9
Sodium citrate		I-5510	10g	6132-04-3
Sodium citrate (TECH)		S-642	10g	68-04-2
Sodium cobaltinitrite		I-5520	10g	13600-98-1
Sodium-N-coco-b-amino propionate (TECH)		S-561	10g	R
Sodium-N-coconut acid N-methyl taurate (TECH)		S-579	10g	61791-42-2
Sodium cyanide		I-132	1g	143-33-9
Sodium cyanoborohydride		I-7023	200mg	25895-60-7
Sodium decyl diphenyl ether disulfonate (TECH)		S-454	10g	36445-71-3
Sodium decyl sulfate (TECH)		S-377	10g	142-87-0
Sodium desoxycholate		2548L	200mg	R
Sodium desoxyribonucleate		7627F	10mg	R
Sodium diamyl sulfosuccinate (TECH)		S-465	10g	R
Sodium dibutyldithio carbamate - 47% aq. sol.		7630	5g	136-30-1
Sodium dibutyl naphthalene sulfonate (TECH)		S-441	10g	25417-20-3
Sodium 2.4-dichlorophenoxyethyl sulfate		PS-313	1g	149-26-8
Sodium dichromate		I-133	10g	7789-12-0
Sodium dicyanamide		8815K	1g	1934-75-4
Sodium-p-diethanolimine benzene sulfonate		7631E	1g	R
Sodium diethylbarbiturate		7632	1g	144-02-5
** Sodium diethyldithiocarbamate see 0-390 Diethyldithiocarbamic acid sodium salt trihyrate				
Sodium di(2-ethylhexyl)phosphate (TECH)		S-482	10g	R
Sodium dihexyl sulfosuccinate (TECH)		S-466	10g	R
Sodium dihydroxyethyl glycinate (TECH)		S-640	10g	R
Sodium dihydroxytartrate osazone		7632F	1g	R
Sodium diisobutyl sulfosuccinate (TECH)		S-464	10g	R

Category Name	Specification	Catalog#	Size	CAS#
** Sodium dimethylarsonate see 7601C Sodium cacodylate				
Sodium dioctyl sulfosuccinate (TECH)		S-467	10g	577-11-7
Sodium diphenylamine sulfonate		7631F	100mg	6152-67-6
Sodium dithionite		I-5530	10g	7775-14-6
Sodium ditridecyl sulfosuccinate (TECH)		S-468	10g	2673-22-5
Sodium dodecylbenzene sulfonate (linear alkyl chain) (TECH)		S-420	5g	25155-30-0
Sodium dodecylbenzene sulfonate (linear alkyl chain) (TECH)		S-420	5g	25155-30-0
Sodium dodecylbenzene sulfonate (branched alkyl chain) (TECH)		S-420A	5g	R
Sodium dodecyl diphenyl ether disulfonate (TECH)		S-455	10g	119345-04-9
Sodium ethoxide		I-5535	10g	141-52-6
Sodium 2-ethylhexyl sulfate (TECH)		S-376	10g	126-92-1
Sodium fluoborate		I-5540	10g	13755-29-8
Sodium fluoride		I-134	10g	7681-49-4
Sodium fluoroacetate		PS-105	1g	62-74-8
Sodium fluoroacetate Solution	100ug/ml in H2O	PS-105AJS	1mL	
Sodium fluosilicate		I-135	10g	16893-85-9
Sodium formaldehyde bisulfite		7635B	10g	870-72-4
Sodium formaldehydesulfoxylate dihydrate		7636B	10g	149-44-0
Sodium formate		I-5542	1g	141-53-7
Sodium sec-heptadecyl sulfate (TECH)		S-382	10g	R
Sodium hexafluoroarsenate		I-5550	1g	12005-86-6
Sodium hexafluorotitanate		I-5560	10g	17116-13-1
Sodium hexafluorozirconate		I-5570	1g	16925-26-1
Sodium hydrocortisone-21-phosphate		7647F	100mg	R
** Sodium hydrosulfite see I-5530 Sodium dithionite				
Sodium hydroxide		I-136	10g	1310-73-2
** Sodium 2-hydroxyethane COFA sulfonate see S-571 Coconut oil acid ester of sodium isethionate				
** Sodium-2-hydroxyethane oleate sulfonate see S-461 Sodium-2-sulfoethyloleate				
Sodium hypochlorite solution		I-5600	10g	7681-52-9
Sodium iodate		I-5610	10g	7681-55-2
Sodium iodide		I-138	10g	7681-82-5
Sodium isostearoyl-2-lactylate (TECH)		S-297-1	10g	66988-04-3
Sodium lactate (60% in water)		7650F	5g	72-17-3
Sodium laurate (TECH)		S-31	10g	629-25-4
Sodium lauryl lactate (TECH)		S-295	10g	R
Sodium-N-lauryl sarcosinate (TECH)		S-587	10g	137-16-6
Sodium lauryl sulfate (TECH)		S-378	5g	151-21-3
Sodium lauryl sulfoacetate (TECH)		S-463	10g	R
Sodium lignosulfonate (TECH)		S-471	10g	8061-51-6
Sodium lignosulfonate (TECH)		S-473	10g	8061-51-6
Sodium lignosulfonate 1 mole (TECH)		S-472	10g	R
Sodium lignosulfonate 2 moles (TECH)		S-474	10g	R
Sodium lignosulfonate 3 moles (TECH)		S-475	10g	R
Sodium linoleate (TECH)		S-37	10g	R
Sodium maleate		I-5615	5g	17013-01-3
Sodium Metallic - Organic Standard	1000ug/g in Mineral Oil	XNAOMS	100g	
Sodium methyl dithiocarbamate		PS-221	250mg	6734-80-1
Sodium-N-methyl-N-oleyl taurate (TECH)		S-578	10g	137-20-2
Sodium-N-methyl-N-palmitoyl taurate (TECH)		S-576	10g	7732-18-5
Sodium-N-methyl-N-tall oil taurate (TECH)		S-580	10g	61791-41-1
Sodium molybdate (VI) dihydrate		I-139	10g	10102-40-6
Sodium myristate (TECH)		S-32	10g	822-12-8
Sodium naphthalene formaldehyde condensate sulfonate (TECH)		S-443	10g	9084-06-4
Sodium naphthenate (TECH)		S-39	10g	R
Sodium nitrate		I-140	10g	7631-99-4
Sodium Nitrate (NaNO3) 99.99%		XNA-NO-S-A	5g	
Sodium Nitrate (NaNO3) 99.99%		XNA-NO-S-B	25g	
Sodium nitrite		I-141	10g	7632-00-0
Sodium nitroferricyanide		I-5670	10g	13755-38-9
Sodium nonylphenol ethoxylated sulfate		S-393-1	10g	9014-90-8
Sodium n-octyl sulfate (TECH)		S-375	10g	142-31-4
Sodium oleate (TECH)		S-36	10g	143-19-1
Sodium oleyl stearate sulfate (TECH)		S-384	10g	R
Sodium oleyl sulfate (TECH)		S-383	10g	R
Sodium oxalate		I-5680	10g	62-76-0
Sodium-8-oxyquinolate		I-5685	1g	2872-54-0
Sodium palmitate (TECH)		S-33	10g	408-35-5
Sodium perborate		I-142	10g	10486-00-7
Sodium perchlorate		I-5686	1g	7791-07-3
Sodium-m-periodate		I-5630	5g	7790-28-5
Sodium permanganate		I-5700	10g	10101-50-5

Category Name	Specification	Catalog#	Size	CAS#
Sodium persulfate		I-5720	10g	7775-27-1
Sodium petroleum sulfonate - (MW 415-440) (TECH)		S-429-1	10g	R
Sodium petroleum sulfonate - (MW 440-450) (TECH)		S-430	10g	R
Sodium petroleum sulfonate - (MW 513) (TECH)		S-431	10g	R
Sodium phenolate		I-5730	1g	139-02-6
Sodium phosphate-dibasic		I-144	10g	10039-32-4
Sodium phosphate-monobasic		I-143	10g	13472-35-0
Sodium-m-phosphate monohydrate		I-5640	10g	10361-03-2
Sodium phosphate-tribasic		I-145	10g	10101-89-0
Sodium phosphate-tribasic (TECH)		S-647	10g	7601-54-9
Sodium phosphite		I-5740	10g	13517-23-2
Sodium-2-phospho-18-molybdate		I-5735	1g	12273-51-7
Sodium phthalate		I-5745	1g	827-27-0
Sodium polymerized alkyl-naphthalene sulfonate (TECH)		S-444	10g	9084-06-4
Sodium polymerized carboxylates (TECH)		S-41	10g	R
Sodium prednisolone-21-phosphate		7709F	100mg	125-02-0
Sodium pyruvate		7632H	1g	113-24-6
Sodium ribonucleate		7710F	100mg	R
Sodium ricinoleate (TECH)		S-38	5g	5323-95-5
Sodium salicylate		I-5780	10g	54-21-7
Sodium salt of tall oil (TECH)		S-42	10g	R
Sodium selenite		I-146	1g	26970-82-1
Sodium-m-silicate		I-5800	10g	13517-24-3
Sodium silicate (TECH)		S-648	10g	6834-92-0
Sodium Silicate (Na2Si03) 99.99%		XSI-NA-S-A	10g	
Sodium Silicate (Na2Si03) 99.99%		XSI-NA-S-B	50g	
Sodium silicate 40 Be. Sol.		I-5795	10g	1344-09-8
Sodium stannate		I-147	10g	12209-98-2
Sodium stearate (TECH)		S-34	5g	822-16-2
Sodium stearoyl lactate (TECH)		S-296	10g	25383-99-7
Sodium stearoyl-2-lactylate (TECH)		S-298	10g	25383-99-7
Sodium succinate		7635H	1g	150-90-3
Sodium sulfate-anhydrous		I-148	10g	7757-82-6
Sodium sulfhydrate		I-5820	10g	16721-80-5
Sodium sulfide		I-149	10g	1313-84-4
Sodium sulfite		I-150	10g	7757-83-7
Sodium tartrate		I-5830	10g	6106-24-7
Sodium tellurite		I-151	1g	10102-20-2
Sodium tetraborate (TECH)		S-645	10g	1303-96-4
Sodium tetradecyl sulfate (TECH)		S-380	5g	1191-50-0
Sodium tetraphenylboron powder		7711F	1g	143-66-8
Sodium tetrapyrophosphate		I-5760	10g	13472-36-1
Sodium thioantimonate		I-5850	1g	10101-91-4
Sodium thiocyanate		I-152	10g	540-72-7
Sodium thiophosphate		I-5860	1g	51674-17-0
Sodium thiosulfate		I-153	10g	10102-17-7
Sodium titanate		I-5880	10g	120-34-3
Sodium titanium silicate		I-5890	1g	12034-35-4
Sodium toluene sulfonate (TECH)		S-417	10g	12068-03-0
Sodium trichlorphenate		7715D	5g	136-32-3
Sodium tridecyl ether sulfate (TECH)		S-385	10g	R
Sodium tridecyl sulfate (TECH)		S-379	10g	R
Sodium tungstate		I-154	10g	53125-86-3
Sodium undecylenate (TECH)		S-35	5g	R
Sodium-m-vanadate		I-5650	5g	13718-26-8
Sodium vanadate		I-5910	10g	20740-98-1
Sodium xylene sulfonate (TECH)		S-418	10g	1300-72-7
Soilbrom-85*		PS-154	1g	106-93-4
Soil Fungicide 1823*		PS-255	250mg	2675-77-6
Soil Solution A (in 5% HNO3)		XCRM-SOIL-A-250	250ml	
Soil Solution A (in 5% HNO3)		XCRM-SOIL-A-100	100ml	
Soil Solution B (in 5% HNO3)		XCRM-SOIL-B-100	100ml	
Soil Solution B (in 5% HNO3)		XCRM-SOIL-B-250	250ml	
Solacol*				
Solfac*		PS-1090	250mg	68359-37-5
Solicam*		PS-1044	100mg	27314-13-2
** Solketal see 1535B Acetone ketal of glycerine				
Soluglaucit		PS-610	100mg	311-45-5
Solvents Kit		So-160A	KIT	
Sonalan*		PS-408	250mg	55283-68-6
Sonar (TM) (S.G.)		F2231	100mg	59756-60-4
Sonar (TM) Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2231JS	1ml	
Sonar (TM) (S.G.)	100ug/ml in t-Butylmethyl ether	F2231S	5ml	
Sonar		PS-1070	100mg	59756-60-4
Sontox*		PS-7	1g	87-86-5
Sontox 6*		PS-8	50mg	58-90-2
Sorbic acid (S.G.)		O-26	2g	110-44-1
Sorbitan monolaurate (TECH)		S-259	10g	1338-39-2
Sorbitan monooleate (TECH)		S-269	10g	1338-43-8
Sorbitan monopalmitate (TECH)		S-262	10g	R
Sorbitan monostearate (TECH)		S-264	10g	1338-41-6
Sorbitan sesquioleate (TECH)		S-272	10g	R
Sorbitan trioleate (TECH)		S-273	10g	R
Sorbitan tristearate (TECH)		S-267	10g	26658-19-5
Sorbitol		CARB-31	5g	50-70-4
Sorbitol (S.G.)		O-206	5g	50-70-4
Sorbitol hexaacetate		7717F	1g	7208-47-1
L-Sorbose		CARB-19	5g	87-79-6
Sovran*		PS-2182	250mg	143390-89-0
Soya amine (TECH)		S-498	10g	61790-18-9
Soya amine acetate (TECH)		S-545	10g	R
N-Soya-1,3-diaminopropane (TECH)		S-506	10g	R
Soya oil fatty acids (TECH)		S-19	10g	8001-22-7
Soya trimethyl ammonium chloride (TECH)		S-613	10g	R
Soybean oil (TECH)		Pz-110	10g	8001-22-7
Spark*	100ug/ml in Toluene	PS-1213	5ml	24017-47-8
Special Combined Matrix Spiking Mixture - CLP Semi	Varied in Methylene chloride	CRCLPS-1M	5ml	
Special Organophosphorous Mixture - 8141	100ug/ml in Cyclohexane	CR8141-1M	5ml	
Special PCB Mixture	100ug/ml in Isooctane	CRPCB-1JM	1ml	
Spectacide*		PS-90	250mg	333-41-5
Spergon*		PS-11	250mg	118-75-2
Spermidine		8830K	10mg	124-20-9
Spike*		PS-407	1g	34014-18-1
Spiking Solution I for ICP	5% HNO3	XICP-SSWS-A	100mL	
Spiking Solution I for ICP	5% HNO3	XICP-SSWS-B	250ml	
Spiking Solution I for ICP	5% HNO3	XICP-SSWS-C	500ml	
Spin-Aid*		PS-1014	250mg	13684-63-4
Spin-Aid*		PS-1014	250mg	13684-63-4
Spin-Aid*		PS-1014	250mg	13684-63-4
Spin-Aid*		PS-1014	250mg	13684-63-4
Spinetoram		PS-2345	100mg	187166-40-1
Spinosad		PS-2211	100mg	168316-95-8
Spinosad Solution	100ug/ml in Acetonitrile	PS-2211AJS	1mL	
Spinosyn A, 131929-60-7:Spinisyn D, 131929-63-0		PS-2211	100mg	168316-95-8
SpinTor Naturalyte*		PS-2211	100mg	168316-95-8
Spirodiclofen		PS-2321	100mg	148477-71-8
Spiromesifen		PS-2322	100mg	283594-90-1
Spiromesifen alcohol		MET-2322A	POR	148476-30-6
Spirophosphate		7725C	10g	R
Spirotetramat		PS-2354	100mg	203313-25-1
Spiroxamine		PS-2293	100mg	118134-30-8
Spiroxamine Solution	100ug/ml in Acetonitrile	PS-2293AJS	1mL	
Spiroxamine Solution	100ug/ml in Toluene	PS-2293JS	1mL	
Splendor*		PS-2135	500mg	87820-88-0
Sporgon*		PS-2175	250mg	67747-09-5
Sportak*		PS-2175	250mg	67747-09-5
Spotrete*		PS-24	1g	137-26-8
Sprint*		PS-2175	250mg	67747-09-5
Spur*		PS-1071	100mg	102851-06-9
Stabilene*		PS-908	1g	9003-13-8
Stakeout*		PS-2173	100mg	97886-45-8
Stam*		PS-356	500mg	709-98-8
Standak*		PS-1055	10mg	1646-88-4
Standard I	5% HNO3	XQCS-1	250ml	
Standard II	5% HNO3	XQCS-2	250ml	
Standard III	2% HNO3	XQCS-3	250ml	
Standards Mixture-8010/504/8011	2000ug/ml in Methanol	CSHC-16	5ml	
Standards Mixture-8010/504/8011	2000ug/ml in Methanol	CSHC-16JM	1ml	
Stanophen No. 1*		PS-170	100mg	120-32-1
Starane 250*		PS-2191	100mg	81406-37-3

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Starch		CARB-37	5g	9005-84-9
Starlex*		PS-2046	50mg	77458-01-6
Starycide*		PS-2176	100mg	64628-44-0
STB		MET-222B	500mg	132827-25-9
Stearamide (TECH)		S-588	10g	R
Stearamidoethyl diethylamine (TECH)		S-554-1	10g	16889-14-8
Stearic acid (S.G.)		F2568	2g	57-11-4
Stearic acid (S.G.)		O-27	2g	57-11-4
Stearic acid (TECH)		S-7	10g	57-11-4
Stearic acid diethanolamide (TECH)		S-596	10g	R
Stearonitrile		7734F	1g	638-65-3
N-Stearoyl-p-aminophenol (TECH)		Ou-27	3g	R
Stearyl alcohol (TECH)		S-303	10g	112-92-5
N-Stearyl-N',N'-diethylethylenediamine acetate (TECH)		S-546	10g	R
Stearyldimethylbenzyl ammonium chloride (TECH)		S-619	10g	89004-38-6
Stearyl methacrylate		7740B	10g	32360-05-7
Stearyl stearate		7735F	1g	2778-96-3
Steladone*		PS-1087	250mg	470-90-6
4-Stilbazole		7737F	200mg	103-31-1
cis-Stilbene		7741F	1g	645-49-8
trans-Stilbene (S.G.)		O-792	1g	103-30-0
trans-Stilbene (d12) (S.G.)		O-D792-B	0.5g	R
4.4'-Stilbenedicarboxylic acid		7742C	1g	R
trans-Stilbene oxide		8850K	100mg	1439-07-2
Stilbene yellow/C.I.#40000		BS-145	1g	1325-37-7
Stirifos		PS-611	250mg	22248-79-9
** Stirofos see F2069 Tetrachlorvinphos				
** Stirophos see F2069 Tetrachlorvinphos				
Stomp*		PS-401	1g	40487-42-1
Stop-Scald		PS-432	250mg	91-53-2
Storm*		PS-2149	10mg	90035-08-8
Straight Chain Alkanes		Oh-30	KIT	
Stratagem*		PS-2149	10mg	90035-08-8
Streptomycin sulfate		PS-2263	250mg	3810-74-0
Streptomycin sulfate Solution	100ug/ml in Acetonitrile	PS-2263AJS	1mL	
Streunex*		PS-71	500mg	58-89-9
Strobane (S.G.)		F2318	100mg	8001-50-1
Strobane Solution (S.G.)	1000ug/ml in Isooctane	F2318JS	1ml	
Strobane (S.G.)	1000ug/ml in Isooctane	F2318S	5ml	
Strobane		PS-2023	100mg	8001-50-1
Strobane Solution	100ug/ml in Acetonitrile	PS-2023AJS	1mL	
Stroby*		PS-2182	250mg	143390-89-0
Strongarm*		PS-2208	250mg	145701-21-9
Strontium - 10% HCl		X10M 53-2-100	100ml	
Strontium - 10% HCl		X10M 53-2-250	250ml	
Strontium - 10% HCl		X10M 53-2-500	500ml	
Strontium - 4% HNO3		X10M 53-1-100	100ml	
Strontium - 4% HNO3		X10M 53-1-250	250ml	
Strontium - 4% HNO3		X10M 53-1-500	500ml	
1% Strontium in 2% HCl		XIB-SR-A-A	250ml	
1% Strontium in 2% HCl		XIB-SR-A-B	500ml	
1% Strontium in 2% HNO3		XIB-SR-B-A	250ml	
1% Strontium in 2% HNO3		XIB-SR-B-B	500ml	
Strontium - SrCO3, 99.99%, 2% HNO3		X100053-1-A	100ml	
Strontium - SrCO3, 99.99%, 2% HNO3		X100053-1-B	250ml	
Strontium - SrCO3, 99.99%, 2% HNO3		X100053-1-C	500ml	
Strontium - SrCO3,99.99%,2% HCl		X100053-2-A	100ml	
Strontium - SrCO3,99.99%,2% HCl		X100053-2-B	250ml	
Strontium - SrCO3,99.99%,2% HCl		X100053-2-C	500ml	
Strontium acetate		I-6060	10g	14692-29-6
Strontium carbonate		I-6065	500mg	1633-05-2
Strontium Carbonate (SrCO3) 99.999%		XSR-CO-S-A	5g	
Strontium Carbonate (SrCO3) 99.999%		XSR-CO-S-B	25g	
Strontium nitrate		I-158	10g	10042-76-9
Strontium Nitrate (Sr(NO3)2) 99.995%		XSR-NO-S-A	2g	
Strontium Nitrate (Sr(NO3)2) 99.995%		XSR-NO-S-B	10g	
Strontium oxide-anhydrous		RE-210	1g	1314-11-0
Strontium stearate (TECH)		S-112	5g	R
Strontium-zinc laurate (TECH)		Ou-73	3g	R

Category Name	Specification	Catalog#	Size	CAS#
Strychnine (S.G.)		F2135	100mg	57-24-9
Strychnine Solution (S.G.)	100ug/ml in Methanol	F2135JS	1ml	
Strychnine (S.G.)	100ug/ml in Methanol	F2135S	5ml	
Styrene (S.G.)		F716	5g	100-42-5
Styrene Solution (S.G.)	100ug/ml in Methanol	F716JS	1ml	
Styrene (S.G.)	100ug/ml in Methanol	F716S	5ml	
Styrene (d8) (S.G.)		FD716-1	1g	19361-62-7
Styrene (d8) (S.G.)		FD716-5	5g	19361-62-7
Styrene (vinyl-1,2,2-d3) (S.G.)		FD716A-5	5g	3814-93-5
Styrene (ring-d5) (S.G.)		FD716B-5	5g	5161-29-5
Styrene (d8)Solution (S.G.)	100ug/ml in n-Nonane	FD716S	1.2ml	
Styrene (S.G.)		O-1018	10g	100-42-5
Styrene maleic anhydride		7744F	1g	9011-13-6
** Styrene oxide see O-591 1.2-Epoxyethylbenzene				
p-Styrene sulfonic acid sodium salt		7747B	1g	2695-37-6
Subdue*		PS-1099	100mg	57837-19-1
Suberic acid		7748C	10g	505-48-6
Substituted oxazoline (Alkaterge E) (TECH)		S-634	10g	68140-98-7
Substituted oxazoline (Alkaterge T) (TECH)		S-635	10g	R
Success Naturalyte*		PS-2211	100mg	168316-95-8
Succinamide (S.G.)		O-257	500mg	110-14-5
Succinic acid (S.G.)		O-71	5g	110-15-6
Succinic acid cadmium salt		PS-280	1g	141-00-4
Succinic acid dibutyl ester		PS-903	1g	141-03-7
Succinic acid 2.2-dimethylhydrazide		PS-391	250mg	1596-84-5
Succinic anhydride (S.G.)		O-130	5g	108-30-5
Succinimide (S.G.)		O-794	2g	123-56-8
N-Succinimidyl-(4-azidophenyldithio)propionate		8863K	10mg	R
Succinonitrile		7751A	10g	110-61-2
Succinylated glycerol monostearate (TECH)		S-243	10g	R
Sucrose		CARB-20	5g	57-50-1
Sucrose (S.G.)		O-939	5g	57-50-1
Sucrose benzoate		7748F	1g	R
Sucrose cocoate		S-284-1	5g	91031-88-8
Sucrose diacetate hexaisobutyrate (TECH)		Pz-990	10g	126-13-6
Sucrose dioleate (TECH)		S-291	10g	R
Sucrose dipalmitate (TECH)		S-287	10g	R
Sucrose distearate (TECH)		S-289	10g	R
Sucrose monolaurate (TECH)		S-284	10g	25339-99-5
Sucrose monomyristate (TECH)		S-285	5g	R
Sucrose monooleate (TECH)		S-290	10g	R
Sucrose monopalmitate (TECH)		S-286	5g	R
Sucrose monostearate (TECH)		S-288	250mg	25168-73-4
Sucrose octaacetate (S.G.)		O-507	5g	126-14-7
Sudan III/C.I.#26100		BS-39	1g	85-86-9
Sudan IV/C.I.#26105		BS-40	1g	85-83-6
Sudan black B/C.I.#26150		BS-41	1g	4197-25-5
Suffix*		PS-2079	100mg	22212-55-1
Sulerex*		PS-2178	250mg	19937-59-8
Sulfabenzamide		PS-2326	250mg	127-71-9
Sulfabenzamide		PS-2326	250mg	127-71-9
Sulfachloropyridazine		PS-2333	250mg	80-32-0
Sulfadimethoxine		PS-2278	250mg	122-11-2
Sulfadimethoxine Solution	100ug/ml in Acetonitrile	PS-2278AJS	1mL	
Sulfadimethoxine Solution	100ug/ml in Toluene	PS-2278JS	1mL	
Sulfallate (S.G.)		F2136	250mg	95-06-7
Sulfallate Solution (S.G.)	100ug/ml in Methanol	F2136JS	1ml	
Sulfallate (S.G.)	100ug/ml in Methanol	F2136S	5ml	
Sulfallate		PS-19	250mg	95-06-7
Sulfamerazine		PS-2327	250mg	127-79-7
Sulfamethazine		PS-2328	250mg	57-68-1
Sulfamethizole		PS-2335	250mg	144-82-1
Sulfamethoxazole		PS-2329	250mg	723-46-6
Sulfamic acid		7760	10g	5329-14-6
Sulfamide		8869K	10mg	7803-58-9
Sulfanilamide (S.G.)		O-968	2g	63-74-1
2-Sulfanilamidoquinoxaline		PS-2056	10mg	59-40-5
** 2-Sulfanilamidoquinoxaline see F2258 Sulfaquinoxaline				
Sulfanilic acid (S.G.)		O-961	5g	121-57-3

Category Name	Specification	Catalog#	Size	CAS#
Sulfanilic acid		PS-2330	250mg	**121-57-3**
Sulfapyridine		PS-2331	250mg	**144-83-2**
Sulfaquanidine		7750F	1g	**57-67-0**
Sulfaquinoxaline (S.G.)		PS-2056	10mg	**59-40-5**
Sulfaquinoxaline (S.G.)		F2258	10mg	**59-40-5**
Sulfaquinoxaline Solution (S.G.)	100ug/ml in Methanol	F2258JS	1ml	
Sulfaquinoxaline (S.G.)	100ug/ml in Methanol	F2258S	5ml	
Sulfasan*		PS-66	250mg	**502-55-6**
100ug/ml Sulfate in water for Ion Chromatography		XIC-SS-A	100ml	
100ug/ml Sulfate in water for Ion Chromatography		XIC-SS-B	250ml	
100ug/ml Sulfate in water for Ion Chromatography		XIC-SS-C	500ml	
Sulfated butyloleate sodium salt (TECH)		S-404	10g	**R**
Sulfated castor oil-fatty acids sodium salt (TECH)		S-401	10g	**R**
Sulfated castor oil sodium salt (2.0% org. SO3) (TECH)		S-407	10g	**R**
Sulfated castor oil sodium salt (3.5% org. SO3) (TECH)		S-408	10g	**R**
Sulfated glycerol monolaurate sodium salt (TECH)		S-405	10g	**R**
Sulfated glycerol trioleate sodium salt (TECH)		S-406	10g	**R**
Sulfated isopropyloleate sodium salt (TECH)		S-403	10g	**R**
Sulfated lauryl ether of tetraethyleneglycol sodium salt (TECH)		S-395	10g	**R**
Sulfated neatsfoot oil sodium salt (TECH)		S-410	10g	**R**
Sulfated nonylphenyl ether of tetraethyleneglycol ammonium salt (TECH)		S-394	10g	**9051-57-4**
Sulfated POE nonylphenol sodium salt (TECH)		S-393	10g	**R**
Sulfated POE nonylphenol sodium salt (TECH)		S-393	10g	**9014-90-8**
Sulfated propyloleate sodium salt (TECH)		S-402	10g	**R**
Sulfated rice bean oil sodium salt (TECH)		S-411	10g	**R**
Sulfated soya bean oil sodium salt (TECH)		S-412	10g	**R**
Sulfated synthetic sperm oil (TECH)		S-413-1	1g	**R**
Sulfated tallow sodium salt (TECH)		S-414	10g	**R**
Sulfate from Na2SO4 @ 1000ug/ml in water		XIC-SS-M-A	100ml	
Sulfate from Na2SO4 @ 1000ug/ml in water		XIC-SS-M-B	250ml	
Sulfate from Na2SO4 @ 1000ug/ml in water		XIC-SS-M-C	500ml	
**** Sulfathalidine see 7099F Phthalysulphathiazole**				
Sulfathiazole		PS-2332	250mg	**72-14-0**
Sulfentrazone		PS-2132	250mg	**122836-35-5**
Sulfentrazone Solution	100ug/ml in Methanol	PS-2132JS	1mL	
2.2'-Sulfinyldiethanol		7753A	5g	**R**
p-Sulfobenzoic acid monopotassium salt		7765B	1g	**5399-63-3**
m-Sulfobenzoic acid monosodium salt		7757H	1g	**17625-03-5**
o-Sulfobenzoic anhydride		7766B	1g	**81-08-3**
2-Sulfoethyl methacrylate		7755F	1g	**10595-80-9**
5-Sulfoisophthalic acid monolithium salt		7768C	10g	**46728-75-0**
5-Sulfoisophthalic acid sodium salt		7768H	10g	**6362-79-4**
**** 3-Sulfolene see 2480 Butadiene sulfone**				
Sulfometuron methyl		PS-1074	100mg	**74222-97-2**
Sulfometuron methyl Solution	100ug/ml in Acetonitrile	PS-1074AJS	1mL	
Sulfometuron methyl Solution	100ug/ml in Toluene	PS-1074JS	1mL	
Sulfonated aliphatic polyester (TECH)		S-458-1	10g	**1639-66-3**
Sulfonated marine oil (TECH)		S-409-1	10g	**R**
Sulfonated naphthalene (TECH)		S-439	10g	**R**
Sulfonated oleic acid sodium salt (TECH)		S-400-1	10g	**R**
Sulfonated polystyrene (TECH)		S-457	10g	**R**
**** p,p-Sulfonyl dianiline see 3455J 4-Aminophenyl sulfone**				
**** p.p'-Sulfonyldiphenol see 5333A p-Hydroxyphenyl sulfone**				
5-Sulfosalicylic acid dihydrate (S.G.)		0-963	5g	**5965-83-3**
Sulfosulfuron		PS-2224	100mg	**141776-32-1**
Sulfosulfuron Solution	100ug/ml in Acetonitrile	PS-2224AJS	1mL	
Sulfosulfuron Solution	100ug/ml in Toluene	PS-2224JS	1mL	
Sulfotep		PS-2024	50mg	**3689-24-5**
Sulfotep Solution	100ug/ml in Acetonitrile	PS-2024AJS	1mL	
**** Sulfotepp see F940 Tetraethyldithio pyrophosphate**				
Sulfox-Ade		PS-976	100mg	**120-62-7**
Sulfox-cide		PS-976	100mg	**120-62-7**
Sulfoxide		PS-976	100mg	**120-62-7**
Sulfoxide (S.G.)		F2132	100mg	**120-62-7**
Sulfoxide Solution (S.G.)	100ug/ml in Methanol	F2132JS	1ml	
Sulfoxide (S.G.)	100ug/ml in Methanol	F2132S	5ml	
Sulfoxone sodium		PS-976	100mg	**120-62-7**
Sulfoxyl*		PS-976	100mg	**120-62-7**
Sulfur - 10,000.0ug/g in Mineral Oil		XOMS-S-10	100g	

Category Name	Specification	Catalog#	Size	CAS#
Sulfur - H20		X10M 54-5-100	100ml	
Sulfur - H20		X10M 54-5-250	250ml	
Sulfur - H20		X10M 54-5-500	500ml	
Sulfur - H2S04, 99.999%, 0.001% H20		X100054-5-A	100ml	
Sulfur - H2S04, 99.999%, 0.001% H20		X100054-5-B	250ml	
Sulfur - H2S04, 99.999%, 0.001% H20		X100054-5-C	500ml	
Sulfur @ 100ug/ml in Water		XIC-SR-A	100ml	
Sulfur @ 100ug/ml in Water		XIC-SR-B	250ml	
Sulfur @ 100ug/ml in Water		XIC-SR-C	500ml	
Sulfur from Na2SO4 @ 1000ug/ml in water		XIC-SR-M-A	100ml	
Sulfur from Na2SO4 @ 1000ug/ml in water		XIC-SR-M-B	250mL	
Sulfur from Na2SO4 @ 1000ug/ml in water		XIC-SR-M-C	500ml	
Sulfur monochloride		I-7031	2g	**10025-67-9**
Sulfur Powder (S) 99.999%		XS-MP-A	5g	
Sulfur Powder (S) 99.999%		XS-MP-B	25g	
Sulfur-sublimed		I-159	10g	**7704-34-9**
Sulprofos		PS-1018	100mg	**35400-43-2**
Sulprofos Solution	100ug/ml in Acetonitrile	PS-1018AJS	1mL	
Sulprofos (S.G.)		F2056	100mg	**35400-43-2**
Sulprofos Solution (S.G.)	100ug/ml in Hexane	F2056JS	1ml	
Sulprofos (S.G.)	100ug/ml in Hexane	F2056S	5ml	
Sulprofos sulfone 100ug/ml in Toluene		MET-1018A	5ml	**R**
Sulprofos-sulfoxide		MET-1018C	100mg	**34643-47-5**
Sumagic*		PS-2076	10mg	**83657-17-4**
Sumicidin*		PS-1032	250mg	**51630-58-1**
Sumifly		PS-1032	250mg	**51630-58-1**
Sumilex*		PS-2126	250mg	**32809-16-8**
Sumipower		PS-1032	250mg	**51630-58-1**
Sumisclex*		PS-2126	250mg	**32809-16-8**
Sumithion*		PS-678	250mg	**122-14-5**
Sumithrin*		PS-1030	50mg	**26002-80-2**
Sumiverde*		PS-2119	500mg	**87546-18-7**
Suncide*		PS-551	1g	**114-26-1**
Sundance*		PS-2224	100mg	**141776-32-1**
Suntap*		PS-2069	250mg	**22042-59-7**
Sunvex*		PS-2069	250mg	**22042-59-7**
Super-Caid		PS-1038	100mg	**28772-56-7**
Supercypermethrin*		PS-2203	250mg	**65731-84-2**
Super-Rozol		PS-1038	100mg	**28772-56-7**
Super-Rozol Solution	100ug/ml in Acetonitrile	PS-1038AJS	1mL	
Super-Rozol Solution	100ug/mL in Toluene	PS-1038JS	1mL	
Super X		PS-264	250mg	**2593-15-9**
Supona*		PS-1087	250mg	**470-90-6**
Supplemental Pesticides Kit - 507		PM507-6N	KIT	
Supplemental Plasticizer		PZ-100	KIT	
Supracide*		PS-679	250mg	**950-37-8**
Surcopur*		PS-356	500mg	**709-98-8**
Surfactant Kit		SU-550	KIT	
Surfactant Kit with MSDS Disk		SU-550D	KIT	
Surflan*		PS-410	1g	**19044-88-3**
Surpass*		PS-2040	100mg	**34256-82-1**
Surrogate Mixture A-8080	2000ug/ml in Acetone	SM-8080AM	5ml	
Surrogate Mixture-8040	2000ug/ml in Methanol	SM-8040M	5ml	
Surrogate Mixture-8080	2000ug/ml in Toluene	SM-8080M	5ml	
Surrogate Mixture-8260	2000ug/ml in Methanol	SM-8260M	5ml	
Surrogate Spiking Mixture - 1657	2000ug/ml in Acetone	SS-1657M	5ml	
Surrogate Standard Mixture - 502/524	2000ug/ml in Methanol	SS-524M	5ml	
Surrogate Standards Mixture - 525.2	500ug/ml in Acetone	SS525-1M	5ml	
Sutan		PS-503	1g	**2008-41-5**
Suzu*		PS-1021	250mg	**900-95-8**
Suzu H*		PS-1031	250mg	**76-87-9**
SWEP Solution	100ug/ml in Toluene	PS-1098JS	1mL	
Swebate*		PS-665	100mg	**3383-96-8**
SWEP (S.G.)		F2378	250mg	**1918-18-9**
SWEP Solution (S.G.)	1000ug/ml in Acetonitrile	F2378JS	1ml	
SWEP (S.G.)	1000ug/ml in Acetonitrile	F2378S	5ml	
SWEP		PS-1098	250mg	**1918-18-9**
Synthrin*		PS-1000	250mg	**10453-86-8**
Syringaldehyde		2530L	200mg	**134-96-3**

Category Name	Specification	Catalog#	Size	CAS#
Syringic acid		7790B	1g	**530-57-4**
System Perform Check Mix-CLP	1000ug/ml in Methanol	CLP-9M	5ml	
Systhane		PS-2006	100mg	**88671-89-0**
Systhane (TM) Solution	100ug/ml in Toluene	PS-2006JS	1mL	
Systhane (TM) Solution	100ug/ml in Toluene	PS-2006JS	1mL	
Systox				
2.4.5-T		PS-45	250mg	**93-76-5**
2.4.5-T Solution	100ug/ml in Acetonitrile	PS-45AJS	1mL	
2.4.5-T (S.G.)		F972	250mg	**93-76-5**
2.4.5-T Solution (S.G.)	100ug/ml in Acetone	F972JS	1ml	
2.4.5-T (S.G.)	100ug/ml in Acetone	F972S	5ml	
2.4.5-T (ring-13C6) Solution (S.G.)	100ug/ml in Methylene chloride	FC972S	1.2ml	
2.4.5-T-amine		PS-296	1g	**R**
2.4.5-T-amine Solution	100ug/ml in Methanol	PS-296JS	1mL	
2.4.5-T butoxyethyl ester		PS-309	1g	**2545-59-7**
2.4.5-T butoxyethyl ester Solution	100ug/ml in Toluene	PS-309JS	1mL	
2.4.5-T butoxyethyl ester (S.G.)		F2362	1g	**2545-59-7**
2.4.5-T butoxyethyl ester Solution (S.G.)	1000ug/ml in Acetonitrile	F2362JS	1ml	
2.4.5-T butoxyethyl ester (S.G.)	1000ug/ml in Acetonitrile	F2362S	5ml	
2.4.5-T n-butyl ester		PS-303	1g	**93-79-8**
2.4.5-T n-butyl ester Solution	100ug/ml in Acetonitrile	PS-303AJS	1mL	
2.4.5-T n-butyl ester Solution	100ug/ml in Hexane	PS-303JS	1mL	
2,4,5-T butoxypolypropylene glycol ester		PS-334	1g	**R**
2.4.5-T 2-ethylhexyl ester		PS-297-1	250mg	**1928-47-8**
2.4.5-T 2-ethylhexyl ester Solution	100ug/ml in MTBE	PS-297-1JS	1mL	
2.4.5-T isooctyl ester		PS-297	100mg	**25168-15-4**
2.4.5-T isooctyl ester Solution	100ug/ml in Acetonitrile	PS-297AJS	1mL	
2.4.5-T isooctyl ester Solution	100ug/ml in MTBE	PS-297JS	1mL	
2.4.5-T isopropyl ester		PS-46	100mg	**93-78-7**
2.4.5-T isopropyl ester Solution	100ug/ml in Acetonitrile	PS-46AJS	1mL	
2.4.5-T isopropyl ester Solution	100ug/ml in MTBE	PS-46JS	1mL	
**** 2,4,5-T methyl ester see F973 (2,4,5-Trichlorophenoxy)acetic acid methyl ester**				
2.4.5-T methyl ester		PS-339	250mg	**1928-37-6**
Tabamex*		PS-1004	500mg	**33629-47-9**
Tabatrex*		PS-903	1g	**141-03-7**
Tachigaren*		PS-2186	25mg	**10004-44-1**
Tairel*		PS-2142	250mg	**71626-11-4**
Talcum		7787	5g	**14807-96-6**
Tall oil (fatty acids) (TECH)		S-22	10g	**61790-12-3**
Tallow amine (TECH)		S-497	10g	**61790-33-8**
Tallow amine acetate (TECH)		S-544	10g	**61790-60-1**
N-Tallow-1,3-diaminopropane (TECH)		S-507	10g	**R**
Tallow fatty acids (TECH)		S-20	10g	**R**
Tallow monoethanolamide (5 Moles EtO) (TECH)		S-593	10g	**R**
Tallow trimethyl ammonium chloride (TECH)		S-611	10g	**R**
N-Tallow trimethylene diamine diacetate (TECH)		S-562-1	10g	**R**
Talon*		PS-1056	50mg	**56073-10-0**
Talstar*		PS-2003	100mg	**82657-04-3**
Tamaron*		PS-676	100mg	**10265-92-6**
Tamex*		PS-1004	500mg	**33629-47-9**
Tanex*		PS-1014	250mg	**13684-63-4**
Tanex*		PS-1014	250mg	**13684-63-4**
Tanex*		PS-1014	250mg	**13684-63-4**
Tanex*		PS-1014	250mg	**13684-63-4**
Tannic acid (S.G.)		O-108	2g	**1401-55-4**
Tantalum - 5% HNO3 + 2% HF		X10M 55-3-100	100ml	
Tantalum - 5% HNO3 + 2% HF		X10M 55-3-250	250ml	
Tantalum - 5% HNO3 + 2% HF		X10M 55-3-500	500ml	
Tantalum - Ta metal, 99.99%, 2% HNO3+0.5% HF		X100055-3-A	100ml	
Tantalum - Ta metal, 99.99%, 2% HNO3+0.5% HF		X100055-3-B	250ml	
Tantalum - Ta metal, 99.99%, 2% HNO3+0.5% HF		X100055-3-C	500ml	
Tantalum Chloride (TaCl5) 99.995%		XTA-CL-S-A	5g	
Tantalum Chloride (TaCl5) 99.995%		XTA-CL-S-B	25g	
Tantalum hydride		I-6100	500mg	**13981-95-8**
Tantalum Oxide (Ta2O5) 99.95%		XTA-O-A	5g	
Tantalum Oxide (Ta2O5) 99.95%		XTA-O-B	25g	
Tantalum pentachloride		I-6120	1g	**7721-01-9**
Tantalum pentoxide		RE-220	1g	**1314-61-0**
Tantalum potassium fluoride		I-6125	5g	**R**
Tantalum Powder (Ta) 99.99%		XTA-MP-A	5g	
Tantalum Powder (Ta) 99.99%		XTA-MP-B	25g	
Taredan*		PS-2199	100mg	**95465-99-9**
Targa Super*		PS-2151	500mg	**100646-51-3**
L-Tartaric acid (S.G.)		O-78	5g	**87-69-4**
DL-Tartaric acid hydrate		7786C	10g	**133-37-9**
Tartrazine/C.I.#19140		BS-31	1g	**1934-21-0**
Tarzazan*		PS-2151	500mg	**100646-51-3**
tau-Fluvalinate		PS-1071	100mg	**102851-06-9**
tau-Fluvalinate Solution	100ug/ml in Acetonitrile	PS-1071AJS	1mL	
tau-Fluvalinate Solution	100ug/ml in Isooctane	PS-1071JS	1mL	
Taurine (S.G.)		O-964	1g	**107-35-7**
2.3.6-TBA*		PS-330	1g	**50-31-7**
TBTO*		PS-282	1g	**56-35-9**
TBZ*		PS-1057	1g	**148-79-8**
TCA		PS-34	1g	**76-03-9**
**** TCDD see F114S 2,3,7,8-Tetrachlorodibenzo-p-dioxin Solution**				
TCL Ketones Mixture	2000ug/ml in Methanol:Water (90:10)	TCL-1AM	5ml	
TCLP Acids Mixture	1000ug/ml in Methanol	TCLP-1AM	5ml	
TCLP Base Neutrals Mixture	1000ug/ml in Acetone	TCLP-1BNM	5ml	
TCLP Organic Compounds-Neat		TCLP-1N	KIT	
TCLP Organic Compounds-Solution		TCLP-1S	KIT	
TCLP Pesticides Spiking Mixture	2000ug/ml in Methanol	TCLP-1PSM	5ml	
TCLP Semi-Volatiles Spiking Mixture	2000ug/ml in Acetone	TCLP-1SSM	5ml	
TCLP Spiking Solution (in 5% HNO3)		XCRM-TCLP-A	100ml	
TCLP Spiking Solution (in 5% HNO3)		XCRM-TCLP-B	250ml	
TCLP Volatiles Mixture	1000ug/ml in Methanol:Water (90:10)	TCLP-1VM	5ml	
TCMTB		PS-2021	10mg	**21564-17-0**
TCMTB Solution	100ug/ml in Acetonitrile	PS-2021AJS	1mL	
TCMTB (S.G.)		F2385	10mg	**21564-17-0**
TCMTB Solution (S.G.)	1000ug/ml in Methylene chloride	F2385JS	1ml	
TCMTB (S.G.)	1000ug/ml in Methylene chloride	F2385S	5ml	
TCNB*		PS-151	1g	**117-18-0**
2.4.5-TCPPA		PS-47	250mg	**93-72-1**
TDE		PS-72	250mg	**72-54-8**
Tebuconazole		PS-1091	100mg	**107534-96-3**
Tebuconazole*		PS-1091	100mg	**107534-96-3**
Tebufenozide		PS-2188	100mg	**112410-23-8**
Tebufenozide		PS-2188	100mg	**112410-23-8**
Tebufenozide Solution	100ug/ml in Acetonitrile	PS-2188AJS	1mL	
Tebufenpyrad		PS-2343	100mg	**119168-77-3**
Tebupirimfos		PS-2192	100mg	**96182-53-5**
Tebupirimfos Solution	100ug/ml in Acetonitrile	PS-2192AJS	1mL	
Tebupirimfos Solution	100ug/mL in Toluene	PS-2192JS	1mL	
Tebupirimphos		PS-2192	100mg	**96182-53-5**
Tebutam		PS-2255	250mg	**35256-85-0**
Tebutam Solution	100ug/ml in Acetonitrile	PS-2255AJS	1mL	
Tebutam Solution	100ug/ml in Toluene	PS-2255JS	1mL	
Tebuthiuron		PS-407	1g	**34014-18-1**
Tebuthiuron Solution	100ug/ml in Acetonitrile	PS-407AJS	1mL	
Tebuthiuron (S.G.)		F2243	1g	**34014-18-1**
Tebuthiuron Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2243JS	1ml	
Tebuthiuron (S.G.)	100ug/ml in t-Butylmethyl ether	F2243S	5ml	
Tecnazene		PS-151	1g	**117-18-0**
Tecto*		PS-1057	1g	**148-79-8**
Tedion V-18*		PS-80	250mg	**116-29-0**
Teflubenzuron		PS-2247	250mg	**83121-18-0**
Teflubenzuron Solution	100ug/ml in Acetonitrile	PS-2247AJS	1mL	
Tefluthrin		PS-2238	1ml	**79538-32-2**
Tellurium metal		RE-230	1g	**13494-80-9**
Tellurium - 40% HCl		X10M 56-2-100	100ml	
Tellurium - 40% HCl		X10M 56-2-250	250ml	
Tellurium - 40% HCl		X10M 56-2-500	500ml	
Tellurium - Te metal, 99.99%, 10% HCl		X100056-2-A	100ml	
Tellurium - Te metal, 99.99%, 10% HCl		X100056-2-B	250ml	
Tellurium - Te metal, 99.99%, 10% HCl		X100056-2-C	500ml	
Tellurium dioxide		I-7033	500mg	
Tellurium Oxide (TeO2) 99.995%		XTE-O-A	5g	
Tellurium Oxide (TeO2) 99.995%		XTE-O-B	25g	

Category Name	Specification	Catalog#	Size	CAS#
Tellurium Powder (Te) 99.999%		XTE-MP-A	5g	
Tellurium Powder (Te) 99.999%		XTE-MP-B	25g	
Telodrin*		PS-704	10mg	**297-78-9**
Telone*		PS-152	1g	**542-75-6**
Telvar*		PS-59	250mg	**150-68-5**
Tembotrione		PS-2352	100mg	**335104-84-2**
Temephos		PS-665	100mg	**3383-96-8**
Temephos		PS-665	100mg	**3383-96-8**
Temik*		PS-734	10mg	**116-06-3**
Tendex*		PS-551	1g	**114-26-1**
Teniathane*		PS-6	250mg	**97-23-4**
Teniatol*		PS-6	250mg	**97-23-4**
Tenoran*		PS-376	250mg	**1982-47-4**
TEPP		PS-601	500mg	**107-49-3**
**** TEPP see F2138 Tetraethylpyrophosphate**				
Terbacil		PS-375	1g	**5902-51-2**
Terbacil Solution	100ug/ml in Acetonitrile	PS-375AJS	1mL	
Terbacil (S.G.)		F2206	1g	**5902-51-2**
Terbacil Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2206JS	1ml	
Terbacil (S.G.)	100ug/ml in t-Butylmethyl ether	F2206S	5ml	
Terbium - 10% HCl		X10M 57-2-100	100ml	
Terbium - 10% HCl		X10M 57-2-250	250ml	
Terbium - 10% HCl		X10M 57-2-500	500ml	
Terbium - 4% HNO3		X10M 57-1-100	100ml	
Terbium - 4% HNO3		X10M 57-1-250	250ml	
Terbium - 4% HNO3		X10M 57-1-500	500ml	
Terbium - Tb4O7, 99.99%, 2% HCl		X100057-2-A	100ml	
Terbium - Tb4O7, 99.99%, 2% HCl		X100057-2-B	250ml	
Terbium - Tb4O7, 99.99%, 2% HCl		X100057-2-C	500ml	
Terbium - Tb4O7, 99.99%, 2% HNO3		X100057-1-A	100ml	
Terbium - Tb4O7, 99.99%, 2% HNO3		X100057-1-B	250ml	
Terbium - Tb4O7, 99.99%, 2% HNO3		X100057-1-C	500ml	
Terbium Oxide (Tb4O7) 99.99%		XTB-O-A	5g	
Terbium Oxide (Tb4O7) 99.99%		XTB-O-B	25g	
Terbucarb		PS-550	100mg	**1918-11-2**
Terbufos (S.G.)		F2137	250mg	**13071-79-9**
Terbufos Solution (S.G.)	100ug/ml in Methanol	F2137JS	1ml	
Terbufos (S.G.)	100ug/ml in Methanol	F2137S	5ml	
Terbufos		PS-680	250mg	**13071-79-9**
Terbufos sulfone		MET-680A	50mg	**56070-16-7**
Terbumeton		PS-2120	1g	**33693-04-8**
Terbumeton Solution	100ug/ml in Methanol	PS-2120JS	1mL	
Terbuthylazine		PS-413	50mg	**5915-41-3**
Terbuthylazine Solution	100ug/ml in Acetonitrile	PS-413AJS	1mL	
Terbuthylazine (S.G.)		F2291	50mg	**5915-41-3**
Terbuthylazine Solution (S.G.)	1000ug/ml in t-Butylmethyl ether	F2291JS	1ml	
Terbuthylazine (S.G.)	1000ug/ml in t-Butylmethyl ether	F2291S	5ml	
Terbuthylazine-desethyl		MET-413A	50mg	**30125-63-4**
Terbutol		PS-550	100mg	**1918-11-2**
Terbutol Solution	100ug/ml in Acetonitrile	PS-550AJS	1mL	
Terbutol Solution (100ug/ml in Toulene) (S.G.)	100ug/ml in Toluene	PS-550JS	1ml	
Terbutol Solution	100ug/ml in Toluene	PS-550JS	1ml	
Terbutryne		PS-379	1g	**886-50-0**
Terbutryne Solution	100ug/ml in Acetonitrile	PS-379AJS	1mL	
Terbutryne (S.G.)		F2207	1g	**886-50-0**
Terbutryne Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2207JS	1ml	
Terbutryne (S.G.)	100ug/ml in t-Butylmethyl ether	F2207S	5ml	
**** Terephthalanitrile see 7762H Terephthalonitrile**				
Terephthaldehyde disodium bisulfite		7785C	5g	**R**
Terephthaldicarboxaldehyde		8880K	1g	**623-27-8**
Terephthalic acid (S.G.)		O-91	5g	**100-21-0**
Terephthalic acid (ring-d4) (S.G.)		O-D91-1	1g	**R**
Terephthalic acid (ring-d4) (S.G.)		O-D91-5	5g	**R**
Terephthalic dihydrazide		2572L	250mg	**136-64-1**
Terephthalonitrile		7762H	1g	**623-26-7**

Category Name	Specification	Catalog#	Size	CAS#
Terpene polychlorinates		PS-2023	100mg	**8001-50-1**
Terpentine (S.G.)		O-2259	5g	**8006-64-2**
o-Terphenyl (S.G.)		F1054	500mg	**84-15-1**
o-Terphenyl Solution (S.G.)	2000ug/ml in Acetone	F1054AJS	1ml	
o-Terphenyl (S.G.)	2000ug/ml in Acetone	F1054AS	5ml	
o-Terphenyl Solution (S.G.)	1000ug/ml in Methylene chloride	F1054BJS	1ml	
o-Terphenyl (S.G.)	1000ug/ml in Methylene chloride	F1054BS	5ml	
o-Terphenyl Solution (S.G.)	100ug/ml in Hexane	F1054JS	1ml	
o-Terphenyl (S.G.)	100ug/ml in Hexane	F1054S	5ml	
o-Terphenyl (d14) (S.G.)		FD1054-1	1g	**R**
o-Terphenyl (d14) (S.G.)		FD1054-5	5g	**R**
m-Terphenyl (S.G.)		F1055	1g	**92-06-8**
m-Terphenyl Solution (S.G.)	100ug/ml in Hexane	F1055JS	1ml	
m-Terphenyl (S.G.)	100ug/ml in Hexane	F1055S	5ml	
p-Terphenyl (S.G.)		F1064	500mg	**92-94-4**
p-Terphenyl Solution (S.G.)	2000ug/ml in Methylene chloride	F1064AJS	1ml	
p-Terphenyl (S.G.)	2000ug/ml in Methylene chloride	F1064AS	5ml	
p-Terphenyl Solution (S.G.)	100ug/ml in Hexane	F1064JS	1ml	
p-Terphenyl (S.G.)	100ug/ml in Hexane	F1064S	5ml	
p-Terphenyl (S.G.)		O-773	500mg	**92-94-4**
p-Terphenyl-d14 (S.G.)		F842	50mg	**1718-51-0**
p-Terphenyl-d14 Solution (S.G.)	2000ug/ml in Methylene chloride	F842JS	1ml	
p-Terphenyl-d14 (S.G.)	2000ug/ml in Methylene chloride	F842S	5ml	
a-Terpineol		7789B	10g	**98-55-5**
a-Terpineol (propy methyl-d3) (S.G.)		FD7007-A	0.1g	**R**
a-Terpineol (propy methyl-d3) (S.G.)		FD7007-B	0.5g	**R**
Terpinyl acetate		7764F	10g	**80-26-2**
Terpinyl thiocyanoacetate		PS-731	1g	**115-31-1**
Terraclor*		PS-150	1g	**82-68-8**
Terracur P*		PS-667	100mg	**115-90-2**
Terramycin hydrochloride*		PS-2200	250mg	**2058-46-0**
Terrazole (TM) (S.G.)		F2202	250mg	**2593-15-9**
Terrazole (TM) Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2202JS	1ml	
Terrazole (TM) (S.G.)	100ug/ml in t-Butylmethyl ether	F2202S	5ml	
Terrazole		PS-264	250mg	**2593-15-9**
Tersan*		PS-24	1g	**137-26-8**
Tersan SP*		PS-255	250mg	**2675-77-6**
tert-Amyl ethyl ether (S.G.)		F2917	POR	**919-94-8**
tert-Butyl alcohol-d10 (S.G.)		F2541	100mg	**53001-22-2**
tert-Butyl alcohol-d10 (S.G.)		F2541	100mg	**53001-22-2**
tert-Butyl formate (S.G.)		F2916	100mg	**762-75-4**
Testosterone		7785S	1g	**58-22-0**
Testosterone		7785S	1g	**58-22-0**
2.4.5-T 2-ethylhexyl ester Solution	100ug/ml in Acetonitrile	PS-297-1AJS	1mL	
3.3′.4.4′-Tetra aminobenzophenone		7787F	500mg	**5007-67-0**
**** 3.3′.4.4′-Tetraaminobiphenyl see 3435F 3.3′Diaminobenzidine**				
2.2′.4.4′-Tetraamino-5.5′-dimethyldiphenylmethane sulfate		7790	10g	**R**
2,4,5,6-Tetraaminopyrimidine sulfate		2578L	500mg	**5392-28-9**
1.2.4.5-Tetrabromobenzene		7791E	5g	**636-28-2**
2.2′.4.5′-Tetrabromobiphenyl (S.G.)		7770G	5mg	**60044-24-8**
2.2′.4.5′-Tetrabromobiphenyl (S.G.)	100ug/ml in Hexane	7770GS	2ml	
2.2′.5.5′-Tetrabromobiphenyl (S.G.)		7771G	20mg	**59080-37-4**
2.2′.5.5′-Tetrabromobiphenyl (S.G.)	100ug/ml in Hexane	7771GS	2ml	
2.2′.5′.6-Tetrabromobiphenyl (S.G.)		7773G	20mg	**60044-25-9**
2.2′.5′.6-Tetrabromobiphenyl (S.G.)	100ug/ml in Hexane	7773GS	2ml	
3.3′.5.5′-Tetrabromobiphenyl (S.G.)		7772G	20mg	**16400-50-3**
3.3′.5.5′-Tetrabromobiphenyl (S.G.)	100ug/ml in Hexane	7772GS	2ml	
Tetrabromobisphenol A		7791C	5g	**79-94-7**
Tetrabromobisphenol S		7790C	1g	**R**
1.2.3.4-Tetrabromobutane (S.G.)		O-650	500mg	**1529-68-6**
Tetrabromocatechol		7792C	5g	**488-47-1**
2,2′,4,4′-Tetrabromodiphenyl ether (S.G.)	F2571	100mg		**5436-43-1**
1.1.2.2-Tetrabromoethane (S.G.)		O-2260	5g	**79-27-6**
Tetrabromophenolphthalein ethyl ester potassium salt		2926L	100mg	**62637-91-6**
Tetrabromophthalic acid		7796C	1g	**13810-83-8**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Tetrabromophthalic anhydride		7797A	10g	**632-79-1**
3.4.5.6-Tetrabromophthalimide		7798E	5g	**24407-32-7**
Tetrabutylammonium bromide		7791F	1g	**1643-19-2**
Tetrabutylammonium hydrogen sulfate		8883K	100mg	**32503-27-8**
Tetrabutylammonium iodide		7796B	5g	**311-28-4**
Tetrabutylphosphonium bromide		8886K	100mg	**3115-68-2**
Tetrabutyltin		7793F	1g	**1461-25-2**
2,3,5,6-Tetrachloroaniline		PS-2228	250mg	**3481-20-7**
2,3,5,6-Tetrachloroaniline Solution	100ug/ml in Methanol	PS-2228JS	1mL	
1.2.3.4-Tetrachlorobenzene (S.G.)		F2048	1g	**634-66-2**
1.2.3.4-Tetrachlorobenzene Solution (S.G.)	100ug/ml in Hexane	F2048JS	1ml	
1.2.3.4-Tetrachlorobenzene (S.G.)	100ug/ml in Hexane	F2048S	5ml	
1.2.3.5-Tetrachlorobenzene (S.G.)		F2049	10mg	**634-90-2**
1.2.3.5-Tetrachlorobenzene Solution (S.G.)	100ug/ml in Hexane	F2049JS	1ml	
1.2.3.5-Tetrachlorobenzene (S.G.)	100ug/ml in Hexane	F2049S	5ml	
1.2.4.5-Tetrachlorobenzene (S.G.)		F1085	5g	**95-94-3**
1.2.4.5-Tetrachlorobenzene Solution (S.G.)	100ug/ml in Methanol	F1085JS	1ml	
1.2.4.5-Tetrachlorobenzene (S.G.)	100ug/ml in Methanol	F1085S	5ml	
1.2.4.5-Tetrachlorobenzene (13C6) (S.G.)		FC1085-A	0.1g	**R**
1.2.4.5-Tetrachlorobenzene (13C6) (S.G.)		FC1085-F	5mg	**R**
1.2.4.5-Tetrachlorobenzene (d2) (S.G.)		FD1085-1	1g	**R**
1.2.4.5-Tetrachlorobenzene (d2) (S.G.)		FD1085-5	5g	**R**
1.2.4.5-Tetrachlorobenzene (S.G.)		O-688	5g	**95-94-3**
2.4.5.6-Tetrachlorobenzene-1.3-dimethanol		7795C	5g	**39568-89-3**
Tetrachloro-o-benzoquinone		2917L	100mg	**2435-53-2**
Tetrachloro-p-benzoquinone		PS-11	250mg	**118-75-2**
2.2′.6.6′-Tetrachloro-p.p′-biphenol (R.G.)		7798B	1g	**R**
2.2′.3.3′-Tetrachlorobiphenyl (S.G.)		7820G	50mg	**38444-93-8**
2.2′.3.3′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7820GS	2ml	
2,2′,3,4′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9014GS	2ml	
2,3,4,6-Tetrachlorobiphenyl (S.G.)	in Methanol	9052GS	2ml	
2.2′.3.5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7821GS	2ml	
2,2′,3,4′-Tetrachlorobiphenyl (S.G.)		9014G	5mg	**36559-22-5**
2.2′.3.5′-Tetrachlorobiphenyl (S.G.)		7821G	25mg	**41464-39-5**
2.2′.4.4′-Tetrachlorobiphenyl (S.G.)		7822G	50mg	**2437-79-8**
2.2′.4.4′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7822GS	2ml	
2,2′,4,5-Tetrachlorobiphenyl (S.G.)		9015G	5mg	**70362-47-9**
2,2′,4,5-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9015GS	2ml	
2.2′.4.5′-Tetrachlorobiphenyl (S.G.)		7823G	50mg	**41464-40-8**
2.2′.4.5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7823GS	2ml	
2.2′.4.6-Tetrachlorobiphenyl (S.G.)		7824G	10mg	**62796-65-0**
2.2′.4.6-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7824GS	2ml	
2.2′.5.5′-Tetrachlorobiphenyl (S.G.)		7825G	10mg	**35693-99-3**
2.2′.5.5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7825GS	2ml	
2.2′.5.6′-Tetrachlorobiphenyl (S.G.)		7826G	25mg	**41464-41-9**
2.2′.5.6′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7826GS	2ml	
2.2′.6.6′-Tetrachlorobiphenyl (S.G.)		7827G	50mg	**15968-05-5**
2.2′.6.6′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7827GS	2ml	
2,3,3′,4-Tetrachlorobiphenyl (S.G.)		9016G	5mg	**74338-24-2**
2,3,3′,4-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9016GS	2ml	
2,3,3′,5′-Tetrachlorobiphenyl (S.G.)		9017G	5mg	**41464-49-7**
2,3,3′,5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9017GS	2ml	
2,3,4,4′-Tetrachlorobiphenyl (S.G.)		9018G	5mg	**33025-41-1**
2,3,4,4′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	9018GS	2ml	
2.3.4.5-Tetrachlorobiphenyl (S.G.)		7829G	50mg	**33284-53-6**
2.3.4.5-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7829GS	2ml	
2,3,4,6-Tetrachlorobiphenyl (S.G.)		9052G	5mg	**54230-22-7**
2.3.5.6-Tetrachlorobiphenyl (S.G.)		7833G	25mg	**33284-54-7**
2.3.5.6-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7833GS	2ml	
2.3′.4.4′-Tetrachlorobiphenyl (S.G.)		7828G	20mg	**32598-10-0**
2.3′.4.4′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7828GS	2ml	
2.3′.4.6-Tetrachlorobiphenyl (S.G.)		7831G	10mg	**60233-24-1**
2.3′.4.6-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7831GS	2ml	
2.3′.4′.5-Tetrachlorobiphenyl (S.G.)		7830G	10mg	**32598-11-1**
2.3′.4′.5-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7830GS	2ml	
2.3′.5.5′-Tetrachlorobiphenyl (S.G.)		7832G	25mg	**41464-42-0**

Category Name	Specification	Catalog#	Size	CAS#
2.3′.5.5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7832GS	2ml	
2,4,4′,5-Tetrachlorobiphenyl (S.G.)		9019G	5mg	**32690-93-0**
2,4,4′,5-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9019GS	2ml	
2.4.4′.6-Tetrachlorobiphenyl (S.G.)		7834G	10mg	**32598-12-2**
2.4.4′.6-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7834GS	2ml	
3.3′.4.4′-Tetrachlorobiphenyl (S.G.)		7835G	25mg	**32598-13-3**
3.3′.4.4′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	7835GS	2ml	
3,3′,4,5-Tetrachlorobiphenyl (S.G.)		9020G	5mg	**70362-49-1**
3,3′,4,5-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9020GS	2ml	
3,3′,4,5′-Tetrachlorobiphenyl (S.G.)		9021G	5mg	**41464-48-6**
3,3′,4,5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9021GS	2ml	
3,3′,5,5′-Tetrachlorobiphenyl (S.G)		9022G	5mg	**33284-52-5**
3,3′,5,5′-Tetrachlorobiphenyl (S.G.)	100ug/ml in Hexane	9022GS	2ml	
3,4,4′,5-Tetrachlorobiphenyl (S.G.)		9023G	5mg	**70362-50-4**
3,4,4′,5-Tetrachlorobiphenyl (S.G.)	100ug/ml in Isooctane	9023GS	2ml	
3.3′.5.5′-Tetrachloro-4.4′-biphenyldiol (S.G.)		7839G	10mg	**R**
2′.3′.4′-5′-Tetrachloro-4-biphenylol (S.G.)		7840G	10mg	**R**
2′.3′.4′.5′-Tetrachloro-3-biphenylol (S.G.)		7841G	10mg	**R**
1.2.3.4-Tetrachlorodibenzo-p-dioxin (S.G.)		7860G	25mg	**30746-58-8**
1.2.3.4-Tetrachlorodibenzo-p-dioxin (S.G.)	50ug/ml in Toluene	7860GS	1ml	
2.3.7.8-Tetrachlorodibenzo-p-dioxin (10ug/ml in Toluene) (S.G.)	10ug/ml in Toluene	F114S	1ml	
2.4.4′.5-Tetrachlorodiphenyl sulfone		PS-80	250mg	**116-29-0**
1.1.1.2-Tetrachloroethane (S.G.)		F813	1g	**630-20-6**
1.1.1.2-Tetrachloroethane Solution (S.G.)	100ug/ml in Methanol	F813JS	1ml	
1.1.1.2-Tetrachloroethane (S.G.)	100ug/ml in Methanol	F813S	5ml	
1.1.2.2-Tetrachloroethane (S.G.)		F15	5g	**79-34-5**
1.1.2.2-Tetrachloroethane (d2) (S.G.)		FD15-10	10g	**R**
1.1.2.2-Tetrachloroethane (d2) (S.G.)		FD15-5	5g	**R**
1.1.2.2-Tetrachloroethane Solution (S.G.)	100ug/ml in Hexane	F15JS	1ml	
1.1.2.2-Tetrachloroethane (S.G.)	100ug/ml in Hexane	F15S	5ml	
s-Tetrachloroethane (S.G.)		O-651	5g	**79-34-5**
Tetrachloroethene (S.G.)		F85	5g	**127-18-4**
Tetrachloroethene Solution (S.G.)	100ug/ml in Methanol	F85JS	1ml	
Tetrachloroethene (S.G.)	100ug/ml in Methanol	F85S	5ml	
Tetrachloroethene (1,2-13C2) (S.G.)		FC85-A	0.1g	**R**
Tetrachloroethene (S.G.)		O-663	10g	**127-18-4**
**** Tetrachloroethylene see F85 Tetrachloroethene**				
N-(1.1.2.2.-Tetrachloroethylthio)-4-cyclohexene-1.2-dicarboxim		PS-260	250mg	**2425-06-1**
Tetrachlorohydroquinone		MET-690A	1g	**87-87-6**
**** Tetrachlorohydroquinone see MET-690A in Pesticide Catalog**				
Tetrachloroisophthalonitrile		PS-1020	250mg	**1897-45-6**
2.3.4.5-Tetrachloronitrobenzene		8895K	100mg	**879-39-0**
1,2,4,5-Tetrachloro-3-nitrobenzene		PS-151	1g	**117-18-0**
1,2,4,5-Tetrachloro-3-nitrobenzene		PS-151	1g	**117-18-0**
1,2,4,5-Tetrachloro-3-nitrobenzene	100ug/mL in Methanol	PS-151JS	1mL	
**** 2.3.5.6-Tetrachloronitrobenzene see PS-151 in Pesticide Catalog**				
2,3,4,5-Tetrachlorophenol (S.G.)		F2478	10mg	**4901-51-3**
2,3,4,5-Tetrachlorophenol Solution (S.G.)	100ug/ml in Methylene chloride	F2478JS	1ml	
2,3,4,5-Tetrachlorophenol (S.G.)	100ug/ml in Methylene chloride	F2478S	5ml	
2.3.4.6-Tetrachlorophenol (S.G.)		F1086	50mg	**58-90-2**
2.3.4.6-Tetrachlorophenol Solution (S.G.)	100ug/ml in Methanol	F1086JS	1ml	
2.3.4.6-Tetrachlorophenol (S.G.)	100ug/ml in Methanol	F1086S	5ml	
2,3,5,6-Tetrachlorophenol (S.G.)		F1098	50mg	**935-95-5**
2.3.5.6-Tetrachlorophenol Solution (S.G.)	100ug/ml in Isopropanol	F1098JS	1ml	
2,3,5,6-Tetrachlorophenol (100ug/ml in Isopropanol) (S.G.)	100ug/ml in Isopropanol	F1098S	5ml	
2.3.4.6-Tetrachlorophenol		PS-8	50mg	**58-90-2**
Tetrachlorophthalic anhydride (S.G.)		O-132	5g	**117-08-8**
3.4.5.6-Tetrachlorophthalimide		7803E	5g	**1571-13-7**
Tetrachlorophthalonitrile (S.G.)		F2931	100mg	**1953-99-7**
Tetrachloroterephthalic acid		MET-33B	100mg	**2136-79-0**
Tetrachloroterephthalic acid		MET-33B	100mg	**2136-79-0**
Tetrachloroterephthalic acid (S.G.)		F2178	100mg	**2136-79-0**
Tetrachloroterephthalic acid Solution (S.G.)	100ug/ml in Acetone	F2178JS	1ml	

Category Name	Specification	Catalog#	Size	CAS#
Tetrachloroterephthalic acid (S.G.)	100ug/ml in Acetone	F2178S	5ml	
Tetrachloroterephthalonitrile (S.G.)		F2932	100mg	**1897-41-2**
a.a.2.6-Tetrachlorotoluene		8905K	1g	**81-19-6**
**** a.a.a.4-Tetrachlorotoluene see 2915F 4-Chlorobenzotrichloride**				
2,4,5,6-Tetrachloro-m-xylene (S.G.)		F903	100mg	**877-09-8**
2,4,5,6-Tetrachloro-m-xylene Solution (S.G.)	500ug/ml in Acetone	F903AJS	1ml	
2,4,5,6-Tetrachloro-m-xylene (S.G.)	500ug/ml in Acetone	F903AS	5ml	
2,4,5,6-Tetrachloro-m-xylene Solution (S.G.)	200ug/ml in Methanol	F903JS	1ml	
2,4,5,6-Tetrachloro-m-xylene (S.G.)	200ug/ml in Methanol	F903S	5ml	
2.3.5.6-Tetrachloro-p-xylene-a.a′-diol		7797E	5g	**7154-26-9**
Tetrachlorvinphos		PS-611	250mg	**22248-79-9**
Tetrachlorvinphos Solution	100ug/ml in Acetonitrile	PS-611AJS	1mL	
Tetrachlorvinphos (S.G.)		F2069	250mg	**22248-79-9**
Tetrachlorvinphos Solution (S.G.)	100ug/ml in Methylene chloride	F2069JS	1ml	
Tetrachlorvinphos (S.G.)	100ug/ml in Methylene chloride	F2069S	5ml	
Tetrachrome stain		BS-109	1g	**81142-52-1**
Tetraconazole		PS-2299	100mg	**112281-77-3**
Tetraconazole Solution	100ug/ml in Acetonitrile	PS-2299AJS	1mL	
Tetraconazole Solution	100ug/ml in Toluene	PS-2299JS	1mL	
n-Tetracontane (S.G.)		O-2261	100mg	**4181-95-7**
n-Tetracosane (S.G.)		F2198	1g	**646-31-1**
n-Tetracosane Solution (S.G.)	2000ug/ml in Carbon disulfide	F2198AJS	1ml	
n-Tetracosane Solution (S.G.)	100ug/ml in Methylene chloride	F2198JS	1ml	
n-Tetracosane (S.G.)	100ug/ml in Methylene chloride	F2198S	5ml	
n-Tetracosane (d50) (S.G.)		FD2198-B	0.5g	**R**
n-Tetracosane (S.G.)		O-2264	1g	**646-31-1**
n-Tetracosanoic acid (C24) (S.G.)		O-2330	100mg	**557-59-5**
Tetra-o-cresol orthosilicate		7811F	1g	**R**
Tetracresyl titanate		7812F	1g	**R**
Tetracyanoethylene		7799B	1g	**670-54-2**
Tetracycline hydrochloride		7820H	1g	**64-75-5**
n-Tetradecane (S.G.)		F2197	5g	**629-59-4**
n-Tetradecane Solution (S.G.)	100ug/ml in Methylene chloride	F2197JS	1ml	
n-Tetradecane (S.G.)	100ug/ml in Methylene chloride	F2197S	5ml	
n-Tetradecane (d30) (S.G.)		FD2197-1	1g	**R**
n-Tetradecane (d30) (S.G.)		FD2197-5	5g	**R**
n-Tetradecane (S.G.)		O-2262	5g	**629-59-4**
1-Tetradecanol (S.G.)		O-170	2g	**112-72-1**
1-Tetradecene (S.G.)		O-2263	5g	**1120-36-1**
Tetradecyl alcohol (TECH)		S-310	10g	**112-72-1**
n-Tetradecylamine (S.G.)		O-2303	10g	**2016-42-4**
n-Tetradecylamine (TECH)		S-490	10g	**2016-42-4**
n-Tetradecylbenzene (S.G.)		F2465	500mg	**1459-10-5**
n-Tetradecylbenzene Solution (S.G.)	1000ug/ml in Carbon disulfide	F2465JS	1ml	
n-Tetradecyl mercaptan		7823F	1g	**2079-95-0**
Tetradifon Solution	100ug/ml in Acetonitrile	PS-80AJS	1mL	
Tetradifon (S.G.)		F2282	250mg	**116-29-0**
Tetradifon Solution (S.G.)	500ug/ml in Acetone	F2282JS	1ml	
Tetradifon (S.G.)	500ug/ml in Acetone	F2282S	5ml	
Tetradifon		PS-80	250mg	**116-29-0**
Tetraethanol ethylenediamine (TECH)		CDF-7	5g	**140-07-8**
Tetraethylammonium bromide		7820	10g	**71-91-0**
Tetraethylammonium chloride		7837F	1g	**56-34-8**
Tetraethylammonium hydroxide		7830	10g	**77-98-5**
Tetraethylammonium-p-toluenesulfonate		7840	10g	**733-44-8**
Tetra(2-ethyl butyl)silicate		7841F	1g	**R**
Tetraethyldithio pyrophosphate (S.G.)		F940	50mg	**3689-24-5**
Tetraethyldithio pyrophosphate Solution (S.G.)	100ug/ml in Hexane	F940JS	1ml	
Tetraethyldithio pyrophosphate (S.G.)	100ug/ml in Hexane	F940S	5ml	
0,0,0′,0′-Tetraethyldithiopyrophosphate		PS-2024	50mg	**3689-24-5**
Tetraethylene glycol (S.G.)		O-2317	5g	**112-60-7**
Tetraethylene glycol di(2-ethylhexanoate) (TECH)		Pz-805	10g	**18268-70-7**
Tetraethylene pentamine		7860	10g	**112-57-2**
Tetraethyl ester thiodiphosphoric acid		PS-2181	50mg	**645-78-3**
Tetraethyl monothiopyrophosphate		PS-2181	50mg	**645-78-3**

Category Name	Specification	Catalog#	Size	CAS#
Tetraethylpyrophosphate (S.G.)		F2138	500mg	**107-49-3**
Tetraethylpyrophosphate		PS-601	500mg	**107-49-3**
Tetraethylthiuram disulfide		8908K	1g	**97-77-8**
1.1.3.3-Tetraethyl urea		7849F	1g	**1187-03-7**
Tetrafenphos		PS-665	100mg	**3383-96-8**
2.3.5.6-Tetrafluoroterephthalic acid		7857A	100mg	**652-36-8**
1.2.3.4-Tetrahydrocarbazole		7876A	5g	**942-01-8**
Tetrahydro-5.5-dimethyl-2(1H)-pyrimidinone [3-[4-(trifluoromet		PS-1001	100mg	**67485-29-4**
Tetrahydro-3.5-dimethyl-2H-1.3.5-thiadiazine-2-thione		PS-17	250mg	**533-74-4**
1.2.3.6-Tetrahydro-3.6-dioxopyridazine		PS-65	250mg	**123-33-1**
Tetrahydrofuran (S.G.)		F2436	5g	**109-99-9**
Tetrahydrofuran Solution (S.G.)	100ug/ml in Methanol	F2436JS	1ml	
Tetrahydrofuran (S.G.)	100ug/ml in Methanol	F2436S	5ml	
Tetrahydrofuran-d8 (S.G.)		F2546	100mg	**1693-74-9**
Tetrahydrofuran (S.G.)		O-574	10g	**109-99-9**
Tetrahydrofurfuryl acetate (S.G.)		O-447	500mg	**637-64-9**
Tetrahydrofurfuryl alcohol (S.G.)		O-181	5g	**97-99-4**
Tetrahydrofurfurylamine		7903F	1g	**4795-29-3**
Tetrahydrofurfuryl benzoate		7900	10g	**R**
Tetrahydrofurfuryl bromide		7905F	100mg	**1192-30-9**
Tetrahydrofurfuryl maleate		7910	10g	**R**
Tetrahydrofurfuryl oleate (TECH)		Pz-10	10g	**R**
1.2.12.12a-Tetrahydro-2-isopropenyl-8.9-dimethoxy-[1]benzopyra		PS-99	250mg	**83-79-4**
1.2.3.4-Tetrahydroisoquinoline		8911K	100mg	**91-21-4**
3a,4,7,7a-Tetrahydro-4,7-methane-1H-indene		PS-2033	500mg	**77-73-6**
Tetrahydro-2-methylfuran (S.G.)		O-575	2g	**96-47-9**
1,2,3,4-Tetrahydronaphthalene (S.G.)		F1065	5g	**119-64-2**
1,2,3,4-Tetrahydronaphthalene Solution (S.G.)	100ug/ml in Toluene	F1065JS	1ml	
1,2,3,4-Tetrahydronaphthalene (S.G.)	100ug/ml in Toluene	F1065S	5ml	
1,2,3,4-Tetrahydronaphthalene (S.G.)		O-774	10g	**119-64-2**
1,2,3,4-Tetrahydronaphthalene (S.G.)		O-774	10g	**119-64-2**
5.6.7.8-Tetrahydro-1-naphthol		8917K	10mg	**529-35-1**
5.6.7.8-Tetrahydro-2-naphthol		8918K	100mg	**1125-78-6**
1.2.3.4-Tetrahydro-1-naphthylamine hydrochloride		8920K	100mg	**49800-23-9**
3.4.5.6-Tetrahydrophthalic anhydride		8923K	100mg	**2426-02-0**
**** cis-1.2.3.6-Tetrahydrophthalic anhydride see 0-127 cis-4-Cyclohexene-1.2-dicarboxylic anhydride**				
cis-1,2,3,6-Tetrahydrophthalimide (ring-d6) (S.G.)		FD7008-A	0.1g	**R**
cis-1,2,3,6-Tetrahydrophthalimide		MET-260A	5g	**27813-21-4**
**** cis-1,2,3,6-Tetrahydrophthalimide see MET-260A in Pesticide Catalog**				
3,4,5,6-Tetrahydrophthalimidomethyl chrysanthemate		PS-1042	100mg	**7696-12-0**
Tetrahydropyran		7799E	5g	**142-68-7**
1.2.3.6-Tetrahydropyridine		8926K	100mg	**694-05-3**
3.4.5.6-Tetrahydro-2-pyrimidinethiol (S.G.)		F2448	1g	**2055-46-1**
3.4.5.6-Tetrahydro-2-pyrimidinethiol Solution (S.G.)				
100ug/ml in Ethyl acetate containing 0.1% of DTT		F2448JS	1ml	
3.4.5.6-Tetrahydro-2-pyrimidinethiol (100ug/ml in Ethyl acetate containing				
1000ug/ml of DTT)(S.G.)[a	100ug/ml in Ethyl acetate containing 0.1% of DTT	F2448S	5ml	
1.2.3.4-Tetrahydroquinoline		8929K	1g	**635-46-1**
Tetrahydrothiophene (S.G.)		O-720	5g	**110-01-0**
Tetrahydrothiophene-1.1-dioxide		7964B	10g	**126-33-0**
2.2′.4.4′-Tetrahydroxybenzophenone (S.G.)		O-910	500mg	**131-55-5**
2.2′.4.4′-Tetrahydroxybenzophenone (TECH)		Ou-107	3g	**131-55-5**
Tetrahydroxyquinone hydrate (S.G.)		O-932	500mg	**123334-16-7**
Tetra isopropyl titanate		7912F	10g	**546-68-9**
Tetra isopropyl zirconate		7915F	1g	**R**
N.N.N′.N′-Tetrakis(2-hydroxypropyl)ethylenediamine		7965C	10g	**102-60-3**
Tetrakis(triphenylphosphine)palladium(o)		7966J	500mg	**14221-01-3**
Tetramethrin (S.G.)		F2457	100mg	**7696-12-0**
Tetramethrin Solution (S.G.)	1000ug/ml in Acetonitrile	F2457JS	1ml	
Tetramethrin (S.G.)	1000ug/ml in Acetonitrile	F2457S	5ml	
Tetramethrin		PS-1042	100mg	**7696-12-0**
Tetramethrin Solution	100ug/ml in Toluene	PS-1042JS	1mL	
Tetramethyl adipoxide		7960A	10g	**R**
Tetramethylallene		7919F	100mg	**1000-87-9**
Tetramethylammonium chloride (S.G.)		O-380	2g	**75-57-0**

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Category Name	Specification	Catalog#	Size	CAS#
Tetramethylammonium hexafluoro phosphate		7965E	2.5g	558-32-7
Tetramethylammonium hydroxide 25 wt% in Methanol		7927C	10g	75-59-2
Tetramethylammonium iodide		7928E	10g	75-58-1
Tetramethylammonium tetrafluoroborate		7932C	5g	661-36-9
3,3′,5,5′-Tetramethylbenzidine (S.G.)		F2569	100mg	54827-17-7
3,3′,5,5′-Tetramethylbenzidine Solution (S.G.)	50ug/ml in Acetonitrile	F2569JS	1ml	
3,3′,5,5′-Tetramethylbenzidine (50ug/ml in Acetonitrile) (S.G.)	50ug/ml in Acetonitrile	F2569S	5ml	
N.N.N.N-Tetramethyl-1.3-butanediamine		7927F	1g	97-84-7
2.2.4.4-Tetramethyl-1.3-cyclobutanediol		7957C	5g	3010-96-6
Tetramethyl-1.3-cyclobutanedione		7940	10g	933-52-8
3.3.5.5-Tetramethylcyclohexanone		8931K	100mg	14376-79-5
Tetramethyl decynediol (50% in 2-Ethylhexanol) (TECH)		S-363	10g	126-86-3
3,7,9,13-Tetramethyl-5,11-dioxa-2,8,14-trithia-4,7,9,12-tetraa		PS-2012	250mg	59669-26-0
Tetramethylethylene diamine		7950	10g	110-18-9
2.2.5.5-Tetramethylora cyclopentane		7949F	100mg	R
N,N,N′,N′-Tetramethyl-p-phenylenediamine		2785L	500mg	100-22-1
2.2.6.6-Tetramethyl piperidine		7952F	1g	768-66-1
2.2.6.6-Tetramethyl-4-piperidone hydrochloride		8935K	100mg	33973-59-0
Tetramethyl pyromellitate		2656L	500mg	R
2.2.5.5-Tetramethyl-3-pyrroline-3-carboxamide		7953F	100mg	19805-75-5
2,2,5,5-Tetramethyl-3-pyrrolin-1-oxyl-3-carboxylic acid		2794L	100mg	2154-67-8
Tetramethylterephthalic acid (S.G.)		F2936	500mg	14458-05-0
C-8-Tetramethyl-1,3,5,7-tetroxocane		PS-2030	1g	9002-91-9
0,0,0′,0′-Tetramethyl-0.0′-thio-di-p-phenylene phosphorothioat		PS-665	100mg	3383-96-8
Tetramethylthiuram disulfide		PS-24	1g	137-26-8
Tetramethylthiuram disulfide Solution	100ug/ml in Methanol	PS-24AJS	1mL	
Tetramethylthiuram disulfide Solution	100ug/ml in Toluene	PS-24JS	1mL	
Tetramethylthiuram monosulfide		7968F	10g	97-74-5
1.1.3.3-Tetramethyl urea		7961A	1g	632-22-4
Tetranhydrochloride*		PS-2200	250mg	2058-46-0
Tetranitromethane (S.G.)		0-2265	100mg	509-14-8
Tetraphenyl cyclopentadienone		7967E	1g	479-33-4
Tetraphenyl diboroxide ethanolamine complex		7975F	100mg	R
Tetraphenylethylene diphosphite		7969A	5g	R
Tetraphenyl lead		7850H	500mg	595-89-1
** 5.6.11.12-Tetraphenylnaphthacene see F1053 Rubrene				
1.3.6.8-Tetraphenylpyrene (S.G.)		F1056	100mg	R
1.3.6.8-Tetraphenylpyrene Solution (S.G.)	100ug/ml in Toluene	F1056JS	1ml	
1.3.6.8-Tetraphenylpyrene (S.G.)	100ug/ml in Toluene	F1056S	5ml	
Tetrapropenyl succinic anhydride		7973F	1g	26544-38-7
Tetraphenyltin (S.G.)		0-997	1g	595-90-4
Tetrapropylammonium hydroxide		7966E	10g	4499-86-9
Tetrapropylammonium iodide		2596L	500mg	631-40-3
Tetra-n-propyl dithionopyrophosphate		PS-663	50mg	3244-90-4
0.0.0′.0′-Tetrapropyl dithiopyrophosphate		PS-663	50mg	3244-90-4
n-Tetratetracontane (S.G.)		0-2266	50mg	7098-22-8
n-Tetratriacontane (S.G.)		0-2267	100mg	14167-59-0
Tetron		PS-601	500mg	107-49-3
Tetryl (S.G.)	1000ug/ml in Acetonitrile	F2494S	5mL	
Tetryl Solution (S.G.)	1000ug/ml in Acetonitrile	F2494JS	1mL	
** Texanol isobutyrate see 7978H 2.2.4-Trimethyl-1.3-pentanediol isobutyrate				
Texas TNRCC Method 1005 - Window Defining Hydrocarbon Standards Mixture #1	200ug/ml in n-Pentane	USTWDTX-1JM	1ml	
Texas TNRCC Method 1005 - Window Defining Hydrocarbon Standards Mixture #1	200ug/ml in n-Pentane	USTWDTX-1M	5ml	
Texas TNRCC Method 1005 - Window Defining Hydrocarbon Standards Mixture #2	200ug/ml in n-Pentane	USTWDTX-2JM	1ml	
Texas TNRCC Method 1005 - Window Defining Hydrocarbon Standards Mixture #2	200ug/ml in n-Pentane	USTWDTX-2M	5ml	
Thallium - 4% HNO3		X10M 58-1-100	100ml	
Thallium - 4% HNO3		X10M 58-1-250	250ml	
Thallium - 4% HNO3		X10M 58-1-500	500ml	
Thallium - Tl metal, 99.999%, 2% HNO3		X100058-1-A	100ml	
Thallium - Tl metal, 99.999%, 2% HNO3		X100058-1-B	250ml	
Thallium - Tl metal, 99.999%, 2% HNO3		X100058-1-C	500ml	
Thallium (I) acetate		7976F	1g	563-68-8

Category Name	Specification	Catalog#	Size	CAS#
Thallium Carbonate (Tl2O3) 99.999%		XTL-CO-S-A	5g	
Thallium Carbonate (Tl2O3) 99.999%		XTL-CO-S-B	25g	
Thallium Chips (Tl) 99.999%		XTL-MC-A	5g	
Thallium Chips (Tl) 99.999%		XTL-MC-B	25g	
Thallium (I) ethoxide		7975E	1g	20398-06-5
Thallium (I) nitrate		I-6164	1g	10102-45-1
Thallium (III) oxide		I-6155	1g	1314-32-5
Thallium Oxide (Tl2O3) 99.99%		XTL-O-A	5g	
Thallium Oxide (Tl2O3) 99.99%		XTL-O-B	25g	
Thallium sulfate		PS-804	1g	7446-18-6
Thallium sulfate Solution	100ug/ml in H2O	PS-804AJS	1mL	
Thallium sulfate Solution	100ug/ml in Toluene	PS-804JS	1mL	
Thallium (III) trifluoroacetate		7974F	100mg	23586-53-0
Thallous sulfate		PS-804	1g	7446-18-6
Thanite*		PS-731	1g	115-31-1
Thermal Chromatography/Mass Spec Compounds 8275 - Neat		TCMS-8275N	KIT	
Thermal Chromatography/Mass Spec Compounds 8275 - Solutions		TCMS-8275S	KIT	
Thiabendazole (S.G.)		F2389	1g	148-79-8
Thiabendazole Solution (S.G.)	1000ug/ml in Methanol	F2389JS	1ml	
Thiabendazole (S.G.)	1000ug/ml in Methanol	F2389S	5ml	
Thiabendazole		PS-1057	1g	148-79-8
Thiacloprid		PS-2262	100mg	111988-49-9
Thiacloprid Solution	100ug/ml in Acetonitrile	PS-2262AJS	1mL	
Thiacloprid Solution	100ug/ml in Toluene	PS-2262JS	1mL	
Thiamethoxam		PS-2215	100mg	153719-23-4
Thiamethoxam Solution	100ug/ml in Methanol	PS-2215JS	1mL	
** Thiamine hydrochloride see V-7 Vitamin B1 hydrochloride				
** Thiamine mononitrate see V-8 Vitamin B1 mononitrate				
4-Thianaphthenacetic acid		8937K	10mg	R
3,7-Thiaxanthenediamine-5,5-dioxide		2617L	100mg	10215-25-5
Thiazolidine		7972F	100mg	504-78-9
L-Thiazolidine-4-carboxylic acid		8939K	100mg	34592-47-7
2.4-Thiazolidinedione		8941K	100mg	2295-31-0
2-Thiazolidinethione		7970F	1g	96-53-7
2-(4′-Thiazolyl)-benzimidazole		PS-1057	1g	148-79-8
Thiazophyr		PS-2163	500mg	117718-60-2
Thiazopyr		PS-2163	500mg	117718-60-2
Thiazopyr Solution	100ug/ml in Acetonitrile	PS-2163AJS	1mL	
Thiazopyr Solution	100ug/ml in Toluene	PS-2163JS	1mL	
Thibenzole*		PS-1057	1g	148-79-8
Thidiazuron		PS-2044	250mg	51707-55-2
Thidiazuron Solution	100ug/ml in Acetonitrile	PS-2044AJS	1mL	
Thidiazuron Solution	100ug/ml in Toluene	PS-2044JS	1mL	
Thiencarbazone-methyl		PS-2366	50mg	317815-83-1
3-(2-Thienyl)-L-serine monohydrate		2614L	100mg	R
Thifensulfuron-methyl		PS-2011	100mg	79277-27-3
Thifensulfuron-methyl Solution	100ug/ml in Toluene	PS-2011JS	1mL	
Thifor*		PS-81	500mg	115-29-7
Thimet*		PS-654	100mg	298-02-2
Thimul*		PS-81	500mg	115-29-7
Thioacetamide (S.G.)		0-261	500mg	62-55-5
Thioacetic acid		7976B	10g	507-09-5
Thioacetic acid potassium salt		2620L	1g	
** Thioanisole see 5892F Methyl phenyl sulfide				
Thiobencarb		PS-1017	250mg	28249-77-6
Thiobenzamide		7981F	1g	2227-79-4
4.4-Thiobis(6-tert-butyl-m-cresol)		8943K	100mg	96-69-5
4.4′-Thiobis(2-tert-butyl-o-methylphenol) (TECH)		Ou-22	3g	96-66-2
Thiobis(di-sec-amylphenol) (TECH)		Ou-21	3g	R
4.4′-Thiobis(2.6-di-tert-butylphenol) (TECH)		Ou-23	1g	R
1,1′-Thiobis(2-naphthol)		2587L	1g	R
(2.2′-Thiobis(4-(1.1.3.3-tetramethylbutyl)phenol)ato(2.1)) (butylamine)nickel (TECH)		Ou-108	3g	R
2.2′-Thiobis[4-(1.1.3.3-tetramethylbutyl)phenol]nickel derivative (TECH)		Ou-109	3g	R
a-Thiocaprolactam		8945K	100mg	7203-96-5
Thiocarbamate Pesticides Mixture - 507	1000ug/ml in t-Butylmethyl ether	TCP-507M	5ml	
Thiocarbohydrazide		8947K	100mg	2231-57-4

Category Name	Specification	Catalog#	Size	CAS#
1.1′-Thiocarbonyldiimidazole		7975H	100mg	6160-65-2
Thiochroman-4-one		7985F	1g	3528-17-4
p-Thiocresol (R.G.)		8949K	1g	106-45-6
o-Thiocresol (R.G.)		8951K	100mg	137-06-4
DL-6,8-Thioctic acid (S.G.)		V-5	250mg	1077-28-7
2-(Thiocyanomethylthio)benzothiazole		PS-2021	10mg	21564-17-0
Thiodan*		PS-81	500mg	115-29-7
Thiodemeton*		PS-652	1g	298-04-4
4,4′-Thiodianiline (S.G.)		O-2400	500mg	139-65-1
Thiodicarb		PS-2012	250mg	59669-26-0
Thiodicarb Solution	100ug/ml in Acetonitrile	PS-2012AJS	1mL	
Thiodicarb Solution	100ug/ml in Toluene	PS-2012JS	1mL	
2.2′-Thiodiethanol		7980	10g	111-48-8
** Thiodiethyleneglycol see 7980 2.2-Thiodiethanol				
Thiodiglycolic acid		7991A	10g	123-93-3
4.4′-Thiodiphenol		7985B	1g	2664-63-3
Thiodiphenylamine		PS-733	1g	92-84-2
** Thiodiphenylamine see O-717 Phenothiazine				
3.3′-Thiodipropionic acid		7994B	10g	111-17-1
3.3′-Thiodipropionitrile		7995B	10g	111-97-7
Thio-2-furanpyruvic acid		8000H	1g	R
Thioglycolic acid (S.G.)		O-58	5g	68-11-1
2-Thiohydantion		2584L	500mg	503-87-7
Thiometon		PS-2233	50mg	640-15-3
Thiometon Solution	100ug/ml in Acetonitrile	PS-2233AJS	1mL	
Thiometon Solution	100ug/mL in Toluene	PS-2233JS	1mL	
Thionalide		2131L	100mg	93-42-5
Thionazin		PS-668	50mg	297-97-2
** Thionazin see F2152 Zinophos				
Thionazin-O-analog		MET-668A	50mg	R
Thionin/C.I.#52000		BS-81	1g	581-64-6
Thionyl chloride		I-6165	10g	7719-09-7
Thiophal*		PS-26	250mg	133-07-3
Thiophanate		PS-223	1g	23564-06-9
Thiophanate Solution	100ug/ml in Toluene	PS-223JS	1mL	
Thiophanate-methyl		PS-230	250mg	23564-05-8
Thiophanate-methyl Solution	100ug/ml in Acetonitrile	PS-230AJS	1mL	
Thiophene (S.G.)		F2466	2g	110-02-1
Thiophene Solution (S.G.)	100ug/mL in Benzene	F2466JS	1ml	
Thiophene (100ug/mL in Benzene) (S.G.)	100ug/mL in Benzene	F2466S	5ml	
Thiophene (S.G.)		O-721	2g	110-02-1
2-Thiopheneacetonitrile		8012F	1g	20893-30-5
b-(2-Thiophene)acrylic acid		8955K	10mg	15690-25-2
2-Thiophenecarboxaldehyde		8035H	1g	98-03-3
2-Thiophenecarboxylic acid		8020	5g	527-72-0
3-Thiophenecarboxylic acid		8957K	10mg	88-13-1
2-Thiophenecarboxylic acid hydrazide		8959K	100mg	2361-27-5
2.5-Thiophenedicarboxylic acid		8021E	100mg	R
2-Thiophenemethylamine		8961K	100mg	27757-85-3
Thiophos*		PS-95	500mg	56-38-2
Thiosan*		PS-24	1g	137-26-8
Thiosemicarbazide (S.G.)		O-393	2g	79-19-6
Thiosinamine		8038B	10g	109-57-9
Thiosulfuric acid S,S′-[2-(dimethylamino)-1,3-propanediyl]ester		PS-2184	250mg	52207-48-4
Thiosultap-sodium		PS-2184	250mg	52207-48-4
Thiotepp*		PS-2024	50mg	3689-24-5
2-Thiouracil		8025H	5g	141-90-2
Thiourea (S.G.)		O-988	5g	62-56-6
2-Thioxanthine		2611L	100mg	2487-40-3
Thiram		PS-24	1g	137-26-8
Thistrol*		PS-307	100mg	94-81-5
Thiurad*		PS-24	1g	137-26-8
Thorin 1		8029F	100mg	132-33-2
Thorium - 4% HNO3		X10M 59-1-100	100ml	
Thorium - 4% HNO3		X10M 59-1-250	250ml	
Thorium - 4% HNO3		X10M 59-1-500	500ml	
Thorium - Th02, 99.99%, 2% HNO3		X100059-1-A	100ml	
Thorium - Th02, 99.99%, 2% HNO3		X100059-1-B	250ml	
Thorium - Th02, 99.99%, 2% HNO3		X100059-1-C	500ml	
Thorium - Th02,99.99%,2% HCl		X100059-2-A	100ml	
Thorium - Th02,99.99%,2% HCl		X100059-2-B	250ml	

Category Name	Specification	Catalog#	Size	CAS#
Thorium - Th02,99.99%,2% HCl		X100059-2-C	500ml	
Thorium oxalate		I-7024	1g	
L-Threonine		2734L	250mg	72-19-5
DL-Threonine (R.G.)		AA-21	1g	80-68-2
Thulium - Tm2O3, 99.99%, 2% HNO3		X100060-1-A	100ml	
Thulium - Tm2O3, 99.99%, 2% HNO3		X100060-1-B	250ml	
Thulium - Tm2O3, 99.99%, 2% HNO3		X100060-1-C	500ml	
Thulium - Tm2O3,99.99%, 2% HCl		X100060-2-A	100ml	
Thulium - Tm2O3,99.99%, 2% HCl		X100060-2-B	250ml	
Thulium - Tm2O3,99.99%, 2% HCl		X100060-2-C	500ml	
Thullium - 10% HCl		X10M 60-2-100	100ml	
Thullium - 10% HCl		X10M 60-2-250	250ml	
Thullium - 10% HCl		X10M 60-2-500	500ml	
Thullium - 4% HNO3		X10M 60-1-100	100ml	
Thullium - 4% HNO3		X10M 60-1-250	250ml	
Thullium - 4% HNO3		X10M 60-1-500	500ml	
Thylate*		PS-24	1g	137-26-8
Thymidine		2593L	100mg	50-89-5
Thymine		2539L	200mg	65-71-4
Thymol		8040	10g	89-83-8
Thymolphthalein		8041F	1g	125-20-2
Thymolsulfonaphthalein		8037F	100mg	76-61-9
Thyodene (R.G.)		8040H	1g	9005-84-9
TIBA*		PS-561	1g	88-82-4
Tiglaldehyde		8039F	1g	497-03-0
Tiglic acid		8044F	1g	80-59-1
Tiguvon*		PS-655	250mg	55-38-9
Tillam*		PS-55	1g	1114-71-2
Tin metal		I-6190	10g	7440-31-5
Tin - 60% HCl		X10M 61-2-100	100ml	
Tin - 60% HCl		X10M 61-2-250	250ml	
Tin - 60% HCl		X10M 61-2-500	500ml	
Tin - Sn metal, 99.998%, 2% HNO3+0.5% HF		X100061-3-A	100ml	
Tin - Sn metal, 99.998%, 2% HNO3+0.5% HF		X100061-3-B	250ml	
Tin - Sn metal, 99.998%, 2% HNO3+0.5% HF		X100061-3-C	500ml	
Tin - Sn metal, 99.998%, 20% HCl		X100061-2-A	100ml	
Tin - Sn metal, 99.998%, 20% HCl		X100061-2-B	250ml	
Tin - Sn metal, 99.998%, 20% HCl		X100061-2-C	500ml	
Tin 5% HNO3 + 2% HF		X10M 61-3-100	100ml	
Tin 5% HNO3 + 2% HF		X10M 61-3-250	250ml	
Tin 5% HNO3 + 2% HF		X10M 61-3-500	500ml	
Tin (II) acetate		I-5940	1g	638-39-1
Tin (II) arsenate		I-5950	10g	15476-59-2
Tin (II) bromide		I-5960	5g	10031-24-0
Tin (II) chloride (dihydrate)		I-156	10g	10025-69-1
Tin (IV) chloride pentahydrate		I-155	10g	10026-06-9
Tin (II) iodide		I-5990	5g	10294-70-9
Tin Metallic - Organic Standard 1000ug/g in Mineral Oil		XSNOMS	100g	
Tin (II) octoate		I-6000	5g	1912-83-0
Tin oleate (TECH)		S-113	10g	R
Tin (II) oxalate		I-6010	10g	814-94-8
Tin (IV) oxide		I-6020	10g	18282-10-5
Tin Oxide (SnO3) 99.999%		XSN-O-A	5g	
Tin Oxide (SnO3) 99.999%		XSN-O-B	25g	
Tin Shot (Sn)		XSN-MS-A	5g	
Tin Shot (Sn)		XSN-MS-B	25g	
Tin (II) sulfate		I-6200	10g	7488-55-3
Titanium - 5% HNO3 + 2% HF		X10M 62-3-100	100ml	
Titanium - 5% HNO3 + 2% HF		X10M 62-3-250	250ml	
Titanium - 5% HNO3 + 2% HF		X10M 62-3-500	500ml	
Titanium - 40% HCl		X10M 62-2-250	250ml	
Titanium - 40% HCl		X10M 62-2-500	500ml	
Titanium - 40% HCl		X10M 62-2-100	100ml	
Titanium - Ti metal, 99.99%, 20% HCl		X100062-2-A	100ml	
Titanium - Ti metal, 99.99%, 20% HCl		X100062-2-B	250ml	
Titanium - Ti metal, 99.99%, 20% HCl		X100062-2-C	500ml	
Titanium - Ti metal,99.99%,2% HNO3 + 0.1% HF		X100062-3-A	100ml	
Titanium - Ti metal,99.99%,2% HNO3 + 0.1% HF		X100062-3-B	250ml	
Titanium - Ti metal,99.99%,2% HNO3 + 0.1% HF		X100062-3-C	500ml	
Titanium(IV)-n-butoxide		8969K	1g	5593-70-4

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Category Name	Specification	Catalog#	Size	CAS#
Titanium Granulars (Ti) 99.99%		XTI-MP-A	5g	
Titanium Granulars (Ti) 99.99%		XTI-MP-B	25g	
Titanium hydride		I-6270	1g	**7704-98-5**
Titanium Metallic - Organic Standard	1000ug/g in Mineral Oil	XTIOMS	100g	
Titanium (IV) oxide		I-6300	10g	**13463-67-7**
Titanium Oxide (TiO2) 99.998%		XTI-O-A	5g	
Titanium Oxide (TiO2) 99.998%		XTI-O-B	25g	
Titanium sulfate		I-161	10g	**13825-74-6**
Titanium tetrachloride		I-6535	5g	**7550-45-0**
Titanyl neodecanoate		8040F	1g	**R**
Titus*		PS-2118	100mg	**122931-48-0**
Tiuramyl*		PS-24	1g	**137-26-8**
TMTD*		PS-24	1g	**137-26-8**
Tobago*		PS-1004	500mg	**33629-47-9**
Tobaz*		PS-1057	1g	**148-79-8**
T-O-Biostat*		PS-282	1g	**56-35-9**
**** alpha-Tocopherol see V-19 Vitamin E**				
**** alpha-Tocopheryl acid succinate see V-20 Vitamin E acid succinate**				
TOK*		PS-394	100mg	**1836-75-5**
Tokuthion (TM) Solution	100ug/ml in Acetonitrile	PS-1094JS	1mL	
Tokuthion (TM) (S.G.)		F2070	100mg	**34643-46-4**
Tokuthion (TM) Solution (S.G.)	100ug/ml in Toluene	F2070JS	1ml	
Tokuthion (TM) (S.G.)	100ug/ml in Toluene	F2070S	5ml	
Tolban*		PS-399	1g	**26399-36-0**
Tolbutamide		8047F	100mg	**64-77-7**
Tolclofos-Methyl		PS-2156	500mg	**57018-04-9**
Tolclofos-Methyl Solution	100ug/ml in Acetonitrile	PS-2156AJS	1mL	
Tolclofos-Methyl Solution	100ug/ml in Toluene	PS-2156JS	1ml	
Tolfenpyrad		PS-2323	100mg	**129558-76-5**
o-Tolidine (S.G.)		F991	1g	**119-93-7**
o-Tolidine Solution (S.G.)	100ug/ml in Methanol	F991JS	1ml	
o-Tolidine (S.G.)	100ug/ml in Methanol	F991S	5ml	
o-Tolidine dihydrochloride		8043F	1g	**612-82-8**
Tolkan*		PS-2000	100mg	**34123-59-6**
o-Tolualdehyde (S.G.)		F2176	1g	**529-20-4**
o-Tolualdehyde Solution (S.G.)	1000ug/ml in Acetonitrile	F2176JS	1ml	
o-Tolualdehyde (S.G.)	1000ug/ml in Acetonitrile	F2176S	5ml	
o-Tolualdehyde (DNPH Derivative) (S.G.)		F2356	100mg	**1773-44-0**
o-Tolualdehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2356JS	1ml	
o-Tolualdehyde (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2356S	5ml	
m-Tolualdehyde (S.G.)		F2177	1g	**620-23-5**
m-Tolualdehyde Solution (S.G.)	1000ug/ml in Acetonitrile	F2177JS	1ml	
m-Tolualdehyde (1000 ug/ml in Acetonitrile) (S.G.)	1000 ug/ml in Acetonitrile	F2177S	5ml	
m-Tolualdehyde (DNPH Derivative) (S.G.)		F2355	100mg	**2880-05-9**
m-Tolualdehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2355JS	1ml	
m-Tolualdehyde (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2355S	5ml	
p-Tolualdehyde (S.G.)		F2181	500mg	**104-87-0**
p-Tolualdehyde Solution (S.G.)	1000ug/ml in Acetonitrile	F2181JS	1ml	
p-Tolualdehyde (S.G.)	1000ug/ml in Acetonitrile	F2181S	5ml	
p-Tolualdehyde (DNPH Derivative) (S.G.)		F2357	100mg	**2571-00-8**
p-Tolualdehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2357JS	1ml	
p-Tolualdehyde (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2357S	5ml	
p-Tolualdehyde (S.G.)		O-243	500mg	**104-87-0**
p-Toluamide		8971K	100mg	**619-55-6**
Toluene-d8 (S.G.)		F843	100mg	**2037-26-5**
Toluene (S.G.)		F86	5g	**108-88-3**
Toluene Solution (S.G.)	100ug/ml in Methanol	F86JS	1ml	
Toluene (S.G.)	100ug/ml in Methanol	F86S	5ml	
Toluene (methyl-13C) (S.G.)		FC86-1	1g	**R**
Toluene (methyl-13C) (S.G.)		FC86-B	0.5g	**R**
Toluene (methyl-d3) (S.G.)		FD86-1	1g	**R**
Toluene (methyl-d3) (S.G.)		FD86-5	5g	**R**
Toluene (ring-d5) (S.G.)		FD86A-1	1g	**R**
Toluene (ring-d5) (S.G.)		FD86A-5	5g	**R**
Toluene (S.G.)		O-775	5g	**108-88-3**

Category Name	Specification	Catalog#	Size	CAS#
Toluene-d8 (S.G.)	2000ug/ml in Methanol	F843AS	5ml	
Toluene-d8 Solution (S.G.)	2000ug/ml in Methylene chloride	F843JS	1ml	
Toluene-d8 (S.G.)	2000ug/ml in Methylene chloride	F843S	5ml	
**** 2.4-Toluenediamine see Ou-46 2,4-Diaminotoluene**				
Toluene-3.4-dithiol zinc salt		8048F	100mg	**29726-21-4**
p-Toluene sulfinic acid sodium salt		8060	10g	**824-79-3**
o-Toluenesulfonamide		8000J	1g	**88-19-7**
**** p-Toluenesulfonamide see 8080 p-Toluenesulfonylamide**				
Toluenesulfonamide (o&p) (TECH)		Pz-145	10g	**R**
p-(p-Toluenesulfonamide)-diphenylamine (TECH)		Ou-45	3g	**R**
p-Toluenesulfonhydrazide		8070	10g	**1576-35-8**
p-Toluenesulfonic acid (S.G.)		O-965	5g	**6192-52-5**
p-Toluene sulfonic acid silver salt		8052F	100mg	**16836-95-6**
p-Toluene sulfonic acid sodium salt		8050H	1g	**657-84-1**
p-Toluenesulfonyl amide		8080	10g	**70-55-3**
p-Toluenesulfonyl chloride (S.G.)		O-974	5g	**98-59-9**
N-(p-Toluene sulfonyl) glycine		8978K	10mg	**R**
**** p-Toluhydroquinone see 6256K Methylhydroquinone**				
o-Toluic acid		8110A	5g	**118-90-1**
m-Toluic acid		8110	10g	**99-04-7**
p-Toluic acid (S.G.)		O-92	2g	**99-94-5**
m-Toluic Acid diethylamide		PS-902	250mg	**134-62-3**
o-Toluidine (S.G.)		F1087	5g	**95-53-4**
o-Toluidine Solution (S.G.)	100ug/ml in Methanol	F1087JS	1ml	
o-Toluidine (S.G.)	100ug/ml in Methanol	F1087S	5ml	
o-Toluidine (S.G.)		O-354	10g	**95-53-4**
m-Toluidine (S.G.)		O-355	5g	**108-44-1**
p-Toluidine (S.G.)		O-356	5g	**106-49-0**
Toluidine blue O/C.I.#52040		BS-83	1g	**92-31-9**
o-Toluidine hydrochloride		8050J	1g	**636-21-5**
m-Toluidine hydrochloride		8120	10g	**638-03-9**
p-Toluidine hydrochloride		8122B	10g	**540-23-8**
6-(p-Toluidino)-2-naphthalenesulfonic acid, potassium salt		2746L	25mg	**32752-10-6**
p-Tolunitrile		8125E	1g	**104-85-8**
p-Tolyacetic acid		8133D	5g	**622-47-9**
o-Tolyl acetate (S.G.)		O-542	500mg	**533-18-6**
m-Tolyl acetate (S.G.)		O-543	500mg	**122-46-3**
p-Tolyl acetate (S.G.)		O-544	1g	**140-39-6**
m-Tolylacetic acid		8975K	100mg	**621-36-3**
o-Tolylacetic acid		8976K	100mg	**644-36-0**
p-Tolyl benzoate		8135B	5g	**R**
p-Tolyldisulfide		8070F	1g	**103-19-5**
Tolylene-2.4-diisocyanate (S.G.)		F2139	1g	**584-84-9**
Tolylene-2.4-diisocyanate (S.G.)		O-404	1g	**584-84-9**
Tolylfluanid		PS-2060	250mg	**731-27-1**
Tolylfluanid Solution	100ug/ml in Acetonitrile	PS-2060AJS	1mL	
Tolylfluanid Solution	100ug/ml in Toluene	PS-2060JS	1ml	
2.2'-m-Tolyliminodiethanol		8139B	10g	**91-99-6**
o-Tolyl isocyanate		8077F	100mg	**614-68-6**
m-Tolyl isocyanate		8140B	5g	**621-29-4**
p-Tolylmercuric chloride		8090F	1g	**539-43-5**
m-Tolyl methylcarbamate		PS-2096	100mg	**1129-41-5**
2-Tolyloxyacetophenone		8077H	1g	**R**
3-(o-Tolyloxy)-1.2-propanediol		8081F	1g	**59-47-2**
N-m-Tolylphthalamic acid		PS-50	1g	**85-72-3**
N-m-Tolylphthalamic acid Solution	100ug/ml in Acetonitrile	PS-50AJS	1mL	
N-m-Tolylphthalamic acid Solution	100ug/ml in MTBE	PS-50JS	1mL	
p-Tolyl sulfone		8144E	1g	**R**
p-Tolyl sulfoxide		8143B	10g	**1774-35-2**
o-Tolylthiosemicarbazide		8095F	1g	**R**
Topaz*		PS-2207	100mg	**66246-88-6**
Topramezone		PS-2318	100mg	**210631-68-8**
Topsin E		PS-223	1g	**23564-06-9**
Topsin M*		PS-230	250mg	**23564-05-8**
Tordon*		PS-274	250mg	**1918-02-1**

Category Name	Specification	Catalog#	Size	CAS#
Tornado*		PS-2117	250mg	**41394-05-2**
Toro*		PS-2078	250mg	**15545-48-9**
Torque*		PS-1060	250mg	**13356-08-6**
Torus*		PS-2174	100mg	**79127-80-3**
N-a-p-Tosyl-L-arginine methyl ester hydrochloride		2590L	500mg	**1784-03-8**
Tough*		PS-2081	500mg	**55512-33-9**
Toxakil*		PS-79	250mg	**8001-35-2**
Toxaphene (TM) (S.G.)		F106	250mg	**8001-35-2**
Toxaphene (TM) Solution (S.G.)	2500ug/ml in Acetone	F106AJS	1ml	
Toxaphene (TM) (S.G.)	2500ug/ml in Acetone	F106AS	5ml	
Toxaphene (TM) Solution (S.G.)	100ug/ml in Methanol	F106JS	1ml	
Toxaphene (TM) (S.G.)	100ug/ml in Methanol	F106S	5ml	
Toxaphene & Chlordane		PP-7S	KIT	
Toxaphene & Chlordane - Neat		PP-7N	KIT	
Toxaphene (TM) Solution (S.G.)	1000ug/ml in Hexane	F106BJS	1ml	
Toxaphene (TM) (S.G.)	1000ug/ml in Hexane	F106BS	5ml	
Toxichlor*		PS-75	250mg	**57-74-9**
2.4.5-TP*		PS-47	250mg	**93-72-1**
2,4,5-TP methyl ester		PS-342	250mg	**4841-20-7**
TPTA		PS-1021	250mg	**900-95-8**
TPTH		PS-1031	250mg	**76-87-9**
TPTOH		PS-1031	250mg	**76-87-9**
Trace Metals on Filter Media - High Concentration		XQC-TMFM-C	KIT	
Trace Metals on Filter Media - Low Concentrations		XQC-TMFM-A	KIT	
Trace Metals on Filter Media - Medium Concentration		XQC-TMFM-B	KIT	
Tracemetals in drinking water (Varied Conc in 2% HNO3+Tr HF)		XCRM-TMDW-A	100ml	
Tracemetals in drinking water (Varied Conc in 2% HNO3+Tr HF)		XCRM-TMDW-B	250ml	
Tracemetals in drinking water (Varied Conc in 2% HNO3+Tr HF)		XCRM-TMDW-C	500ml	
Tracemetals in Fish(in 5% HNO3)		XCRM-TMF	250ml	
Tracer Naturalyte*		PS-2211	100mg	**168316-95-8**
Tracker*		PS-2115	100mg	**66841-25-6**
Tralate*		PS-2115	100mg	**66841-25-6**
Tralkoxydim		PS-2135	500mg	**87820-88-0**
Tralkoxydim Solution	100ug/ml in Acetonitrile	PS-2135AJS	1mL	
Tralkoxydim Solution	100ug/ml in Toluene	PS-2135JS	1mL	
Tralomethrin		PS-2115	100mg	**66841-25-6**
Tralomethrin Solution	100ug/ml in Acetonitrile	PS-2115AJS	1mL	
Tralomethrin Solution	100ug/ml in MTBE	PS-2115JS	1mL	
Tralox*		PS-2115	100mg	**66841-25-6**
Tramat*		PS-1045	250mg	**26225-79-6**
Transfluthrin		PS-2340	100mg	**118712-89-3**
Transformer Oil (S.G.)		F2442	5g	**64742-53-6**
trans-Heptachlor epoxide (Isomer A)		PS-700-1	50mg	**28044-83-9**
Trans-meta-Phenoxybenzyl		PS-758-2	50mg	**61949-77-7**
trans-Methacrifos		PS-2218	100mg	**30864-28-9**
trans-Permethrin (Isomeric Mix) Solution (100ug/ml in Acetonitrile) (S.G.)				
	100ug/ml in MTBE	PS-758-2JS	1mL	
Treflan*		PS-393	1g	**1582-09-8**
Trehalose		CARB-21	1g	**99-20-7**
Trelka*	100ug/ml in Toluene	PS-1213	5ml	**24017-47-8**
Tri-6		PS-71	500mg	**58-89-9**
Tri(n-octyldecyl)acetyl citrate (S.G.)		Pz-610	10g	**R**
Tri(n-octyldecyl)acetyl citrate (S.G.)		Pz-610	10g	**R**
Triacetin (S.G.)		O-498	10g	**102-76-1**
1,3,5-Triacetylbenzene		2605L	1g	
n-Triacontane (S.G.)		F2297	100mg	**638-68-6**
n-Triacontane Solution (S.G.)	1000ug/ml in Benzene	F2297JS	1ml	
n-Triacontane (1000ug/ml in Benzene) (S.G.)	1000ug/ml in Benzene	F2297S	5ml	
n-Triacontane (d62) (S.G.)		FD2297-B	0.5g	**R**
n-Triacontane (S.G.)		O-2268	100mg	**638-68-6**
Triacontanoic acid		2722L	10mg	**506-50-3**
Triadimefon		PS-1013	500mg	**43121-43-3**
Triadimefon Solution	100ug/ml in Acetonitrile	PS-1013AJS	1mL	
Triadimefon (S.G.)		F2218	500mg	**43121-43-3**
Triadimefon Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2218JS	1ml	
Triadimefon (S.G.)	100ug/ml in t-Butylmethyl ether	F2218S	5ml	
Triadimenol		PS-1064	250mg	**55219-65-3**

Category Name	Specification	Catalog#	Size	CAS#
Triadimenol		PS-1064	250mg	**55219-65-3**
Tri-allate		PS-506	1g	**2303-17-5**
Tri-allate Solution	100ug/ml in Acetonitrile	PS-506AJS	1mL	
Tri-allate Solution	100ug/ml in Isoocatne	PS-506JS	1mL	
Triallylamine (S.G.)		O-295	500mg	**102-70-5**
Triaminoguanidine nitrate		8198F	1g	**R**
2.4.6-Triaminopyrimidine		8175E	1g	**1004-38-2**
4.5.6-Triamino pyrimidine monosulfate		8199F	100mg	**49721-45-1**
Triamylamine		8200F	1g	**621-77-2**
Triasulfuron		PS-2042	100mg	**82097-50-5**
Triasulfuron Solution	100ug/ml in Acetonitrile	PS-2042AJS	1mL	
Triasulfuron Solution	100ug/ml in Toluene	PS-2042JS	1mL	
Triazine*		PS-388	250mg	**101-05-3**
Triazine Herbicides Mixture - 8141A	200ug/ml in Acetone	TH8141-1M	5ml	
Triazine Pesticides Mixture - 619	500ug/ml in Acetone	TP619-1M	5ml	
1.2.4-Triazole		MET-1075A	1g	**288-88-0**
****1.2.4-Triazole see MET-1075A in Pesticide Catalog**				
1.2.4-Triazole sodium derivative		8981K	10mg	**41253-21-8**
Triazophos (S.G.)	100ug/ml in Toluene	PS-1213	5ml	**24017-47-8**
Triazophos		PS-2139	100mg	**24017-47-8**
Triazophos Solution	100ug/ml in Acetonitrile	PS-2139AJS	1mL	
Triazophos Solution	100ug/ml in Toluene	PS-2139JS	1ml	
Tri-Ban*		PS-905	250mg	**83-26-1**
Tribenuron methyl		PS-2099	250mg	**101200-48-0**
Tribenuron methyl Solution	100ug/ml in Acetonitrile	PS-2099AJS	1mL	
Tribenuron methyl Solution	100ug/ml in Toluene	PS-2099JS	1mL	
Tribenzylamine (S.G.)		O-357	2g	**620-40-6**
Tribromoacetic acid (S.G.)		F2510	1g	**75-96-7**
Tribromoacetic acid Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2510JS	1ml	
Tribromoacetic acid (S.G.)	100ug/ml in t-Butylmethyl ether	F2510S	5ml	
2.4.6-Tribromoaniline		8183E	10g	**147-82-0**
1.3.5-Tribromobenzene (S.G.)		F1095	5g	**626-39-1**
1.3.5-Tribromobenzene Solution (S.G.)	100ug/ml in Hexane	F1095JS	1ml	
1.3.5-Tribromobenzene (S.G.)	100ug/ml in Hexane	F1095S	5ml	
2.2′.5-Tribromobiphenyl (S.G.)		8162G	10mg	**59080-34-1**
2.2′.5-Tribromobiphenyl (S.G.)	100ug/ml in Hexane	8162GS	2ml	
2.3′.5-Tribromobiphenyl (S.G.)		8163G	10mg	**R**
2.3′.5-Tribromobiphenyl (S.G.)	100ug/ml in Hexane	8163GS	2ml	
2.4.5-Tribromobiphenyl (S.G.)		8165G	10mg	**115245-07-3**
2.4.5-Tribromobiphenyl (S.G.)	100ug/ml in Hexane	8165GS	2ml	
2.4′.5-Tribromobiphenyl (S.G.)		8164G	10mg	**59080-36-3**
2.4′.5-Tribromobiphenyl (S.G.)	100ug/ml in Hexane	8164GS	2ml	
2.4.6-Tribromobiphenyl (S.G.)		8160G	15mg	**59080-33-0**
2.4.6-Tribromobiphenyl (S.G.)	100ug/ml in Hexane	8160GS	2ml	
3.4.5-Tribromobiphenyl (S.G.)		8166G	10mg	**115245-08-4**
3.4.5-Tribromobiphenyl (S.G.)	100ug/ml in Hexane	8166GS	2ml	
2.2.2-Tribromoethanol		8985K	1g	**75-80-9**
Tribromoneopentyl alcohol		8203F	5g	**R**
2,4,6-Tribromophenol (S.G.)		F844	5g	**118-79-6**
2,4,6-Tribromophenol Solution (S.G.)	2000ug/ml in Methylene chloride	F844JS	1ml	
2,4,6-Tribromophenol (S.G.)	2000ug/ml in Methylene chloride	F844S	5ml	
Tribromophenyl acetate		8185C	10g	**R**
Tribromophenyl allyl ether		8186C	10g	**R**
1.2.3-Tribromopropane		8190	10g	**96-11-7**
2.4.6-Tribromoresorcinol		8204H	500mg	**2437-49-2**
Tribufos		PS-562	250mg	**78-48-8**
Tribunil*		PS-2048	100mg	**18691-97-9**
Tributoxyethyl phosphate (TECH)		Pz-84	10g	**78-51-3**
Tributylamine (S.G.)		O-296	10g	**102-82-9**
1.3.5-Tri-tert-butylbenzene		8987K	10mg	**1460-02-2**
Tributyl borate		8200E	10g	**688-74-4**
Tri-tert-butyl borate		8201F	1g	**7397-43-5**
Tributyl citrate (S.G.)		O-511	10g	**77-94-1**
Tributyl citrate (TECH)		Pz-73	10g	**77-94-1**
Tributyl[2.4-dichlorobenzyl]phosphonium chloride		PS-67	50mg	**115-78-6**
Tributyl phosphate (S.G.)		F2191	5g	**126-73-8**
Tributyl phosphate Solution (S.G.)	2000ug/ml in Acetone	F2191JS	1ml	

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Tributyl phosphate (S.G.)	2000ug/ml in Acetone	F2191S	5ml	
Tributyl phosphate (S.G.)		O-916	10g	**126-73-8**
Tributyl phosphate (TECH)		Pz-81	10g	**126-73-8**
Tributyl phosphine		8210B	10g	**998-40-3**
Tributyl phosphite (S.G.)		O-917	2g	**102-85-2**
S,S,S-Tributyl phosphorotrithioate		PS-562	250mg	**78-48-8**
S.S.S-Tributylphosphorotrithioate Solution	100ug/ml in Acetonitrile	PS-562AJS	1mL	
S,S,S-Tributyl phosphorotrithioate (S.G.)		F2214	250mg	**78-48-8**
S.S.S-Tributylphosphoro trithioate Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2214JS	1ml	
Tributylphosphorotrithioate (S.G.)	100ug/ml in t-Butylmethyl ether	F2214S	5ml	
Tributylphosphoro-trithioite		PS-68	250mg	**150-50-5**
Tributylphosphorotrithioite (S.G.)		F2065	1g	**150-50-5**
Tributyltin acetate (R.G.)		8210F	1g	**56-36-0**
Tributyltin chloride (S.G.)		F2909	250mg	**1461-22-9**
Tributyltin fluoride (R.G.)		8214F	1g	**1983-10-4**
Tri-n-butyltin methoxide		8219F	1g	**1067-52-3**
Tributyrin (S.G.)		O-500	5g	**60-01-5**
**** Tricalcium phosphate see I-37 Calcium phosphate tribasic**				
Trichlorfon		PS-608	1g	**52-68-6**
**** Trichlorfon see F2215 Dylox**				
N-(Trichlormethylthio)phthalimide		PS-26	250mg	**133-07-3**
2.2.2-Trichloroacetamide		8220	1g	**594-65-0**
2.2.2-Trichloroacetamide		8220	1g	**R**
Trichloroacetic acid		PS-34	1g	**76-03-9**
Trichloroacetic acid (S.G.)		F2084	1g	**76-03-9**
Trichloroacetic acid Solution (S.G.)	100ug/ml in tert-Butyl methy ether	F2084JS	1ml	
Trichloroacetic acid (S.G.)	100ug/ml in t-Butylmethyl ether	F2084S	5ml	
Trichloroacetic acid (S.G.)		O-46	5g	**76-03-9**
Trichloroacetonitrile (S.G.)		F2076	5g	**545-06-2**
Trichloroacetonitrile Solution (S.G.)	100ug/ml in Acetone	F2076JS	1ml	
Trichloroacetonitrile (S.G.)	100ug/ml in Acetone	F2076S	5ml	
2.2′.4-Trichloroacetophenone		8995K	100mg	**4252-78-2**
S-(2.3.3-Trichloroallyl)diisopropyl thiocarbamate		PS-506	1g	**2303-17-5**
2.3.3-Trichloroallyl-N.N-diisopropylthiolcarbamate		PS-506	1g	**2303-17-5**
2.3.4-Trichloroanaline		8997K	100mg	**634-67-3**
2.4.5-Trichloroaniline (S.G.)		F2509	5g	**636-30-6**
2.4.5-Trichloroaniline Solution (S.G.)	1000ug/ml in Toluene	F2509JS	1ml	
2.4.5-Trichloroaniline (S.G.)	1000ug/ml in Toluene	F2509S	5ml	
2.4.6-Trichloroaniline (S.G.)		F2508	5g	**634-93-5**
2.4.6-Trichloroaniline Solution (S.G.)	1000ug/ml in Toluene	F2508JS	1ml	
2.4.6-Trichloroaniline (S.G.)	1000ug/ml in Toluene	F2508S	5ml	
3.4.5-Trichloroaniline		8999K	10mg	**634-91-3**
2,4,6-Trichloroanisole (S.G.)		F2078	100mg	**87-40-1**
2,4,6-Trichloroanisole Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2078JS	1ml	
2,4,6-Trichloroanisole (S.G.)	100ug/ml in t-Butylmethyl ether	F2078S	5ml	
1.2.3-Trichlorobenzene (S.G.)		F831	1g	**87-61-6**
1.2.3-Trichlorobenzene (d3) (S.G.)		FD831-A	0.1g	**R**
1.2.3-Trichlorobenzene Solution (S.G.)	100ug/ml in Methanol	F831JS	1ml	
1.2.3-Trichlorobenzene (S.G.)	100ug/ml in Methanol	F831S	5ml	
1.2.4-Trichlorobenzene (S.G.)		F8	1g	**120-82-1**
1.2.4-Trichlorobenzene Solution (S.G.)	100ug/ml in Methanol	F8JS	1ml	
1.2.4-Trichlorobenzene (S.G.)	100ug/ml in Methanol	F8S	5ml	
1.2.4-Trichlorobenzene (d3) (S.G.)		FD8-1	1g	**R**
1.2.4-Trichlorobenzene (d3) (S.G.)		FD8-5	5g	**R**
1.2.4-Trichlorobenzene (d3) (S.G.)		FD8-A	0.1g	**R**
1.2.4-Trichlorobenzene (S.G.)		O-689	10g	**120-82-1**
1.3.5-Trichlorobenzene (S.G.)		F2050	1g	**108-70-3**
1.3.5-Trichlorobenzene Solution (S.G.)	10,000ug/ml in Methylene chloride	F2050AJS	1ml	
1.3.5-Trichlorobenzene (S.G.)	10,000ug/ml in Methylene chloride	F2050AS	5ml	
1.3.5-Trichlorobenzene Solution (S.G.)	100ug/ml in Hexane	F2050JS	1ml	
1.3.5-Trichlorobenzene (S.G.)	100ug/ml in Hexane	F2050S	5ml	
1.3.5-Trichlorobenzene (d3) (S.G.)		FD2050-1	1g	**R**
2.3.6-Trichlorobenzoic acid		PS-330	1g	**50-31-7**
2.3.6-Trichlorobenzoic acid Solution	100ug/ml in Acetonitrile	PS-330AJS	1mL	
2.3.6-Trichlorobenzoic acid Solution	100ug/ml in MTBE	PS-330JS	1mL	

Category Name	Specification	Catalog#	Size	CAS#
2,2′,3-Trichlorobiphenyl (S.G.)		9002G	5mg	**38444-78-9**
2,2′,3-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9002GS	2ml	
2.2′.5-Trichlorobiphenyl (S.G.)		8230G	25mg	**37680-65-2**
2.2′.5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8230GS	2ml	
2,2′,6-Trichlorobiphenyl (S.G.)		9003G	5mg	**38444-73-4**
2,2′,6-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9003GS	2ml	
2,3,3′-Trichlorobiphenyl (S.G.)		9004G	5mg	**38444-84-7**
2,3,3′-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9004GS	2ml	
2.3.4-Trichlorobiphenyl (S.G.)		8231G	25mg	**55702-46-0**
2.3.4-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8231GS	2ml	
2,3,4′-Trichlorobiphenyl (S.G.)		9005G	5mg	**38444-85-8**
2,3,4′-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9005GS	2ml	
2.3.6-Trichlorobiphenyl (S.G.)		8234G	5mg	**58702-45-9**
2.3.6-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8234GS	2ml	
2,3′,4-Trichlorobiphenyl (S.G.)		9006G	5mg	**55712-37-3**
2,3′,4-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9006GS	2ml	
2.3′.5-Trichlorobiphenyl (S.G.)		8233G	25mg	**38444-81-4**
2.3′.5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8233GS	2ml	
2,3′,6-Trichlorobiphenyl (S.G.)		9008G	5mg	**38444-76-7**
2,3′,6-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9008GS	2ml	
2.4.4′-Trichlorobiphenyl (S.G.)		8235G	10mg	**7012-37-5**
2.4.4′-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8235GS	2ml	
2.4.5-Trichlorobiphenyl (S.G.)		8236G	50mg	**15862-07-4**
2.4.5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8236GS	2ml	
2.4.6-Trichlorobiphenyl (S.G.)		8238G	50mg	**35693-92-6**
2.4.6-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8238GS	2ml	
2.4′.5-Trichlorobiphenyl (S.G.)		8237G	25mg	**16606-02-3**
2.4′.5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8237GS	2ml	
2′.3.4-Trichlorobiphenyl (S.G.)		8232G	10mg	**38444-86-9**
2′.3.4-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	8232GS	2ml	
2′,3,5-Trichlorobiphenyl (S.G.)		9007G	5mg	**37680-68-5**
2′,3,5-Trichlorobiphenyl (S.G.)	100ug/ml in Isooctane	9007GS	2ml	
3,3′,4-Trichlorobiphenyl (S.G)		9009G	5mg	**37680-69-6**
3,3′,4-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9009GS	2ml	
3,3′,5-Tricholorbiphenyl (S.G)		9010G	5mg	**38444-87-0**
3,3′,5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9010GS	2ml	
3,4,4′-Trichlorobiphenyl (S.G.)		9011G	5mg	**38444-90-5**
3,4,4′-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9011GS	2ml	
3,4,5-Trichlorobiphenyl (S.G)		9012G	5mg	**53555-66-1**
3,4,5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9012GS	2ml	
3,4′,5-Trichlorobiphenyl (S.G)		9013G	5mg	**33444-88-1**
3,4′,5-Trichlorobiphenyl (S.G.)	100ug/ml in Hexane	9013GS	2ml	
2.2′.5′-Trichloro-4-biphenylol (S.G.)		8240G	10mg	**R**
2′.3.5′-Trichloro-2-biphenylol (S.G.)		8241G	10mg	**R**
2′.5.5′-Trichloro-2-biphenylol (S.G.)		8243G	10mg	**R**
3.4′.5-Trichloro-4-biphenylol (S.G.)		8244G	5mg	**R**
1.1.1-Trichloro-2.2-bis(p-chlorophenyl)ethane		PS-699	1g	**50-29-3**
1.1.1-Trichloro-2.2-bis(p-methoxyphenyl)ethane		PS-83	250mg	**72-43-5**
4.4.4-Trichlorobutylene oxide		8240J	1g	**3083-25-8**
1.1.1-Trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane		PS-698	50mg	**789-02-6**
1.2.4-Trichlorodibenzo-p-dioxin (S.G.)		8225G	5mg	**39227-58-2**
1.2.4-Trichlorodibenzo-p-dioxin (S.G.)	50ug/ml in Toluene	8225GS	1ml	
1.1.1-Trichloro-2.2-di(4-chlorophenyl)ethane		PS-74	250mg	**8017-34-3**
1.1.1-Trichloroethane (S.G.)		F11	100mg	**71-55-6**
1.1.1-Trichloroethane Solution (S.G.)	100ug/ml in Methanol	F11JS	1ml	
1.1.1-Trichloroethane (S.G.)	100ug/ml in Methanol	F11S	5ml	
1.1.1-Trichloroethane (2,2,2-d3) (S.G.)		FD11-1	1g	**R**
1.1.1-Trichloroethane (2,2,2-d3) (S.G.)		FD11-A	0.1g	**R**
1.1.1-Trichloroethane (S.G.)		O-652	100mg	**71-55-6**
1.1.2-Trichloroethane (S.G.)		F14	5g	**79-00-5**
1.1.2-Trichloroethane Solution (S.G.)	100ug/ml in Methanol	F14JS	1ml	
1.1.2-Trichloroethane (S.G.)	100ug/ml in Methanol	F14S	5ml	
1.1.2-Trichloroethane (13C2) (S.G.)		FC14-A	0.1g	**R**
1.1.2-Trichloroethane (1,2,2-d3) (S.G.)		FD14-A	0.1g	**R**
1.1.2-Trichloroethane (1,2,2-d3) (S.G.)		FD14-B	0.5g	**R**

Category Name	Specification	Catalog#	Size	CAS#
1.1.2-Trichloroethane (S.G.)		O-653	10g	79-00-5
2.2.2-Trichloroethanol		8235C	10g	115-20-8
Trichloroethene (S.G.)		F87	5g	79-01-6
Trichloroethene Solution (S.G.)	100ug/ml in Methanol	F87JS	1ml	
Trichloroethene (S.G.)	100ug/ml in Methanol	F87S	5ml	
Trichloroethene (13C2) (S.G.)		FC87-A	0.1g	R
Trichloroethene (d) (S.G.)		FD87-1	1g	R
Trichloroethene (S.G.)		O-664	10g	79-01-6
2.2.2-Trichloro-1-ethoxyethanol		8244B	5g	515-83-3
** Trichloroethylene see F87 Trichloroethene				
(R)-1,2-O-(2,2,2-Trichloroethylidene)-a-D-glucofuranose		PS-2112	250mg	15879-93-3
Trichlorofluoromethane (S.G.)		F49	1g	75-69-4
Trichlorofluoromethane Solution (S.G.)	100ug/ml in Methanol	F49JS	1ml	
Trichlorofluoromethane (S.G.)	100ug/ml in Methanol	F49S	5ml	
(2,2,2-Trichloro-1-hydroxyethyl)phosphonic acid dimethyl ester		PS-608	1g	52-68-6
Trichloromelamine		8248C	10g	7673-09-8
Trichloromethanesulfonyl chloride (S.G.)		O-975	500mg	2547-61-7
Trichloromethanethiol		PS-224	1g	594-42-3
Trichloromethylchloroformate		9005K	10mg	503-38-8
1.1.1-Trichloro-2-methyl-2-propanol		8245B	10g	57-15-8
1.1.1-Trichloro-2-methyl-2-propanol hydrate		9007K	1g	6001-64-5
N-(Trichloromethylthio)-4-cyclohexene-1.2-dicarboximide		PS-25	250mg	133-06-2
Trichloronate		PS-2007	100mg	327-98-0
Trichloronate Solution	100ug/ml in Acetonitrile	PS-2007AJS	1mL	
Trichloronate (S.G.)		F2222	100mg	327-98-0
Trichloronate Solution (S.G.)	100ug/ml in Isopropanol	F2222JS	1ml	
Trichloronate (100ug/ml in Isopropanol) (S.G.)	100ug/ml in Isopropanol	F2222S	5ml	
1.2.3-Trichloro-4-nitrobenzene		9009K	100mg	17700-09-3
1.2.4-Trichloro-5-nitrobenzene		8250	1g	89-69-0
** 2.4.5-Trichloronitrobenzene see 8250 1.2.4-Trichloro-5-nitrobenzene				
2.4.6-Trichloronitrobenzene		9012K	10mg	18708-70-8
Trichloronitromethane		PS-4	1g	76-06-2
** Trichloronitromethane see F2023 Chloropicrin				
2.3.4-Trichlorophenol Solution (S.G.)	1000ug/ml in Isopropanol	F2298JS	1ml	
2.3.4-Trichlorophenol (1000ug/ml in Isopropanol) (S.G.)	1000ug/ml in Isopropanol	F2298S	5ml	
2.3.5-Trichlorophenol (S.G.)		F2299	50mg	933-78-8
2.3.5-Trichlorophenol Solution (S.G.)	1000ug/ml in Isopropanol	F2299JS	1ml	
2.3.5-Trichlorophenol (1000ug/ml in Isopropanol) (S.G.)	1000ug/ml in Isopropanol	F2299S	5ml	
2.3.6-Trichlorophenol (S.G.)		F2300	250mg	933-75-5
2.3.6-Trichlorophenol Solution (S.G.)	1000ug/ml in Isopropanol	F2300JS	1ml	
2.3.6-Trichlorophenol (1000ug/ml in Isopropanol) (S.G.)	1000ug/ml in Isopropanol	F2300S	5ml	
2.4.5-Trichlorophenol (S.G.)		O-893	2g	95-95-4
2.4.5-Trichlorophenol		PS-9	1g	95-95-4
2.4.5-Trichlorophenol (S.G.)		F717	2g	95-95-4
2.4.5-Trichlorophenol Solution (S.G.)	100ug/ml in Hexane	F717AJS	1ml	
2.4.5-Trichlorophenol (S.G.)	100ug/ml in Hexane	F717AS	5ml	
2.4.5-Trichlorophenol Solution (S.G.)	100ug/ml in Methanol	F717JS	1ml	
2.4.5-Trichlorophenol (S.G.)	100ug/ml in Methanol	F717S	5ml	
2.4.5-Trichlorophenol (13C6) (S.G.)	100ug/ml in Methanol	FC717-1	1ml	R
2.4.5-Trichlorophenol (ring-d2) (S.G.)		FD717-A	0.1g	R
2.4.5-Trichlorophenol ethanolamine salt		PS-437	250mg	R
2.4.5-Trichlorophenol ethanolamine salt Solution	100ug/ml in H2O	PS-437AJS	1mL	
2.4.5-Trichlorophenol ethanolamine salt Solution	100ug/ml in Toluene	PS-437JS	1mL	
2.4.6-Trichlorophenol (S.G.)		F21	5g	88-06-2
2.4.6-Trichlorophenol Solution (S.G.)	100ug/ml in Methanol	F21JS	1ml	
2.4.6-Trichlorophenol (S.G.)	100ug/ml in Methanol	F21S	5ml	
2.4.6-Trichlorophenol (13C6) 100ug/ml in Methanol (S.G.)	100ug/ml in Methanol	FC21-1	1ml	R
2.4.6-Trichlorophenol (13C6) Solution (S.G.)	100ug/ml in Hexane	FC21S	1ml	
2.4.6-Trichlorophenol (ring-d2) (S.G.)		FD21-A	0.1g	R
2.4.6-Trichlorophenol (ring-d2) (S.G.)		FD21-E	0.01g	R
2.4.6-Trichlorophenol (S.G.)		O-894	5g	88-06-2
2.4.6-Trichlorophenol		PS-10	1g	88-06-2

Category Name	Specification	Catalog#	Size	CAS#
3,4,5-Trichlorophenol (S.G.)		O-2347	50mg	609-19-8
(2.4.5-Trichlorophenoxy) acetic acid (S.G.)		O-101	250mg	93-76-5
(2.4.5-Trichlorophenoxy)acetic acid		PS-45	250mg	93-76-5
** (2.4.5-Trichlorophenoxy)acetic acid see also F972 2,4,5-T				
(2.4.5-Trichlorophenoxy)acetic acid butoxypolypropylene glycol ester		PS-334	1g	R
(2.4.5-Trichlorophenoxy)acetic acid butoxypolypropylene glycol ester Solution	100ug/ml in Acetonitrile	PS-334AJS	1mL	
(2.4.5-Trichlorophenoxy)acetic acid butoxypolypropylene glycol ester Solution	100ug/ml in MTBE	PS-334JS	1mL	
(2,4,5-Trichlorophenoxy)acetic acid butoxyethyl ester		PS-309	1g	2545-59-7
(2,4,5-Trichlorophenoxy)acetic acid n-butyl ester		PS-303	1g	93-79-8
(2.4.5-Trichlorophenoxy)acetic acid isooctyl ester (3, 4 or 5-		PS-297	100mg	25168-15-4
(2,4,5-Trichlorophenoxy)acetic acid isopropyl ester		PS-46	100mg	93-78-7
(2.4.5-Trichlorophenoxy)acetic acid methyl ester		PS-339	250mg	1928-37-6
(2.4.5-Trichlorophenoxy)acetic acid methyl ester (S.G.)		F973	250mg	1928-37-6
(2.4.5-Trichlorophenoxy)acetic acid methyl ester Solution (S.G.)	100ug/ml in Methanol	F973JS	1ml	
(2.4.5-Trichlorophenoxy)acetic acid methyl ester (S.G.)	100ug/ml in Methanol	F973S	5ml	
(2.4.5-Trichlorophenoxy)acetic acid triethyl amine salt		PS-296	1g	R
2-(2.4.5-Trichlorophenoxy)propionic acid		PS-47	250mg	93-72-1
(2,4,5-Trichlorophenoxy)propionic acid 2-ethylhexyl ester		PS-329	1g	R
(2.4.5-Trichlorophenoxy)propionic acid isooctyl ester		PS-329	1g	R
2-(2,4,5-Trichlorophenoxy)propionic acid methyl ester		PS-342	250mg	4841-20-7
2.3.6-Trichlorophenylacetic acid		PS-308	250mg	85-34-7
2.4.6-Trichlorophenylhydrazine		9014K	100mg	5329-12-4
N-2,6-Trichloro-p-quinoneimine		3232L	100mg	101-38-2
1.2.3-Trichloropropane (S.G.)		F814	2g	96-18-4
1.2.3-Trichloropropane (d5) (S.G.)		FD814-A	0.1g	R
1.2.3-Trichloropropane (S.G.)		O-654	2g	96-18-4
1.2.3-Trichloropropane Solution (S.G.)	1000ug/ml in t-Butylmethyl ether	F814AJS	1ml	
1.2.3-Trichloropropane (S.G.)	1000ug/ml in t-Butylmethyl ether	F814AS	5ml	
1.2.3-Trichloropropane Solution (S.G.)	100ug/ml in Methanol	F814JS	1ml	
1.2.3-Trichloropropane (S.G.)	100ug/ml in Methanol	F814S	5ml	
1,1,1-Trichloro-2-propanol (S.G.)		O-2319	100mg	76-00-6
1,1,1-Trichloro-2-propanone (S.G.)		F2027	1g	918-00-3
1,1,1-Trichloro-2-propanone Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2027JS	1ml	
1,1,1-Trichloro-2-propanone (100ug/ml in tert-Butyl methyl ether) (S.G.)	100ug/ml in t-Butylmethyl ether	F2027S	5ml	
1.2.3-Trichloropropene		8245F	1g	96-19-5
3,5,6-Trichloro-2-pyridinol		MET-674A	250mg	6515-38-4
[(3.5.6-Trichloro-2-pyridinyl)oxy]acetic acid		PS-417	500mg	55335-06-3
[(3,5,6-Trichloro-2-pyridinyl)oxy]acetic acid methyl ester		PS-1110	100mg	R
3.5.6-Trichlorosalicylic acid		9018K	10mg	40932-60-3
a.a.a-Trichlorotoluene (S.G.)		F2047	5g	98-07-7
a.a.a-Trichlorotoluene Solution (S.G.)	100ug/ml in Hexane	F2047JS	1ml	
a.a.a-Trichlorotoluene (S.G.)	100ug/ml in Hexane	F2047S	5ml	
a.a.a-Trichlorotoluene (S.G.)		O-690	5g	98-07-7
a.2.4-Trichlorotoluene		8258B	10g	94-99-5
a.2.6-Trichlorotoluene (S.G.)		F2150	1g	2014-83-7
a.2.6-Trichlorotoluene Solution (S.G.)	100ug/ml in Toluene	F2150JS	1ml	
a.2.6-Trichlorotoluene (S.G.)	100ug/ml in Toluene	F2150S	5ml	
2,4,5-Trichlorotoluene (S.G.)		F2488	50mg	6639-30-1
2,4,5-Trichlorotoluene Solution (S.G.)	1000ug/ml in Methylene chloride	F2488JS	1ml	
2,4,5-Trichlorotoluene (S.G.)	1000ug/ml in Methylene chloride	F2488S	5ml	
a.3.4-Trichlorotoluene		8259B	10g	102-47-6
1.1.2-Trichlorotrifluoroethane (S.G.)		F2564	5g	76-13-1
1.1.2-Trichlorotrifluoroethane (S.G.)		O-2269	5g	76-13-1
** Trichlorovinylsilane see 8755F Vinyltrichlorosilane				
Trichlorphon Solution (S.G.)	100ug/ml in Acetonitrile	F2215JS	1ml	
Trichlorphon (TM) (S.G.)	100ug/ml in Acetonitrile	F2215S	5ml	52-68-6
Trichlorphon		PS-608	1g	52-68-6
Trichlorpyrphos		PS-674	250mg	2921-88-2

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
Triclopyr		PS-417	500mg	55335-06-3
Triclopyr Solution	100ug/ml in Acetonitrile	PS-417AJS	1mL	
Triclopyr Solution	100ug/ml in t-Butylmethyl ether	PS-417JS	1ml	
Triclopyr butoxyethyl ester		PS-2308	250mg	64700-56-7
Triclopyr methyl ester		PS-1110	100mg	R
Triclopyr methyl ester Solution	100ug/ml in Acetonitrile	PS-1110AJS	1mL	
Triclopyr methyl ester Solution	100ug/ml in MTBE	PS-1110JS	1mL	
n-Tricosane (S.G.)		O-2270	500mg	638-67-5
n-Tricosane (d48) (S.G.)		O-D2270-1	1g	R
n-Tricosanoic acid (C23) (S.G.)		O-2329	100mg	2433-96-7
Tri-o-cresyl phosphate (S.G.)		F2425	1g	78-30-8
Tri-o-cresyl phosphate Solution (S.G.)	1000ug/ml in Hexane	F2425JS	1ml	
Tri-o-cresyl phosphate (S.G.)	1000ug/ml in Hexane	F2425S	5ml	
Tri-o-cresyl phosphate (S.G.)		O-918	1g	78-30-8
Tricresyl phosphate (TECH)		Pz-86	1g	1330-78-5
Tricyclazole		PS-1083	50mg	41814-78-2
** Tricyclazole see F2221 Beam				
Tricyclohexyl citrate (TECH)		Pz-600	10g	R
1-(Tricyclohexylstannyl)-1H-1,2,4-triazole		PS-2063	250mg	41083-11-8
Tricyclohexyltin hydroxide		PS-107	250mg	13121-70-5
Tricyclohexyltin hydroxide Solution	100ug/ml in Methanol	PS-107JS	1mL	
n-Tridecane (S.G.)		O-2273	500mg	629-50-5
n-Tridecane (d28) (S.G.)		O-D2273-B	0.5g	R
Tridecanoic acid (C13) (S.G.)		O-2323	500mg	638-53-9
1-Tridecanol (S.G.)		O-2301	1g	112-70-9
2-Tridecanone (S.G.)		O-2271	100mg	593-08-8
1-Tridecene (S.G.)		O-2274	1g	2437-56-1
Tridecyl alcohol (TECH)		S-309	10g	R
Tridecylaldehyde (S.G.)		O-2272	100mg	10486-19-8
Tridecyl phosphite		8268C	10g	2929-86-4
Tridemorph (Mix of Isomers)		PS-2242	100mg	81412-43-3
Tridemorph (Mix of Isomers) Solution	100ug/ml in Acetonitrile	PS-2242AJS	1mL	
Tridemorph (Mix of Isomers) Solution	100ug/ml in Toluene	PS-2242JS	1mL	
Tridex* Fungicide		PS-2095	500mg	8018-01-7
Tridex* Herbicide		PS-66	250mg	502-55-6
Trietazine		PS-2107	100mg	1912-26-1
Trietazine Solution	100ug/ml in Acetonitrile	PS-2107AJS	1mL	
Trietazine Solution	100ug/ml in Methylene chloride	PS-2107JS	1mL	
Triethanolamine (S.G.)		O-314	10g	102-71-6
Triethanolamine abietate (TECH)		S-85	10g	R
Triethanolamine caprate (TECH)		S-75	10g	R
Triethanolamine laurate (TECH)		S-76	10g	R
Triethanolamine lauryl sulfate (TECH)		S-388	10g	139-96-8
Triethanolamine linoleate (TECH)		S-82	10g	R
Triethanolamine myristate (TECH)		S-77	10g	R
Triethanolamine naphthenate (TECH)		S-84	10g	R
Triethanolamine oleate (TECH)		S-81	10g	2717-15-9
Triethanolamine palmitate (TECH)		S-78	10g	R
Triethanolamine petroleum sulfonate (TECH)		S-438	10g	R
Triethanolamine ricinoleate (TECH)		S-83	10g	R
Triethanolamine stearate (TECH)		S-79	10g	R
Triethanolamine titanate		8266A	10g	R
Triethanolamine undecylenate (TECH)		S-80	10g	R
Triethanolammonium dodecylbenzene sulfonate (TECH)		S-425	10g	27323-41-7
** Triethanolammonium lauryl sulfate see S-388 Triethanolamine lauryl sulfate				
2',4',5'-Triethoxyacetophenone		2743L	500mg	R
Triethoxyethylsilane (S.G.)		O-998	500mg	78-07-9
Triethyl-o-acetate (S.G.)		O-556	500mg	78-39-7
Triethylamine (S.G.)		O-297	1g	121-44-8
1.3.5-Triethylbenzene (S.G.)		O-776	250mg	102-25-0
Triethyl citrate (S.G.)		O-512	10g	77-93-0
Triethyl citrate (TECH)		Pz-72	10g	77-93-0
** Triethylenediamine see 3506J 1,4-Diazabicyclo[2.2.2]octane				
Triethylene glycol (S.G.)		O-210	10g	112-27-6
Triethylene glycol diacetate (S.G.)		O-508	500mg	111-21-7
Triethylene glycol dibenzoate (TECH)		Pz-810	5g	R
Triethylene glycol dicaprylate (TECH)		Pz-815	10g	R
Triethylene glycol di(caprylate/caprate) (TECH)		Pz-820	10g	R
Triethylene glycol di(2-ethylbutyrate) (TECH)		Pz-97	10g	95-08-9

Category Name	Specification	Catalog#	Size	CAS#
Triethylene glycol di(2-ethylhexoate) (TECH)		Pz-98	10g	94-28-0
Triethylene glycol dipelargonate (TECH)		Pz-99	10g	R
Triethylene glycol monostearate (TECH)		S-141	10g	R
Triethylenetetramine (S.G.)		O-333	5g	112-24-3
Triethylenetetramine tetrahydrochloride		2815L	1g	4961-40-4
N.N.N'-Triethylethylenediamine		8285H	1g	105-04-4
Triethyl-o-formate (S.G.)		O-557	5g	122-51-0
Triethyl phosphate (S.G.)		F2192	5g	78-40-0
Triethyl phosphate Solution (S.G.)	100ug/ml in Hexane	F2192JS	1ml	
Triethyl phosphate (S.G.)	100ug/ml in Hexane	F2192S	5ml	
Triethyl phosphate (S.G.)		O-919	10g	78-40-0
Triethyl phosphate (TECH)		Pz-80	10g	78-40-0
Triethyl phosphite (S.G.)		O-920	5g	122-52-1
Triethylphosphonoacetate		8295C	5g	867-13-0
0.0.0-Triethylphosphorothioate (S.G.)		F941	1g	126-68-1
0.0.0-Triethylphosphorothioate Solution (S.G.)	100ug/ml in Methanol	F941JS	1ml	
0.0.0-Triethylphosphorothioate (S.G.)	100ug/ml in Methanol	F941S	5ml	
Triethyl-o-propionate		8309F	1g	115-80-0
** Triethylthiophosphate see F941 0.0.0-Triethylphosphorothioate				
Trifloxystrobin		PS-2196	100mg	141517-21-7
Trifloxystrobin Solution	100ug/ml in Acetonitrile	PS-2196AJS	1mL	
Trifloxystrobin Solution	100ug/ml in Methylene chloride	PS-2196JS	1mL	
Trifloxysulfuron-Sodium		PS-2317	100mg	199119-58-9
Triflumizole		PS-2121	250mg	68694-11-1
Triflumizole Solution	100ug/ml in Methanol	PS-2121JS	1mL	
Triflumuron		PS-2176	100mg	64628-44-0
Triflumuron Solution	100ug/ml in Acetonitrile	PS-2176AJS	1mL	
Triflumuron Solution	100ug/ml in Toluene	PS-2176JS	1mL	
Trifluoperazine hydrochloride		2695L	100mg	440-17-5
Trifluoroacetaldehyde ethylhemiacetal		8312F	1g	433-27-2
Trifluoroacetamide		9024K	10mg	354-38-1
** 1-1-1-Trifluoroacetate see 8311F 1.1.1-Trifluoroacetone				
Trifluoroacetic acid (S.G.)		O-47	2g	76-05-1
Trifluoroacetic acid sodium salt		8300	5g	2923-18-4
1.1.1-Trifluoroacetone		8311F	1g	421-50-1
Trifluoroacetophenone		8305B	1g	434-45-7
2',4',5'-Trifluoroacetophenone (S.G.)		F2561	100mg	129322-83-4
2',4',5'-Trifluoroacetophenone Solution (S.G.)		F2561JS	1ml	
2',4',5'-Trifluoroacetophenone (10,000ug/ml in Acetonitrile) (S.G.)				
N-Trifluoroacetylimidazole		3187L	500mg	1546-79-8
a.a.a-Trifluoro-o-cresol		9027K	10mg	444-30-4
** a.a.a-Trifluoro-m-cresol see 8314A m-Trifluoromethyl phenol				
a.a.a-Trifluoro-2.6-dinitro-N.N-dipropyl-p-toluidine		PS-393	1g	1582-09-8
2.2.2-Trifluoroethanol		8305A	5g	75-89-8
2.2.2-Trifluoroethylamine hydrochloride		9030K	100mg	373-88-6
a,a,a-Trifluoro-3'-isopropoxy-o-toluanilide		PS-2057	250mg	66332-96-5
Trifluoromethanesulfonic anhydride		9032K	100mg	358-23-6
2'-(Trifluoromethyl)acetophenone		8311	1g	17408-14-9
3'-(Trifluoromethyl)acetophenone		8310	1g	349-76-8
4'-(Trifluoromethyl)acetophenone		8312	1g	709-63-7
3-Trifluoromethylbenzenesulfinic acid sodium salt		9036K	10mg	R
2-(Trifluoromethyl)benzoate (S.G.)		O-2418	250mg	R
2-(Trifluoromethyl)benzoic acid (S.G.)		O-2417	500mg	433-97-6
p-Trifluoromethyl benzonitrile		8313F	100mg	455-18-5
2-(Trifluoromethyl)benzyl alcohol		9044K	10mg	346-06-5
3-(Trifluoromethyl)benzyl alcohol		9045K	100mg	349-75-7
4-(Trifluoromethyl)benzyl alcohol		9046K	100mg	349-95-1
o-Trifluoromethylbenzyl bromide		8313H	100mg	R
p-Trifluoromethylbenzyl bromide		9048K	100mg	402-49-3
p-Trifluoromethylphenylacetic acid		8317F	1g	32857-62-8
2-(Trifluoromethyl)phenyl isothiocyanate		9052K	10mg	R
(RS)-2-[4-(5-Trifluoromethyl-2-pyridyloxy)phenoxy]propionic ac		PS-1205	5ml	69335-91-7
R-2-[4-(5-Trifluoromethyl-2-pyridyloxy)phenoxy]propionic acid,		PS-1097	100mg	79241-46-6
4.4.4-Trifluoro-1-(2-thienyl)-1.3-butanedione		9054K	100mg	326-91-0
a.a.a-Trifluorotoluene (S.G.)		F450	1g	98-08-8
a.a.a-Trifluorotoluene Solution (S.G.)	2000ug/ml in Methanol	F450AJS	1ml	
a.a.a-Trifluorotoluene (S.G.)	2000ug/ml in Methanol	F450AS	5ml	
a.a.a-Trifluorotoluene Solution (S.G.)	100ug/ml in Methanol	F450JS	1ml	

Category Name	Specification	Catalog#	Size	CAS#
a.a.a-Trifluorotoluene (S.G.)	100ug/ml in Methanol	F450S	5ml	
a.a.a-Trifluorotoluene (S.G.)		0-691	2g	98-08-8
a.a.a-Trifluoro-p-toluidine		8320F	100mg	455-14-1
a.a.a-Trifluoro-m-tolunitrile		9056K	100mg	368-77-4
(a.a.a-Trifluoro-m-tolyl)acetic acid		9058K	100mg	351-35-9
(a.a.a-Trifluoro-o-tolyl)acetic acid		9059K	100mg	3038-48-0
a.a.a-Trifluoro-m-tolyl isocyanate		8323F	1g	329-01-1
N-(a.a.a-Trifluoro-m-tolyl)piperazine		8319F	100mg	15532-75-9
Trifluorotrichloropropene		8320	10g	R
Trifluralin (S.G.)		F2140	1g	1582-09-8
Trifluralin Solution (S.G.)	100ug/ml in Toluene	F2140JS	1ml	
Trifluralin (S.G.)	100ug/ml in Toluene	F2140S	5ml	
Trifluralin (di-n-propyl-d14) Solution (S.G.)	100ug/ml in n-Nonane	FD2140S	1.2ml	
Trifluralin		PS-393	1g	1582-09-8
Trifluralin Solution	100ug/ml in Acetonitrile	PS-393AJS	1mL	
Trifluron		PS-2176	100mg	64628-44-0
Triflusulfuron-methyl		PS-2147	500mg	126535-15-7
Triflusulfuron-methyl Solution	100ug/ml in Acetonitrile	PS-2147AJS	1mL	
Triflusulfuron-methyl Solution	100ug/ml in Toluene	PS-2147JS	1mL	
Trifmine*		PS-2121	250mg	68694-11-1
Trifocide*		PS-57	1g	534-52-1
Trifocide*		PS-57	1g	534-52-1
Triforine		PS-2014	100mg	26644-46-2
Triforine Solution	100ug/ml in Acetonitrile	PS-2014AJS	1mL	
Triforine Solution	100ug/ml in Toluene	PS-2014JS	1mL	
Trifrina*		PS-57	1g	534-52-1
Trifrina*		PS-57	1g	534-52-1
Trigard*		PS-2073	250mg	66215-27-8
Triglycerol monoisostearate (TECH)		S-248	10g	R
Triglycerol monooleate (TECH)		S-247	10g	9007-48-1
Triglycerol monostearate (TECH)		S-246	10g	26855-43-6
Trihalomethanes High Concentration Mixture	2000ug/ml in Methanol	THM501-1JM	1ml	
Trihalomethanes Mixture	100ug/ml in Methanol	PP-41JM	1ml	
Trihalomethanes Mixture	100ug/ml in Methanol	PP-41M	5ml	
Trihalomethanes Neat		PP-41N	KIT	
Trihalomethanes Solutions		PP-41S	KIT	
Tri-n-hexylamine (S.G.)		0-2275	1g	102-86-3
Tri-n-hexyltrimellitate (TECH)		Pz-707	10g	1528-49-0
** 1.3.5-Trihydroxybenzene see 7055C Phlorglucinol dihydrate				
4',5,7-Trihydroxyflavanone		2170L	250mg	480-41-1
2.6.7-Trihydroxy-9-phenylisoxanthene-3-one		8310H	100mg	975-17-7
2.3.5-Triiodobenzoic acid		PS-561	1g	88-82-4
2.3.5-Triiodobenzoic acid Solution	100ug/ml in Acetonitrile	PS-561AJS	1mL	
2.3.5-Triiodobenzoic acid Solution	100ug/ml in MTBE	PS-561JS	1mL	
2,4,6-Triiodophenol (R.G.)		2581L	100mg	609-23-4
Triisobutylene		8330	1g	7756-94-7
Triisodecyl trimellitate (TECH)		Pz-710	10g	36631-30-8
Triisononyl trimellitate (TECH)		Pz-715	10g	R
Triisooctyl phosphite		8327A	10g	25103-12-2
Triisooctyl trimellitate (TECH)		Pz-717	10g	R
Triisopropanolamine (S.G.)		0-315	5g	122-20-3
Triisopropanolamine borate		8335	5g	101-00-8
1,3,5-Triisopropylbenzene (S.G.)		F2464	1g	717-74-8
1,3,5-Triisopropylbenzene Solution (S.G.)	1000ug/ml in Carbon disulfide	F2464JS	1ml	
Triisopropylborate		8347F	1g	5419-55-6
** Triketohydrindene hydrate see 6154A Ninhydrin				
Trilaurin		8351F	1g	538-24-9
Trilauryl trithiophosphite		8340	5g	1656-63-9
Trimanoc*		PS-2095	500mg	8018-01-7
Trimaton*		PS-221	250mg	6734-80-1
Trim-Cut*		PS-2050	100mg	53780-34-0
Trimellitate plasticizer (R=C7&C9) (TECH)		Pz-725	10g	R
Trimellitic acid		8348E	10g	528-44-9
Trimellitic acid amide		8350	5g	R
Trimellitic anhydride (S.G.)		F2416	5g	552-30-7
Trimer acids (TECH)		S-24	10g	R
Trimesic acid		8365A	5g	554-95-0

Category Name	Specification	Catalog#	Size	CAS#
1.2.3-Trimethoxybenzene		9063K	100mg	634-36-6
3.4.5-Trimethoxybenzoic acid		8370	10g	118-41-2
3.4.5-Trimethoxy benzonitrile		8380	5g	1885-35-4
3.4.5-Trimethoxybenzyl alcohol		9065K	10mg	3840-31-1
3.4.5-Trimethoxy phenyl aldehyde		8377F	1g	86-81-7
N-[3-(Trimethoxysilyl)propyl]ethylenediamine		2557L	1g	1760-24-3
Trimethylacetamide		9067K	1g	754-10-9
** Trimethyl acetic acid see 7145F Pivalic acid				
Trimethylacetonitrile		9071K	1g	630-18-2
** Trimethyl acetyl chloride see 7125C Pivaloyl chloride				
2-Trimethylacetyl-1.3-indandione		PS-905	250mg	83-26-1
Trimethyl adipic acid		8420	10g	R
Trimethylamine (x% in water) (R.G.)		8432	5g	75-50-3
Trimethylamine hydrochloride (S.G.)		0-298	2g	593-81-7
Trimethylamine-N-oxide dihydrate		8441A	1g	62637-93-8
Trimethylamine-a.a'.a''-tricarboxylic acid		8440	5g	139-13-9
2,4,5-Trimethylaniline (S.G.)		F2146	100mg	137-17-7
2,4,5-Trimethylaniline Solution (S.G.)	100ug/ml in Methanol	F2146JS	1ml	
2,4,5-Trimethylaniline (S.G.)	100ug/ml in Methanol	F2146S	5ml	
1.2.3-Trimethylbenzene (S.G.)		0-2304	500mg	526-73-8
1.2.4-Trimethylbenzene (S.G.)		0-777	1g	95-63-6
1.2.4-Trimethylbenzene (S.G.)		F832	1g	95-63-6
1.2.4-Trimethylbenzene Solution (S.G.)	100ug/ml in Methanol	F832JS	1ml	
1.2.4-Trimethylbenzene (S.G.)	100ug/ml in Methanol	F832S	5ml	
1.3.5-Trimethylbenzene (S.G.)		F828	5g	108-67-8
1.3.5-Trimethylbenzene Solution (S.G.)	100ug/ml in Methanol	F828JS	1ml	
1.3.5-Trimethylbenzene (S.G.)	100ug/ml in Methanol	F828S	5ml	
** 1,3,5-Trimethylbenzene see also 0-771 Mesitylene				
Trimethyl-1.3.5-benzene tricarboxylate		8385F	1g	2672-58-4
Trimethyl-o-benzoate		9081K	100mg	707-07-3
Trimethyl borate (S.G.)		0-999	1g	121-43-7
1.1.1-Trimethyl butane (S.G.)		0-2276	100mg	590-35-2
2.2.3-Trimethyl butane (S.G.)		0-2277	500mg	464-06-2
cis-1.1.1-Trimethyl-2-butene (S.G.)		0-2278	100mg	762-63-0
trans-1.1.1-Trimethyl-2-butene (S.G.)		0-2279	500mg	690-08-4
2.3.3-Trimethyl-1-butene (S.G.)		0-2280	500mg	594-56-9
** 2.4.4-Trimethyl-1-butene see 0-2085 2.4-Dimethyl-1-pentene				
** 4.4.4-Trimethyl-1-butene see 0-2087 4.4-Dimethyl-1-pentene				
1.1.3-Trimethyl cyclohexane (S.G.)		0-2281	500mg	3073-66-3
1.3.5-Trimethyl cyclohexane (S.G.)		0-2282	1g	1839-63-0
3.3.5-Trimethyl cyclohexanol (S.G.)		0-171	5g	116-02-9
3.3.5-Trimethyl cyclohexanone		8450	10g	873-94-9
3.3.5-Trimethyl cyclohexene (S.G.)		0-2283	500mg	503-45-7
2.2.6-Trimethyl-1.3-dioxen-4-one		9073K	1g	5394-63-8
** Trimethylenechlorobromide see 0-605 1-Bromo-3-chloropropane				
Trimethylene chlorohydrin		8470	10g	627-30-5
N.N.N-Trimethylethylene-diamine		9075K	100mg	142-25-6
Trimethyl-o-formate (S.G.)		0-558	5g	149-73-5
3.4.5-Trimethyl heptane		8443H	500mg	R
Trimethyl hexamethylene diamine		8405F	1g	25513-64-8
2.2.4-Trimethyl hexane		8450H	500mg	16747-26-5
2.2.5-Trimethyl hexane (S.G.)		0-2284	100mg	3522-94-9
3.5.5-Trimethylhexanoic acid		9077K	1g	3302-10-1
3.5.5-Trimethyl-1-hexanol		8471B	10g	3452-97-9
3.5.5-Trimethyl-1-hexene (S.G.)		0-2285	1g	4316-65-8
3.5.5-Trimethylhydantoin		9079K	10mg	R
2.3.5-Trimethylnaphthalene (S.G.)		F1057	10mg	2245-38-7
2.3.5-Trimethylnaphthalene Solution (S.G.)	100ug/ml in Toluene	F1057JS	1ml	
2.3.5-Trimethylnaphthalene (S.G.)	100ug/ml in Toluene	F1057S	5ml	
2,6,8-Trimethyl-4-nonyloxy polyethyleneoxyethanol		S-326	10g	R
Trimethylolethane tribenzoate (TECH)		Pz-608	10g	R
1.1.1-Trimethylolpropane triacrylate		8473A	10g	15625-89-5
Trimethylolpropane tribenzoate (TECH)		Pz-607	10g	R
1,1,1-Trimethylol propane trinonoate (TECH)		Pz-609	10g	126-57-8
2.4.4-Trimethyl-2-oxazoline		8497F	1g	1772-43-6
2.2.4-Trimethylpentane (S.G.)		F2189	5g	540-84-1
2.2.4-Trimethylpentane Solution (S.G.)	100ug/ml in Methanol	F2189JS	1ml	

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Category Name	Specification	Catalog#	Size	CAS#
2.2.4-Trimethylpentane (S.G.)	100ug/ml in Methanol	F2189S	5ml	
2.2.4-Trimethylpentane (S.G.)		O-741	5g	540-84-1
2.3.4-Trimethylpentane (S.G.)		O-2286	1g	565-75-3
2.2.4-Trimethyl-1.3-pentanediol (S.G.)		O-207	5g	144-19-4
2.2.4-Trimethyl-1.3-pentanediol diisobutyrate (TECH)		Pz-825	10g	6846-50-0
2.2.4-Trimethyl-1.3-pentanediol-isobutyrate (R.G.)		7978H	1g	25265-77-4
2.2.4-Trimethyl-1-pentanol		8480	10g	123-44-4
** 2.4.4-Trimethyl-1-pentene see O-749 Diisobutylene				
2.4.4-Trimethyl-2-pentene (S.G.)		O-2287	1g	107-40-4
2.4.6-Trimethylphenol (R.G.)		8485B	10g	527-60-6
2.3.5-Trimethylphenol (R.G.)		8530F	1g	697-82-5
Trimethylphenylammonium benzenesulfonate (S.G.)		O-381	500mg	R
Trimethyl phenyl ammonium chloride		8490	10g	138-24-9
Trimethylphenylammonium iodide (S.G.)		O-382	500mg	98-04-4
2.4.6-Trimethylphenylisothiocyanate		8505H	100mg	R
2.3.5-Trimethylphenyl methyl carbamate		PS-541	50mg	2655-15-4
2.3.5-Trimethylphenyl methyl carbamate Solution	100ug/ml in Acetonitrile	PS-541AJS	1mL	
2.3.5-Trimethylphenyl methyl carbamate Solution	100ug/ml in Toluene	PS-541JS	1mL	
3,4,5-Trimethylphenyl methyl carbamate		PS-542	50mg	2686-99-9
Trimethyl phosphate (S.G.)		F2141	5g	512-56-1
Trimethyl phosphate Solution (S.G.)	100ug/ml in Methanol	F2141JS	1ml	
Trimethyl phosphate (S.G.)	100ug/ml in Methanol	F2141S	5ml	
Trimethyl phosphite		8511C	10g	121-45-9
Trimethyl phosphonoacetate		8447A	5g	5927-18-4
1.2.2-Trimethylpropylamine		9083K	100mg	3850-30-4
2.4.6-Trimethylpyridine (S.G.)		O-708	1g	108-75-8
1.2.5-Trimethylpyrrole		8531F	100mg	930-87-0
Tri-m-tolyl phosphate		8609B	10g	563-04-2
Trimyristin		8543F	1g	555-45-3
Trinexapac		MET-2158A	250mg	104273-73-6
Trinexapac-ethyl		PS-2158	250mg	95266-40-3
Trinexapac-ethyl Solution	100ug/ml in Acetonitrile	PS-2158AJS	1mL	
Trinexapac-ethyl Solution	100ug/ml in MTBE	PS-2158JS	1mL	
1.3.5-Trinitrobenzene (min 30wt% water) (S.G.)		F942	100mg	99-35-4
1.3.5-Trinitrobenzene Solution (S.G.)	1000ug/ml in Methylene chloride	F942AJS	1mL	
1.3.5-Trinitrobenzene (S.G.)	1000ug/ml in Methylene chloride	F942AS	5mL	
1.3.5-Trinitrobenzene Solution (S.G.)	1000ug/ml in Acetonitrile	F942BJS	1mL	
1.3.5-Trinitrobenzene (S.G.)	1000ug/ml in Acetonitrile	F942BS	5mL	
1.3.5-Trinitrobenzene Solution (S.G.)	100ug/ml in Methanol	F942JS	1mL	
1.3.5-Trinitrobenzene (S.G.)	100ug/ml in Methanol	F942S	5mL	
1.3.5-Trinitrobenzene (13C6) Solution (S.G.)	100ug/ml in n-Nonane	FC942S	1.2mL	
2,4,6-Trinitrobenzoic acid - min 30wt% water (S.G.)		O-2318	100mg	129-66-8
2.4.6-Trinitrotoluene - min 30wt% water (S.G.)		F2486	1g	118-96-7
2.4.6-Trinitrotoluene Solution (S.G.)	1000ug/ml in Acetonitrile	F2486JS	1mL	
2.4.6-Trinitrotoluene (S.G.)	1000ug/ml in Acetonitrile	F2486S	5mL	
2.4.6-Trinitrotoluene (13C7, 15N3, wetted w/>33% H20 w/w) Solution (1000ug/ml in Benzene) (S.G.) [a	1000ug/ml in Benzene	FCN2486S	1ml	
2.4.6-Trinitrotoluene - min 30wt% water (S.G.)		O-2288	1g	118-96-7
Trinoxol		PS-309	1g	2545-59-7
Trioctanoin		8427H	1g	538-23-8
Trioctylamine		8525F	1g	1116-76-3
Tri(n-octyl-n-decyl) trimellitate (TECH)		Pz-705	10g	67989-23-5
Tri-n-octylphosphine oxide		8520	10g	78-50-2
Trioxymethylene		9084K	5g	110-88-3
Tripalmitin		8528F	100mg	555-44-2
Tripentaerythritol		8527A	10g	78-24-0
Tripentyltin chloride (S.G.)		F2908	100mg	3342-67-4
Triphenylacetic acid		8518A	1g	595-91-5
Triphenylamine (S.G.)		F2260	100mg	603-34-9
Triphenylamine Solution (S.G.)	1000ug/ml in Acetonitrile	F2260JS	1ml	
Triphenylamine (S.G.)	1000ug/ml in Acetonitrile	F2260S	5ml	
Triphenyl antimony diacetate		8521A	5g	R
Triphenylantimony oxide		8535E	1g	4756-75-6
Triphenylantimony sulfide		8532F	100mg	3958-19-8
Triphenylarsine		8530	10g	603-32-7

Category Name	Specification	Catalog#	Size	CAS#
Triphenylarsine oxide		8538F	1g	1153-05-5
Triphenylene (S.G.)		F1058	100mg	217-59-4
Triphenylene Solution (S.G.)	100ug/ml in Toluene	F1058JS	1ml	
Triphenylene (S.G.)	100ug/ml in Toluene	F1058S	5ml	
Triphenylene (d12) (S.G.)		FD1058-1	1g	R
Triphenylene (d12) (S.G.)		FD1058-A	0.1g	R
Triphenylguanidine (TECH)		Pz-166	10g	101-01-9
Triphenyllead acetate		2599L	500mg	1162-06-7
Triphenylmethane (S.G.)		F2270	500mg	519-73-3
Triphenylmethane Solution (S.G.)	3000ug/ml in Acetone	F2270JS	1ml	
Triphenylmethane (3000ug/ml in Acetone) (S.G.)	3000ug/ml in Acetone	F2270S	5ml	
Triphenylmethane (S.G.)		O-778	500mg	519-73-3
Triphenylmethanethiol		2629L	200mg	3695-77-0
Triphenylmethanol		8540	10g	76-84-6
Triphenylmethyl bromide		8525A	5g	596-43-0
** Triphenylmethylchloride see 3176E Chlorotriphenylmethane				
Triphenylmethyl hexafluoroarsenate		8537F	1g	R
Triphenyl phosphate (S.G.)		F2052	5g	115-86-6
Triphenyl phosphate Solution (S.G.)	500ug/ml in t-Butylmethyl ether	F2052JS	1ml	
Triphenyl phosphate (500ug/ml in tert-Butylmethyl ether) (S.G.)	500ug/ml in t-Butylmethyl ether	F2052S	5ml	
Triphenyl phosphate (S.G.)		O-921	5g	115-86-6
Triphenyl phosphate (TECH)		Pz-85	10g	115-86-6
Triphenylphosphine		8550	10g	603-35-0
Triphenylphosphineoxide		8542F	1g	791-28-6
Triphenylphosphine sulfide		9087K	100mg	3878-45-3
Triphenyl phosphite (S.G.)		O-922	10g	101-02-0
2.4.6-Triphenyl-s-triazine		8558F	100mg	493-77-6
** 3.5.6-Triphenyl-2.3.5.6-tetraazabicyclo[2.1.1]hex-1-ene see 6399F Nitron				
2.3.5-Triphenyl-2H-tetrazolium chloride		9091K	10mg	298-96-4
Triphenyltin acetate		PS-1021	250mg	900-95-8
** Triphenyltin acetate see PS-1021 in Pesticide Catalog				
Triphenyltin chloride		8556F	1g	639-58-7
Triphenyltin hydroxide		PS-1031	250mg	76-87-9
Tripropionin (S.G.)		O-501	5g	139-45-7
Tripropylamine (S.G.)		O-2289	5g	102-69-2
Tri-n-propylplumbyl acetate		8525C	1g	R
Tri-p-tolyl thiophosphate		8528A	5g	R
Triptycene (S.G.)		F1059	100mg	477-75-8
Triptycene Solution (S.G.)	100ug/ml in Toluene	F1059JS	1ml	
Triptycene (S.G.)	100ug/ml in Toluene	F1059S	5ml	
2.4.6-Tri-2-pyridyl-s-triazine		8559F	100mg	3682-35-7
** Tris-BP see F2142 Tris-(2.3-dibromopropyl)phosphate				
Tris(2-carboxyethyl)isocyanurate		8580A	10g	R
Tris(2-chloroethyl)amine hydrochloride		2575L	250mg	817-09-4
Tris(2-chloroethyl)phosphate (TECH)		Pz-83	10g	115-96-8
Tris(2.3-dibromopropyl)phosphate (S.G.)		F2142	1g	126-72-7
Tris(2.3-dibromopropyl)phosphate Solution (S.G.)	100ug/ml in Methanol	F2142JS	1ml	
Tris(2,3-dibromopropyl)phosphate (S.G.)	100ug/ml in Methanol	F2142S	5ml	
2.4.6-Tris(3.5-di-tert-butyl-4-hydroxyphenyl)mesitylene (TECH)		Ou-19	3g	1709-70-2
Tris(1.3-dichloroisopropyl)phosphate		8584F	5g	13674-87-8
Tris(2.6-dichlorophenyl)phosphate		8582C	10g	R
Tris(2.3-dichloropropyl)phosphate (TECH)		Pz-670	10g	78-43-3
Tris(diethylaminomethyl)phosphine		8580B	1g	R
2.4.6-Tris(dimethyl aminomethyl)phenol (TECH)		Ou-28	3g	90-72-2
Tris(dodecylthio)antimony		8592F	100mg	6939-83-9
Tris(2-ethylhexyl)citrate (TECH)		Pz-605	10g	7147-34-4
Tris(2-ethylhexyl)phosphate (TECH)		Pz-82	10g	78-42-2
** Tris(2-ethylhexyl)phosphite see 8327A Triisooctyl phosphite				
Tris(2-ethylhexyl)trimellitate (TECH)		Pz-88	10g	R
** Tris(hydroxymethyl)aminomethane see O-299 2-Amino-2-(hydroxymethyl)-1,3-propanediol				
** 1.1.1-Tris(hydroxymethyl)ethane see O-198 2-Hydroxymethyl-1,3-propanediol				
Tris(hydroxymethyl)nitromethane		8591F	1g	126-11-4
Tris(isobutylphenyl) phosphate (TECH)		Pz-662	10g	68937-40-6
Tris(isopropylphenyl)phosphate Alkyl (TECH)		Pz-666	10g	68937-41-7

Category Name	Specification	Catalog#	Size	CAS#
Tris(isopropylphenyl)phosphate-1M Alkyl (TECH)		Pz-665	10g	68937-41-7
1,1,3-Tris(2-methyl-4-hydroxy-5-tert-butylphenyl)butane (TECH)		Ou-20	3g	1843-03-4
Tris-(p-nitrophenyl)phosphate		9093K	10mg	3871-20-3
Tris(nonylphenyl)phosphite		8595B	10g	R
Trisodium nitrilotriacetate monohydrate (TECH)		S-641	10g	5064-31-3
Tristearin (S.G.)		O-499	5g	555-43-1
Tristearyl citrate (TECH)		Pz-612	10g	R
1.3.5-Trithiane symetrical (S.G.)		O-722	500mg	291-21-4
Trithiocyanuric acid		9097K	100mg	638-16-4
Trithion*		PS-88	1g	786-19-6
Triticonazole		PS-2349	100mg	131983-72-7
Tritisan*		PS-150	1g	82-68-8
Tri-p-tolylphosphate (S.G.)		F2147	1g	1330-78-5
Tri-p-tolylphosphate Solution (S.G.)	100ug/ml in Hexane	F2147JS	1ml	
Tri-p-tolylphosphate (S.G.)	100ug/ml in Hexane	F2147S	5ml	
** Tritolyl phosphate see Pz-86 Tricresyl phosphate				
Tri-p-tolyl phosphite		8611B	5g	620-42-8
Tritylamine		2551L	100mg	5824-40-8
Trolene		PS-657	100mg	299-84-3
Tropaeolin O/C.I.#14270		BS-20	1g	547-57-9
Trophy*		PS-2040	100mg	34256-82-1
Tropic acid		8602F	1g	529-64-6
Tropital*				
Tropotox*		PS-307	100mg	94-81-5
Trucidor*		PS-2187	100mg	2275-23-2
Truxene (S.G.)		F1060	1g	548-35-6
Truxene Solution (S.G.)	100ug/ml in Toluene	F1060JS	1ml	
Truxene (S.G.)	100ug/ml in Toluene	F1060S	5ml	
Try*	100ug/ml in Toluene	PS-1213	5ml	24017-47-8
Trypan blue/C.I.#23850		BS-137	1g	72-57-1
D-(+)-Tryptophan		8561H	100mg	153-94-6
DL-Tryptophane		8630	1g	54-12-6
L-(-)-Tryptophane (R.G.)		AA-22	1g	73-22-3
Tryptophol		2971L	100mg	526-55-6
Trysben*		PS-330	1g	50-31-7
Tuads*		PS-24	1g	137-26-8
Tubotin*		PS-1031	250mg	76-87-9
Tugon*		PS-608	1g	52-68-6
Tulisan*		PS-24	1g	137-26-8
Tungsten metal-325 mesh		I-6400	1g	7440-33-7
Tungsten - 5% HNO3 + 2% HF		X10M 63-3-100	100ml	
Tungsten - 5% HNO3 + 2% HF		X10M 63-3-250	250ml	
Tungsten Metallo-Organic Standard	1000ug/g in Mineral Oil	XWWOMS	100g	
Tungsten, W metal, 99.99%, 5% HNO3+0.5% HF		X100063-3-A	100ml	
Tungsten, W metal, 99.99%, 5% HNO3+0.5% HF		X100063-3-B	250ml	
Tungsten, W metal, 99.99%, 5% HNO3+0.5% HF		X100063-3-C	500ml	
Tungsten 5% HNO3 + 2% HF		X10M 63-3-500	500ml	
Tungsten Oxide (WO2) 99.99%		XW-O-A	5g	
Tungsten Oxide (WO2) 99.99%		XW-O-B	25g	
Tungsten Powder (W) 99.99%		XW-MP-A	5g	
Tungsten Powder (W) 99.99%		XW-MP-B	25g	
Tungstic acid		I-6380	5g	7783-03-1
Tuning Standard Mixture 625/8250/8270/CLP	1000ug/ml in Methylene chloride	CLP-TS1M	5ml	
Tupersan*		PS-373	1g	1982-49-6
Turmeric		8620F	1g	R
Twister*		PS-2223	100mg	71283-80-2
Tyramine		8627F	100mg	51-67-2
Tyramine hydrochloride		8640	100mg	60-19-5
L-(-)-Tyrosine (R.G.)		AA-23	1g	60-18-4
L-(-)-Tyrosine (S.G.)		O-110	500mg	60-18-4
b-Umbelliferone acetic acid		8660H	500mg	R
Undecamethylene diammonium adipate (R.G.)		N-320	1g	R
Undecanal (S.G.)		F2927	1g	112-44-7
Undecanal (DNPH Derivative) (S.G.)		F2928	100mg	R
Undecanal (S.G.)		O-2292	1g	112-44-7
n-Undecane (S.G.)		F2415	5g	1120-21-4
n-Undecane Solution (S.G.)	1000ug/ml in Methanol	F2415JS	1ml	
n-Undecane (S.G.)	1000ug/ml in Methanol	F2415S	5ml	
n-Undecane (S.G.)		O-2290	5g	1120-21-4

Category Name	Specification	Catalog#	Size	CAS#
1,11-Undecanedicarboxylic acid		2719L	500mg	505-52-2
Undecanoic acid (C11) (S.G.)		O-2322	100mg	112-37-8
1-Undecanol (S.G.)		O-2291	1g	112-42-5
2-Undecanone		PS-951	1g	112-12-9
2-Undecanone Solution	100ug/ml in 90%Methanol:10%H2O	PS-951JS	1mL	
Undecanophenone		8667F	500mg	R
1-Undecene (S.G.)		O-2293	1g	821-95-4
10-Undecenoic acid (S.G.)		O-28	2g	112-38-9
n-Undecylamine		8670F	1g	7307-55-3
Undecylenic acid (TECH)		S-9	10g	112-38-9
** Undecylenic acid see O-28 10-Undecenoic acid				
w-Undecylenyl alcohol		8673F	1g	112-43-6
Unden*		PS-551	1g	114-26-1
Un-derivatized Carbonyl Compounds Neat Kit - 554		UCC554-1N	KIT	
Un-derivatized Carbonyl Compounds Neat Kit - 556		UCC556-1N	KIT	
Un-derivatized Carbonyl Compounds Neat Kit - 8315		UCC8315-1N	KIT	
Un-derivatized Carbonyl Compounds Solutions Kit - 554		UCC554-1S	KIT	
Un-derivatized Carbonyl Compounds Solutions Kit - 556		UCC556-1S	KIT	
Un-derivatized Carbonyl Compounds Solutions Kit - 8315		UCC8315-1S	KIT	
Uniconazole-P		PS-2076	10mg	83657-17-4
Uniconizole-P Solution	100ug/ml in Methanol	PS-2076JS	1mL	
Uniroyal DO 14		PS-858	100mg	2312-35-8
Unleaded Gasoline Solution (500ug/ml in Methanol) (S.G.)	500ug/ml in Methanol	CSRGO-600-1JS	1ml	
Unleaded Gasoline Standard - 25% Weathered Solution (5000ug/ml in Methanol) (S.G.)	5000ug/ml in Methanol	CSRGO-602-1JS	1ml	
Unleaded Gasoline Standard - 50% Weathered Solution (5000ug/ml in Methanol) (S.G.)	5000ug/ml in Methanol	CSRGO-603-1JS	1ml	
Unleaded Gasoline Standard - 75% Weathered Solution (5000ug/ml in Methanol) (S.G.)	5000ug/ml in Methanol	CSRGO-604-1JS	1ml	
Unleaded Gasoline Standard - Unweathered				
Unleaded Gasoline Standard - Unweathered Solution (5000ug/ml in Methanol) (S.G.)	5000ug/ml in Methanol	CSRGO-601-1JS	1ml	
Unweathered Kerosene Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-621-1JS	1ml	
Unweathered Mineral Spirits Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-701-1JS	1ml	
Upbeet*		PS-2147	500mg	126535-15-7
Urab*		PS-364	1g	4482-55-7
Uracil		2902L	1g	66-22-8
Uramil		2290L	250mg	118-78-5
Uranium - 4% HNO3		X10M 64-1-100	100ml	
Uranium - 4% HNO3		X10M 64-1-250	250ml	
Uranium - 4% HNO3		X10M 64-1-500	500ml	
Uranium - U3O8, 99.968%, 2% HNO3		X100064-1-A	100ml	
Uranium - U3O8, 99.968%, 2% HNO3		X100064-1-B	250ml	
Uranium - U3O8, 99.968%, 2% HNO3		X100064-1-C	500ml	
Uranium Oxide (U3O8) 99.968%		XU-0-A	2g	
Uranium Oxide (U3O8) 99.968%		XU-0-B	10g	
Urea (S.G.)		O-989	5g	57-13-6
Urea compound with hydrogen peroxide		8679F	1g	124-43-6
Urea oxalate		2293L	500mg	513-80-4
** Urethane see O-391 Ethyl carbamate				
Uric acid (S.G.)		O-990	500mg	69-93-2
Urocanic acid		2287L	250mg	104-98-3
Urox*		PS-371	1g	140-41-0
Usnic acid		8700J	200mg	125-46-2
Ustilan*		PS-2061	100mg	30043-49-3
Vacor		PS-1059	100mg	53558-25-1
Vacor Solution	100ug/ml in Acetonitrile	PS-1059AJS	1mL	
Vacor Solution	100ug/ml in Toluene	PS-1059JS	1mL	
Valeraldehyde (S.G.)		F2334	5g	110-62-3
Valeraldehyde Solution (S.G.)	1000ug/ml in Acetonitrile	F2334JS	1ml	
Valeraldehyde (S.G.)	1000ug/ml in Acetonitrile	F2334S	5ml	
Valeraldehyde (DNPH Derivative) (S.G.)		F2353	100mg	2057-84-3
Valeraldehyde (DNPH Derivative) Solution (S.G.)	100ug/ml in Acetonitrile	F2353AJS	1ml	
Valeraldehyde (DNPH Derivative) (S.G.)	100ug/ml in Acetonitrile	F2353AS	5ml	
Valeraldehyde (DNPH Derivative) (S.G.)	1000ug/ml in Methanol:Acetonitrile (80:20)	F2353S	5ml	
Valeraldehyde (S.G.)		O-234	5g	110-62-3
Valeramide		9140K	100mg	626-97-1
Valeric acid (S.G.)		O-29	10g	109-52-4

Category Name	Specification	Catalog#	Size	CAS#
Valeric anhydride		9145K	1g	**2082-59-9**
Valeronitrile		9148K	100mg	**110-59-8**
Valimun*				
L-Valine		8750H	1g	**72-18-4**
DL-Valine (R.G.)		AA-24	1g	**516-06-3**
Validacin*				
Valone*		PS-911	250mg	**83-28-3**
Vamidoate*		PS-2187	100mg	**2275-23-2**
Vamidothion		PS-2187	100mg	**2275-23-2**
Vamidothion Solution	100ug/ml in Acetonitrile	PS-2187AJS	1mL	
Vamidothion Solution	100ug/mL in Toluene	PS-2187JS	1mL	
Vanadium - 10% HN03(5000ug/ml)		X5M 65-1-100	100ml	
Vanadium - 10% HN03(5000ug/ml)		X5M 65-1-250	250ml	
Vanadium - 10% HN03(5000ug/ml)		X5M 65-1-500	500ml	
Vanadium - NH4V03, 99.99%, 2% HN03		X100065-1-A	100ml	
Vanadium - NH4V03, 99.99%, 2% HN03		X100065-1-B	250ml	
Vanadium - NH4V03, 99.99%, 2% HN03		X100065-1-C	500ml	
Vanadium - NH4V03,99.99%,2% HCl		X100065-2-A	100ml	
Vanadium - NH4V03,99.99%,2% HCl		X100065-2-B	250ml	
Vanadium - NH4V03,99.99%,2% HCl		X100065-2-C	500ml	
Vanadium Chips (V) 99.995%		XV-MC-A	5g	
Vanadium Chips (V) 99.995%		XV-MC-B	25g	
Vanadium (III) chloride		I-6460	1g	**7718-98-1**
Vanadium Metallic - Organic Standard	1000ug/g in Mineral Oil	XVVOMS	100g	
Vanadium (III) oxide		I-6465	100mg	**1314-34-7**
Vanadium Oxide (V2O5) 99.995%		XV-O-A	5g	
Vanadium Oxide (V2O5) 99.995%		XV-O-B	25g	
Vanadium silicate		I-6445	1g	**12653-89-3**
Vanadyl acetylacetonate		8703F	1g	**3153-26-2**
Vanadyl sulfate		I-6450	5g	**16840-96-3**
Vancide-20S		PS-227	1g	**R**
Vancide-20S (TM) Solution	100ug/ml in Acetonitrile	PS-227AJS	1mL	
Vancide-20S (TM) Solution	100ug/ml in Toluene	PS-227JS	1mL	
Vancide* MZ-96		PS-21	1g	**137-30-4**
Vancide* TM Fungicide		PS-24	1g	**137-26-8**
Van Dyke 264*		PS-962	250mg	**113-48-4**
Vangard*		PS-2144	250mg	**121552-61-2**
Vanillin		8680	10g	**121-33-5**
o-Vanillin		9151K	1g	**148-53-8**
Vantage*		PS-2013	100mg	**74051-80-2**
Vanzoate*		PS-904	1g	**120-51-4**
Vapam*		PS-221	250mg	**6734-80-1**
Vapona*		PS-89	250mg	**62-73-7**
Vapotone*		PS-601	500mg	**107-49-3**
Varikil*		PS-2174	100mg	**79127-80-3**
Vaspact*		PS-2177	100mg	**76674-21-0**
Vegadex*		PS-19	250mg	**95-06-7**
Vegfru Snailkil*		PS-2030	1g	**9002-91-9**
Vegiben*		PS-314	100mg	**133-90-4**
Velpar		PS-416	250mg	**51235-04-2**
Velpar Solution	100ug/ml in Acetonitrile	PS-416AJS	1mL	
Velpar (S.G.)		F2232	250mg	**51235-04-2**
Velpar Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2232JS	1ml	
Velpar (S.G.)	100ug/ml in t-Butylmethyl ether	F2232S	5ml	
Velsicol 1068*		PS-75	250mg	**57-74-9**
Vendex*		PS-1060	250mg	**13356-08-6**
Venzar*		PS-415	100mg	**2164-08-1**
Venzonate*		PS-904	1g	**120-51-4**
**** Veratrole see 3965 o-Dimethoxybenzene**				
Vermitin		PS-733	1g	**92-84-2**
Vernam*		PS-504	250mg	**1929-77-7**
Vernolate		PS-504	250mg	**1929-77-7**
Vernolate Solution	100ug/ml in Acetonitrile	PS-504AJS	1mL	
Vernolate (S.G.)		F2213	250mg	**1929-77-7**
Vernolate Solution (S.G.)	100ug/ml in t-Butylmethyl ether	F2213JS	1ml	
Vernolate (S.G.)	100ug/ml in t-Butylmethyl ether	F2213S	5ml	
Verton*		PS-41	1g	**94-75-7**
Victoria blue B/C.I.#44045		BS-148	1g	**2580-56-5**
Victoria blue R/C.I.#44040		BS-149	1g	**2185-86-6**
Vinclozolin		PS-1049	1g	**50471-44-8**
Vinclozolin Solution	100ug/ml in Acetonitrile	PS-1049AJS	1mL	
Vinclozolin Solution	100ug/ml in Isooctane	PS-1049JS	1ml	
Vinetox*		PS-2184	250mg	**52207-48-4**
Vinyl acetate (S.G.)		F718	5g	**108-05-4**
Vinyl acetate Solution (S.G.)	2000ug/ml in Acetonitrile	F718JS	1ml	
Vinyl acetate (S.G.)	2000ug/ml in Acetonitrile	F718S	5ml	
Vinyl acetate (S.G.)		O-1019	10g	**108-05-4**
4-Vinyl anisole		8710F	100mg	**637-69-4**
Vinyl benzoate		8713F	100mg	**769-78-8**
Vinyl bicycloheptene		8716F	1g	**R**
Vinyl butyrate (S.G.)		O-1020	500mg	**123-20-6**
n-Vinyl carbazole		8730	5g	**1484-13-5**
Vinyl chloride (S.G.)	100ug/ml in Methanol	F88JS	1ml	
Vinyl chloride (S.G.)	100ug/ml in Methanol	F88S	5ml	
Vinyl chloride (S.G.)	2000ug/ml in Methanol	F88AJS	1ml	
Vinyl chloride (S.G.)	2000ug/ml in Methanol	F88AS	5ml	
Vinyl cyclohexane		8743F	2.5g	**695-12-5**
4-Vinyl-1-cyclohexene (S.G.)		O-759	10g	**100-40-3**
Vinyl cyclohexenedioxide		8732E	5g	**106-87-6**
Vinyl n-decanoate		8734J	10mg	**4704-31-8**
**** Vinylidene chloride see F29 1,1-Dichloroethene**				
N-Vinyl imidazole		8741F	100mg	**1072-63-5**
Vinyl lauryl ether		8751J	1g	**R**
Vinyl methoxysilane		8735	5g	**R**
2-Vinylnaphthalene (S.G.)		O-2369	10mg	**827-54-3**
5-Vinyl-2-norbornene		9157K	1g	**3048-64-4**
Vinyl oleate		8736J	10mg	**R**
Vinyl pivalate		8741J	10mg	**3377-92-2**
Vinyl propionate (S.G.)		O-1021	500mg	**105-38-4**
4-Vinylpyridine		8758C	10g	**100-43-6**
N-Vinyl-2-pyrrolidinone		8748	10g	**88-12-0**
Vinyl sulfone		8760H	1g	**77-77-0**
Violuric acid		8752E	1g	**87-39-8**
Viozene*		PS-657	100mg	**299-84-3**
Visor*		PS-2163	500mg	**117718-60-2**
Vista*		PS-2191	100mg	**81406-37-3**
Vitamin A palmitate (S.G.)		V-6	1g	**79-81-2**
Vitamin B1 hydrochloride (S.G.)		V-7	5g	**67-03-8**
Vitamin B1 mononitrate (S.G.)		V-8	1g	**532-43-4**
Vitamin B12 (S.G.)		V-14	100mg	**68-19-9**
Vitamin B2 (S.G.)		V-9	1g	**83-88-5**
Vitamin B3/B5 [Nicotinamide] (S.G.)		V-10	2g	**98-92-0**
Vitamin B3/B5 [Calcium pantothenate] (S.G.)		V-11	1g	**137-08-6**
Vitamin B6 (S.G.)		V-12	1g	**65-23-6**
Vitamin B6 hydrochloride (S.G.)		V-13	1g	**58-56-0**
Vitamin C (S.G.)		V-16	2g	**50-81-7**
Vitamin D2 (S.G.)		V-17	100mg	**50-14-6**
Cholecalciferol		PS-2289	100mg	**67-97-0**
Cholecalciferol Solution	100ug/ml in Acetonitrile	PS-2289AJS	1mL	
Cholecalciferol Solution	100ug/ml in Toluene	PS-2289JS	1mL	
Vitamin D3 (S.G.)		V-18	100mg	**67-97-0**
Vitamin E (S.G.)		V-19	100mg	**10191-41-0**
Vitamin E acid succinate (S.G.)		V-20	1g	**4345-03-3**
Vitamin H (S.G.)		V-21	100mg	**58-85-5**
Vitamin K1 (S.G.)		V-22	100mg	**84-80-0**
Vitamin K3 (S.G.)		V-23	1g	**58-27-5**
**** Vitamin M see V-24 Folic acid**				
Vitamin BX (S.G.)		V-15	2g	**150-13-0**
Vitamins Kit		VIT-1N	KIT	
Vitavax*		PS-294	250mg	**5234-68-4**
Viviful*		PS-2226	100mg	**127277-53-6**
Volatile Aromatic Compounds Mixture - 503/502/524	200ug/ml in Methanol	VAVOC-503JM	1ml	
Volatile Organic Compounds (VOC-1M & F88S)		MSVOC-2	KIT	
Volatile Organic Compounds Kit (VOC-1JM & F88JS)		MSVOCJ-2	KIT	
Volatile Organic Compounds Kit High Concentration (VOC-2JM & F88AJS)		MSHVOCJ-2	KIT	

Category Name	Specification	Catalog#	Size	CAS#
Volatile Organic Compounds Mixture #2 - 502/524,8021A,8260A				
	2000ug/ml in Methanol	VOC-2JM	1ml	
Volatile Organic Compounds Neat Kit - 8260A		VOC8260-1N	KIT	
Volatile Organic Compounds Solutions Kit - 8260A		VOC8260-1S	KIT	
Volatile Organic Compounds-Mixture	100ug/ml in Methanol	VOC-1JM	1ml	
Volatile Organic Compounds-Mixture	100ug/ml in Methanol	VOC-1M	5ml	
Volatile organic compounds-Neat		VOC-1N	KIT	
Volatile organic compounds-Solutions (Revised 01/01/92)		VOC-1S	KIT	
Volatile Organics 8240 - Solutions Kit		VOM-8240S	KIT	
Volatile Organics 8240-Neat		VOM-8240N	KIT	
Volatile Organics High Concentration Mixture #6	2000ug/ml in Methanol	VOHC-6JM	1ml	
Volatile Organics High Concentration Mixture #6	2000ug/ml in Methanol	VOHC-6M	5ml	
Volatile Organics Mixture #1 - 8240B	200ug/ml in Methanol:Water (90:10)	VOM8240-1M	5ml	
Volatile Organics Mixtures Kit - 502/524,8021A,8260A		MMVOC-2	KIT	
Volatile Organics Mixtures Kit #1J - 502/524,8021A,8260A		MMVOCJ-2	KIT	
Volatiles Calibration Check Mix-CLP	2000ug/ml in Methanol	CLP-7M	5ml	
Volatiles Matrix Spike Mix-8260/CLP	1000ug/ml in Methanol	CLP-5M	5ml	
Volatiles Mixture #1 - Skinner List	200ug/ml in Methanol:Water(90:10)	SKV-1JM	1ml	
Volatiles Mixture #1 - Skinner List	200ug/ml in Methanol:Water(90:10)	SKV-1M	5ml	
Volatiles System Performance Check Mix-8260/CLP	2000ug/ml in Methanol	CLP-6M	5ml	
Volaton*		PS-2100	100mg	**14816-18-3**
Voltage*		PS-2046	50mg	**77458-01-6**
Vorex*		PS-2143	100mg	**56073-07-5**
Voronit*		PS-2059	100mg	**3878-19-1**
VPM*		PS-221	250mg	**6734-80-1**
Vulklor*		PS-11	250mg	**118-75-2**
Warbex*		PS-671	250mg	**52-85-7**
Warf*		PS-104	1g	**81-81-2**
Warfarin		PS-104	1g	**81-81-2**
Warfarin Solution	100ug/ml in Acetonitrile	PS-104AJS	1mL	
Warfarin Solution	100ug/mL in Toluene	PS-104JS	1mL	
Warfarin Solution	100ug/mL in Toluene	PS-104JS	1mL	
Warf Compound 42*		PS-104	1g	**81-81-2**
Washington EPH Aliphatic Hydrocarbon Standards Mixture	1000ug/ml in Hexane	USTALWA-1JM	1ml	
Washington EPH Aliphatic Hydrocarbon Standards Mixture	1000ug/ml in Hexane	USTALWA-1M	5ml	
Washington VPH Matrix Spiking Mixture	50ug/ml in Methanol	USTMSWAV-1JM	1ml	
Washington VPH Matrix Spiking Mixture	50ug/ml in Methanol	USTMSWAV-1M	5ml	
Washington VPH Primary Dilution Standard Mixture (with Surrogate)				
	2000ug/ml in Methanol	USTVPHWA-1JM	1ml	
Washington VPH Primary Dilution Standard Mixture (with Surrogate)				
	2000ug/ml in Methanol	USTVPHWA-1M	5ml	
Washington VPH Primary Dilution Standard Mixture (no Surrogate)				
	2000ug/ml in Methanol	USTVPHWA-2JM	1ml	
Washington VPH Primary Dilution Standard Mixture (no Surrogate)				
	2000ug/ml in Methanol	USTVPHWA-2M	5ml	
Water Soluble Vitamins Kit		VIT-2N	KIT	
Water Stdrds-Base Neutrals-Method 625-Neat Form		PPW-25N	KIT	
Water Stdrds-Purgeables-Method 624		PPW-24S	KIT	
Water Stdrds-Purgeables-Method 624-Neat Form		PPW-24N	KIT	
Water Strdrds-Base Neutrals-Method 625-Solutions		PPW-25S	KIT	
Wavecal Solution (in 5% HNO3)		XWAVECAL-A	100ml	
Wavecal Solution (in 5% HNO3)		XWAVECAL-B	250ml	
Wavecal Solution (in 2% HCl)		XWAVECS	250ml	
Waylay*		PS-553	250mg	**15299-99-7**
WeatherBlok*		PS-1056	50mg	**56073-10-0**
50% Weathered Kerosene Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-623-1JS	1ml	
25% Weathered Kerosene Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-622-1JS	1ml	
75% Weathered Kerosene Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-624-1JS	1ml	
25% Weathered Mineral Spirits Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-702-1JS	1ml	
50% Weathered Mineral Spirits Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-703-1JS	1ml	
75% Weathered Mineral Spirits Solution (S.G.)	5000ug/ml in Methylene chloride	CSRGO-704-1JS	1ml	
Weedar*		PS-41	1g	**94-75-7**
Weedazol*		PS-382	250mg	**61-82-5**

Category Name	Specification	Catalog#	Size	CAS#
Weedicide Amine*		PS-337	1g	**2008-39-1**
Weedol*		PS-366	500mg	**1910-42-5**
Weedone		PS-45	250mg	**93-76-5**
Wheat Flour Solution		XCRM-WF-A	100ml	
Wheat Flour Solution		XCRM-WF-B	250ml	
Wheat Flour Solution		XCRM-WF-C	500ml	
Whip*		PS-1088	100mg	**66441-23-4**
Wisconsin PVOC/GRO Mixture #1	1000ug/ml in Methanol	USTWI-1JM	1ml	
Wisconsin PVOC/GRO Mixture #1	1000ug/ml in Methanol	USTWI-1M	5ml	
Wood's alloy-fusible stick		I-6470	10g	**8049-22-7**
Wool green S/C.I.#44090		BS-106	1g	**3087-16-9**
Wrights stain		BS-110	1g	**68988-92-1**
Xanthene-9-carboxylic acid		9175K	100mg	**82-07-5**
Xanthine		8774F	100mg	**69-89-6**
Xylan		CARB-38	1g	**9014-63-5**
o-Xylene-d10 (S.G.)		F2547	100mg	**56004-61-6**
p-Xylene-d10 (S.G.)		F2548	100mg	**41051-88-1**
o-Xylene (S.G.)		F719	5g	**95-47-6**
o-Xylene Solution (S.G.)	100ug/ml in Methanol	F719JS	1ml	
o-Xylene (S.G.)	100ug/ml in Methanol	F719S	5ml	
o-Xylene (S.G.)		O-779	10g	**95-47-6**
m-Xylene (S.G.)		F829	5g	**108-38-3**
m-Xylene (d10) (S.G.)		FD829-5	5g	**R**
m-Xylene (S.G.)		O-780	10g	**108-38-3**
m-Xylene Solution (S.G.)	100ug/ml in Methanol	F829JS	1ml	
m-Xylene (S.G.)	100ug/ml in Methanol	F829S	5ml	
p-Xylene (S.G.)		F830	5g	**106-42-3**
p-Xylene (S.G.)		O-781	10g	**106-42-3**
p-Xylene Solution (S.G.)	100ug/ml in Methanol	F830JS	1ml	
p-Xylene (S.G.)	100ug/ml in Methanol	F830S	5ml	
Xylene cyanole FF/C.I.#43535		BS-58	1g	**2650-17-1**
m-Xylene-a.a'-diamine		8778A	10g	**1477-55-0**
m-Xylene-a.a'-diol		8783F	100mg	**626-18-6**
p-Xylene-a.a'-dithiol		8789F	500mg	**105-09-9**
Xylenes (mixed) (S.G.)		O-2294	5g	**1330-20-7**
p-Xylenesulfonic acid		8760	1g	**609-54-1**
**** 2.6-Xylidine see O-2054 2.6-Dimethylaniline**				
Xylitol		CARB-32	1g	**87-99-0**
D-Xylose		CARB-22	5g	**58-86-6**
L-(-)-Xylose		CARB-23	1g	**609-06-3**
m-Xylylene diammonium adipate (R.G.)		N-330	1g	**R**
m-Xylylene diammonium isophthalate (R.G.)		N-350	1g	**R**
m-Xylylene diammonium terephthalate (R.G.)		N-360	1g	**R**
Yanock*		PS-2029	1g	**640-19-7**
**** Ylid see M-21A1-1 Benzyltriphenyl phosphonium bromide - sodium amide**				
Yomesan*		PS-1207	250mg	**50-65-7**
Ytterbium - 10% HCl		X10M 66-2-100	100ml	
Ytterbium - 10% HCl		X10M 66-2-250	250ml	
Ytterbium - 10% HCl		X10M 66-2-500	500ml	
Ytterbium - 4% HNO3		X10M 66-1-100	100ml	
Ytterbium - 4% HNO3		X10M 66-1-250	250ml	
Ytterbium - 4% HNO3		X10M 66-1-500	500ml	
Ytterbium - Yb2O3, 99.99%, 2% HCl		X100066-2-A	100ml	
Ytterbium - Yb2O3, 99.99%, 2% HCl		X100066-2-B	250ml	
Ytterbium - Yb2O3, 99.99%, 2% HCl		X100066-2-C	500ml	
Ytterbium - Yb2O3, 99.99%, 2% HNO3		X100066-1-A	100ml	
Ytterbium - Yb2O3, 99.99%, 2% HNO3		X100066-1-B	250ml	
Ytterbium - Yb2O3, 99.99%, 2% HNO3		X100066-1-C	500ml	
Ytterbium Oxide (Yb2O3) 99.99%		XYB-O-A	5g	
Ytterbium Oxide (Yb2O3) 99.99%		XYB-O-B	25g	
Yttrium - 10% HCl		X10M 67-2-100	100ml	
Yttrium - 10% HCl		X10M 67-2-250	250ml	
Yttrium - 10% HCl		X10M 67-2-500	500ml	

Category Name	Specification	Catalog#	Size	CAS#
Yttrium - 4% HNO3		X10M 67-1-100	100ml	
Yttrium - 4% HNO3		X10M 67-1-250	250ml	
Yttrium - 4% HNO3		X10M 67-1-500	500ml	
Yttrium - Y2O3, 99.99%, 2% HCl		X100067-2-A	100ml	
Yttrium - Y2O3, 99.99%, 2% HCl		X100067-2-B	250ml	
Yttrium - Y2O3, 99.99%, 2% HCl		X100067-2-C	500ml	
Yttrium - Y2O3, 99.99%, 2% HNO3		X100067-1-A	100ml	
Yttrium - Y2O3, 99.99%, 2% HNO3		X100067-1-B	250ml	
Yttrium - Y2O3, 99.99%, 2% HNO3		X100067-1-C	500ml	
Yttrium acetate		I-6473	1g	**23363-14-6**
Yttrium fluoride		I-6475	1g	**13709-49-4**
Yttrium Oxide (Y2O3) 99.99%		XY-O-A	5g	
Yttrium Oxide (Y2O3) 99.99%		XY-O-B	25g	
Zardex*		PS-2092	500mg	**54460-46-7**
Zectran (S.G.)		F2559	500mg	**315-18-4**
Zectran Solution (S.G.)	1000ug/ml in Acetonitrile	F2559JS	1ml	
Zectran (S.G.)	1000ug/ml in Acetonitrile	F2559S	5ml	
Zectran		PS-756	500mg	**315-18-4**
Zectran Solution	100ug/ml in Toluene	PS-756JS	1mL	
Zectran*		PS-756	500mg	**315-18-4**
Zein(corn)		8825B	10g	**9010-66-6**
Zephyr*		PS-2068	100mg	**71751-41-2**
Zerlate*		PS-21	1g	**137-30-4**
Zimate*		PS-21	1g	**137-30-4**
Zimecterin*		PS-2220	100mg	**70288-86-7**
Zinc metal-granular-20 mesh		I-6614	10g	**7440-66-6**
Zinc metal-mossy		I-6616	10g	**7440-66-6**
Zinc metal-sticks		I-6618	10g	**7440-66-6**
Zinc - 10% HCl		X10M 68-2-100	100ml	
Zinc - 10% HCl		X10M 68-2-250	250ml	
Zinc - 10% HCl		X10M 68-2-500	500ml	
Zinc - 4% HNO3		X10M 68-1-100	100ml	
Zinc - 4% HNO3		X10M 68-1-250	250ml	
Zinc - 4% HNO3		X10M 68-1-500	500ml	
Zinc - Zn metal, 99.999%, 2% HNO3		X100068-1-A	100ml	
Zinc - Zn metal, 99.999%, 2% HNO3		X100068-1-B	250ml	
Zinc - Zn metal, 99.999%, 2% HNO3		X100068-1-C	500ml	
Zinc - Zn metal,99.999%,2% HCl		X100068-2-A	100ml	
Zinc - Zn metal,99.999%,2% HCl		X100068-2-B	250ml	
Zinc - Zn metal,99.999%,2% HCl		X100068-2-C	500ml	
Zinc acetate		I-163	10g	**5970-45-6**
Zinc arsenate		I-6490	10g	**R**
Zinc arsenite		I-6500	10g	**10326-24-6**
Zinc borate		I-6510	10g	**12767-90-7**
Zinc bromide		I-6520	10g	**7699-45-8**
Zinc carbonate		I-6530	10g	**5970-47-8**
Zinc chloride		I-164	10g	**7646-85-7**
Zinc Chloride (ZnCl2) 99.999%		XZN-CL-S-A	5g	
Zinc Chloride (ZnCl2) 99.999%		XZN-CL-S-B	25g	
Zinc citrate		I-6550	10g	**5990-32-9**
Zinc cyanide		I-6560	1g	**557-21-1**
Zinc diamyldithiocarbamate (TECH)		Ou-74	3g	**R**
Zinc dibenzyl dithiocarbamate (TECH)		Ou-75	3g	**14726-36-4**
Zinc dibutyldithiocarbamate (TECH)		Ou-76	3g	**136-23-2**
Zinc dimethyldithiocarbamate		PS-21	1g	**137-30-4**
Zinc ethylene bis(dithiocarbamate)		PS-23	1g	**12122-67-7**
Zinc fluoride		I-6570	10g	**7783-49-5**
Zinc laurate (TECH)		S-114	10g	**R**
Zinc linoleate (TECH)		S-118	10g	**R**
Zinc and Manganese ethylene bisdithiocarbamate coordination pr		PS-2095	500mg	**8018-01-7**
Zinc Metallic - Organic Standard	1000ug/g in Mineral Oil	XZNOMS	100g	

Category Name	Specification	Catalog#	Size	CAS#
Zinc naphthenate (TECH)		S-119	10g	**R**
Zinc nitrate		I-165	10g	**10196-18-6**
Zinc oleate (TECH)		S-117	10g	**557-07-3**
Zinc oxide		I-6640	10g	**1314-13-2**
Zinc Oxide (ZnO) 99.999%		XZN-O-A	5g	
Zinc Oxide (ZnO) 99.999%		XZN-O-B	25g	
Zinc palmitate (TECH)		S-115	10g	**4991-47-3**
Zinc phosphate		PS-803	1g	**R**
Zinc phosphate Solution	100ug/ml in H2O	PS-803AJS	1mL	**R**
Zinc phosphate Solution	100ug/ml in Toluene	PS-803JS	1mL	**R**
Zinc phosphate-monobasic		I-6650	10g	**13986-21-5**
Zinc phosphate-tribasic		I-6655	10g	**14485-28-0**
Zinc Powder (Zn) 99.999%		XZN-MP-A	5g	
Zinc Powder (Zn) 99.999%		XZN-MP-B	25g	
Zinc resinate (TECH)		S-120	5g	**9010-69-9**
Zinc Shot (Zn) 99.999%		XZN-MS-A	5g	
Zinc Shot (Zn) 99.999%		XZN-MS-B	25g	
Zinc silicofluoride		I-6700	10g	**18433-42-6**
Zinc stannate		I-6710	5g	**12027-96-2**
Zinc stearate (TECH)		S-116	5g	**557-05-1**
Zinc sulfamate		I-6730	1g	**13770-90-6**
Zinc sulfate		I-166	10g	**7446-20-0**
Zinc sulfide-neutral powder		I-6740	10g	**1314-98-3**
Zinc sulfite		I-6750	10g	**7488-52-0**
Zinc tartrate		I-6760	10g	**22570-08-7**
Zinc thiocyanate		I-6780	1g	**557-42-6**
Zinc titanate		I-6790	10g	**12036-43-0**
Zineb		PS-23	1g	**12122-67-7**
Zinophos (TM) Solution	100ug/ml in Acetonitrile	PS-668JS	1mL	
Zinophos (TM) (S.G.)		F2152	50mg	**297-97-2**
Zinophos (TM) Solution (S.G.)	100ug/ml in Hexane	F2152JS	1ml	
Zinophos (TM) (S.G.)	100ug/ml in Hexane	F2152S	5ml	
Zinophos		PS-668	50mg	**297-97-2**
Ziram		PS-21	1g	**137-30-4**
Ziram (S.G.)		F2368	1g	**137-30-4**
Ziram Solution (S.G.)	100ug/ml in Acetonitrile	F2368JS	1ml	
Ziram (S.G.)	100ug/ml in Acetonitrile	F2368S	5ml	
Zirbek*		PS-21	1g	**137-30-4**
Zirconium - sponge		I-6855	5g	
Zirconium - 4% HNO3 + 2% HF		X10M 69-3-250	250ml	
Zirconium - 4% HNO3 + 2% HF		X10M 69-3-500	500ml	
Zirconium - Zr metal, 99.84%, 2% HNO3+0.5% HF		X100069-3-A	100ml	
Zirconium - Zr metal, 99.84%, 2% HNO3+0.5% HF		X100069-3-B	250ml	
Zirconium - Zr metal, 99.84%, 2% HNO3+0.5% HF		X100069-3-C	500ml	
Zirconium 4% HNO3 + 2% HF		X10M 69-3-100	100ml	
Zirconium acetylacetonate		I-6815	1g	**17501-44-9**
Zirconium Chips (Zr) 99.9%		XZR-MC-A	5g	
Zirconium Chips (Zr) 99.9%		XZR-MC-B	25g	
Zirconium Oxide (ZrO2) 99.998%		XZR-O-A	5g	
Zirconium Oxide (ZrO2) 99.998%		XZR-O-B	25gm	
Zirconium silicate		I-6870	1g	**10101-52-7**
Zirconium tetrachloride		I-6890	10g	**10026-11-6**
Zirconium tetrafluoride		I-6900	5g	**7783-64-4**
Zirconyl chloride		I-6830	10g	**13520-92-8**
Zirconyl nitrate		I-6850	10g	**14985-18-3**
Zolone*		PS-682	100mg	**2310-17-0**
Zoocoumarin		PS-104	1g	**81-81-2**
Zorial*		PS-1044	100mg	**27314-13-2**
Zoxamide		PS-2361	100mg	**156052-68-5**
Zymin		8797F	1g	**R**

Chem Service inc

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WEST CHESTER, PA 19381, USA
PHONE: 610-692-3026
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CHEM SERVICE ACCOUNT NO.# _____ DEPT. _____

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EPA METHOD _____

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	ANALYTE	CATALOG #	CAS#	CONCENTRATION
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
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22.				

TOTAL # OF ANALYTES: _____

DESIRED CONCENTRATION AND SOLVENT: _____

VOLUME (***check one***)**:** 1mL_____ 2mL_____ 5mL_____ 10mL_____ Other_____ # of Units: _____

MSDS provided with all standards. *Amber Ampules used unless specified otherwise:* _____

DOCUMENTATION ***(check one):***

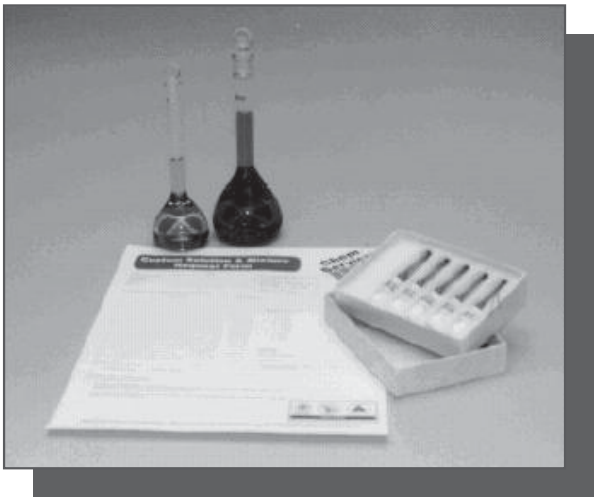
❑ **Gravimetric Certification:** Guarantees the analytes in the custom standard to be made within ± 5% of specifications.

❑ **Quantitative Certification:** Includes verification of the concentration and peak identification.

All mixtures are prepared in accordance with our ISO 9001 & ISO 17025 registration. All analytes are certified >/= 98% unless noted. Corrections are made to 100% purity.

Government/State/Agency Methods

The Government/State/Agency chemical standard section provides the necessary standards to run various published methods. These solutions are tested and certified according to a stringent quality criterion. They follow the guidelines for standard preparation for the indicated methods and conform to the high standards of our ISO certification program. We retain samples of the test solutions for on-going stability studies.



First the purity and identification of each compound is established before the compound is utilized for a solution or mixture. For stock and custom solutions, corrections are made for any compound having a starting purity of less than 99%. Certificate of Analyses are provided on request. All mixtures and solutions are shipped with Material Safety Data Sheets. All of the solutions are traceable by a lot number.

Provided with each solution is a list of each of the individual compounds in the solution. The individual compounds can be purchased as individual materials at 98+% purity, when available, if so desired.

Standards

- EPA 500 Series Methods for Drinking Water (501 through 556).
- EPA 600 Series Methods for Wastewater Pollutants (601 through 1626).
- EPA 1600 Series Methods for Wastewater Pollutants (1618 though 1666).
- EPA SW-846/8000 and 5000 Series Methods for Monitoring Organic Pollutants in Groundwater, Wastewater, and Solid Waste.
- EPA TCLP 1311 Methods for Determination of Both Organic and Inorganic Analytes in Liquid, Solid, and Multiphasic Wastes.
- EPA Contract Laboratory Program Standards for Target Compound List in Ground Water, Sediment, and Soil.
- Air Toxic Methods TO-1 through TO-13.
- Total Petroleum Hydrocarbons.
- ASTM Methods.
- UST Standards Including Weathered Fuel and State Standards.
- Hazardous Substance List (HSL) Volatiles Standard Mixture.
- International Standards for Canada (MISA), German Azodye Standards, Europe, Japan JMHW.

EPA 500 Series Methods for Drinking Water

Under the authority of The Safe Drinking Water Act (SDWA), these analytical standards were developed by the US EPA Environmental Systems Laboratory in Cincinnati (EMSL-CI). The 500 Series methods are used to monitor established maximum contaminant levels for organic compounds in drinking water. Use of these methods will identify and quantify organic chemicals including trihalomethanes and by-products, volatile organic compounds (VOC) pesticides, polycyclic aromatic hydrocarbons (PAH), as well as synthetic organic compounds (SOC) in drinking water.

In our listing of these EPA Methods, where there are crossovers to other methods, we list the secondary method (e.g. 502/524) as well. Most of the 500 Method compounds are available neat as well as in solutions for our customer's convenience.

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METHOD 501 – TRIHALOMETHANES

Method 501 is applicable for determination of four trihalomethanes, (Chloroform, Dichlorobromoethane, Dibromochloromethane, and Bromoform) in raw source water, or drinking water in any stage of treatment, and in finished drinking water by purge and trap gas chromatograph.

In 501.3, selected ion monitoring with a mass spectrometer is substituted for the halide-specific gas chromatographic detector specified in Method 501.1.

TRIHALOMETHANES
EPA METHOD 501, *601/602, 8010B*

- Bromodichloromethane
- Bromoform
- Chlorodibromomethane
- Chloroform

Neat Compounds of each of the above (4 component kit)
PP-41N KIT

5mL Solutions of each, 200ug/mL in Methanol (4 component kit)
PP-41S KIT

100ug/mL in Methanol (4 components)
PP-41M 5mL Ampule
PP-41JM 1mL Ampule

MIXTURE
EPA METHOD 501.1

- Benzene
- Bromoform
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- 1,1,1,-Trichloroethane
- Trichloroethene
- Vinyl chloride

200ug/mL in Methanol (8 components) **CS-501.1-200**
2000ug/mL in Methanol (8 components) **CS-501.1-2000 1mL**

MIXTURE
EPA METHOD 501.2

- Chlorobenzene
- 1,2-Dichlorobenzene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- Ethylbenzene
- Styrene
- Tetrachloroethene
- Toluene
- m-Xylene
- o-Xylene
- p-Xylene

200ug/mL in Methanol (12 components) **CS-501.2-200**
2000ug/mL in Methanol (12 components) **PV524-1JM 1mL**

MIXTURE
EPA METHOD 501.3

- Methylene chloride
- 1,2,4-Trichlorobenzene
- 1,1,2-Trichloroethane

200ug/mL in Methanol (3 components) **CS-501.3-200**
2000ug/mL in Methanol (3 components) **CS-501.3-2000 1mL**

TRIHALOMETHANES KIT
EPA METHOD 501.1, 501.2, 501.3

- Trihalomethanes High Concentration Mixture **THM-501JM**
- Trihalomethanes Mixture 501.1 **CS-501.1-2000**
- Trihalomethanes Mixture 501.2 **CS-501.2-2000**
- Trihalomethanes Mixture 501.3 **PV524-1JM**

1mL of each in Methanol **CS-501-2000 1mL**

METHOD 502/524 – VOLATILE ORGANIC COMPOUNDS

Method 502.1 identifies volatile halogenated organic compounds, in water, by purge and trap gas chromatography.

Method 502.2 is a general purpose method for the identification and measurement of purgeable volatile organic compounds in finished drinking water, raw source water, or drinking water in any treatment stage. 502.2 is applicable to a wide range of organic compounds that have sufficient volatility and low water solubility to be efficiently removed from water samples by purge and trap procedures. After purging is complete, a capillary gas chromatography (GC) column is used to separate the method analytes followed by photoionization detection (PID).

Methods 524.1 and 524.2 are general purpose methods for the identification of a wide range of organic compounds and simultaneous measurement of purgeable volatile organic compounds in finished drinking water, raw source water, or drinking water in any treatment stage.

VOLATILE ORGANIC COMPOUNDS
EPA METHOD 502/524, *8021A, 8260A*

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- n-Butyl benzene
- sec-Butyl benzene
- tert-Butyl benzene
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane
- Chloroform
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropyl benzene
- p-Isopropyl toluene
- Methyl bromide
- Methyl chloride
- Methylene chloride
- Naphthalene
- n-Propyl benzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Vinyl chloride
- o-Xylene
- m-Xylene
- p-Xylene

NOTE: Vinyl chloride (F88S) is not included in the mixtures due to its instability.

Neat compounds, where applicable of each of the above (60 component kit)	**VOC-1N**
5mL Solutions of each, in the appropriate solvent (60 component kit)	**VOC-1S**
Mixture at 100ug/mL in Methanol, 5mL Ampule (59 components)	**VOC-1M**
Mixture at 100ug/mL in Methanol, 1mL Ampule (59 components)	**VOC-1JM**
Mixture at 2000ug/mL in Methanol, 1mL Ampule (59 components)	**VOC-2JM**

VOLATILE ORGANIC COMPOUNDS *(VOC-1M & F88S)*
EPA METHOD 502/524, *8021A/8260A*

Volatile Organic Compounds Mixture	**VOC-1M**	5mL of each, in the appropriate solvent (2 component kit)
Vinyl chloride Solution (Ampule)	**F88S**	**MSVOC-2 KIT**

VOLATILE ORGANIC COMPOUNDS KIT *(VOC-1JM & F88JS)*
EPA METHOD 502/524, *8021A/8260A*

Volatile Organic Compounds Mixture	**VOC-1JM**	1mL of each, in the appropriate solvent (2 component kit)
Vinyl chloride Solution	**F88JS**	**MSVOCJ-2 KIT**

VOLATILE ORGANIC COMPOUNDS KIT HIGH CONCENTRATION *(VOC-2JM & F88AJS)*
EPA METHOD 502/524, *8021A/8260A*

Volatile Organic Compounds Mixture #2	**VOC-2JM**	1mL of each, in the appropriate solvent (2 component kit)
Vinyl chloride Solution	**F88AJS**	**MSHVOCJ-2 KIT**

VINYL CHLORIDE STANDARDS
EPA METHOD 502/524, *624/1624, 8021A, 8260A*

F88S	5mL	Vinyl chloride 100ug/mL	Methanol (Ampule)
F88JS	1mL	100ug/mL	Methanol (Ampule)
F88AS	5mL	2000ug/mL	Methanol (Ampule)
F88AJS	1mL	2000ug/mL	Methanol (Ampule)

EPA METHOD 502.2/524.2 ANALYTES

To achieve the complete analyte listing for **EPA Method 502.2**, use either **MSVOC-2** or **HVOC-1JM**, **AVOC-1M** and **F88S** combined.

To achieve the complete analyte listing for **EPA Method 524.2**, use either **MSVOC-2** and **POC-1JM** combined or **HVOC-1JM**, **AVOC-1M**, **F88S** and **POC-1JM** combined.

AROMATIC VOLATILE ORGANICS MIXTURE
EPA METHOD 502/524, *8021A, 8260A*

- Benzene
- Bromobenzene
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Chlorobenzene
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Isopropylbenzene
- p-Isopropyltoluene
- Naphthalene
- n-Propylbenzene
- Styrene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

100ug/mL in Methanol, 5mL (25 components)
AVOC-1M 5mL Ampule
AVOC-1JM 1mL Ampule

2000ug/mL in Methanol (25 components)
AVOC-2JM 1mL Ampule

GAS STANDARDS
EPA METHOD 502/524, *601/602, 624/1624, 8010B, 8021A, 8240B/8260A, 5041*

- Chloroethane
- Dichlorodifluoromethane
- Methyl bromide
- Methyl chloride
- Trichlorofluoromethane
- Vinyl chloride

5mL Solutions of each, 100ug/mL in Methanol (6 component kit)
PP-9 KIT

200ug/mL in Methanol - (6 components)
PP-9JM 1mL Ampule

2000ug/mL in Methanol - (6 components)
VOHC-6M 5mL Ampule
VOHC-6JM 1mL Ampule

HALOALKANES VOLATILE ORGANIC COMPOUNDS MIXTURE
EPA METHOD 502/524, *8021A, 8260A*

- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorodibromomethane
- Chloroethane
- Chloroform
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1.2-Dichloroethene
- trans-1.2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Hexachloro-1,3-butadiene
- Methyl bromide
- Methylene chloride
- Methyl chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane

100ug/mL in Methanol - (34 components)
HVOC-1JM 1mL Ampule

2000ug/mL in Methanol - (34 components)
HVOC-2JM 1mL Ampule

LIQUID VOLATILE ORGANIC COMPOUNDS MIXTURE

EPA METHOD 502/524, *8021A, 8260A*

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 2-Chlorotoluene
- 4-Chlorotoluene
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1.2-Dichloroethene
- trans-1.2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1.3-Dichloropropene
- trans-1.3-Dichloropropene
- Ethylbenzene
- Hexachloro-1.3-butadiene
- Isopropylbenzene
- p-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (54 components) **LVOC-1M** **5mL Ampule**
LVOC-1JM **1mL Ampule**

VOLATILE ORGANICS MIXTURES KIT #1J

EPA METHOD 502/524, *8021A, 8260A*

Liquid Volatile Organic Compounds Mixture **LVOC-1JM**
Volatile Organics High Concentration Mixture #6 **VOHC-1JM**
1mL of each, in the appropriate solvent - (2 component kit) **MMVOCJ-2** **KIT**

PURGEABLE ORGANIC COMPOUNDS - SUPPLEMENT

EPA METHOD 524.2, *8260A*

- Acetone
- Acrylonitrile
- 2-Butanone
- Carbon disulfide
- Chloroacetonitrile
- 1-Chlorobutane
- 1,4-Dichloro-2-butene cis & trans
- 1,1-Dichloroacetone
- Ethyl ether
- Ethyl methacrylate
- Hexachloroethane
- 2-Hexanone
- Methacrylonitrile
- Methyl acrylate
- Methyl iodide
- Methyl methacrylate
- 4-Methyl-2-pentanone
- tert-Butyl methyl ether
- Nitrobenzene
- 2-Nitropropane
- Pentachloroethane
- Propionitrile
- Tetrahydrofuran

100ug/mL in Methanol Water (95.5) - (23 components) **POC-1JM** **1mL Ampule**

NOTE: Inhibited with Hydroquinone

BTEX MIXTURES

EPA METHOD 502/524, *8020B, CLP*

- Benzene
- Ethylbenzene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene

200ug/mL in Methanol - (6 components) **BTEX-1M** **5mL Ampule**
BTEX-1JM **1mL Ampule**

2000ug/mL in Methanol - (6 components) **BTEX-2M** **5mL Ampule**
BTEX-2JM **1mL Ampule**

VOLATILE ORGANICS MIXTURES KIT

EPA METHOD 502/524, *8021A/8260A*

Liquid Volatile Organic Compounds Mixture **LVOC-1M**
Volatile Organics High Concentration Mixture #6 **VOHC-6M**
5mL of each of the above in the appropriate solvent - (2 components) **MMVOC-2** **KIT**

BTEX & MTBE MIXTURE

EPA METHOD 502/524, *CLP*

- Benzene
- Ethylbenzene
- o-Xylene
- p-Xylene
- tert-Butyl methyl ether
- Toluene
- m-Xylene

1000ug/mL in Methanol - (7 components) **MBTEX-2M** **5mL Ampule**
MBTEX-2JM **1mL Ampule**

2000ug/mL in Methanol - (7 components) **MBTEX-1M** **5mL Ampule**
MBTEX-1JM **1mL Ampule**

REGULATED VOLATILES MIXTURE
EPA METHOD 524.2

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroform
- Chlorodibromomethane
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- Vinyl chloride

2000ug/mL in Methanol - (12 components)
RV524-1M **5mL Ampule**
RV524-1JM **1mL Ampule**

PROMULGATED VOLATILES MIXTURE
EPA METHOD 524.2

- Chlorobenzene
- 1,2-Dichlorobenzene
- cis-1.2-Dichloroethene
- trans-1.2-Dichloroethene
- 1,2-Dichloropropane
- Ethylbenzene
- Styrene
- Tetrachloroethene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (12 components)
PV524-1M **5mL Ampule**
PV524-1JM **1mL Ampule**

TUNING STANDARDS
EPA METHOD 502/524

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol (Ampule)
F833JS	1mL	2000ug/mL	Methanol (Ampule)

SURROGATE STANDARDS MIXTURE
EPA METHOD 502/524

- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d

2000ug/mL in Methanol - (2 components)
SS-524M **5mL**
SS-524JM **1mL**

INTERNAL STANDARDS MIXTURES
EPA METHOD 502/524, 502.2, *8021A*

- 2-Bromo-1-chloropropane
- Fluorobenzene

2000ug/mL in Methanol - (2 components)
IS-502M **5mL**
IS-502JM **1mL**

INTERNAL STANDARDS MIXTURE HIGH CONCENTRATION
EPA METHOD 524.2

- 4-Bromofluorobenzene
- Fluorobenzene
- 1,2-Dichlorobenzene-d_4

2000ug/mL in Methanol - (3 components)
ISVH-524M **5mL Ampule**
ISVH-524JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 502/524

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)

F835	100mg	1.2-Dichlorobenzene-d_4	
F835S	5mL	2000ug/mL	Methanol
F835JS	1mL	2000ug/mL	Methanol (Ampule)

EPA Method Request Form

Many of the following EPA standards are very similar. Chem Service prepares an exellent assortment of standards for these EPA methods. When seeking a particluar standard, please check if it may be listed under a similar method. If you need a standard which we have not yet catalogued, please use the custom solution and mixture form. (The method may already be in process.) Your request will be returned to you promptly.

Prior to the expiration date shown on the label and exclusive of any customer contamination, we will replace any products showing purity degradation. The expiration date expressed XX/YY refers to the month and year through which our product is under warranty. Our warranty extends through the last day of the month.

INTERNAL STANDARDS
EPA METHOD 502/524

F204	2 g	1,4-Dichlorobutane	
F204S	5 mL	100ug/mL	Methanol (Ampule)
F204JS	1 mL	100ug/mL	Methanol (Ampule)
F204AS	5 mL	2000ug/mL	Methanol (Ampule)
F204AJS	1 mL	2000ug/mL	Methanol (Ampule)
F204BS	5 mL	20,000ug/mL	Methanol (Ampule)
F204BJS	1 mL	20,000ug/mL	Methanol (Ampule)
F205	500 mg	2-Bromo-1-chloropropane	
F205S	5 mL	100ug/mL	Methanol
F205JS	1 mL	100ug/mL	Methanol (Ampule)
F205AS	5 mL	2000ug/mL	Methanol
F205AJS	1 mL	2000ug/mL	Methanol (Ampule)
F205BS	5 mL	20,000ug/mL	Methanol
F205BJS	1 mL	20,000ug/mL	Methanol (Ampule)
F2168	1 g	1-Chloro-2-fluorobenzene	
F2168S	5 mL	100ug/mL	Methanol
F2168JS	1 mL	100ug/mL	Methanol (Ampule)
F835	100 mg	1,2-Dichlorobenzene-d_4	
F835S	5 mL	2000ug/mL	Methanol
F835JS	1 mL	2000ug/mL	Methanol
F839	2 g	Fluorobenzene	
F839S	5 mL	2000ug/mL	Methanol (Ampule)
F839JS	1 mL	2000ug/mL	Methanol (Ampule)

The Chem Service Difference.

Our Standards Grade Solutions and Mixtures have been reviewed for possible solvent reactions and reactions with the other components. Every solution has weighed out components and is analytically compared with an independently prepared solution.

METHOD 503.1 – VOLATILE AROMATIC COMPOUNDS

Method 503.1 is applicable to the determination of various volatile aromatic and unsaturated organic compounds by purge and trap gas chromatography in finished drinking water, any raw source water, or drinking water in any treatment stage.

VOLATILE AROMATIC COMPOUNDS
EPA METHOD 503.1

- Benzene
- Bromobenzene
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Chlorobenzene
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Hexachloro-1.3-butadiene
- Isopropylbenzene
- p-Isopropyltoluene
- Naphthalene
- n-Propylbenzene
- Styrene
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- Trichloroethene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

200ug/mL in Methanol - (28 components)
VAVOC-503JM 1mL Ampule

INTERNAL STANDARDS
EPA METHOD 503.1

F450	1 g	a.a.a.-Trifluorotoluene	Methanol
F450S	5 mL	100ug/mL	Methanol
F450JS	1 mL	100ug/mL	Methanol (Ampule)
F450AS	5 mL	2000ug/mL	Methanol
F450AJS	1 mL	2000ug/mL	Methanol (Ampule)

Chem Service Now Offers Pesticide Solutions.

All of our Pesticides are now available in solution. Most at 100ug/mL and are in the most suitable solvent to ensure solubility and stability. As always, our Pesticide Solutions will come with a MSDS and a Certificate of Analysis. Every solution is prepared from certified neat components and solvents and then is analytically compared with an independently prepared solution.

We Quantitatively Test our Solutions.

IF YOU DO NOT SEE THE SOLUTION YOU ARE LOOKING FOR, JUST CALL US FOR DETAILS.

PHONE: 1-800-452-9994 or 610-692-3026 ■ FAX: 610-692-8729 ■ EMAIL: info@chemservice.com

METHOD 504, 504.1 – EDB & DBCP

Method 504 is applicable for the determination of 1,2-Dibromoethane (EDB) and 1,2-Dibromo-3-chloropropane (DBCP) in finished drinking water, raw source water, or drinking water in any treatment stage by microextraction and gas chromatography.

Method 504.1 is applicable to the determination of 1,2-Dibromoethane (EDB), 1,2-Dibromo-3-chloropropane and 1,2,3-Trichloropropane (123TCP) in water by microextraction and gas chromatography in finished drinking water and groundwater.

EDB/DBCP
EPA METHOD 504, *8010B, 8011*

- 1,2-Dibromo-3-chloropropane (DBCP)
- 1,2-Dibromoethane (EDB)

2000ug/mL in Methanol - (2 components)
CSHC-16 **5mL**
CSHC-16JM **1mL Ampule**

EDB/DBCP/123TCA STANDARDS MIXTURE
EPA METHOD 504.1

- 1,2-Dibromo-3-chloropropane
- 1,2,3-Trichloropropane
- 1,2-Dibromoethane

2000ug/mL in Methanol - (3 components)
CSHC-16A **5mL**
CSHC-16AJM **1mL Ampule**

METHOD 505 – ORGANOHALIDE PESTICIDES & COMMERICAL PCB'S

Method 505 is applicable to the determination of organohalide pesticides and commercial polychlorinated biphenyl (PCB) products in finished drinking water, during intermediate stages of treatment, and raw source water, by microextraction and gas chromatography.

ORGANOHALIDE PESTICIDES & COMMERCIAL PCB'S
EPA METHOD 505

- Alachlor
- Aldrin®
- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Atrazine
- cis-Chlordane
- trans-Chlordane
- Dieldrin
- Endrin
- Heptachlor
- Heptachlor epoxide
- Hexachlorobenzene
- Hexachlorocyclopentadiene
- Lindane (BHC gamma isomer)
- Methoxychlor
- cis-Nonachlor
- trans-Nonachlor
- Simazine
- Toxaphene®

Neat compounds of each of the above - (24 components)
OHP505-1N **5mL Ampule**

5mL Solutions of each, in the appropriate solvent - (24 components)
OHP505-1S **1mL Ampule**

ORGANOHALIDE PESTICIDES MIXTURES KIT
EPA METHOD 505

Organohalide Pesticides Mixture #1 - 505	**OHP505-1M**
Organohalide Pesticides Mixture #2 - 505	**OHP505-2M**
5mL of each of the above in the appropriate solvent - (2 component kit)	**MMOHP505-2 KIT**

TOXAPHENE SOLUTIONS
EPA METHOD 505

F106	250 mg	Toxaphene	
F106BJS	1 mL	1000ug/mL	Hexane
F106CJS	1 mL	2000ug/mL	Methanol
F106DJS	1 mL	5000ug/mL	Isooctane

ORGANOHALIDE PESTICIDES MIXTURE #1
EPA METHOD 505

- Alachlor
- Aldrin®
- Dieldrin
- Endrin
- Heptachlor
- Heptachlor epoxide
- Hexachlorobenzene
- Lindane (BHC gamma isomer)
- Methoxychlor®

100ug/mL in Toluene - (9 components)
OHP505-1M **5mL Ampule**
OHP505-1JM **1mL Ampule**

ORGANOHALIDE PESTICIDES MIXTURE #2
EPA METHOD 505

- Atrazine
- cis-Chlordane
- trans-Chlordane
- Heptachlor
- Hexachlorocyclopentadiene
- cis-Nonachlor
- trans-Nonachlor
- Simazine

100ug/mL in Methanol - (8 components)
OHP505-2M **5mL Ampule**
OHP505-2JM **1mL Ampule**

POLYCHLORIATED BIPHENYLS
EPA METHOD 505, *608, 617, 625, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260

Neat compounds of each of the above - (7 component kit)
PP-8N **KIT**

5mL Solutions of each, 100ug/mL in Methanol - (7 componnent kit)
PP-8S **KIT**

1mL Solutions of each, 100ug/mL in Methanol - (7 componnent kit)
PP-8JS **KIT**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT

EPA METHOD 505, *508, 525.2, 608, 617, 625, 1656, 8080A/8081, 8250A, 8270B, CLP*

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene® Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit) **CTA608-1S** **KIT**

INSTRUMENT PERFORMANCE CHECK STANDARDS – EPA METHOD 505

F98	1g	Endrin	**F99**	10g	Endrin aldehyde	**F2022**	10g	Endrin ketone
F98S	5mL	100ug/mL Methanol	**F99S**	5mL	100ug/mL Methanol	**F2022S**	5mL	100ug/mL Toluene
F98JS	1mL	100ug/mL Methanol (Ampule)	**F99JS**	1mL	100ug/mL Methanol (Ampule)	**F2022JS**	1mL	100ug/mL Toluene (Ampule)

METHOD 506 – PHTHALATE COMPOUNDS

Method 506 describes a procedure for the determination of certain phthalate and adipate esters in drinking water by liquid/liquid or liquid/solid extraction.

PHTHALATE & ADIPIC ESTERS – EPA METHOD 506, *525.2*

- Bis(2-ethylhexyl)adipate
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Di-n-butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-n-butyl phthalate

1000ug/mL in Isooctane - (7 components) **PAE-506M** **5mL Ampule**
PAE-506JM **1mL Ampule**

PHTHALATE & ADIPIC ESTERS – EPA METHOD 506, *525.2*

1200ug/ml	Bis(2-ethylhexyl)adipate	100 ug/ml	Diethyl phthalate
250 ug/ml	Bis(2-ethylhexyl)phthalate	100 ug/ml	Dimethyl phthalate
250 ug/ml	Butyl benzyl phthalate	650 ug/ml	Di-n-octyl phthalate
100 ug/ml	Di-n-butyl phthalate		

P&T Methanol - (7 components) **CS-506-1** **1mL Ampule**

METHOD 507 – NITROGEN & PHOSPHOROUS PESTICIDES

Method 507 is applicable to the determination of Nitrogen and Phosphorus containing pesticides in water by gas chromatography in ground water and finished drinking water.

NITROGEN & PHOSPHOROUS CONTAINING PESTICIDES – EPA METHOD 507

- Alachlor
- Ametryne
- Atraton
- Atrazine
- Beam®
- Bromacil
- Butachlor
- Butylate
- Carboxin
- Chlorpropham
- Cycloate
- Devrinol®
- Diazinon
- Dichlorvos
- Dimethyl-p-nitrophenyl phosphate
- Diphenamid
- Disulfoton
- Disulfoton sulfone
- Disulfoton sulfoxide
- S-Ethyl dipropylthiocarbamate
- Fenarimol
- Metolachlor
- Metribuzin
- MGK 264®
- Molinate
- Norflurazon®
- Phenamiphos
- Prophos
- Phosdrin®
- Prometon
- Prometryne
- S-Propylbutylethylthiocarbamate
- Propyzamide
- Propazine
- Simazine
- Simetryn
- Sonar®
- Tebuthiuron
- Terbacil
- Terbufos
- Terbutryne
- Tetrachlorvinphos
- Triadimefon
- Tributylphosphorotrithioite
- Velpar
- Vernolate

Neat compounds of each of the above - (46 components) **NPP-507N**
5mL Solutions of each, in the appropriate solvent (46 component kit) **NPP-507S**

PESTICIDES MIXTURE #1 – EPA METHOD 507, *525.2*

- Ametryne
- Cycloate
- Disulfoton
- Phenamiphos
- Prometon
- Tributylphosphorotrithioite

1000ug/mL in tert-Butylmethyl ether - (6 components) **PM507-1M** **5mL Ampule**
PM507-1JM **1mL Ampule**

PESTICIDES MIXTURE #2
EPA METHOD 507, *525.2*

- Atrazine
- Diphenamid
- S-Ethyl dipropylthiocarbamate
- Phosdrin®
- Prometryne
- Propazine
- Prophos
- Terbutryne
- Triadimefon

1000ug/mL in tert-Butylmethyl ether (9 components)
PM507-2M **5mL Ampule**
PM507-2JM **1mL Ampule**

PESTICIDES MIXTURE #3
EPA METHOD 507, *525.2*

- Butachlor
- Carboxin
- Diazinon
- Metolachlor
- Metribuzin
- MGK 264®
- Norflurazon®
- Terbufos
- Vernolate

1000ug/mL in tert-Butylmethyl ether (9 components)
PM507-3M **5mL Ampule**
PM507-3JM **1mL Ampule**

PESTICIDES MIXTURE #4
EPA METHOD 507, *525.2*

- Alachlor
- Atraton
- Beam®
- Bromacil
- Butylate
- Chlorpropham
- Molinate
- Propyzamide
- Tetrachlorvinphos
- Velpar

1000ug/mL in tert-Butylmethyl ether (10 components)
PM507-4M **5mL Ampule**
PM507-4JM **1mL Ampule**

PESTICIDES MIXTURE #5
EPA METHOD 507, *525.2*

- Devrinol®
- Dichlorvos
- Fenarimol
- S-Propyl butylethylthiocarbamate
- Simetryn
- Sonar®
- Tebuthiuron
- Terbacil

1000ug/mL in tert-Butylmethyl ether (8 components)
PM507-5M **5mL Ampule**
PM507-5JM **1mL Ampule**

SIMAZINE STANDARDS
EPA METHOD 507, *8141A*

F2073	100 mg	Simazine	
F2073S	5 mL	100ug/mL	Methanol
F2073JS	1 mL	100ug/mL	Methanol (Ampule)
F2073AS	5 mL	1000ug/mL	Acetone (Ampule)
F2073AJS	1 mL	1000ug/mL	Acetone (Ampule)

SUPPLEMENTAL PESTICIDES KIT
EPA METHOD 507

- Dimethyl-p-nitrophenylphosphate
- Disulfoton sulfone
- Disulfoton sulfoxide
- Simazine

Neat compounds of each of the above - (4 component kit)
PM507-6N **KIT**

INTERNAL STANDARDS
EPA METHOD 507

F2052	5 g	Triphenyl phosphate	
F2052S	5 mL	500ug/mL	tert-Butylmethyl ether
F2052JS	1 mL	500ug/mL	tert-Butylmethyl ether
F2287	5 g	o-Nitrotoluene	
F2287S	5 mL	2500ug/mL	tert-Butylmethyl ether
F2287JS	1 mL	2500ug/mL	tert-Butylmethyl ether
F2287AS	5 mL	1000ug/mL	Acetonitrile
F2287AJS	1 mL	1000ug/mL	Acetonitrile (Ampule)

NITROGEN & PHOSPHOROUS CONTAINING PESTICIDES MIXTURES KIT
EPA METHOD 507

PM507-1M	Pesticides Mixture #1 - 507
PM507-2M	Pesticides Mixture #2 - 507
PM507-3M	Pesticides Mixture #3 - 507
PM507-4M	Pesticides Mixture #4 - 507
PM507-5M	Pesticides Mixture #5 - 507

5mL each, in tert-Butylmethyl ether (5 component kit)
MMPM507-S **KIT**

LABORATORY PERFORMANCE CHECK MIXTURE
EPA METHOD 507

15ug/mL	Atrazine
500ug/mL	Bromacil
250ug/mL	1,3-Dimethyl-2-nitrobenzene
30ug/mL	Prometon
250ug/mL	Triphenyl phosphate
5ug/mL	Vernolate

Mixture in tert-Butylmethyl ether (6 components)
LPC-507M **5mL Ampule**
LPC-507JM **1mL Ampule**

MERPHOS CALIBRATION STANDARDS
EPA METHOD 507, *622, 1657, 8140/8141A, 8321*

F2214	1 g	S.S.S-Tributylphosphorotrihioate	
F2214S	5 mL	100ug/mL	tert-Butylmethyl ether (Ampule)
F2214JS	1 mL	100ug/mL	tert-Butylmethyl ether (Ampule)

SURROGATE STANDARDS
EPA METHOD 507

F2051	5 g	1,3–Dimethyl-2-nitrobenzene	
F2051S	5 mL	2000ug/mL	tert-Butylmethyl ether (Ampule)
F2051JS	1 mL	2000ug/mL	tert-Butylmethyl ether (Ampule)

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

METHOD 508 – CHLORINATED PESTICIDES & PCBs

Method 508 is applicable to the determination of chlorinated pesticides in ground water and finished drinking water by gas chromatography with an electron capture detector.

Method 508.1 is applicable for the determination of twenty-nine chlorinated pesticides, three herbicides and four organohalides in drinking water, ground water, and drinking water in any treatment stage using liquid-solid extraction and electron capture gas chromatography.

Method 508A is applicable for screening of Polychlorinated Biphenyls by gas chromatography and may be used for screening finished drinking water, raw source water, or drinking water in any treatment stage for polychlorinated biphenyls (PCBs).

CHLORINATED PESTICIDES & PCB'S

EPA METHOD 508

- Aldrin®
- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- cis-Chlordane
- trans-Chlordane
- Chloroneb
- Chlorobenzilate
- Chlorothalonil
- Chlorthal
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- Heptachlor
- Heptachlor epoxide
- Hexachlorobenzene
- Lindane (BHC gamma isomer)
- Methoxychlor
- Permethrin
- Propachlor
- Terrazole®
- Toxaphene®
- Trifluralin

Neat compounds of each (37 component kit)
CPW-508N 5mL Ampule

5mL Solutions of each, in the appropriate solvent - (37 component kit)
CPW-508S 1mL Ampule

AROCHLORS, TOXAPHENE® CHLORDANE SOLUTIONS KIT

EPA METHOD 508, *505, 525.2, 608, 617, 625, 1656, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene® Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

ORGANOCHLORINE PESTICIDES MIXTURE #1

EPA METHOD 508, 508.1, *525.2, 608, 617, 625, 8080A/8081, 8250A/8270B, CLP*

- Aldrin®
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- cis-Chlordane
- trans-Chlordane
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- Heptachlor
- Heptachlor epoxide
- Lindane (BHC gamma isomer)
- Methoxychlor

1000ug/mL in tert-Butylmethyl ether - (20 components)
OCP508-1M 5mL Ampule
OCP508-1JM 1mL Ampule

ORGANOCHLORINE PESTICIDES MIXTURE #2

EPA METHOD 508/508.1, *525.2*

- Chloroneb
- Chlorobenzilate
- Chlorothalonil
- Chlorthal-dimethyl
- Hexachlorobenzene
- Permethrin
- Propachlor
- Terrazole
- Trifluralin

1000ug/mL in tert-Butylmethyl ether - (9 components)
OCP508-2JM 1mL Ampule

ORGANOCHLORINE PESTICIDES MIXTURE #3

EPA METHOD 508.1

- Alachlor
- Atrazine
- Bladex
- Hexachlorocyclopentadiene
- Metolachlor
- Metribuzin
- Simazine

500ug/mL in Ethyl acetate - (7 components)
OCP508-3M 5mL Ampule
OCP508-3JM 1mL Ampule

ORGANOCHLORINE PESTICIDES MIXTURES
METHOD 508/508.1, *608, 617, 625, 8080A/8081, 8250A/8270B,CLP*

- Aldrin®
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- Lindane
- 4,4′-DDD
- 4,4′-DDE
- 4,4′-DDT
- Dieldrin
- Endosulfan I959-98-8
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide
- Methoxychlor

100ug/mL in Toluene:Hexane (50:50) - (17 components)
OCP-8080M **5mL Ampule**
OCP-8080JM **1mL Ampule**
NOTE: Inhibited with BHT

100ug/mL in Toluene:Hexane (50:50), less Methoxychlor - (16 components)
PPO-8M **5mL Ampule**
PPO-8JM **1mL Ampule**

2000ug/mL in Toluene:Hexane (50:50), less Methoxychlor - (16 components)
PP-HC5 **5mL Ampule**
PP-HC5JM **1mL Ampule**

AROCHLOR 1260 STANDARDS
EPA METHOD 508A

F112	50 mg	Arochlor 1260	
F112S	5 mL	100ug/mL	Methanol
F112JS	1 mL	100ug/mL	Methanol
F112AS	5 mL	2000ug/mL	Methanol
F112AJS	1 mL	2000ug/mL	Methanol
F112BS	5 mL	1000ug/mL	Hexane (Ampule)
F112BJS	1 mL	1000ug/mL	Hexane (Ampule)

DECACHLOROBIPHENYL STANDARDS
EPA METHOD 508A

F2170	10 mg	Decachlorobiphenyl	
F2170S	5 mL	1000ug/mL	Hexane (Ampule)
F2170JS	1 mL	1000ug/mL	Hexane (Ampule)
F2170AS	5 mL	100ug/mL	Hexane (Ampule)
F2170AJS	1 mL	100ug/mL	Hexane (Ampule)
F2170BS	5 mL	500ug/mL	Acetone (Ampule)
F2170BJS	1 mL	500ug/mL	Acetone (Ampule)
F2170CS	5 mL	1000ug/mL	Toluene (Ampule)
F2170CJS	1 mL	1000ug/mL	Toluene (Ampule)

2-CHLOROBIPHENYL STANDARDS
EPA METHOD 508A

2800G	50 mg	2-Chlorobiphenyl	
2800GS	2 mL	100ug/mL	Hexane

INTERNAL STANDARDS
EPA METHOD 508/508.1

F999	1 g	Pentachloronitrobenzene	
F999S	5 mL	100ug/mL	Methanol
F999JS	1 mL	100ug/mL	Methanol
F999AS	5 mL	1000ug/mL	Isooctane (Ampule)
F999AJS	1 mL	1000ug/mL	Isooctane (Ampule)
F999BS	5 mL	2000ug/mL	Ethyl acetate (Ampule)
F999BJS	1 mL	2000ug/mL	Ethyl acetate (Ampule)

SURROGATE STANDARDS
EPA METHOD 508/508.1

F2174	10 mg	4,4′-Dichlorobiphenyl	
F2174S	5 mL	2000ug/mL	tert-Butylmethyl ether (Ampule)
F2174JS	1 mL	2000ug/mL	tert-Butylmethyl ether (Ampule)
F2174AS	5 mL	100ug/mL	Hexane (Ampule)
F2174AJS	1 mL	100ug/mL	Hexane (Ampule)

SURROGATE STANDARDS
EPA METHOD 508.1

F2172	500 mg	4,4′-Dibromobiphenyl	
F2172S	5 mL	1000ug/mL	Methylene chloride (Ampule)
F2172JS	5 mL	1000ug/mL	Methylene chloride (Ampule)
F2172AS	1 mL	100ug/mL	Hexane (Ampule)
F2172AJS	1 mL	100ug/mL	Hexane (Ampule)
F2172BS	5 mL	2000ug/mL	Ethyl acetate (Ampule)
F2172BJS	1 mL	2000ug/mL	Ethyl acetate (Ampule)

LABORATORY PERFORMANCE CHECK MIXTURE
EPA METHOD 508/508.1

40ug/mL	BHC (delta isomer)
50ug/mL	Chlorothalonil
2ug/mL	Chlorpyrifos
50ug/mL	Chlorthal-dimethyl

Mixture in tert-Butylmethyl ether - (4 components)
LPC-508M **5mL Ampule**
LPC-508JM **1mL Ampule**

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 508/508.1, *525.2, 608, 617, 625, 1618, 1656, 8080A/8081, 8250A/8270B, CLP*

200ug/mL	4,4′-DDT
100ug/mL	Endrin

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M **5mL Ampule**
DC-508JM **1mL Ampule**

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 508/508.1, *525.2, 608, 617, 625, 1618, 1656, 8080A/8081, 8250A/8270B, CLP*

200ug/mL	4,4′-DDE
200ug/mL	4,4′-DDD
100ug/mL	Endrin aldehyde
100ug/mL	Endrin ketone

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M **5mL Ampule**
DP508-1JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

METHOD 509 – ETHYLENE THIOUREA

Method 509 is applicable for the determination of Ethylene Thiourea (ETU) in water using gas chromatography with a Nitrogen-Phosphorus Detector.

ETHYLENE THIOUREA STANDARDS
EPA METHOD 509

F2430	5 g	2-Imidazolidinethione	
F2430AS	5 mL	100ug/mL	Ethyl acetate containing 0.1% DTT (Ampule)
			0.1% DTT (Ampule)
F2430AJS	1 mL	100ug/mL	Ethyl acetate containing 0.1% DTT (Ampule)

FREE RADICAL SCAVENGER STANDARDS
EPA METHOD 509

F2447	100 mg	Dithiothreitol (DTT)	
F2447S	5 mL	1000ug/mL	Ethyl acetate (Ampule)
F2447JS	1 mL	1000ug/mL	Ethyl acetate (Ampule)

INTERNAL STANDARDS
EPA METHOD 509

F2448	1 g	3,4,5,6-Tetrahydro-2-pyrimidinethiol	
F2448S	5 mL	100ug/mL	Ethyl acetate containing 0.1% DTT (Ampule)
F2448JS	1 mL	100ug/mL	Ethyl acetate containing 0.1% DTT (Ampule)

SURROGATE STANDARDS
EPA METHOD 509

F2449	250 mg	Propylene thiourea	
F2449S	5 mL	100ug/mL	Ethyl acetate containing 0.1% DTT (Ampule)
F2449JS	1 mL	100ug/mL	Ethyl acetate containing 0.1% DTT (Ampule)

METHOD 513 – TCDD

Method 513 is applicable for the determination of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in drinking water by gas chromatography with high resolution mass spectrometry.

TCDD (Dioxin)
EPA METHOD 513, *613*

		2,3,7,8-Tetrachlorodibenzo-p-dioxin	
F114S	1 mL	10ug/mL	Toluene (Ampule)

INTERNAL STANDARDS
EPA METHOD 513, *613*

7860G	25 mg	1,2,3,4-Tetrachlorodibenzo-p-dioxin	
7860GS	1 mL	50ug/mL	Toluene

METHOD 515.1/515.2/515.3 – CHLORINATED ACIDS

Method 515.1 is applicable to the determination of certain chlorinated acids in ground water and finished drinking water.

Method 515.2 is a gas chromatographic (GC) method applicable to the determination of chlorinated acids in ground water, and finished drinking water, using liquid-solid extraction, derivation and GC with an electron capture detector.

Method 515.3 is a gas chromatographic method applicable to the determination of chlorinated acids in drinking water, ground water, raw source water, and water at any intermediate stage by liquid-liquid extraction, derivatization and gas chromatography with electron capture detection.

- Acifluorfen
- Bentazon
- Chloramben
- 2,4-D
- Dalapon
- 2,4-DB
- Dicamba
- 3,5-Dichlorobenzoic acid
- Dichlorprop
- Dinoseb
- 4-Nitrophenol
- Pentachlorophenol
- Picloram
- Silvex
- 2.4.5-T®
- Tetrachloroterephthalic acid

CA-515N Neat compounds of each of the above - (16 component kit)
CA-515S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

METHYLATED CHLORINATED ACIDS
EPA METHOD 515.1/515.2/515.3

- Acifluorfen methyl ester
- Bentazon methyl derivative
- Chloramben methyl ester
- Chlorthal-dimethyl
- 2.4-D methyl ester
- Dalapon methyl ester
- 2,4-DB methyl ester
- Dicamba methyl ester
- 3.5-Dichlorobenzoic acid methyl ester
- Dichlorprop methyl ester
- Dinoseb methyl ether
- p-Nitroanisole
- Pentachloroanisole
- Picloram methyl ester
- Silvex methyl ester
- (2.4.5-Trichlorophenoxy)acetic acid methyl ester

MCA-515N Neat compounds of each of the above - (16 component kit)
MCA-515S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

CHLORINATED ACIDS MIXTURE
EPA METHOD 515.1

100ug/mL	Acifluorfen
200ug/mL	Bentazon
100ug/mL	Chloramben
200ug/mL	2,4-D
1300ug/mL	Dalapon
800ug/mL	2,4-DB
100ug/mL	Dicamba
100ug/mL	3,5-Dichlorobenzoic acid
300ug/mL	Dichlorprop
200ug/mL	Dinoseb
100ug/mL	4-Nitrophenol
100ug/mL	Pentachlorophenol
100ug/mL	Picloram
100ug/mL	Silvex
100ug/mL	2,4,5-T®
20ug/mL	Tetrachloroterephthalic acid

Mixture in Acetone - (16 components)
CA-515M 5mL Ampule
CA-515JM 1mL Ampule

CHLORINATED ACIDS MIXTURE #2
EPA METHOD 515.1

- Acifluorfen
- Bentazon
- Chloramben
- 2,4-D
- Dalapon
- 2,4-DB
- Dicamba
- 3,5-Dichlorobenzoic acid
- Dichlorprop
- Dinoseb
- 4-Nitrophenol
- Pentachlorophenol
- Picloram
- Silvex
- 2,4,5-T®
- Tetrachloroterephthalic acid

100ug/mL in Acetone - (16 components)
CA-515AJM 1mL Ampule

CHLORINATED HERBICIDES MIXTURE #A
EPA METHOD 515.1, *8150B*

- 2,4-D
- Silvex
- 2,4,5-T

2000ug/mL in Acetone - (3 components)
CSHC-14A 5mL Ampule
CSHC-14AJM 1mL Ampule

METHYLATED CHLORINATED ACIDS MIXTURE #2
EPA METHOD 515.1

100ug/mL	Acifluorfen methyl ester
200ug/mL	Bentazon methyl derivative
100ug/mL	Chloramben methyl ester
20ug/mL	Chlorthal-dimethyl
200ug/mL	2,4-D methyl ester
1300ug/mL	Dalapon methyl ester
800ug/mL	2,4-DB methyl ester
100ug/mL	Dicamba methyl ester
100ug/mL	3,5-Dichlorobenzoic acid methyl ester
300ug/mL	Dichlorprop methyl ester
200ug/mL	Dinoseb methyl ether
100ug/mL	p-Nitroanisole
100ug/mL	Pentachloroanisole
100ug/mL	Picloram methyl ester
100ug/mL	Silvex methyl ester
100ug/mL	(2,4,5-Trichlorophenoxy) acetic acid methyl ester

Mixture in tert-Butylmethyl ether - (16 components)
MCA-515AJM 1mL Ampule

METHYLATED CHLORINATED ACIDS MIXTURE
EPA METHOD 515.1

- Acifluorfen methyl ester
- Bentazon methyl derivative
- Chloramben methyl ester
- Chlorthal-dimethyl
- 2,4-D methyl ester
- Dalapon methyl ester
- 2,4-DB methyl ester
- Dicamba methyl ester
- 3,5-Dichlorobenzoic acid methyl ester
- Dichlorprop methyl ester
- Dinoseb methyl ether
- p-Nitroanisole
- Pentachloroanisole
- Picloram methyl ester
- Silvex methyl ester
- (2,4,5-Trichlorophenoxy) acetic acid methyl ester

1000ug/mL in tert-Butylmethyl ether - (16 components)
MCA-515M 5mL Ampule
MCA-515JM 1mL Ampule

CHLORINATED HERBICIDE ESTERS MIXTURE
EPA METHOD 515.1, *8150B*

- 2,4-D methyl ester
- Silvex methyl ester
- 2,4,5-T methyl ester

2000ug/mL in Hexane - (3 components)
CSHC-14 5mL Ampule
CSHC-14JM 1mL Ampule

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CHLORINATED ACIDS MIXTURE #3
EPA METHOD 515.3

500ug/mL	Acifluorfen
1000ug/mL	Bentazon
500ug/mL	Chloramben
1000ug/mL	2,4-D
1000ug/mL	Dalapon
1000ug/mL	2,4-DB
500ug/mL	Dicamba
500ug/mL	3,5-Dichlorobenzoic acid
1000ug/mL	Dichlorprop
1000ug/mL	Dinoseb
1000ug/mL	4-Nitrophenol
100ug/mL	Pentachlorophenol
1000ug/mL	Picloram
250ug/mL	Silvex
250ug/mL	2,4,5-T®
500ug/mL	Tetrachloroterephthalic acid

Mixture in Acetone - (16 components)
CA515-3M **5mL Ampule**
CA515-3JM **1mL Ampule**

METHYLATED CHLORINATED ACIDS
EPA METHOD 515.4

50ug/mL	Acifluorfen methyl ester
100ug/mL	Bentazon methyl ester
50ug/mL	Chloramben methyl ester
100ug/mL	Dalapon methyl ester
100ug/mL	2,4-D methyl ester
100ug/mL	2,4-DB methyl ester
100ug/mL	DCPA (Dacthal)
50ug/mL	Dicamba methyl ester
50ug/mL	3,5-dichlorobenzoic acid methyl ester
100ug/mL	Dichlorprop methyl ester
100ug/mL	Dinoseb methyl ester
10ug/mL	Pentachloroanisole
50ug/mL	Picloram methyl ester
50ug/mL	Quinclorac methyl ester
25ug/mL	2,4,5-T methyl ester
25ug/ml	2,4,5-TP (Silvex) methyl ester

Mixture in tert-Butyl methyl ether - (16 components)
CS-515.4 **1mL**

CHLORINATED ACIDS MIXTURE #4
EPA METHOD 515.4

50ug/mL	Acifluorfen
100ug/mL	Bentazon
50ug/mL	Chloramben
100ug/mL	2,4-D
100ug/mL	Dalapon
100ug/mL	2,4-DB
50ug/mL	Dicamba
50ug/mL	3,5-Dichlorobenzoic acid
100ug/mL	Dichlorprop
100ug/mL	Dinoseb
10ug/mL	Pentachlorophenol
100ug/mL	Picloram
50ug/mL	Quinclorac
25ug/mL	Silvex
25ug/mL	2,4,5-T®
50ug/mL	Tetrachloroterephthalic acid

Mixture in Acetone - (16 components)
CA515-4M **5mL Ampule**
CA515-4JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 515.1/515.2/515.3/515.4

F2035	100mg	2,4-Dichlorophenylacetic acid	
F2035S	5mL	2000ug/mL	Acetone
F2035JS	1mL	2000ug/mL	Acetone
F2035CS	5mL	1000ug/mL	Acetone
F2035CJS	1mL	1000ug/mL	Acetone
F2035AS	5mL	100ug/mL	tert-Butylmethyl ether
F2035AJS	1mL	100ug/mL	tert-Butylmethyl ether
F2035BS	5mL	5000ug/mL	tert-Butylmethyl ether
F2035BJS	1mL	5000ug/mL	tert-Butylmethyl ether
F2036	100mg	2,4-Dichlorophenylacetic acid methyl ester	
F2036S	5mL	100ug/mL	Acetone
F2036JS	1mL	100ug/mL	Acetone
F2036CS	5mL	1000g/mL	Acetone
F2036CJS	1mL	1000ug/mL	Acetone
F2036AS	5mL	2000ug/mL	Acetone
F2036AJS	1mL	2000ug/mL	Acetone
F2036BS	5mL	5000ug/mL	Methanol
F2036BJS	1mL	5000ug/mL	Methanol

INTERNAL STANDARDS
EPA METHOD 515.1/515.2/515.3/515/4

F905	100mg	4,4'-Dibromooctafluorobiphenyl	
F905S	5mL	2000ug/mL	Methylene chloride
F905JS	1mL	2000ug/mL	Methylene chloride
F905AS	5mL	100ug/mL	tert-Butylmethyl ether
F905AJS	1mL	100ug/mL	tert-Butylmethyl ether
F905BS	5mL	5000ug/mL	Methanol
F905BJS	1mL	5000ug/mL	Methanol
F905CS	5mL	2000ug/mL	tert-Butylmethyl ether
F905CJS	1mL	2000ug/mL	tert-Butylmethyl ether

METHOD 521 – NITROSAMINES

Method 521 is applicable to the determination of certain nitrosamines.

- N-nitrosodi-n-butylamine
- N-nitrosodiethylamine
- N-nitrosodimethylamine
- N-nitrosodiphenylamine
- N-nitrosodi-n-propylamine
- N-nitrosomethylethylamine
- N-nitrosomorpholine
- N-nitrosopiperidine
- N-nitrosopyrrolidine

2000ug/mL in Methylene chloride - (9 components)
CS-521 **1mL Ampule**

INTERNAL & SURROGATE STANDARDS
EPA METHOD 521

CS-521-1 N-nitrosodimethylamine-d_6
1000ug/ml in Methylene chloride **1mL**

CS-521-2 N-nitrosodi-n-propylamine-d_{14}
1000ug/ml in Methylene chloride **1mL**

METHOD 524 – VOLATILE ORGANICS

VOLATILE ORGANIC COMPOUNDS
EPA METHOD 524.2

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Choroethane
- Chloroform
- Chloromethane
- 2-Chlorotoluene
- 4-Chlorotoluene
- Dibromochloromethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene
- 4-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Vinyl chloride
- m-Xylene
- o-Xylene
- p-Xylene

200ug/mL in Methanol - (60 components)
CS-524.2-1 1mL

VOLATILE ORGANICS (No Gases)
EPA METHOD 524.2

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 2-Chlorotoluene
- 4-Chlorotoluene
- Dibromochloromethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene
- 4-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- m-Xylene
- o-Xylene
- p-Xylene

200ug/mL in Methanol - (54 components)
CS-524.2-2 1mL

VOC GAS MIXTURE
EPA METHOD 524.2

- Bromomethane
- Chloroethane
- Chloromethane
- Dichlorodifluoromethane
- Trichlorofluoromethane
- Vinyl chloride

200ug/mL in Methanol - (6 components)
CS-524.2-3 1mL Ampule

INTERNAL & SURROGATE STANDARD MIXTURE
EPA METHOD 524.2

- 1,2-Dichlorobenzene-d4
- Fluorobenzene

2000ug/mL in Methanol - (2 components)
CS-524.2-7 1mL Ampule

INTERNAL & SURROGATE STANDARDS
EPA METHOD 524.2

- 1,2-Dichlorobenzene-d_4

CS-524.2-4 2000ug/mL Methanol

- Fluorobenzene

CS-524.2-5 2000ug/mL Methanol

SURROGATE STANDARD MIXTURE
EPA METHOD 524.2

- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4

2000ug/mL in Methanol - (2 components)
CS-524.2-6 1mL Ampule

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

METHOD 525.1/525.2 – ORGANIC COMPOUNDS

Method 525.1 is a general purpose method for the identification and simultaneous measurement of purgeable volatile organic compounds in surface water, ground water, and drinking water in any treatment stage by capillary column gas chromatography/mass spectrometry.

Method 525.2 is a general purpose method applicable for the identification and measurement of organic compounds in source water, drinking water in any stage of treatment as well as drinking water. This method can determine a wide range of organic compounds through using a liquid phase extraction and capillary column gas chromatography and mass spectrometry method.

ORGANIC COMPOUNDS
EPA METHOD 525.1/525.2

- Acenaphthylene
- Alachlor
- Aldrin®
- Anthracene
- Atrazine
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- 1,12-Benzoperylene
- Bis(2-ethylhexyl)adipate
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- cis-Chlordane
- trans-Chlordane
- 2-Chlorobiphenyl
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Di-n-butyl phthalate
- 2,3-Dichlorobiphenyl
- Diethyl phthalate
- Dimethyl phthalate
- Endrin
- Fluorene
- Heptachlor
- Heptachlor epoxide
- 2,2,3,3,4,4,6-Heptachlorobiphenyl
- Hexachlorobenzene
- 2,2,4,4,5,6-Hexachlorobiphenyl
- Hexachlorocyclopentadiene
- Indeno(1.2.3-C.D)pyrene
- Lindane (BHC gamma isomer)
- Methoxychlor
- trans-Nonachlor
- 2,2,3,3,4,5,6,6-Octachlorobiphenyl
- 2,2,3,4,6-Pentachlorobiphenyl
- Pentachlorophenol
- Phenanthrene
- Pyrene
- Simazine
- 2.2.4.4-Tetrachlorobiphenyl
- Toxaphene®
- 2.4.5-Trichlorobiphenyl

OCDW-525N Neat compounds of each of the above - (43 component kit)
OCDW-525S 5mL Solutions of each, in the appropriate solvent - (43 component kit)

EXTRACTABLES MIXTURE
EPA METHOD 525.1/525.2

100ug/mL	Bis(2-ethylhexyl)adipate
100ug/mL	Bis(2-ethylhexyl)phthalate
100ug/mL	Butyl benzyl phthalate
100ug/mL	Di-n-butyl phthalate
100ug/mL	Diethyl phthalate
100ug/mL	Dimethyl phthalate
100ug/mL	Hexachlorobenzene
100ug/mL	Hexachlorocyclopentadiene
400ug/mL	Pentachlorophenol

Mixture in Acetone - (9 components)
EM-525M 5mL Ampule
EM-525JM 1mL Ampule

PAH MIXTURE
EPA METHOD 525.1/525.2

- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluorene
- Indeno(1.2.3-C.D)pyrene
- Phenanthrene
- Pyrene

500ug/mL in Toluene - (13 components)
PAH525-1M 5mL Ampule
PAH525-1JM 1mL Ampule

EXTRACTABLE MIXTURE #2
EPA METHOD 525.2

500ug/mL	Bis(2-ethylhexyl)adipate
500ug/mL	Bis(2-ethylhexyl)phthalate
500ug/mL	Butyl benzyl phthalate
500ug/mL	Di-n-butyl phthalate
500ug/mL	Diethyl phthalate
500ug/mL	Dimethyl phthalate
500ug/mL	Hexachlorobenzene
500ug/mL	Hexachlorocyclopentadiene
2000ug/mL	Pentachlorophenol

Mixture in Acetone, 5mL Ampule - (9 components)
EMH-525M 5mL Ampule
EMH-525JM 1mL Ampule

PAH MIXTURE #2
EPA METHOD 525.2

- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluorene
- Indeno(1.2.3-C.D)pyrene
- Phenanthrene
- Pyrene

100ug/mL in Acetone - (13 components)
PAH525-2JM 1mL Ampule

TOXAPHENE® CALIBRATION STANDARD
EPA METHOD 525.1/525.2

F106	250mg	Toxaphene®	
F106S	5mL	100ug/mL	Methanol
F106AS	5mL	2500ug/mL	Acetone (Ampule)
F106AJS	1mL	2500ug/mL	Acetone (Ampule)
F106BS	5mL	1000ug/mL	Hexane (Ampule)
F106BJS	1mL	1000ug/mL	Hexane (Ampule)

PCB MIXTURE
EPA METHOD 525.1/525.2

- 2-Chlorobiphenyl
- 2,3-Dichlorobiphenyl
- 2,4,5-Trichlorobiphenyl
- 2,2′,4,4′-Tetrachlorobiphenyl
- 2,2′,3′,4,6-Pentachlorobiphenyl
- 2,2′,4,4′,5,6′-Hexachlorobiphenyl
- 2,2′,3,3′,4,4′,6-Heptachlorobiphenyl
- 2,2′,3,3′,4,5′,6,6′-Octachlorobiphenyl

100ug/mL in Acetone - (8 components)
PCB525-1M **5mL Ampule**
PCB525-1JM **1mL Ampule**

PCB MIXTURE #2
EPA METHOD 525.2

- 2-Chlorobiphenyl
- 2,3-Dichlorobiphenyl
- 2,4,5-Trichlorobiphenyl
- 2,2′,4,4′-Tetrachlorobiphenyl
- 2,2′,3′,4,6-Pentachlorobiphenyl
- 2,2′,4,4′,5,6′-Hexachlorobiphenyl
- 2,2′,3,3′,4,4′,6-Heptachlorobiphenyl
- 2,2′,3,3′,4,5′,6,6′-Octachlorobiphenyl

500ug/mL in Acetone - (8 components)
PCBH525-1JM **1mL Ampule**

PESTICIDES MIXTURE #1
EPA METHOD 507, 525.2

- Ametryne
- Cycloate
- Disulfoton
- Phenamiphos
- Prometon
- Tributylphosphorotrithioite

1000ug/mL in tert-Butylmethyl ether - (6 components)
PM507-1M **5mL Ampule**
PM507-1JM **1mL Ampule**

PESTICIDES MIXTURE #2
EPA METHOD 507, *525.2*

- Atrazine
- Diphenamid
- S-Ethyl dipropylthiocarbamate
- Phosdrin®
- Prometryne
- Propazine
- Prophos
- Terbutryne
- Triadimefon

1000ug/mL in tert-Butylmethyl ether - (9 components)
PM507-2M **5mL Ampule**
PM507-2JM **1mL Ampule**

PESTICIDES MIXTURE #3
EPA METHOD 507, *525.2*

- Butachlor
- Carboxin
- Diazinon
- Metolachlor
- Metribuzin
- MGK 264®
- Norflurazon®
- Terbufos
- Vernolate

tert-Butylmethyl ether - (9 components)
PM507-3M **5mL Ampule**
PM507-3JM **1mL Ampule**

DINITROTOLUENE STANDARDS
EPA METHOD 525.2

F35	1g	2,4-Dinitrotoluene	
F35S	5mL	100ug/mL	Methanol
F35JS	1mL	100ug/mL	Methanol (Ampule)
F35AS	5mL	1000ug/mL	Acetonitrile
F35AJS	1mL	1000ug/mL	Acetonitrile (Ampule)
F36	1g	2,6-Dinitrotoluene	
F36S	5mL	100ug/mL	Methanol
F36JS	1mL	100ug/mL	Methanol (Ampule)
F36AS	5mL	1000ug/mL	Acetonitrile
F36AJS	1mL	1000ug/mL	Acetonitrile (Ampule)

ORGANOCHLORINE PESTICIDES MIXTURE #1
EPA METHOD 525.2, *508/508.1, 608, 617, 625, 8080A/8081, 8250A, 8270B, CLP*

- Aldrin
- BHC (beta isomer)
- Lindane (BHC gamma isomer)
- 4,4′-DDE
- Dieldrin
- b-Endosulfan
- Endrin
- Heptachlor
- Endrin ketone
- cis-Chlordane
- BHC (alpha isomer)
- BHC (delta isomer)
- 4,4′-DDD
- 4,4′-DDT
- a-Endosulfan
- Endosulfan sulfate
- Endrin aldehyde
- Methoxychlor
- Heptachlor epoxide (Isomer B)
- trans-Chlordane

1000ug/mL in tert-Butylmethyl ether - (20 components)
OCP508-1M **5mL Ampule**
OCP508-1JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

ORGANOCHLORINE PESTICIDES MIXTURE #2
EPA METHOD 508/508.1, *525.2*

- Chloroneb
- Chlorothalonil
- Hexachlorobenzene
- Propachlor
- Trifluralin
- Chlorobenzilate
- Chlorthal
- Permethrin
- Terrazole®

1000ug/mL in tert-Butylmethyl ether - (9 components)
OCP508-2JM **1mL Ampule**

- cis-Chlordane
- trans-Chlordane
- Endrin
- Heptachlor
- Heptachlor epoxide
- Lindane (BHC gamma isomer)
- Methoxychlor
- trans-Nonachlor
- Simazine

500ug/mL in Acetone - (9 components)
OCPH-525JM **1mL Ampule**

ORGANIC COMPOUNDS MIXTURES & SOLUTION KIT
EPA METHOD 525.1/525.2

EM-525M	Extractables Mixture
OCP-525M	Organochlorine Pesticides Mixture
PAH525-1M	PAH Mixture
PCB525-1M	PCB Mixture
F106AS	Toxaphene® Solution

5mL of each, in the appropriate solvent - (5 component kit)
MMS525-5 **KIT**

PESTICIDES MIXTURE #4
EPA METHOD 507, *525.2*

- Alachlor
- Atraton
- Beam®
- Bromacil
- Butylate
- Chlorpropham
- Molinate
- Propyzamide
- Tetrachlorvinphos
- Velpar

1000ug/mL in tert-Butylmethyl ether - (10 components)
PM507-4M **5mL Ampule**
PM507-4JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 525.2

F2489	10mg	Pyrene-d10	
F2489S	5mL	500ug/mL	Acetone (Ampule)

PHTHALATE & ADIPIC ESTERS
EPA METHOD 525.2, *506*

- Bis(2-ethylhexyl)adipate
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Di-n-butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-n-octyl phthalate

1000ug/mL in Isooctane - (7 components)
PAE-506M **5mL Ampule**
PAE-506JM **1mL Ampule**

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 508/508.1, *525.2, 608, 617, 625, 1618, 1656, 8080A/8081, 8250A/8270B, CLP*

200ug/mL	4,4'-DDT
100ug/mL	Endrin

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M **5mL Ampule**
DC-508JM **1mL Ampule**

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 508/508.1, *525.2, 608, 617, 625, 1618, 1656, 8080A/8081, 8250A/8270B, CLP*

200ug/mL	4,4'-DDE
200ug/mL	4,4'-DDD
100ug/mL	Endrin aldehyde
100ug/mL	Endrin ketone

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M **5mL Ampule**
DP508-1JM **1mL Ampule**

FORTIFICATION MIXTURE
EPA METHOD 525.1/525.2

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}
- Perylene-d_{12}

500ug/mL in Acetone - (4 components)
FRT-525M **5mL Ampule**
FRT-525JM **1mL Ampule**

INTERNAL STANDARDS MIXTURE
EPA METHOD 525.1/525.2

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}

500ug/mL in Acetone - (3 components)
IS-525M **5mL Ampule**
IS-525JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 525.1/525.2

F750	10mg	Perylene-d_{12}	
F750S	5mL	2000ug/mL	Methylene chloride (Ampule)
F750JS	1mL	2000ug/mL	Methylene chloride (Ampule)

SURROGATE STANDARDS MIXTURE
EPA METHOD 525.2

- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Triphenyl phosphate

500ug/mL in Acetone - (3 components)
SS525-1M **5mL Ampule**
SS525-1JM **1mL Ampule**

PESTICIDES MIXTURE #5
EPA METHOD 507, *525.2*

- Devrinol®
- Dichlorvos
- Fenarimol
- S-Propyl butylethylthiocarbamate
- Simetryn
- Sonar®
- Tebuthiuron
- Terbacil

1000ug/mL in tert-Butylmethyl ether - (8 components)
PM507-5M **5mL Ampule**
PM507-5JM **1mL Ampule**

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
EPA METHOD 505, *508, 525.2, 608, 617, 625, 1656, 8080A/8081, 8250A, 8270B, CLP*

F107AS	Arochlor 1016 Solution
F108AS	Arochlor 1221 Solution
F113AS	Arochlor 1232 Solution
F109AS	Arochlor 1242 Solution
F110AS	Arochlor 1248 Solution
F111AS	Arochlor 1254 Solution
F112BS	Arochlor 1260 Solution
F91AS	Chlordane Solution
F106BS	Toxaphene® Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S **KIT**

EPA METHOD 525.2

MET-652A	100mg	Disulfoton sulfone
MET-652B	100mg	Disulfoton sulfox

PERFORMANCE CHECK MIXTURE
EPA METHOD 525.2

- 4,4'-DDT
- Decafluorotriphenylphosphine
- Endrin

500ug/mL in Toluene - (3 components)
PCM525-1M **5mL Ampule**
PCM525-1JM **1mL Ampule**

SIMAZINE STANDARDS
EPA METHOD 525.2

F2073	100mg	Simazine	
F2073S	5mL	100ug/mL	Methanol
F2073JS	1mL	100ug/mL	Methanol (Ampule)
F2073AS	5mL	1000ug/mL	Acetone (Ampule)
F2073AJS	1mL	1000ug/mL	Acetone (Ampule)

FORTIFICATION MIXTURE #2
EPA METHOD 525.2

- Acenaphthene-d10
- Chrysene-d12
- Phenanthrene-d10
- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d12
- Triphenyl phosphate
- Pyrene-d10

500ug/mL in Acetone - (7 components)
FRT525-1M **5mL Ampule**
FRT525-1JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 525.1

F720	50mg	Acenaphthene-d_{10}	
F720S	5mL	2000ug/mL	Methanol
F720JS	1mL	2000ug/mL	Methanol (Ampule)
F730	10mg	Chrysene-d_{12}	
F730S	5mL	2000ug/mL	Methylene chloride (Ampule)
F730JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F208	100mg	Phenanthrene-d_{10}	
F208S	5mL	100ug/mL	Methanol
F208JS	1mL	100ug/mL	Methanol (Ampule)
F208AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F208AJS	1mL	2000ug/mL	Methylene chloride (Ampule)

PERFORMANCE CHECK STANDARDS
EPA METHOD 525.1/525.2

F834	10mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F834AS	5mL	25,000ug/mL	Methylene chloride (Ampule)
F834AJS	1mL	25,000ug/mL	Methylene chloride (Ampule)

SURROGATE STANDARDS
EPA METHOD 525.2

F2051	5g	1,3-Dimethyl-2-nitrobenzene	
F2051S	5mL	2000ug/mL	tert-Butylmethyl ether
F2051JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2052	5g	Triphenyl phosphate	
F2052S	5mL	500ug/mL	tert-Butylmethyl ether
F2052JS	1mL	500ug/mL	tert-Butylmethyl ether

RECOVERY STANDARDS
EPA METHOD 525.1/525.2

F842	50mg	p-Terphenyl-d_{14}	
F842S	5mL	2000ug/mL	Methylene chloride (Ampule)
F842JS	1mL	2000ug/mL	Methylene chloride (Ampule)

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METHOD 526 – SEMIVOLATILE ORGANICS

INTERNAL STANDARD MIXTURE
EPA METHOD 526

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}

500ug/mL in Acetone - (3 components)
CS-526-1 1mL Ampule

SURROGATE STANDARD MIXTURE
EPA METHOD 526

- 2-Nitro-m-xylene
- Triphenylphosphate

500ug/mL in Acetone - (2 components)
CS-526-2 1mL Ampule

METHOD 527 – PESTICIDES & FLAME RETARDANTS

INTERNAL STANDARD MIXTURE
EPA METHOD 527

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}

500ug/mL in Acetone - (3 components)
CS-527-1 1mL Ampule

PBDE MIXTURE
EPA METHOD 527

- 2,2′,4,4′,5-Pentabromodiphenyl ether
- 2,2′,4,4′,5,5′-Hexabromobiphenyl
- 2,2′,4,4′,5,5′-Hexabromodiphenyl ether
- 2,2′,4,4′,6-Pentabromodiphenyl ether
- 2,2′,4,4′-Tetrabromodiphenyl ether

50ug/mL in Isooctane:ethyl acetate (4:1) - (5 components)
CS-527-3 1mL Ampule

SURROGATE STANDARD MIXTURE
EPA METHOD 527

- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Triphenylphosphate

500ug/mL in Acetone - (3 components)
CS-527-2 1mL Ampule

PESTICIDES MIXTURE
EPA METHOD 527

- Atrazine
- Hexazinone
- Prometryne
- Bromacil
- Nitrofen
- Vinclozolin
- Esbiol
- Mirex
- Thiobencarb
- Fenvalarate
- Oxychlordane
- Esfenvalarate
- Norflurazon
- Bifenthrin
- Kepone
- Propazine

500ug/mL in Ethyl acetate - (16 components)
CS-527-4 1mL Ampule

METHOD 528 – PHENOLS

SURROGATE STANDARD MIXTURE
EPA METHOD 528

- 2-Chlorophenol-d4 1000ug/mL
- 2,4-Dimethylphenol-3,5,6-d3 1000ug/mL
- 2,4,6-Tribromophenol 2000ug/mL

Methanol - (3 components)
CS-528-2 1mL Ampule

PHENOL CALIBRATION MIXTURE
EPA METHOD 528

- 4-Chloro-3-methylphenol
- o-Cresol
- 2,4-Dimethylphenol
- 2-Methyl-4,6-dinitrophenol
- 4-Nitrophenol
- Phenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dinitrophenol
- 2-Nitrophenol
- Pentachlorophenol
- 2,4,6-Trichlorophenol

2000ug/mL in Methylene chloride - (12 components)
CS-528-3 1mL Ampule

INTERNAL STANDARD MIXTURE
EPA METHOD 528

- 3-Nitro-o-xylene 1000ug/mL
- 2,3,4,5-Tetrachlorophenol 2000ug/mL

Methylene chloride - (2 components)
CS-528-1 1mL Ampule

PHENOLS FORTIFICATION MIXTURE
EPA METHOD 528

- 4-Chloro-3-methylphenol 100ug/mL
- 2-Methyl-4,6-dinitrophenol 500ug/mL
- 2-Chlorophenol 100ug/mL
- 2-Nitrophenol 100ug/mL
- o-Cresol 100ug/mL
- 4-Nitrophenol 500ug/mL
- 2,4-Dichlorophenol 100ug/mL
- Pentachlorophenol 500ug/mL
- 2,4-Dimethylphenol 100ug/mL
- Phenol 100ug/mL
- 2,4-Dinitrophenol 500ug/mL
- 2,4,6-Trichlorophenol 100ug/mL

Methanol - (12 components)
CS-528-4 1mL Ampule

CARBAMATE PESTICIDE CALIBRATION MIXTURE
EPA METHOD 531.20

- Aldicarb
- Aldicarb sulfone
- Aldicarb sulfoxide
- Carbaryl
- Carbofuran
- 3-Hydroxyfuran
- Methiocarb
- Methomyl
- 1-Naphthol
- Oxamyl
- Propoxur

100ug/mL in Acetonitrile - (11 components)
CS-531.2-1 1mL Ampule

METHOD 532 – PHENYLUREA PESTICIDES

Method 532 is a high performance liquid chromatographic (HPLC) method for the determination of phenylurea pesticides in drinking waters. This method is applicable to phenylurea compounds that are efficiently extracted from the water using a C18 solid phase cartridge or disk.

PHENYLUREA PESTICIDES MIXTURE
EPA METHOD 532

- Diflubenzuron
- Diuron
- Fluometuron
- Linuron
- Propanil
- Siduron
- Tebuthiuron
- Thidiazuron

200ug/mL in Methanol:Acetone - (8 components)
ESTD-JM 1mL Ampule

METHOD 535 – DEGRADATES OF CHLOROACETANILIDE

Method 535 is applicable to the determination of ethanesulfonic acid (ESA) and oxanilic acid (OA) degradates of chloroacetanilide and other acetamide herbicides in drinking water by solid phase extraction and liquid chromatography/tandem mass spectrometry (LC/MS/MS).

ESA/OA Degradates
EPA METHOD 535

- Acetochlor ESA sodium salt
- Dimethenamid ESA sodium salt
- Metolachlor ESA sodium salt
- Butachlor ESA sodium salt (Internal Standard)
- Acetochlor OA
- Dimethenamid OA
- Metolachlor OA
- Dimethachlor ESA sodium salt (Surrogate Standard)
- Alachlor ESA sodium salt
- Flufenacet ESA sodium salt
- Propachlor ESA sodium salt
- Alachlor OA
- Flufenacet OA
- Propachlor OA sodium salt

OAESA535-N Neat compounds of each of the above - (14 component kit)
OAESA535-S 1mL Solution of each in Methanol - (14 component kit)

METHOD 547 – GLYPHOSATE STANDARDS

Method 547 is applicable for the identification and measurement of N-methylcarbamoyloximes and N-methylcarbamates in ground water and finished drinking water, by direct aqueous injection HPLC, post-column derivatization and fluorescence detection.

GLYPHOSATE STOCK STANDARD
EPA METHOD 547

F1104S	5mL	Glyphosate 100ug/mL	Deionized water
F1104JS	1mL	Glyphosate 100ug/mL	Deionized water (Ampule)

METHOD 548, 548.1 – ENDOTHAL STANDARDS

Method 548 is applicable in the N-Methylcarbamoyloximes and N-Methylcarbamates in ground water and finished drinking water, by aqueous derivatization, liquid-solid extraction, and gas chromatography with electron-capture detection. Method 548.1 is applicable for the identification and simultaneous measurement of Endothal in drinking water sources and finished drinking water by ion exchange extraction, acidic methanol methylation, and gas chromatography/mass spectrometry.

ENDOTHAL STANDARD SOLUTIONS KIT
EPA METHOD 548

- Endothal 50ug/mL in Deionized water
- Endothal 10ug/mL in Deionized water

5mL Solutions of each of the above - (2 component kit)
ES-548S KIT

ENDOTHAL-PFPH DERIVATIVE STANDARDS
EPA METHOD 548

F2075	100mg	Endothal-PFPH	
F2075S	5mL	100ug/mL	tert-Butylmethyl ether
F2075JS	1mL	100ug/mL	tert-Butylmethyl ether

ENDOTHAL METHYL DERIVATIVE STANDARDS
EPA METHOD 548.1

F2450	10mg	Dimethyl endothal	
F2450S	5mL	100ug/mL	Toluene (Ampule)

INTERNAL STANDARDS
EPA METHOD 548.1

F720	50mg	Acenaphthene-d_{10}	
F720S	5mL	2000ug/mL	Methanol
F720JS	1mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
EPA METHOD 548

F202	100mg	α-Endosulfan	
F202S	5mL	100ug/mL	Hexane (Ampule)
F202JS	1mL	100ug/mL	Hexane (Ampule)
F202AS	5mL	100ug/mL	tert-Butylmethyl ether (Ampule)
F202AJS	1mL	100ug/mL	tert-Butylmethyl ether (Ampule)

ENDOTHAL STANDARDS
EPA METHOD 548.1

F2443	100mg	Endothal monohydrate	
F2443S	5mL	100ug/mL	Acetonitrile
F2443JS	1mL	100ug/mL	Acetonitrile (Ampule)

TUNING STANDARDS
EPA METHOD 548.1

F834	10mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F834AS	5mL	25000ug/mL	Methylene chloride (Ampule)
F834AJS	1mL	25000ug/mL	Methylene chloride (Ampule)

METHOD 549 – DIQUAT/PARAQUAT

Methods 549 is an HPLC method applicable to the determination of Diquat (1,1′-Ethylene-2,2′-bipyridilium dibromide salt) and Paraquat (1,1′-dimethyl-4,4′- bipyridilium dichloride salt) in drinking water sources and finished drinking water by liquid-solid extraction and HPLC with ultraviolet detection.

DIQUAT/PARAQUAT
EPA METHOD 549.2

- Diquat dibromide monohydrate 100ug/mL in Deionized water
- Paraquat chloride tetrahydrate 100ug/mL in Deionized water

5mL Solutions of each of the above - (2 component kit)
SS-549S KIT

DIQUAT/PARAQUAT
EPA METHOD 549.2

- Diquat Dibromide monohydrate Solution (1970ug/mL)
- Paraquat dichloride tetrahydrate Solution (1770ug/mL)

5mL Solutions of each, in deionized water - (2 component kit)
SS-549AS KIT

NOTE: Ion concentration of Diquat and Paraquat is 1000ug/mL

METHOD 550.1 – POLYCYCLIC AROMATIC HYDROCARBONS

Method 550.1 is applicable for determination of polycyclic aromatic hydrocarbons (PAH) in drinking water sources and finished drinking water by liquid solid extraction and HPLC with coupled ultraviolet and fluorescence detection.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)

EPA METHOD 550.1, *610, 8100, 8270B, 8310, CLP*

- Acenaphthene
- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-C,D)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PPH-10N Neat compounds of each of the above - (16 component kit)
PPH-10S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

PPH-10M Mixture at 100ug/mL in Methanol, 5mL - (16 components)
PPH-10JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (16 components)

PNA-550M Mixture at 200ug/mL in Acetonitrile, 5mL Ampule - (16 components)
PNA-550JM Mixture at 200ug/mL in Acetonitrile, 1mL Ampule - (16 components)

PP-HC6 Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 5mL Ampule - (16 components)
PP-HC6JM Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 1mL Ampule - (16 components)

PAH - CONTROL SAMPLE MIXTURE

EPA METHOD 550.1, *610, 8100, 8310*

100ug/mL	Acenaphthene
100ug/mL	Acenaphthylene
100ug/mL	Anthracene
10ug/mL	1,2-Benzanthracene
10ug/mL	Benzo(b)fluoranthene
5ug/mL	Benzo(k)fluoranthene
10ug/mL	1,12-Benzoperylene
10ug/mL	Benzo(a)pyrene
10ug/mL	Chrysene
10ug/mL	1,2:5,6-Dibenzanthracene
10ug/mL	Fluoranthene
100ug/mL	Fluorene
10ug/mL	Indeno(1.2.3-C.D)pyrene
100ug/mL	Naphthalene
100ug/mL	Phenanthrene
10ug/mL	Pyrene

Mixture in Acetonitrile - (16 components)
CSM-8310M **5mL Ampule**
CSM-8310JM **1mL Ampule**

INTERNAL STANDARDS

EPA METHOD 550.1

F2157	100mg	4,4'-Difluorobiphenyl	
F2157S	5mL	2000ug/mL	Methanol
F2157JS	5mL	2000ug/mL	Methanol (Ampule)
F2157AS	1mL	1000ug/mL	Acetonitrile
F2157AJS	1mL	1000ug/mL	Acetonitrile (Ampule)

PAH MIXTURE #4

EPA METHOD 550.1

1000ug/mL	Acenaphthene
1000ug/mL	Acenaphthylene
50ug/mL	Anthracene
1ug/mL	1,2-Benzanthracene
1ug/mL	Benzo(b)fluoranthene
1ug/mL	Benzo(k)fluoranthene
5ug/mL	1,12-Benzoperylene
5ug/mL	Benzo(a)pyrene
50ug/mL	Chrysene
10ug/mL	1,2:5,6-Dibenzanthracene
2.5ug/mL	Fluoranthene
100ug/mL	Fluorene
10ug/mL	Indeno(1.2.3-C.D)pyrene
1000ug/mL	Naphthalene
50ug/mL	Phenanthrene
50ug/mL	Pyrene

Mixture in Acetonitrile - (16 components)
PAH550-4M **5mL**
PAH550-4JM **1mL Ampule**

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METHOD 551 – CHLORINATED DISINFECTION

Method 551 is applicable for the determination of chlorination disinfection by-products and chlorinated solvents in drinking water, during intermediate treatment stages, raw source water, and finished drinking water by liquid-liquid extraction and gas chromatography with electron-capture detection.

Method 551.1 is applicable for the determination of chlorination disinfection by-products, chlorinated solvents and halogenated pesticides/herbicides in drinking water during intermediate stages of treatment, raw source water, and finished drinking water by liquid-liquid extraction and gas chromatography with electron-capture detection.

CHLORINATION DISINFECTION BYPRODUCTS
EPA METHOD 551

- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorodibromomethane
- Chloroform
- Chloropicrin
- Dibromoacetonitrile
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,1-Dichloroacetone
- Dichloroacetonitrile
- Tetrachloroethene
- Trichloroacetonitrile
- 1,1,1-Trichloroethane
- Trichloroethene
- 1,1,1-Trichloro-2-propanone

100ug/mL in tert-Butylmethyl ether - (16 components)
CDB-1M **5mL Ampule**
CDB-1JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 551.1

F904	1g	Decafluorobiphenyl	
F904S	5mL	2000ug/mL	Methylene chloride (Ampule)
F904JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F904AS	5mL	2000ug/mL	Acetonitrile
F904AJS	1mL	2000ug/mL	Acetonitrile (Ampule)
F904BS	5mL	1000ug/mL	Acetone (Ampule)
F904BJS	1mL	1000ug/mL	Acetone (Ampule)

CHLORAL HYDRATE STANDARD
EPA METHOD 551/551.1

- Chloral hydrate

F804S	1mL	1000ug/mL	Methanol (Ampule)

CHLORINATED DISINFECTANTS MIXTURE #A
EPA METHOD 551

- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroform
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- Trichloroethene

5000ug/mL in Methanol - (10 components)
CDB551-AM **5mL Ampule**
CDB551-AJM **1mL Ampule**

CHLORINATED DISINFECTANTS MIXTURE #B
EPA METHOD 551

- Chloropicrin
- 1,1-Dichloroacetone
- Dibromoacetonitrile
- Dichloroacetonitrile
- Trichloroacetonitrile
- 1,1,1-Trichloro-2-propanone

5000ug/mL in Acetone - (6 components)
CDB551-BM **5mL Ampule**
CDB551-BJM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 551.1

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)
F833AS	5mL	10,000ug/mL	Acetone (Ampule)
F833AJS	1mL	10,000ug/mL	Acetone (Ampule)
F833BJS	1mL	1000ug/mL	Acetone

CHLORINATION DISINFECTION BYPRODUCTS MIXTURE #2
EPA METHOD 551.1

- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorodibromomethane
- Chloroform
- Chloropicrin
- Dibromoacetonitrile
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,1-Dichloroacetone
- Dichloroacetonitrile
- Tetrachloroethene
- Trichloroacetonitrile
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane
- 1,1,1-Trichloro-2-propanone

1000ug/mL in tert-Butylmethyl ether - (18 components)
CDB-2M **5mL Ampule**
CDB-2JM **1mL Ampule**

METHOD 552, 552.1, 552.2/552.3 – HALOACETIC ACIDS

Method 552 is applicable for the determination of haloacetic acids and Dalapon in drinking water, ground water, raw source water and any intermediate treatment stage by liquid-liquid extraction, derivatization and gas chromatography with electron capture detection.

HALOACETIC ACIDS
EPA METHOD 552

- Bromoacetic acid
- Bromochloroacetic acid
- Chloroacetic acid
- Dibromoacetic acid
- Dichloroacetic acid
- Dichloroacetic acid
- Trichloroacetic acid
- 2,4,6-Trichlorophenol

100ug/mL in tert-Butylmethyl ether - (8 components)
HAA-1M **5mL Ampule**
HAA-1JM **1mL Ampule**

HALOACETIC ACIDS MIXTURE #2
EPA METHOD 552.1

200ug/mL	Bromoacetic acid
200ug/mL	Bromochloroacetic acid
300ug/mL	Chloroacetic acid
200ug/mL	Dalapon
100ug/mL	Dibromoacetic acid
300ug/mL	Dichloroacetic acid
100ug/mL	Trichloroacetic acid

Mixture in tert-Butylmethyl ether - (7 components)
HAA-2M **5mL Ampule**
HAA-2JM **1mL Ampule**

HALOACETIC ACIDS MIXTURE #3
EPA METHOD 552.2

40ug/mL	Bromoacetic acid
40ug/mL	Bromochloroacetic acid
40ug/mL	Bromodichloroacetic acid
60ug/mL	Chloroacetic acid
100ug/mL	Chlorodibromoacetic acid
40ug/mL	Dalapon
20ug/mL	Dibromoacetic acid
100ug/mL	2.3-Dibromopropionic acid
60ug/mL	Dichloroacetic acid
200ug/mL	Tribromoacetic acid
20ug/mL	Trichloroacetic acid

Mixture in tert-Butylmethyl ether - (11 components)
HAA-3JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 552/552.1

F814	2g	1.2.3-Trichloropropane	
F814S	5mL	100ug/mL	Methanol
F814JS	1mL	100ug/mL	Methanol
F814AS	5mL	1000ug/mL	tert-Butylmethyl ether
F814AJS	1mL	1000ug/mL	tert-Butylmethyl ether
F814BJS	1mL	1000ug/mL	Methanol

SURROGATE STANDARDS
EPA METHOD 552

F2286	5g	2.3-Dibromopropionic acid	
F2286S	5mL	2000ug/mL	tert-Butylmethyl ether
F2286JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2286AJS	1mL	1000ug/mL	tert-Butylmethyl ether
F2446	1g	2,3-Dibromopropionic acid methyl ester	
F2446S	5mL	2000ug/mL	tert-Butylmethyl ether
F2446JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2034	1g	3,5-Dichlorobenzoic acid	
F2034S	5mL	2000ug/mL	tert-Butylmethyl ether
F2034JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2034AJS	1mL	1000ug/mL	tert-Butylmethyl ether
CS-552-1	1mL	1000ug/mL	tert-Butyl methyl ether

SURROGATE STANDARDS
EPA METHOD 552

F2223	100mg	3.5-Dichlorobenzoic acid methyl ester	
F2223S	5mL	2000ug/mL	tert-Butylmethyl ether
F2223JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2223AJS	1mL	100ug/mL	tert-Butylmethyl ether
F2444	5gm	2-Bromopropionic acid	
F2444S	5mL	2000ug/mL	tert-Butylmethyl ether
F2444JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2444AJS	1mL	1000ug/mL	tert-Butylmethyl ether
F2445	1gm	Methyl-2-bromopropionate	
F2445S	5mL	2000ug/mL	tert-Butylmethyl ether
F2445JS	1mL	2000ug/mL	tert-Butylmethyl ether
F2445AJS	1mL	1000ug/mL	tert-Butylmethyl ether
F2941	2g	2-Bromobutanoic acid	
F2941JS	1mL	100ug/mL	tert-Butylmethyl ether
F2941AJS	1mL	1000ug/mL	tert-Butylmethyl ether

METHOD 554 – CARBONYL COMPOUNDS

Method 554 is applicable and optimized for the determination of carbonyl compounds in drinking water or raw source water by Dinitrophenyl-Hydrazine derivatization and high performance liquid chromatography (HPLC).

CARBONYL COMPOUNDS - UN-DERIVATIZED
EPA METHOD 554

- Acetaldehyde
- n-Butyraldehyde
- Crotonaldehyde
- Cyclohexanone
- Decyl aldehyde
- Formaldehyde (in water)
- Hexaldehyde
- Nonanal
- Octyl aldehyde
- Propionaldehyde
- Propionaldehyde
- Valeraldehyde

UCC554-1N Neat compounds of each of the above - (12 component kit)
UCC554-1S 5mL Solutions of each, in the appropriate solvent - (12 component kit)

NOTE: Formaldehyde, F2328 is supplied only in a water solution.

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

DERIVATIZED CARBONYL COMPOUNDS
EPA METHOD 554

- Acetaldehyde (DNPH Derivative)
- n-Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Cyclohexanone (DNPH Derivative)
- Decyl aldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Heptaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Nonanal (DNPH Derivative)
- Octyl aldehyde (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)

DCC554-1N Neat compounds of each of the above - (12 component kit)
DCC554-1S 5mL Solutions of each, 1000ug/mL in Methanol:Acetonitrile (80:20) - (12 component kit)
DCC554-1M Mixture at 1000ug/mL in Methanol:Acetonitrile (80:20), 5mL Ampule - (12 components)
DCC554-1JM Mixture at 1000ug/mL in Methanol:Acetonitrile (80:20), 1mL Ampule - (12 components)

DERIVATIZING AGENT
EPA METHOD 554, *8315*

0-724 1g 2.4-Dinitrophenylhydrazine

METHOD 555 – CHLORINATED ACIDS

CHLORINATED ACIDS HPLC, MIXTURE A
EPA METHOD 555

- Acifluorfen
- Bentazon
- Chloramben
- 2,4-D
- Dicamba
- Dichlorprop
- Picloram
- 2,4,5-TP

1000ug/mL in Acetonitrile - (8 components)
CS-555-1 1mL Ampule

CHLORINATED ACIDS HPLC, MIXTURE B
EPA METHOD 555

- 2,4-DB
- 3,5-Dichlorobenzoic acid
- Dinoseb
- MCPP
- MCPP
- 4-Nitrophenol
- Pentachlorophenol
- 2,4,5-T

1000ug/mL in Acetonitrile - (8 components)
CS-555-2 1mL Ampule

CHLORINATED ACIDS HERBICIDE MIXTURE
EPA METHOD 555

- 2,4-Dichlorophenoxyacetic acid
- 2,4,5-TP

1000ug/mL in Acetonitrile - (2 components)
CS-555-3 1mL Ampule

METHOD 556, 556.1 – CARBONYL COMPOUNDS

Method 556 is applicable for the determination of carbonyl compounds in raw water, water in any treatment stage, and finished drinking water by Pentafluorobenzylhydroxylamine (PFBHA) derivation and capillary gas chromatography with electron capture detection.

CARBONYL COMPOUNDS - UN-DERIVATIZED
EPA METHOD 556

- Acetaldehyde
- Benzaldehyde
- n-Butyraldehyde
- Crotonaldehyde
- Cyclohexanone
- Decyl aldehyde
- Formaldehyde (in water)
- Heptaldehyde
- Hexaldedehyde
- Nonanal
- Octyl aldehyde
- Propionaldehyde
- Valeraldehyde

UCC556-1N Neat compounds of each of the above - (13 component kit)
UCC556-1S 5mL Solutions of each, in the appropriate solvent - (13 component kit)

NOTE: Formaldehyde, F2328 is supplied only in a water solution.

INTERNAL STANDARDS
EPA METHOD 556

F2562	2g	1,2-Dibromopropane	
F2562S	5mL	10,000ug/mL	Hexane (Ampule)
F2562JS	1mL	10,000ug/mL	Hexane (Ampule)

SURROGATE STANDARDS
EPA METHOD 556

F2561	100mg	2,4,5-Trifluoroacetophenone	
F2561S	5mL	10,000ug/mL	Acetonitrile (Ampule)
F2561JS	1mL	10,000ug/mL	Acetonitrile (Ampule)

DERIVATIZING AGENT
EPA METHOD 556

F2563 100mg PFBHA

EPA 600 Series Methods for Wastewater Pollutants

Under the authority of the Clean Water Act (CWA) these analytical standards were developed by the U.S. EPA. The 600 Series Methods are designed to monitor organic chemicals from the Priority Pollutants List applicable to municipal and industrial discharge of wastewater. The Priority Pollutants, which are identified and quantified using the 600 Method Series, include pesticides, volatile organic compounds, as well as synthetic organic compounds.

Chem Service includes in the 600 Series Methods, cross-over detail to secondary methods (e.g. 601/602, /624). Most of the 600 Method components are available as neat materials, solutions, and mixtures as well as in discounted kits for our customer's convenience.

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METHOD 601/602 – PURGEABLE HALOCARBONS

Methods 601/602 is a purge and trap gas chromatographic (GC) method applicable for the determination of various purgeable halocarbons and purgeable aromatics.

PURGEABLE HALOCARBONS
EPA METHOD 601

- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorodibromomethane
- Chlorobenzene
- Chloroethane
- 2-Chloroethyl vinyl ether
- Chloroform
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,2-Dichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,2-trans-Dichloroethene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Methyl bromide
- Methyl chloride
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- Vinyl chloride

PR-1HN Neat compounds of each - (29 component kit)
PR-1HS 5mL Solutions of each, in the appropriate solvent - (29 component kit)

NOTE: Neat kit contains Chloroethane, Dichlorofluoromethane, Methyl bromide, Methyl chloride and Vinyl chloride in solution form only.

PURGEABLES COMBINED METHODS 601 & 602
EPA METHOD 601/602

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane
- 2-Chloroethyl vinyl ether
- Chloroform
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethyl benzene
- Methyl bromide
- Methyl chloride
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- Vinyl chloride

PR-1N Neat compounds of each - (32 component kit)
PR-1S 5mL Solutions of each, in the appropriate solvent - (32 component kit)

NOTE: Neat kit contains Chloroethane, Dichlorofluoromethane, Methyl bromide, Methyl chloride and Vinyl chloride in solution form only.

PURGEABLES - AROMATICS
EPA METHOD 602

- Benzene
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Toluene

Neat compounds of each - (7 component kit)
PR-1AN KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PR-1AS KIT

100ug/mL in Methanol - (7 components)
PR-1AM 5mL Ampule

GAS STANDARDS
EPA METHOD 601/602, *502/524, 624/1624, 8010B, 8021A, 8240B/8260A, 5041*

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

5mL Solutions of each, 100ug/mL in Methanol - (6 component kit)
PP-9 KIT

200ug/mL in Methanol - (6 components)
PP-9JM 1mL Ampule

2000ug/mL in Methanol - (6 components)
VOHC-6M 5mL Ampule
VOHC-6JM 1mL Ampule

TRIHALOMETHANES
EPA METHOD 601/602, *501, 8010B*

- Bromodichloromethane
- Bromoform
- Chlorodibromomethane
- Chloroform

Neat Compounds of each - (4 component kit)
PP-41N KIT

5mL Solutions of each, 100ug/mL in Methanol - (4 component kit)
PP-41S KIT

100ug/mL in Methanol - (4 components)
PP-41M 5mL Ampule
PP-41JM 1mL Ampule

PURGEABLE HYDROCARBONS AND AROMATICS MIXTURE
EPA METHOD 601/602, 624/1624

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroform
- 1.2-Dichlorobenzene
- 1.3-Dichlorobenzene
- 1.4-Dichlorobenzene
- 1.1-Dichloroethane
- 1.2-Dichloroethane
- 1,1-Dichloroethene
- trans-1.2-Dichloroethene
- 1.2-Dichloropropane
- cis-1.3-Dichloropropene
- trans-1.3-Dichloropropene
- Ethylbenzene
- Methylene chloride
- 1.1.2.2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1.1.1-Trichloroethane
- 1.1.2-Trichloroethane
- Trichloroethene

200ug/mL in Methanol - (25 components)
PHA-1M 5mL Ampule
PHA-1JM 1mL Ampule

PURGEABLES - INTERNAL STANDARDS
EPA METHOD 601/602, *624/1624, 8010B*

- Bromochloromethane
- 2-Bromo-1-chloropropane
- 1,4-Dichlorobutane

2000ug/mL in Methanol - (3 components)
PP-10M 5mL Ampule
PP-10JM 1mL Ampule

SURROGATE STANDARDS
EPA METHOD 601/602

F450	1g	a.a.a-Trifluorotoluene	
F450S	5mL	100ug/mL	Methanol
F450AS	5mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
EPA METHOD 601/602

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206JS	1mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206AJS	1mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1mL	20,000ug/mL	Methanol (Ampule)
F205	500mg	2-Bromo-1-chloropropane	
F205S	5mL	100ug/mL	Methanol
F205JS	1mL	100ug/mL	Methanol (Ampule)
F205AS	5mL	2000ug/mL	Methanol
F205AJS	1mL	2000ug/mL	Methanol (Ampule)
F205BS	5mL	20,000ug/mL	Methanol
F205BJS	1mL	20,000ug/mL	Methanol (Ampule)
F204	2g	1,4-Dichlorobutane	
F204S	5mL	100ug/mL	Methanol
F204JS	1mL	100ug/mL	Methanol (Ampule)
F204AS	5mL	2000ug/mL	Methanol
F204AJS	1mL	2000ug/mL	Methanol (Ampule)
F204BS	5mL	20,000ug/mL	Methanol
F204BJS	1mL	20,000ug/mL	Methanol (Ampule)

METHOD 603 – ACROLEIN & ACRYLONITRILE

Method 603 is a purge and trap gas chromatographic (GC) method applicable for the determination of acrolein and acrylonitrile.

ACROLEIN & ACRYLONITRILE
EPA METHOD 603, *1624, 8030A*

- Acrolein
- Acrylonitrile

Neat compounds of each of the above - (2 component kit)
PP-3N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-3S KIT

METHOD 604 – PHENOLS

Method 604 is a flame ionization detector gas chromatographic (GC/FID) method applicable to the determination of Phenol and certain substituted phenols in municipal and industrial discharges as provided under 40 CFR 136.1. This method describes analytical conditions for derivatization, cleanup, and electron capture detector gas chromatography (GC/ECD) that can be used to confirm measurements made by GC/FID. Method 625 provides gas chromatograph/mass spectrometer (GC/MS) conditions appropriate for the qualitative and quantitative confirmation of results for all of the parameters listed in the method, using the extract produced by this method.

Method 604.1 is an HPLC method applicable for the determination of Hexachlorophene and Dichlorophene in industrial and municipal wastewaters. The liquid chromatographic conditions described permit the separation and measurement of the compounds in the extract by HPLC using an ultraviolet detector.

PHENOLS
EPA METHOD 604, *625/1625, 8270B*

- 4-Chloro-3-methyl phenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

PP-2N Neat compounds of each of the above (11 component kit)
PP-2S 5mL Solutions of each, in the appropriate solvent - (11 components kit)

PP-2M Mixture at 100ug/mL in Methanol, 5mL - (11 components)

PP-HC9 Mixture at 2000ug/mL in Methylene chloride, 5mL Ampule - (11 components)
PP-HC9JM Mixture at 2000ug/mL in Methylene chloride, 1mL Ampule - (11 components)

NOTE: 2,4-Dinitrophenol and 4,6-Dinitro-o-cresol are at a concentration of 1000ug/mL in the PP-2M mixture only.

DERIVATIZING AGENTS
EPA METHOD 604, 604.1, *8040A*

F2303 1g Pentafluorobenzylbromide
F2304 5g Hexaoxacyclooctadecane

METHOD 605 – BENZIDINES

Method 605 is a high performance liquid chromatography (HPLC) method applicable to the determination of the listed benzidines in municipal and industrial discharges. The final benzidine compounds are measured with an electrochemical detector.

BENZIDINES
EPA METHOD 605, *625/1625, 8270B, CLP*

- Benzidine
- 3,3-Dichlorobenzidine

Neat compounds of each of the above (2 component kit)
PPB-5N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PPB-5S KIT

2000ug/mL in Methanol - (2 components)
PP-HC7 5mL Ampule
PP-HC7JM 1mL Ampule

METHOD 606 – PHTHALATE ESTERS

Method 606 is applicable to the determination of phthalate esters in municipal and industrial discharges as provided under 40 CFR 138.1. Method 625 provides gas chromatography/mass spectrometer (GC/MS) conditions applicable for the qualitative and quantitative confirmation of analysis results.

PHTHALATE ESTERS
EPA METHOD 606, *625/1625, 8060*

- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Di-n-butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-n-octyl phthalate

Neat compounds of each of the above (6 component kit)
PPP-6N KIT

5mL Solutions of each, in the appropriate solvent - (6 component kit)
PPP-6S KIT

100ug/mL in Hexane - (6 components)
PPP-6M 5mL Ampule
PPP-6JM 1mL Ampule

2000ug/mL in Hexane - (6 components)
CSHC-3 5mL Ampule
CSHC-3JM 1mL Ampule

METHOD 607 – NITROSAMINES

Method 607 is applicable to the determination of certain nitrosamines in municipal and industrial discharges, by gas chromatography with a nitrogen-phosphorus detector.

NITROSOAMINES
EPA METHOD 607, *8070*

- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-n-propylamine

Neat compounds of each of the above - (3 component kit)
PPN-7N KIT

5mL Solutions of each, in the appropriate solvent -
(3 component kit)
PPN-7S KIT

1000ug/mL in Methanol - (3 components)
NA607-1M 5mL
NA607-1JM 1mL Ampule
2000ug/mL in Methanol - (3 components)

DIPHENYLAMINE STANDARDS
EPA METHOD 607, *620,8070*

F992	5g	Diphenylamine	
F992S	5mL	100ug/mL	Methanol
F992JS	1mL	100ug/mL	Methanol

PLEASE NOTE, most Chem Service materials are overfilled approximately 10%, at the time of filling, to compensate for any irretrievable product remaining in the bottle. A small spatula, or micro pipette can be used to remove a known or weighed amount of sample to be placed into a measured amount of solvent.

ISO Certified

The certification of the Chem Service products is through the ISO 9001 and ISO 17025, Quality Management System. It is applicable to the design, development, production, distribution and servicing of organic neat and synthetic reference materials.

METHOD 608 – ORGANOCHLORINE PESTICIDES

Method 608 is applicable to the determination of organochlorine pesticides and PCBs by gas chromatography with measurement by an electron capture detector.

Method 608.1 is applicable to the determination of organochlorine pesticides in industrial and municipal wastewater by gas chromatography with measurement by an electron capture detector.

Method 608.2 is applicable to the determination of organochlorine pesticides in industrial and municipal wastewater by extraction, analysis by gas chromatography, and measurement by an electron capture detector.

ORGANOCHLORINE PESTICIDES

EPA METHOD 608, *508, 625, 8080A/8081, 8250A/8270B, CLP*

- Aldrin®
- Arochlor 1242
- Arochlor 1254
- Arochlor 1221
- Arochlor 1232
- Arochlor 1248
- Arochlor 1260
- Arochlor 1016
- a-BHC
- b-BHC
- d-BHC
- Chlordane
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide
- Lindane (g-BHC)
- Methoxychlor
- Toxaphene®

PPO-8N Neat compounds of each of the above - (26 component kit)
PPO-8S 5mL Solutions of each, in the appropriate solvent - (26 component kit)

PPO-8M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PPO-8JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

PP-HC5 Mixture at 2000ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PP-HC5JM Mixture at 2000ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

OCP-8080M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (17 components)
OCP-8080JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (17 components)

NOTE: PPO-8M, PPO-8JM, PP-HC5, PP-HC5JM, OCP-8080M, OCP-8080JM, OCP508-1M and OCP508-1JM do not contain the Arochlors, Chlordane or Toxaphene.

NOTE: PPO-8M, PPO-8JM, PP-HC5 and PP-HC5JM do not contain Methoxychlor.

NOTE: OCP508-1M, OCP508-1JM contain Endrin Ketone, cis-Chlordane and trans-Chlordane.

OCP508-1M Mixture at 1000ug/mL in tert-Butylmethyl ether, 5mL Ampule - (20 components)
OCP508-1JM Mixture at 1000ug/mL in tert-Butylmethyl ether, 1mL Ampule - (20 components)

**NOTE: Inhibited with Hydroquinone*

POLYCHLORINATED BIPHENYLS

EPA METHOD 608, *617, 625, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260

Neat compounds of each of the above - (7 component kit)
PP-8N KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S KIT

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS KIT

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT

EPA METHOD 608, *505, 508, 525.2, 617, 625, 1656,8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Chlordane
- Toxaphene (TM)

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

TOXAPHENE® & CHLORDANE KIT
EPA METHOD 608, *617, 625, 8080A/8081, 8250A/8270B, CLP*

- Chlordane
- Toxaphene®

Neat compounds of each of the above - (2 component kit)
PP-7N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S KIT

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 608, *508/508.1, 525.2, 617, 625,1618, 1656, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin
200ug/ml	4.4′-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M 5mL Ampule
DC-508JM 1mL Ampule

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 608, *508/508.1, 525.2, 617, 625, 1618, 1656, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin aldehyde
100ug/ml	Endrin ketone
200ug/ml	4.4′-DDE
200ug/ml	4.4′-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M 5mL Ampule
DP508-1JM 1mL Ampule

TUNING STANDARDS
EPA METHOD 608

F834	10mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene Chloride
F834JS	1mL	2000ug/mL	Methylene Chloride

PESTICIDES - CONTROL SAMPLE MIXTURE
EPA METHOD 608, *8080A/8081*

20ug/mL	Aldrin
20ug/mL	BHC (alpha isomer)
20ug/mL	BHC (beta isomer)
100ug/mL	4.4′-DDD
20ug/mL	4.4′-DDE
100ug/mL	4.4′-DDT
20ug/mL	Dieldrin
20ug/mL	a-Endosulfan
100ug/mL	b-Endosulfan
100ug/mL	Endosulfan sulfate
100ug/mL	Endrin
20ug/mL	Heptachlor
20ug/mL	Heptachlor epoxide

Mixture in Toluene - (13 components)
CSM-8080M 5mL Ampule
CSM-8080JM 1mL Ampule

ORGANOCHLORINE PESTICIDES MIXTURE
EPA METHOD 608.1

200ug/ml	Chlorobenzilate
40ug/ml	Chloroneb
200ug/ml	Chloropropylate
40ug/ml	1,2-Dibromo-3-chloropropane
40ug/ml	Etridiazole
60ug/ml	PCNB
1000ug/ml	ropachior

CS-608-1 Mixture in Isooctane - (7 components)

ORGANOCHLORINE PESTICIDES MIXTURE
EPA METHOD 608.2

1ug/ml	Chlorothalonil
3ug/ml	DCPA
2ug/ml	Dichloran
40ug/ml	Methoxychlor
400ug/ml	Permethrin

CS-608-2 Mixture in Isooctane - (5 components)

METHOD 609 – NITROAROMATICS & ISOPHORONE MIXTURE

NITROAROMATICS & ISOPHORONE MIXTURE
EPA METHOD 609

- 2.4-Dinitrotoluene
- 2.6-Dinitrotoluene
- Isophorone
- Nitrobenzene

2000ug/ml in Hexane - (4 components)
CS-609-1

METHOD 610 – POLYNUCLEAR AROMATIC HYDROCARBONS

Method 610 is applicable for determination of certain polynuclear aromatic hydrocarbons (PAH) in municipal and industrial discharges. This method provides for both high performance liquid chromatographic (HPLC) and gas chromatographic (GC) approaches for the determination of PAHs.

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)

EPA METHOD 610, *550.1, 8100, 8270B, 8310, CLP*

- Acenaphthene
- Fluoranthene
- Naphthalene
- 1.2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Acenaphthylene
- Anthracene
- 1.12-Benzoperylene
- Fluorene
- Phenanthrene
- 1.2:5.6-Dibenzanthracene
- Indeno(1.2.3-C.D)pyrene
- Pyrene

PPH-10N Neat compounds of each of the above - (16 component kit)
PPH-10S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

PPH-10M Mixture at 100ug/mL in Methanol, 5mL - (16 components)
PPH-10JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (16 components)

PNA-550M Mixture at 200ug/mL in Acetonitrile, 5mL - (16 components)
PNA-550JM Mixture at 200ug/mL in Acetonitrile, 1mL Ampule - (16 components)

PP-HC6 Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 5mL Ampule - (16 components)
PP-HC6JM Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 1mL Ampule - (16 components)

PAH - CONTROL SAMPLE MIXTURE

EPA METHOD 610, *550.1, 8100, 8310*

100ug/ml	Acenaphthene
100ug/ml	Acenaphthylene
100ug/ml	Anthracene
10ug/ml	1.2-Benzanthracene
10ug/ml	Benzo(a)pyrene
10ug/ml	Benzo(b)fluoranthene
10ug/ml	1.12-Benzoperylene
5ug/ml	Benzo(k)fluoranthene
10ug/ml	Chrysene
10ug/ml	1.2:5.6-Dibenzanthracene
10ug/ml	Fluoranthene
100ug/ml	Fluorene
10ug/ml	Indeno(1.2.3-C.D)pyrene
100ug/ml	Naphthalene
100ug/ml	Phenanthrene
10ug/ml	Pyrene

Mixture in Acetonitrile - (16 components)
CSM-8310M **5mL Ampule**
CSM-8310JM **1mL Ampule**

METHYLNAPHTHALENES MIXTURE

EPA METHOD 610

- 1-Methylnaphthalene
- 2-Methylnaphthalene

1000ug/mL in Methanol - (2 components)
FL610-1M **5mL Ampule**
FL610-1JM **1mL Ampule**

EC PAH CHECK MIXTURE

EPA METHOD 610

- Fluoranthene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- 1.12-Benzoperylene
- Indeno(1.2.3-C.D)pyrene

100ug/mL in Methanol - (6 components)
PAHEC-610JM **1mL Ampule**

METHOD 611 – HALOETHERS

HALOETHERS MIXTURE

EPA METHOD 611

- Bis(2-chloroethyl)ether
- Bis(2-chloroethoxy)methane
- Bis(2-chloroisopropyl)ether
- 4-Chlorophenyl phenyl ether
- 4-Bromophenyl phenyl ether

CS-611-1 2000ug/mL in Acetone - (5 components)

METHOD 612 – CHLORINATED HYDROCARBONS

Method 612 is applicable for determination of chlorinated hydrocarbons by gas chromatography, for municipal and industrial discharges, with measurement by an electron capture detector.

CHLORINATED HYDROCARBONS
EPA METHOD 612, *8120A*

- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- 1,2,4-Trichlorobenzene

Neat compounds of each of the above - (9 component kit)
PPCH-12N KIT

5mL Solutions of each, in the appropriate solvent - (9 component kit)
PPCH-12S KIT

METHOD 613 – TCDD

Method 613 is applicable for determination and measurement of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) by gas chromatography/ mass spectrometer (GC/MS).

TCDD (Dioxin)
EPA METHOD 613, *513*

2,3,7,8-Tetrachlorodibenzo-p-dioxin
F114S 1mL 10ug/mL in Toluene (Ampule)

INTERNAL STANDARDS
EPA METHOD 613, *513*

7860G 25mg 1,2,3,4-Tetrachlorodibenzo-p-dioxin
7860GS 1mL 50ug/mL in Toluene

METHOD 614, 614.1 – ORGANOPHOSPHOROUS PESTICIDES

Method 614 is applicable for determination of organophosphorus pesticides in industrial and municipal wastewater by gas chromatography. Method 614 represents a revision of a previously promulgated U.S. EPA method for organophosphorus pesticides. This method has been in widespread use since its promulgation, and represents the state of the art for the analysis of organophosphorus pesticides.

Method 614.1 is applicable for determination of organophosphorus pesticides in municipal and industrial wastewater by gas chromatography with measurement accomplished by a nitrogen/phosphorous specific detector.

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #1
EPA METHOD 614

- Demeton S
- Diazinon
- Disulfoton
- Ethion
- Guthion®
- Malathion
- Methyl parathion
- Parathion®

1000ug/mL in Hexane - (8 components)
OPP614-1M 5mL Ampule
OPP614-1JM 1mL Ampule

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #2
EPA METHOD 614.1

- Dioxathion
- EPN
- Ethion
- Terbufos

1000ug/mL in Hexane - (4 components)
OPP614-2M 5mL Ampule
OPP614-2JM 1mL Ampule

TUNING STANDARDS
EPA METHOD 614, 614.1

F834 10mg Decafluorotriphenylphosphine
F834S 5mL 2000ug/mL Methylene chloride
F834JS 1mL 2000ug/mL Methylene chloride (Ampule)

NOTE: This tuning standard is applicable for all EPA 600 Pesticides Methods.

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

METHOD 615 – CHLORINATED HERBICIDES

Method 615 is applicable for determination of chlorinated herbicides, as well as their salts and esters, through extraction and by electron capture gas chromatography (GC/ECD).

CHLORINATED HERBICIDES
EPA METHOD 615, *8151*

- Acifluorfen
- Bentazon
- Chloramben
- 4-Chloro-o-tolyloxyacetic acid
- 2,4-D
- Dalapon
- 2,4-DB
- Dicamba
- 3,5-Dichlorobenzoic acid
- Dichlorprop
- Dinoseb
- Mecoprop
- 4-Nitrophenol
- Pentachlorophenol
- Picloram
- Silvex
- 2,4,5-T®
- Tetrachloroterephthalic acid

CH-8151N Neat compounds of each of the above - (18 component kit)
CH-8151S Solutions of each in an appropriate solvent - (18 component kit)

CH-8151M Mixture at 1000ug/mL in Acetone, 5mL Ampule - (18 components)
CH-8151JM Mixture at 1000ug/mL in Acetone, 1mL Ampule - (18 components)

METHYLATED CHLORINATED HERBICIDES
EPA METHOD 615, *8151*

- Acifluorfen methyl ester
- Bentazon methyl derivative
- Chloramben methyl ester
- 4-Chloro-o-tolyloxyacetic acid methyl ester
- Chlorthal
- 2.4-D methyl ester
- Dalapon methyl ester
- 2,4-DB methyl ester
- Dicamba methyl ester
- 3.5-Dichlorobenzoic acid methyl ester
- Dichlorprop methyl ester
- Dinoseb methyl ether
- Mecoprop methyl ester
- p-Nitroanisole
- Pentachloroanisole
- Picloram methyl ester
- Silvex methyl ester
- (2.4.5-Trichlorophenoxy)acetic acid methyl ester

MCH-8151N Neat compounds of each of the above - (18 component kit)
MCH-8151S 5mL Solutions of each, in the appropriate solvent - (18 component kit)

MCH-8151M Mixture at 1000ug/mL in Acetone:Isooctane (10:90), 5mL Ampule - (18 components)
MCH-8151JM Mixture at 1000ug/mL in Acetone:Isooctane (10:90), 1mL Ampule - (18 components)

CHLORINATED HERBICIDES - CONTROL SAMPLE MIXTURE
EPA METHOD 615, *8150B*

10,000ug/mL	4-Chloro-o-tolyloxyacetic acid
100ug/mL	2,4-D
250ug/mL	Dalapon
100ug/mL	2,4-DB
10ug/mL	Dicamba
100ug/mL	Dichlorprop
50ug/mL	Dinoseb
10,000ug/mL	Mecoprop
10ug/mL	Silvex
10ug/mL	2,4,5-T®

Mixture in Acetone - (10 components)
CSM8150-1M **5mL Ampule**
CSM8150-1JM **1mL Ampule**

METHYLATED CHLORINATED HERBICIDES - CONTROL SAMPLE MIXTURE
EPA METHOD 615, *8150B*

10000ug/mL	4-Chloro-o-tolyloxyacetic acid methyl ester
100ug/mL	2,4-D methyl ester
250ug/mL	Dalapon methyl ester
100ug/mL	2,4-DB methyl ester
10ug/mL	Dicamba methyl ester
100ug/mL	Dichlorprop methyl ester
50ug/mL	Dinoseb methyl ether
10000ug/mL	Mecoprop methyl ester
10ug/mL	Silvex methyl ester
10ug/mL	(2,4,5-Trichlorophenoxy)acetic acid methyl ester

Mixture in Hexane - (10 components)
MCSM8150-1M **5mL Ampule**
MCSM8150-1JM **1mL Ampule**

INTERNAL & SURROGATE STANDARDS
EPA METHOD 615

F905DS	250ug/mL in Acetone	4,4-Dibromooctafluorobiphenyl
F2035CS	100ug/mL in Acetone	DCAA
F2036S	100ug/mL in Acetone	DCAA methyl ester

METHOD 617 – ORGANOHALIDE PESTICIDES

Method 617 is applicable to the separation and measurement of organohalide pesticides and PCBs in industrial and municipal discharges by electron capture gas chromatography.

TOXAPHENE® & CHLORDANE KIT
EPA METHOD 617, *608, 625, 8080A/8081, 8250A/8270B, CLP*

- Chlordane
- Toxaphene (TM)

Neat compounds of each - (2 component kit)
PP-7N **KIT**

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S **KIT**

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
EPA METHOD 617, *505, 508, 525.2, 608, 625, 1656, 8080A/8081, 8250A, 8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Chlordane
- Toxaphene (TM)

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S **KIT**

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 617, *508/508.1, 525.2, 608, 625, 1618, 1656,8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin
200ug/ml	4,4'-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M **5mL Ampule**
DC-508JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

ORGANOCHLORINE PESTICIDES MIXTURE
EPA METHOD 617, *508, 608, 625, 8080/8081, 8250A/8270B, CLP*

- Aldrin
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- Lindane (BHC gamma isomer)
- 4.4'-DDD
- 4.4'-DDE
- 4.4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (Isomer B)
- Methoxychlor

100ug/mL in Toluene:Hexane (50:50) - (17 components)
OCP-8080M 5mL Ampule
OCP-8080JM 1mL Ampule

NOTE: Inhibited with Hydroquinone

POLYCHLORINATED BIPHENYLS
EPA METHOD 617, *505, 608, 625, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Arochlor 1232

Neat compounds of each of the above - (7 component kit)
PP-8N KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S KIT

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS KIT

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 617, *508/508.1, 525.2, 608, 625, 1618, 1656,8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin aldehyde
100ug/ml	Endrin ketone
200ug/ml	4.4'-DDE
200ug/ml	4.4'-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M 5mL Ampule
DP508-1JM 1mL Ampule

METHOD 619 – TRIAZINE PESTICIDES

Method 619 is applicable to triazine pesticides' extraction, separation and measurement in industrial and municipal wastewaters by gas chromatography with a thermionic bead detector in the nitrogen mode.

TRIAZINE PESTICIDES MIXTURE
EPA METHOD 619

- Ametryne
- Propazine
- Atraton
- Simetryn
- Atrazine
- Simazine
- Prometon
- Terbuthylazine
- Prometryne
- Terbutryne

500ug/mL in Acetone - (10 components)
TP619-1M 5mL Ampule
TP619-1JM 1mL Ampule

Unless otherwise stated, for all the neat Standards Grade products, the purity has a deviation of +/- 0.5% and for the solutions, the concentration has a deviation of +/- 5%. We guarantee our neats to be +/- 0.5% of the labeled purity.

We guarantee our solutions to be +/- 5% of the labeled concentration. +/- 0.5% and +/-5% are the uncertainties that have been assigned to the purity and concentration.

METHOD 622 – ORGANOPHOSPHURUOUS PESTICIDES

Method 622 is applicable to the determination of organophosphorus pesticides in industrial and municipal wastewaters by extraction, separation and measurement by gas chromatography with a thermionic bead, or flame photometric detector, in the phosphorus mode.
Method 622.1 is applicable to the determination, separation, and measurement of thiophosphate pesticides in industrial and municipal wastewater discharge, as provided under 40 CFR 136.1, by alkali flame detector gas chromatography (GC/AFD).

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #2
EPA METHOD 622

- Dichlorvos
- Mevinphos
- Tetrachlorvinphos

1000ug/mL in Hexane - (3 components)
OPP622-1BM **5mL Ampule**
OPP622-1BJM **1mL Ampule**

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #3
EPA METHOD 622

- Chlorpyrifos
- Chlorpyrifos Methyl
- Diazinon
- Fenchlorphos
- Methyl parathion
- Prophos
- Tributylphosphorotrithioite

1000ug/mL in Hexane - (7 components)
OPP622-2M **5mL Ampule**
OPP622-2JM **1mL Ampule**

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #4
EPA METHOD 622

- Naled
- Dichlorvos
- Tetrachlorvinphos

1000ug/mL in Hexane - (3 components)
OPP622-3M **5mL Ampule**
OPP622-3JM **1mL Ampule**

MERPHOS CALIBRATION STANDARDS
EPA METHOD 622, *507, 1657, 8140/8141A, 8321*

F2214	250mg	S.S.S-Tributylphosphorotrithioate	
F2214S	5mL	100ug/mL	tert-Butylmethyl ether
F2214JS	1mL	100ug/mL	tert-Butylmethyl ether

ON-GOING STABILITY STUDIES

Chem Service is committed to providing our customers with high quality analytical materials. As part of our quality program, our Standards Grade materials have on-going, lot-specific testing. The testing program for all Standards Grade materials will certify the standard for purity, identity, concentration, and stability. Subsequently, through on-going testing, our Standards Grade material is tested to ensure it has maintained the certified quality. If we detect a purity or stability problem during the on-going testing, which will affect the expiration date of a Standards Grade material, rest assured, we will alert our customers and offer a replacement.

METHOD 622 – ORGANOPHOSPHUROUS PESTICIDES

Method 625 is used to determine the semivolatile toxic organic pollutants associated with the Clean Water Act (as amended 1987), the Resource Conservation and Recovery Act (as amended 1986), the Comprehensive Environmental Response, Compensation and Liability Act (as amended 1986), and other (base/neutrals and acids) compounds amenable to being partitioned into an organic solvent and analyzed by GC/MS.

Method 1625 (Revision B 1991) is designed to determine the semivolatile toxic organic pollutants associated with the 1976 Consent Decree, and additional compounds amenable to extraction and analysis by capillary column gas chromatography/mass spectrometry (GC/MS). The method is designed to meet the survey requirements of Effluent Guidelines Division (EGD) and the National Pollutants Discharge Elimination System (NPDES) under 40 CFR 138.1

CONSENT DECREE PURGEABLES
EPA METHOD 624/1624

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane
- 2-Chloroethylvinyl ether
- Chloroform
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Methyl bromide
- Methyl chloride
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- Toluene
- Vinyl chloride

PPW-24N Neat Compounds of each of the above - (31 component kit)
PPW-24S 5mL Solutions of each, in the appropriate solvent - (31 component kit)

NOTE: Neat kit contains Chloroethane, Dichlorodifluoromethans, Methyl bromide, Methyl chloride and Vinyl chloride in solution form only.

PURGEABLES MIXTURE A
EPA METHOD 624/1624

- Carbon tetrachloride
- Chlorobenzene
- 2-Chloroethyl vinyl ether
- Chloroform
- Dibromochloromethane
- 1,2-Dichlorobenzene
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,2-Dichloropropane
- Methylene chloride
- Tetrachloroethene
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane

200ug/mL in Methanol - (14 components)
PPW-24AM 5mL Ampule
PPW-24AJM 1mL Ampule

PURGEABLES MIXTURE B
EPA METHOD 624/1624

- Benzene
- Bromodichloromethane
- Bromoform
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- trans-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethyl benzene
- 1,1,2,2-Tetrachloroethane
- Toluene
- 1,1,1-Trichloroethane

200ug/mL in Methanol - (13 components)
PPW-24BM 5mL Ampule
PPW-24BJM 1mL Ampule

PURGEABLES MIXTURE C
EPA METHOD 624/1624, *CLP*

- Methyl bromide
- Chloroethane
- Methyl chloride
- Vinyl chloride

200ug/mL in Methanol - (4 components)
PPW-24CM 5mL Ampule
PPW-24CJM 1mL Ampule

PURGEABLE HYDROCARBONS AND AROMATICS MIXTURE
EPA METHOD 624/1624, *601/602*

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroform
- 1.2-Dichlorobenzene
- 1.3-Dichlorobenzene
- 1.4-Dichlorobenzene
- 1.1-Dichloroethane
- 1.2-Dichloroethane
- 1,1-Dichloroethene
- trans-1.2-Dichloroethene
- 1.2-Dichloropropane
- cis-1.3-Dichloropropene
- trans-1.3-Dichloropropene
- Ethylbenzene
- Methylene chloride
- 1.1.2.2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1.1.1-Trichloroethane
- 1.1.2-Trichloroethane
- Trichloroethene

200ug/mL in Methanol - (25 components)
PHA-1M 5mL Ampule
PHA-1JM 1mL Ampule

CONSENT DECREE PURGEABLES MIXTURES KIT
EPA METHOD 624/1624

PPW-24AM Purgeables Mixture A **PPW-24BM** Purgeables Mixture B **PPW-24CM** Purgeables Mixture C

5mL of each, 200ug/mL in Methanol - (3 component kit)
MMPPW24-3 KIT

GAS STANDARDS
EPA METHOD 624/1624, *502/524, 601/602, 8010B, 8021A, 8240B/8260A, 5041*

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

5mL Solutions of each, 100ug/mL in Methanol - (6 component kit)
PP-9 KIT

200ug/mL in Methanol - (6 components)
PP-9JM 1mL Ampule

2000ug/mL in Methanol - (6 components)
VOHC-6M 5mL Ampule
VOHC-6JM 1mL Ampule

2-CHLOROETHYL VINYL ETHER STANDARDS
EPA METHOD 624/1624

F19	5g	2-Chloroethyl vinyl ether	
F19S	5mL	100ug/mL	Methanol (Ampule)
F19JS	1mL	100ug/mL	Methanol (Ampule)

VINYL CHLORIDE STANDARDS
EPA METHOD 624/1624, *502/524, 8021A, 8260A*

		Vinyl chloride	
F88S	5mL	100ug/mL	Methanol (Ampule)
F88JS	1mL	100ug/mL	Methanol (Ampule)
F88AS	5mL	2000ug/mL	Methanol (Ampule)
F88AJS	1mL	2000ug/mL	Methanol (Ampule)

TUNING STANDARDS
EPA METHOD 624/1624

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol (Ampule)
F833JS	1mL	2000ug/mL	Methanol (Ampule)
F833AS	5mL	10,000ug/mL	Acetone (Ampule)
F833AJS	1mL	10,000ug/mL	Acetone (Ampule)

PURGEABLES - INTERNAL STANDARDS
EPA METHOD 624/1624, *601/602, 8010B*

- 1.4-Dichlorobutane
- Bromochloromethane
- 2-Bromo-1-chloropropane

2000ug/mL in Methanol - (3 components)
PP-10M 5mL Ampule
PP-10JM 1mL Ampule

ACROLEIN & ACRYLONITRILE
EPA METHOD 1624, *603, 8030A*

- Acrolein
- Acrylonitrile

Neat compounds of each of the above - (2 component kit)
PP-3N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-3S KIT

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

INTERNAL STANDARDS
EPA METHOD 624/1624

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206JS	1mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206AJS	1mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1mL	20,000ug/mL	Methanol (Ampule)
F205	500mg	2-Bromo-1-chloropropane	
F205S	5mL	100ug/mL	Methanol (Ampule)
F205JS	1mL	100ug/mL	Methanol (Ampule)
F205AS	5mL	2000ug/mL	Methanol (Ampule)
F205AJS	1mL	2000ug/mL	Methanol (Ampule)
F205BS	5mL	20,000ug/mL	Methanol (Ampule)
F205BJS	1mL	20,000ug/mL	Methanol (Ampule)
F204	2g	1.4-Dichlorobutane	
F204S	5mL	100ug/mL	Methanol (Ampule)
F204JS	1mL	100ug/mL	Methanol (Ampule)
F204AS	5mL	2000ug/mL	Methanol (Ampule)
F204AJS	1mL	2000ug/mL	Methanol (Ampule)
F204BS	5mL	20,000ug/mL	Methanol (Ampule)
F204BJS	1mL	20,000ug/mL	Methanol (Ampule)

SURROGATE STANDARDS
EPA METHOD 624/1624

F900	1g	Benzene-d_6	
F900S	5mL	2000ug/mL	Methanol (Ampule)
F900JS	1mL	2000ug/mL	Methanol (Ampule)
F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol (Ampule)
F833JS	1mL	2000ug/mL	Methanol (Ampule)
F833AS	5mL	10,000ug/mL	Acetone (Ampule)
F833AJS	1mL	10,000ug/mL	Acetone (Ampule)
F836	100mg	1,2-Dichloroethane-d_4	
F836S	5mL	2000ug/mL	Methanol (Ampule)
F836JS	1mL	2000ug/mL	Methanol (Ampule)
F837	100mg	1,4-Difluorobenzene	
F837S	5mL	2000ug/mL	Methanol (Ampule)
F837JS	1mL	2000ug/mL	Methanol (Ampule)
F901	100mg	Ethylbenzene-d_{10}	
F901S	5mL	2000ug/mL	Methanol (Ampule)
F901JS	1mL	2000ug/mL	Methanol (Ampule)
F839	2g	Fluorobenzene	
F839S	5mL	2000ug/mL	Methanol (Ampule)
F839JS	1mL	2000ug/mL	Methanol (Ampule)
F841	1g	Pentafluorobenzene	
F841S	5mL	2000ug/mL	Methanol (Ampule)
F841JS	1mL	2000ug/mL	Methanol (Ampule)

TUNING STANDARDS
EPA METHOD 1624

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol
F833AS	5mL	10,000ug/mL	Acetone
F833AJS	1mL	10,000ug/mL	Acetone
F843	100mg	Toluene-d_8	
F843S	5mL	2000ug/mL	Methylene chloride
F843JS	1mL	2000ug/mL	Methylene chloride
F843AS	5mL	2000ug/mL	Methanol
F843AJS	1mL	2000ug/mL	Methanol
F86	5g	Toluene	
F86JS	5mL	100ug/mL	Methanol
F86S	1mL	100ug/mL	Methanol

The Chem Service Difference

Our Standards Grade Solutions and Mixtures have been reviewed for possible solvent reactions and reactions with the other components. Every solution has weighed out components and is analytically compared with an independently prepared solution.

METHOD 625/1624 – SEMI-VOLATILE TOXIC ORGANICS

Method 625 is used to determine the semivolatile toxic organic pollutants associated with the Clean Water Act (as amended 1987), the Resource Conservation and Recovery Act (as amended 1986), the Comprehensive Environmental Response, Compensation and Liability Act (as amended 1986), and other (base/neutrals and acids) compounds amenable to being partitioned into an organic solvent and analyzed by GC/MS.

Method 1625 (Revision B 1991) is designed to determine the semivolatile toxic organic pollutants associated with the 1976 Consent Decree, and additional compounds amenable to extraction and analysis by capillary column gas chromatography/mass spectrometry (GC/MS). The method is designed to meet the survey requirements of Effluent Guidelines Division (EGD) and the National Pollutants Discharge Elimination System (NPDES) under 40 CFR 138.1

CONSENT DECREE BASE NEUTRALS AND ACIDS
EPA METHOD 625/1625

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- 1,2-Benzanthracene
- Benzidine
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Bis(2-chloroethoxy)methane
- Bis(2-chloroethyl)ether4
- Bis(2-chloroisopropyl)ether
- Bis(2-ethylhexyl)phthalate
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Di-n-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 3,3'-Dichlorobenzidine
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-n-octyl phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno(1,2,3-C,D)pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosodiphenylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene

PPW-25N Neat Compounds of each of the above - (46 component kit)
PPW-25S 5mL Solutions of each, in the appropriate solvent - (46 component kit)

PHENOLS
EPA METHOD 625/1625, *604, 8270B*

- 2.4.6-Trichlorophenol
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2.4-Dichlorophenol
- 2.4-Dimethylphenol
- 2-Nitrophenol
- 4-Nitrophenol
- 2.4-Dinitrophenol (min 15wt% water)
- 4.6-Dinitro-o-cresol
- Pentachlorophenol
- Phenol

PP-2N Neat compounds of each of the above - (11 component kit)
PP-2S 5mL Solutions of each, in the appropriate solvent - (11 components kit)

PP-2M Mixture at 100ug/mL in Methanol, 5mL - (11 components)
PP-2JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (11 components)

PP-HC9 Mixture at 2000ug/mL in Methylene chloride, 5mL Ampule - (11 components)
PP-HC9JM Mixture at 2000ug/mL in Methylene chloride, 1mL Ampule - (11 components)

TOXAPHENE® & CHLORDANE KIT
EPA METHOD 625, *608, 617, 8080A/8081, 8250A/8270B, CLP*

- Chlordane
- Toxaphene (TM)

Neat compounds of each of the above - (2 component kit)
PP-7N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S KIT

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

PHTHALATE ESTERS
EPA METHOD 625/1625, *606, 8060*

- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Di-n-butyl phthalate
- Di-n-octyl phthalate
- Diethyl phthalate
- Dimethyl phthalate

Neat compounds of each of the above - (6 component kit)
PPP-6N KIT

5mL Solutions of each, in the appropriate solvent - (6 component kit)
PPP-6S KIT

100ug/mL in Hexane - (6 components)
PPP-6M 5mL Ampule
PPP-6JM 1mL Ampule

2000ug/mL in Hexane - (6 components)
CSHC-3 5mL Ampule
CSHC-3JM 1mL Ampule

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
EPA METHOD 625, *505, 508, 525.2, 608, 617, 1656, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Chlordane
- Toxaphene (TM)

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

DIOXIN SCREENING STANDARDS
EPA METHOD 625

	2,3,7,8-Tetrachlorodibenzo-p-dioxin		
F114S	1mL	10ug/mL	Toluene

BASE NEUTRALS EXTRACTABLES MIXTURE
EPA METHOD 625/1625, *8270B, CLP*

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- 1.2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1.12-Benzoperylene
- Benzo(a)pyrene
- Bis(2-chloroethyl)ether
- Bis(2-chloroethoxy)methane
- Bis(2-ethylhexyl)phthalate
- Bis(2-chloroisopropyl)ether
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- 1.2:5.6-Dibenzanthracene
- Di-n-butyl phthalate
- 1.2-Dichlorobenzene
- 1.3-Dichlorobenzene
- 1.4-Dichlorobenzene
- Diethyl phthalate
- Dimethyl phthalate
- 2.4-Dinitrotoluene
- 2.6-Dinitrotoluene
- Di-n-octyl phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachloro-1.3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno(1.2.3-C.D)pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosodiphenylamine
- Phenanthrene
- Pyrene
- 1.2.4-Trichlorobenzene

1000ug/mL in Benzene:Methylene chloride:Acetonitrile (4:4:2) - (44 Components)
BN625-1M 5mL Ampule
BN625-1JM 1mL Ampule

POLYCHLORINATED BIPHENYLS
EPA METHOD 625, *608, 617, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260

Neat compounds of each of the above - (7 component kit)
PP-8N KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S KIT

MIXTURE #7 - BENZIDINES
EPA METHOD 625/1625, *605, 8270B, CLP*

- Benzidine
- 3,3'-Dichlorobenzidine

2000ug/mL in Methanol - (2 components)
PP-HC7 5mL Ampule
PP-HC7JM 1mL Ampule

BASE NEUTRALS EXTRACTABLES MIXTURES KIT *(BN625-1M & PP-HC7)*
EPA METHOD 625/1625, *8270B, CLP*

BN625-1M Base Neutrals Extractables Mixture
PP-HC7 Mixture #7-Benzidines

5mL of each, in the appropriate solvent - (2 component kit)
MMBN625PP7-2 KIT

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 625, *508/508.1, 525.2, 608, 617, 1656, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin
200ug/ml	4.4'-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M 5mL Ampule
DC-508JM 1mL Ampule

TUNING STANDARDS MIXTURE
EPA METHOD 625, *8250A/8270B, CLP*

- Benzidine
- 4.4'-DDT
- Decafluorotriphenylphosphine
- Pentachlorophenol

1000ug/mL in Methylene chloride - (4 components)
CLP-TS1M 5mL Ampule
CLP-TS1JM 1mL Ampule

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 625, *508/508.1, 525.2, 608, 617, 1656, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin aldehyde
100ug/ml	Endrin ketone
200ug/ml	4.4'-DDE
200ug/ml	4.4'-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M 5mL Ampule
DP508-1JM 1mL Ampule

ACID INTERNAL STANDARDS
EPA METHOD 625

F430	1g	2-Fluorophenol	
F430AS	5mL	2000ug/mL	Methanol
F430AJS	1mL	2000ug/mL	Methanol
F440	1g	Pentafluorophenol	
F440S	5mL	100ug/mL	Methanol
F440JS	1mL	100ug/mL	Methanol
F330	100mg	Phenol-d_6	
F330S	5mL	2000ug/mL	Methanol
F330JS	1mL	2000ug/mL	Methanol

ORGANOCHLORINE PESTICIDES
EPA METHOD 625, *508, 608, 8080A/8081, 8250A/8270B, CLP*

- Aldrin®
- Arochlor 1242
- Arochlor 1254
- Arochlor 1221
- Arochlor 1232
- Arochlor 1248
- Arochlor 1260
- Arochlor 1016
- a-BHC
- b-BHC
- d-BHC
- Chlordane
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide
- Lindane (g-BHC)
- Methoxychlor
- Toxaphene®

PPO-8N Neat compounds of each - (26 component kit)
PPO-8S 5mL Solutions of each, in the appropriate solvent - (26 component kit)

PPO-8M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PPO-8JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

PP-HC5 Mixture at 2000ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PP-HC5JM Mixture at 2000ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

OCP-8080M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (17 components)
OCP-8080JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (17 components)

NOTE: Inhibited with Hydroquinone

OCP508-1M Mixture at 1000ug/mL in tert-Butylmethyl ether, 5mL Ampule - (20 components)
OCP508-1JM Mixture at 1000ug/mL in tert-Butylmethyl ether, 1mL Ampule - (20 components)

NOTE: PPO-8M, PPO-8JM, PP-HC5, PP-HC5JM, OCP-8080M, OCP-8080JM, OCP508-1M & OCP508-1JM do not contain the Arochlors, Chlordane or Toxaphene.

NOTE: PPO-8M, PPO-8JM, PP-HC5 & PP-HC5JM do not contain Methoxychlor.

NOTE: OCP508-1M, OCP508-1JM contain F2022 Endrin Ketone, cis-Chlordane and trans-Chlordane.

PERFORMANCE STANDARDS
EPA METHOD 625

F5	250mg	Benzidine	
F5S	5mL	100ug/mL	Ethanol (Ampule)
F5JS	1mL	100ug/mL	Ethanol (Ampule)
F92	1g	4.4′-DDT	
F92S	5mL	100ug/mL	Hexane (Ampule)
F92JS	1mL	100ug/mL	Hexane (Ampule)
F834	10mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F64	1g	Pentachlorophenol	
F64S	5mL	100ug/mL	Methanol (Ampule)
F64JS	1mL	100ug/mL	Methanol (Ampule)

BASE NEUTRAL INTERNAL STANDARDS
EPA METHOD 625

F300	100mg	Aniline-d_5	
F300S	5mL	2000ug/mL	Methanol (Ampule)
F300JS	1mL	2000ug/mL	Methanol (Ampule)
F207	100mg	Anthracene-d_{10}	
F207S	5mL	100ug/mL	Methanol (Ampule)
F207JS	1mL	100ug/mL	Methanol (Ampule)
F207AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F207AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F902	10mg	Benzo(a)anthracene-d_{12}	
F902S	5mL	2000ug/mL	Methylene chloride (Ampule)
F902JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F2172	500mg	4.4′-Dibromobiphenyl	
F2172S	5mL	1000ug/mL	Methylene chloride (Ampule)
F2172JS	1mL	1000ug/mL	Methylene chloride (Ampule)
F2172AS	5mL	100ug/mL	Hexane (Ampule)
F2172AJS	1mL	100ug/mL	Hexane (Ampule)
F2172BS	5mL	2000ug/mL	Ethyl acetate (Ampule)
F2172BJS	1mL	2000ug/mL	Ethyl acetate (Ampule)
F905	100mg	4,4′-Dibromooctafluorobiphenyl	
F905S	5mL	2000ug/mL	Methylene chloride (Ampule)
F905JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F904	1g	Decafluorobiphenyl	
F904S	5mL	2000ug/mL	Methylene chloride (Ampule)
F904JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F904AS	5mL	2000ug/mL	Acetonitrile (Ampule)
F904AJS	1mL	2000ug/mL	Acetonitrile (Ampule)
F400	100mg	2.2′-Difluorobiphenyl	
F400S	5mL	100ug/mL	Methanol (Ampule)
F400JS	1mL	100ug/mL	Methanol (Ampule)
F400AS	5mL	10,000ug/mL	Benzene (Ampule)
F400AJS	1mL	10,000ug/mL	Benzene (Ampule)

(cont'd on pg. 190)

(cont'd from pg. 189)

BASE NEUTRAL INTERNAL STANDARDS
EPA METHOD 625

F838	5g	4-Fluoroaniline	
F838S	5mL	2000ug/mL	Methylene chloride
F838JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F420	1g	1-Fluoronaphthalene	
F420S	5mL	100ug/mL	Methanol (Ampule)
F420JS	1mL	100ug/mL	Methanol (Ampule)
F906	100mg	2-Fluoroanaphthalene	
F906S	5mL	2000ug/mL	Methylene chloride (Ampule)
F906JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F310	100mg	Naphthalene-d_8	
F310S	5mL	2000ug/mL	Isooctane (Ampule)
F310JS	1mL	2000ug/mL	Isooctane (Ampule)
F320	1g	Nitrobenzene-d_5	
F320S	5mL	2000ug/mL	Methanol (Ampule)
F320JS	1mL	2000ug/mL	Methanol (Ampule)
F2162	100mg	2,3,4,5,6-Pentafluorobiphenyl	
F2162S	5mL	1000ug/mL	Methylene chloride (Ampule)
F2162JS	1mL	1000ug/mL	Methylene chloride (Ampule)
F208	100mg	Phenanthrene-d_{10}	
F208S	5mL	100ug/mL	Methanol (Ampule)
F208JS	1mL	100ug/mL	Methanol (Ampule)
F208AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F208AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F340	1g	Pyridine-d_5	
F340S	5mL	2000ug/mL	Isooctane (Ampule)
F340JS	1mL	2000ug/mL	Isooctane (Ampule)

HYDROCARBONS
EPA METHOD 1625

- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)
- n-Triacontane (C30)

HY1625-1N Neat compounds of each of the above - (11 component kit)
HY1625-1S 5mL Solutions of each, in the appropriate solvent - (11 component kit)

HY1625-1M Mixture at 4000ug/mL in Methylene chloride, 5mL Ampule - (11 components)
HY1625-1JM Mixture at 4000ug/mL in Methylene chloride, 1mL Ampule - (11 components)

INTERNAL STANDARDS
EPA METHOD 1625

F400	100mg	2.2'-Difluorobiphenyl	
F400S	5mL	100ug/mL	Methanol
F400JS	1mL	100ug/mL	Methanol
F400AS	5mL	10,000ug/mL	Benzene
F400AJS	1mL	10,000ug/mL	Benzene

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

METHOD 627 – DINITROANILINE PESTICIDES

Method 627 is applicable to the determination of dinitroaniline pesticides in industrial and municipal discharges as provided under 40 CFR 136.1 by gas chromatography. However, it fails to distinguish between Benfluralin, Ethalfluralin, and Trifluralin. When more than one of these materials may be present in a sample, the results are reported as Trifluralin.

CALIBRATION STANDARDS
EPA METHOD 627

F2140	1g	Trifluralin	
F2140S	5mL	100ug/mL	Toluene (Ampule)
F2140JS	1mL	100ug/mL	Toluene (Ampule)

METHOD 629 – BLADEX (CYANAZINE)

Method 629 is applicable to the determination of Cyanazine in municipal and industrial wastewater. It is a high-performance liquid chromatographic (HPLC) method. HPLC conditions are described which allow for separation and measurement of cyanazine in the extract by HPLC with a UV detector. The method provides for an optional Florisil column cleanup procedure to aid in the elimination or reduction of interferences.

BLADEX (CYANAZINE) STANDARDS
EPA METHOD 629

F2487	1g	Bladex	
F2487S	5mL	1000ug/mL	tert-Butylmethyl ether (Ampule)
F2487JS	1mL	1000ug/mL	tert-Butylmethyl ether (Ampule)

METHOD 630/630.1 – DITHIOCARBAMATE PESTICIDES

Method 630 is applicable to the determination of dithiocarbamate pesticides. It is the colorimetric method for the determination of the dithiocarbamate pesticides compounds in industrial and municipal discharges as provided under 40 CFR 136.1. (Note that this method fails to distinguish between the individual dithiocarbamates, for all results are reported as Ziram). Carbon disulfide is an interferant.

Method 630.1 is applicable the determination of the dithiocarbamate pesticide compounds listed in municipal and industrial discharges as provided under 40 CFR 136.1, by total residue gas chromatography. This method includes procedures to purge CS_2 from the wastewater prior to acid hydrolysis of the sample. A vortex evaporator is used for CS_2 removal.

DITHIOCARBAMATE PESTICIDES CALIBRATION STANDARDS
EPA METHOD 630/630.1

F2368	1g	Ziram	
F2368S	5mL	100ug/mL	Acetonitrile
F2368JS	1mL	100ug/mL	Acetonitrile (Ampule)

INTERFERENT CHECK STANDARDS
EPA METHOD 630.1

F705	5g	Carbon disulfide	
F705S	5mL	100ug/mL	Methanol (Ampule)
F705JS	1mL	100ug/mL	Methanol (Ampule)
F705AS	5mL	100ug/mL	Hexane (Ampule)
F705AJS	1mL	100ug/mL	Hexane (Ampule)

METHOD 631 – BENOMYL AND CARBENDAZIM

Method 631 is applicable to the determination of Benomyl and Carbendazim by high performance liquid chromatography (HPLC) in industrial and municipal discharges as provided under 40 CFR 136.1. Note that Benomyl is hydrolyzed to carbendazim, and both compounds are measured and reported as carbendazim.

BENOMYL AND CARBENDAZIM STANDARDS
EPA METHOD 631

PS-222	100mg	Benomyl	
F2369	100mg	Carbendazim	
F2369S	5mL	100ug/mL	Methanol
F2369JS	1mL	100ug/mL	Methanol (Ampule)

METHOD 632 – CARBAMATE UREA PESTICIDES

Method 632 is applicable to the determination of carbamate and urea pesticides in industrial and municipal wastewater by high performance liquid chromatography (HPLC). Note that this method provides for an optional Florisil column cleanup procedure, to aid in the elimination or reduction of interferences, which may be encountered (caused by contaminants in solvents, reagents, glassware and other sample processing apparatus that lead to discrete artifacts or elevated baselines in liquid chromatograms).

CARBAMATE & UREA PESTICIDES MIXTURE
EPA METHOD 632

- Aminocarb
- Barban
- Chlorpropham
- Carbaryl
- Carbofuran
- Diuron
- Fenuron
- Fluometuron
- Linuron
- Methiocarb
- Methomyl
- Monuron
- Neburon
- Oxamyl
- Propoxur
- Siduron
- Siduron
- Swep

1000ug/mL in Acetonitrile - (18 components)
CUP632-1M **5mL**
CUP632-1JM **1mL Ampule**

CARBAMATE & UREA PESTICIDES MIXTURE #2
EPA METHOD 632

- Aminocarb
- Barban
- Carbaryl
- Carbofuran
- Chlorpropham
- Diuron
- Fenuron
- Fluometuron
- Linuron
- Methiocarb
- Methomyl
- Monuron
- Neburon
- Oxamyl
- Propham
- Propoxur
- Siduron
- Swep
- Zectran (Mexacarbate)

1000ug/mL in Acetonitrile - (19 components)
CUP632-2M **5mL**
CUP632-2JM **5mL Ampule**

ADDITIONAL ANALYTES
EPA METHOD 632

F2558	1g	Fenuron TCA
F2560	1g	Monuron TCA

METHOD 634 – THIOCARBAMATE PESTICIDES

Method 634 is applicable to the determination of thiocarbamate pesticides in industrial and municipal wastewaters. Sample extraction and concentration steps in this method are similar to other 600 Series Methods. The separation and measurement of the compounds in the extract is by alkali flame detector (AFD) gas chromatography. To aid in the elimination of interferences an optional silica gel column cleanup procedure is provided. This method describes analytical conditions for a second gas chromatographic column that can be used to confirm measurements made with the primary column, as well as the gas chromatograph/mass spectrometer (GC/MS) criteria appropriate for the qualitative confirmation of these compounds.

THIOCARBAMATE PESTICIDES MIXTURE
EPA METHOD 634

- Butylate
- Cycloate
- S-Ethyl dipropylthiocarbamate
- Molinate
- S-Propyl butylethylthiocarbamate
- Vernolate

1000ug/mL in tert-Butylmethyl ether - (6 components)
TCP-507M **5mL Ampule**
TCP-507JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 634

F2052	5g	Triphenyl phosphate	
F2052S	5mL	500ug/mL	tert-Butylmethyl ether (Ampule)
F2052JS	1mL	500ug/mL	tert-Butylmethyl ether (Ampule)

SURROGATE STANDARDS
EPA METHOD 634

F2051	5g	1,3-Dimethyl-2-nitrobenzene	
F2051S	5mL	2000ug/mL	tert-Butylmethyl ether (Ampule)
F2051JS	1mL	2000ug/mL	tert-Butylmethyl ether (Ampule)

METHOD 635 – ROTENONE

Method 635 is applicable to the determination of rotenone (as well as separation and measurement of the compounds in the extract by HPLC/UV) in industrial and municipal wastewaters.

ROTENONE STANDARDS
EPA METHOD 635

F2382	250mg	Rotenone	
F2382S	5mL	1000ug/mL	Methylene chloride (Ampule)
F2382JS	1mL	1000ug/mL	Methylene chloride (Ampule)

METHOD 636 – BENSULIDE

Method 636 is applicable to the determination of Bensulide pesticide as well as separation and measurement of the compounds in the extract by HPLC-UV in municipal and industrial discharges as provided under 40 CFR 136.1.

BENSULIDE STANDARDS
EPA METHOD 636

F2383	250mg	Bensulide	
F2383S	5mL	1000ug/mL	Methanol
F2383JS	1mL	1000ug/mL	Methanol (Ampule)

METHOD 638 – ORYZALINE

Method 638 is applicable to the determination of Oryzalin pesticide (as well as separation and measurement of the compounds in the extract by HPLC/UV in municipal and industrial discharges as provided under 40 CFR 136.1.

ORYZALIN STANDARDS
EPA METHOD 638

F2386	1g	Oryzalin	
F2386S	5mL	1000ug/mL	Acetonitrile
F2386JS	1mL	1000ug/mL	Acetonitrile (Ampule)

METHOD 639 – BENDIOCARB

Method 639 is applicable to the determination of bendiocarb pesticide (as well as separation and measurement of the compounds in the extract by HPLC/UV) in municipal and industrial discharges as provided under 40 CFR 136.1.

BENDIOCARB STANDARDS
EPA METHOD 639

F2387	250mg	Bendiocarb	
F2387S	5mL	1000ug/mL	Acetonitrile
F2387JS	1mL	1000ug/mL	Acetonitrile (Ampule)

INTERNAL STANDARDS
EPA METHOD 639

F2271	5g	Methyl benzoate	
F2271S	5mL	500ug/mL	Methanol
F2271JS	1mL	500ug/mL	Methanol (Ampule)

METHOD 640 – 2-MERCAPTOBENZOTHIZOLE

Method 640 is applicable to the determination of Mercaptobenzothiazole (as well as separation and measurement of the compounds in the extract by HPLC/UV) in municipal and industrial discharges as provided under 40 CFR 136.1. This method provides a silica gel column cleanup procedure to aid in the elimination of interferences.

2-MERCAPTOBENZOTHIAZOLE STANDARDS
EPA METHOD 640

F2388	2g	2-Mercaptobenzothiazole	
F2388S	5mL	1000ug/mL	Methanol
F2388JS	1mL	1000ug/mL	Methanol

METHOD 641 – THIABENDAZOLE

Method 641 is applicable to the determination of thiabendazole (as well as the separation and accurate measurement of thiabendazole by direct aqueous injection HPLC with fluorescence detection) in municipal and industrial wastewater.

THIABENDAZOLE® STANDARDS
EPA METHOD 641

F2389	1g	Thiabendazole	
F2389S	5mL	1000ug/mL	Methanol (Ampule)
F2389JS	1mL	1000ug/mL	Methanol (Ampule)

METHOD 643 – BENTAZON

Method 643 is applicable to the determination of Bentazon (as well as separation and measurement of it in the aqueous methylene chloride extract) in municipal and industrial wastewater by high performance liquid chromatography (HPLC).

BENTAZON STANDARDS
EPA METHOD 643

F2038	1g	Bentazon	
F2038S	5mL	100ug/mL	Acetone (Ampule)
F2038JS	1mL	100ug/mL	Acetone (Ampule)
F2038AS	5mL	1000ug/mL	Acetonitrile (Ampule)
F2038AJS	1mL	1000ug/mL	Acetonitrile (Ampule)

METHOD 644 – PICLORAM

Method 644 is applicable to the determination of Picloram in municipal and industrial wastewater by extraction, followed by analysis by HPLC with ultraviolet (UV) detection. An alkaline back-extraction is used as necessary to eliminate interferences.

PICLORAM STANDARDS
EPA METHOD 644

F2041	100mg	Picloram	
F2041S	5mL	100ug/mL	Acetone (Ampule)
F2041JS	1mL	100ug/mL	Acetone (Ampule)
F2041AS	5mL	1000ug/mL	Acetonitrile (Ampule)
F2041AJS	1mL	1000ug/mL	Acetonitrile (Ampule)

INTERNAL STANDARDS
EPA METHOD 644

F2266	5g	Salicylic acid	
F2266S	5mL	2000ug/mL	Isopropanol (Ampule)
F2266JS	1mL	2000ug/mL	Isopropanol (Ampule)

METHOD 645 – AMINE PESTICIDES & LETHANE

Method 645 is applicable to the determination of amine pesticides and Lethane in municipal and industrial wastewater. Analysis is by gas chromatography. Measurement of the pesticides is accomplished with a nitrogen/phosphorous specific detector. This method provides identification by gas chromatography/mass spectrometer (GC/MS).

INTERNAL STANDARDS
EPA METHOD 645

F2052	5g	Triphenyl phosphate	
F2052S	5mL	500ug/mL	tert-Butylmethyl ether (Ampule)
F2052JS	1mL	500ug/mL	tert-Butylmethyl ether (Ampule)

SURROGATE STANDARDS
EPA METHOD 645

F2051	5g	1,3-Dimethyl-2-nitrobenzene	
F2051S	5mL	2000ug/mL	tert-Butylmethyl ether (Ampule)
F2051JS	1mL	2000ug/mL	tert-Butylmethyl ether (Ampule)

METHOD 680 – PESTICIDE AND PCB CONGENERS

Method 680 is applicable to the determination of pesticides and PCB congeners by gas chromatography and mass spectrometry.

ORGANOCHLORINE PESTICIDES MIXTURE

EPA METHOD 680, *508/508.1, 608, 617, 625, 8080A/8081, 8250A/8270B, CLP*

- Aldrin
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- Lindane (BHC gamma isomer)
- 4.4'-DDD
- 4.4'-DDE
- 4.4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Enobsulfan Sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Methoxychlor
- Endrin ketone
- Heptachlor epoxide (Isomer B)
- cis-Chlordane
- trans-Chlordane

1000ug/mL in tert-Butylmethyl ether - (20 components)

OCP508-1M **5mL Ampule**
OCP508-1JM **1mL Ampule**

TUNING STANDARDS

EPA METHOD 680

F834	10mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene Chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene Chloride (Ampule)

INTERNAL STANDARDS

EPA METHOD 680

F730	10mg	Chrysene-d_{12}	
F730S	5mL	2000ug/mL	Methylene chloride (Ampule)
F730JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F208	100mg	Phenanthrene-d_{10}	
F208S	5mL	100ug/mL	Methanol (Ampule)
F208JS	1mL	100ug/mL	Methanol (Ampule)
F208AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F208AJS	1mL	2000ug/mL	Methylene chloride (Ampule)

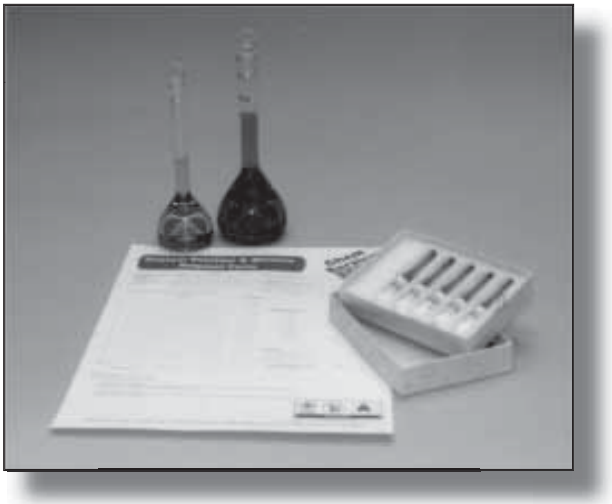
ON-GOING STABILITY STUDIES

Chem Service is committed to providing our customers with high quality analytical materials. As part of our quality program, our Standards Grade materials have on-going, lot-specific testing. The testing program for all Standards Grade materials will certify the standard for purity, identity, concentration, and stability. Subsequently, through on-going testing, our Standards Grade material is tested to ensure that it has maintained the certified quality. If we detect a purity or stability problem during the on-going testing, which will affect the expiration date of a Standard's Grade material, rest assured, we will alert our customers and offer a replacement.

EPA METHOD REQUEST FORM

Many of the following EPA mixtures are very similar. Chem Service prepares an excellent assortment of standards for these EPA methods. When seeking a particular mixture, please check to see if it is listed under a similar method. If you need a mixture which we have not yet catalogued, please use the custom solution and mixture form. Your request will be returned to you promptly.

With our expertise in analyte compatibility, solubility, solution stability and analysis, Chem Service is uniquely qualified to provide your customized solutions and mixture standards. For a custom quotation, please use the request form on page 8.



EPA 1600 Series Methods for Wastewater Pollutants

The 1600 Series Methods are test procedures developed by EPA's Engineering and Analysis Division (EAD) (formerly the Industrial Technology Division and the Effluent Guidelines Division) within the EPA's Office of Science and Technology. The EPA promulgates effluent limitation guidelines and standards for the Pesticide Chemical Industry, under the authority derived from 40 CFR Part 455, to control the discharge of pollutants, including certain pesticide active ingredients, into the waters of the United States.

The 1600-Series Pesticide Methods, written by the EAD, were developed to measure active hazardous ingredients in support of the pesticides rulemaking, and have therefore been applied to the specific wastewater for which they were intended.

METHOD#	METHOD DESCRIPTION	PAGE
1618	Organohalide Pesticides, Organophosphorus Pesticides and Phenoxy-acid Herbicides by GC	197-199
	Volatile Organic Compounds By Isotope Dilution by GC/MS (combined with 624)	
	Determination of Semivolatile Toxic Organic Compounds, by P&T, GC/MS (combined with 625)	
1656	Determination of Organohalide Pesticides by GC/HSD	199
1657	Determination of Organophosphorus Pesticides by GC/FPD	200
1660	Determination of Pyrethrins and Pyrethroids by HPLC/UV	201
1663	Determination of Diesel and Crude Oil by GC)	201
1664	n-Hexane Extractable Material and Silica Gel Treated n-Hexane Extractable Material by Extraction and Gravimetry (Oil & Grease and Petroleum Hydrocarbons)	201

METHOD 1618 – ORGANOHALIDE & ORGANOPHOSPHOROUS PESTICIDES

Method 1618 is applicable to the determination of organohalide pesticides, organophosphorus pesticides, and phenoxy-acid herbicides. This method applies a wide bore capillary column gas chromatography procedure for the analysis of halogen-specific and organophosphorus detectors.

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #1
EPA METHOD 1618

50ug/mL	Coumaphos
100ug/mL	Diazinon
50ug/mL	Dichlorvos
100ug/mL	Dimethoate
100ug/mL	Dylox®
100ug/mL	EPN
100ug/mL	Fenchlorphos
200ug/mL	Fensulfothion
100ug/mL	Azinphos-methyl
100ug/mL	Guthion Ethyl
100ug/mL	Malathion
100ug/mL	Methyl parathion
100ug/mL	Parathion®
100ug/mL	Phorate
100ug/mL	Prophos
50ug/mL	Sulprofos
100ug/mL	Terbufos
100ug/mL	Tetrachlorvinphos
200ug/mL	S.S.S-Tributylphosphorotrithioate

Mixture in Isooctane - (19 components)
OPP1618-1M **5mL Ampule**
OPP1618-1JM **1mL Ampule**

DIBUTYL CHLORENDATE STANDARDS
EPA METHOD 1618

F850	1g	Dibutyl chlorendate	
F850S	5mL	1000ug/mL	Methylene chloride (Ampule)
F850JS	1mL	1000ug/mL	Methylene chloride (Ampule)
F850AS	5mL	2000ug/mL	Acetone (Ampule)
F850AJS	1mL	2000ug/mL	Acetone (Ampule)

CHLORINATED HERBICIDES MIXTURE
EPA METHOD 1618, *8150B, 8321*

- 2,4-D
- 2,4-DB
- Dalapon
- Dicamba
- Dichlorprop
- Dinoseb
- 4-Chloro-o-tolyloxyacetic acid
- Mecoprop
- Silvex
- 2,4,5-T®

Mixture at 100ug/mL in Acetone - (10 components)
CH-8150M **5mL Ampule**
CH-8150JM **1mL Ampule**

ORGANOPHOSPHOROUS PESTICIDES MIXTURE #2
EPA METHOD 1618

50ug/mL	Chlorfenvinphos
50ug/mL	Chlorpyrifos
100ug/mL	Chlorpyrifos Methyl
200ug/mL	Crotoxyphos
200ug/mL	Demeton S
100ug/mL	Naled
100ug/mL	Dichlofenthion
600ug/mL	Dioxathion
100ug/mL	Disulfoton
100ug/mL	Ethion
200ug/mL	Famphur
100ug/mL	Fenthion
100ug/mL	Mevinphos
200ug/mL	Phosmet
100ug/mL	Leptophos
50ug/mL	Tetraethyldithiopyrophosphate
100ug/mL	Tokuthion®
100ug/mL	Trichloronate

Mixture in Isooctane - (18 components)
OPP1618-2M **5mL Ampule**
OPP1618-2JM **1mL Ampule**

NON-ITD ORGANOPHOSPHATE COMPOUND
EPA METHOD 1618

		Carbophenothion methyl	
MET-88A	5mL	100ug/mL	Methanol

GPC CALIBRATION MIXTURE
EPA METHOD 1618, *1656, 1657*

15,000ug/mL	Bis(2-ethylhexyl)phthalate
300,000ug/mL	Corn oil
1,400ug/mL	Pentachlorophenol
100ug/mL	Perylene
500ug/mL	Sulfur-sublimed

Mixture in Isooctane - (5 components)
GPC1657-1M **5mL Ampule**
GPC1657-1JM **1mL Ampule**

SURROGATE STANDARDS FOR PHENOXY ACID HERBICIDES
EPA METHOD 1618

F2035	100mg	2,4-Dichlorophenylacetic acid	
F2035S	5mL	2000ug/mL	Acetone

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 1618, *508/508.1, 525.2, 608, 617, 1656, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin
200ug/ml	4.4'-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M **5mL Ampule**
DC-508JM **1mL Ampule**

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 1618, *508/508.1, 525.2, 608,617, 1656, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin aldehyde
100ug/ml	Endrin ketone
200ug/ml	4.4'-DDE
200ug/ml	4.4'-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M 5mL Ampule
DP508-1JM 1mL Ampule

METHYLATED CHLORINATED HERBICIDES MIXTURE
EPA METHOD 1618, *8150B*

- 2,4-D methyl ester
- 2,4-DB methyl ester
- Dalapon methyl ester
- Dicamba methyl ester
- Dichlorprop methyl ester
- Dinoseb methyl ether
- 4-Chloro-o-tolyloxy acetic acid methyl ester
- Mecoprop methyl ester
- Silvex, methyl ester
- 2,4,5-(Trichlorophenoxy) acetic acid methyl ester

Mixture at 100ug/mL in Methanol - (10 components)
MCH-8150M 5mL Ampule
MCH-8150JM 1mL Ampule

SPE CARTRIDGE CALIBRATION STANDARDS
EPA METHOD 1618

F21	5g	2,4,6-Trichlorophenol	
F21S	5mL	100ug/mL	Methanol
F21JS	1mL	100ug/mL	Methanol

METHOD 1656 – ORGANOHALIDE PESTICIDES

Method 1656 is applicable to determination of the organo-halide pesticides and polychlorinated biphenyls (PCBs) and other compounds amenable to extraction and analysis by wide-bore capillary column gas chromatography (GC) with halogen-specific detectors (HSD).

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
EPA METHOD 1656, *505, 508, 525.2, 608, 617, 625, 8080A/8081, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Chlordane
- Toxaphene (TM)

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 1656, *508/508.1, 525.2, 608, 617, 1618, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin
200ug/ml	4.4'-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M 5mL Ampule
DC-508JM 1mL Ampule

GPC CALIBRATION MIXTURE
EPA METHOD 1656, *1618,1657*

15000ug/ml	Bis(2-ethylhexyl)phthalate
300000ug/ml	Corn oil
1400ug/ml	Pentachlorophenol
100ug/ml	Perylene
500ug/ml	Sulfur-sublimed

Mixture in Isooctane - (5 components)
GPC1657-1M 5mL Ampule
GPC1657-1JM 1mL Ampule

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 1656, *508/508.1, 525.2, 608, 617, 1618, 8080A/8081, 8250A/8270B, CLP*

100ug/ml	Endrin aldehyde
100ug/ml	Endrin ketone
200ug/ml	4.4′-DDE
200ug/ml	4.4′-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M **5mL Ampule**
DP508-1JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 1656

F850	1g	Dibutyl chlorendate	
F850S	5mL	1000ug/mL	Methylene chloride (Ampule)
F850JS	1mL	1000ug/mL	Methylene chloride (Ampule)
F850AS	5mL	2000ug/mL	Acetone (Ampule)
F850AJS	1mL	2000ug/mL	Acetone (Ampule)

ADDITIONAL METHOD ANALYTES
EPA METHOD 1656

F2096	1g	Carbophenothion	
F2096S	5mL	100ug/mL	Methanol
F2096JS	1mL	100ug/mL	Methanol
F99	10mg	Endrin aldehyde	
F99S	5mL	100ug/mL	Methanol
F99JS	1mL	100ug/mL	Methanol
F2379	1g	Propanil	
F2379S	5mL	1000ug/mL	Acetonitrile:Acetone (90:10)
F2379JS	1mL	1000ug/mL	Acetonitrile:Acetone (90:10)

F106	1g	Toxaphene®	
F106S	5mL	100ug/mL	Methanol
F106JS	1mL	100ug/mL	Methanol (Ampule)
F106AS	5mL	2500ug/mL	Acetone (Ampule)
F106AJS	1mL	2500ug/mL	Acetone (Ampule)
F106BS	5mL	1000ug/mL	Hexane (Ampule)
F106BJS	1mL	1000ug/mL	Hexane (Ampule)

METHOD 1657 – ORGANOPHOSPHOROUS PESTICIDES

Method 1657 is applicable to the determination in waters, soils, sediments, and sludges, organophosphorus pesticides and additional compounds amenable to extraction and analysis by wide-bore capillary column gas chromatography (GC) with a flame photometric detector (FPD).

SURROGATE SPIKING MIXTURE
EPA METHOD 1657

- Tributyl phosphate
- Triphenyl phosphate

2000ug/mL in Acetone - (2 components)
SS-1657M **5mL Ampule**
SS-1657JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 1657

F2191	5g	Tributyl phosphate	
F2191S	5mL	2000ug/mL	Acetone (Ampule)
F2191JS	1mL	2000ug/mL	Acetone (Ampule)
F2052	5g	Triphenyl phosphate	
F2052S	5mL	500ug/mL	tert-Butylmethyl ether (Ampule)
F2052JS	1mL	500ug/mL	tert-Butylmethyl ether (Ampule)

MERPHOS CALIBRATION STANDARDS
EPA METHOD 1657, *507, 622, 8140/8141A, 8321*

F2214	1g	S,S,S-Tributylphosphorotrithioate	
F2214S	5mL	100ug/mL	tert-Butylmethyl ether
F2214JS	1mL	100ug/mL	tert-Butylmethyl ether

ADDITIONAL ANALYTE
EPA METHOD 1657

		Carbophenothion methyl	
MET-88A	5mL	100ug/mL	Methanol

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METHOD 1660 – PYRETHRINS & PYRETHROIDS

Method 1660 is applicable to the determination of pyrethrins and pyrethroids in municipal and industrial wastewater by extraction and high-performance liquid chromatography (HPLC) with an ultra-violet detector (UV). Separation and measurement of the pyrethrins and pyrethroids is performed by reverse-phase Cl8 column HPLC with a multiple-wavelength UV detector.

PYRETHRINS & PYRETHROIDS MIXTURE #1
EPA METHOD 1660

400ug/mL	Cyfluthrin
400ug/mL	d-(cis-trans)-Phenothrin
200ug/mL	Fenvalerate
400ug/mL	Tetramethrin

Mixture in Acetonitrile - (4 components)
PP1660-1M **5mL**
PP1660-1JM **1mL Ampule**

PYRETHRINS & PYRETHROIDS MIXTURE #2
EPA METHOD 1660

- Allethrin
- Resmethrin
- Permethrin

400ug/mL in Acetonitrile - (3 components)
PP1660-2M **5mL**
PP1660-2JM **1mL Ampule**

PYRETHRUM STANDARD
EPA METHOD 1660

PS-97 100mg Pyrethrum

METHOD 1663 – PETROLEUM HYDROCARBONS

Method 1663 is applicable to the determination of petroleum hydrocarbons in municipal and industrial waster water by GC. It may be used as a stand-alone method to determine the presenace of diesel or crude oil.

INTERNAL STANDARDS
EPA METHOD 1663

F2050	1g	1,3,5-Trichlorobenzene	
F2050S	5mL	100ug/mL	Hexane (Ampule)
F2050JS	1mL	100ug/mL	Hexane (Ampule)
F2050AS	5mL	10,000ug/mL	Methylene Chloride (Ampule)
F2050AJS	1mL	10,000ug/mL	Methylene Chloride (Ampule)

METHOD 1664 – n-HEXANE EXTRACTABLE MATERIAL

Method 1664 is applicable to the determination of n-Hexane extractable material (HEM) that is not adsorbed by silica gel (SGT-HEM) in municipal and industrial wastewaters. Extractable materials that may be determined are non-volatile hydrocarbons, vegetable oils, animal fats, waxes, soaps, greases, and related materials, as well as materials other than aliphatic petroleum hydrocarbons. This method was developed to replace previously used gravimetric procedures that employed Freon 113, (a Class I CFC), as the extraction solvent for the determination of oil, grease and petroleum hydrocarbons by extraction and gravimetry.

OIL & GREASE SPIKING MIXTURE
EPA METHOD 1664, *TPH*

- n-Hexadecane
- Stearic acid

4000ug/mL in Acetone - (2 components)
OG1664-1M **5mL Ampule**
OG1664-1JM **1mL Ampule**

EPA SW-846/8000 Series Methods for Monitoring Organic Pollutants in Groundwater, Wastewater, and Solid Waste

The US Environmental Protection Agency has proposed and promulgated the analytical methods SW-846 (8000 Series Methods) to identify and quantify organic compounds from the Appendix VIII and Appendix IX lists of pollutants in groundwater, wastewater and solid waste at hazardous treatment, storage and disposal sites. The authority was derived from the Resource Conversion and Recovery Act (RCRA), which was further extended by the Hazardous and Solid Waste Act (HSWA).

The compounds analyzed by these methods include volatile organic compounds, pesticides, synthetic organic compounds, and disinfection by-products. Method 1311 (Toxicity Characteristic Leaching Procedure) is the protocol used to estimate the toxicity of the waste materials under the leaching conditions in a landfill.

Chem Service provides standards for many of these methods. We continue to evaluate and formulate additional standards as the original SW-846's are updated. If your laboratory needs additional formulations to meet analyte requirements, please contact us, since it may already be in-process. We will respond to your inquiry promptly.

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METHOD 5041 – VOLATILE ORGANIC SAMPLING TRAIN

Method 5041 is a protocol for analysis of sorbent cartridges, from volatile organic sampling train (VOST), utilizing wide-bore capillary column technique. Method 5041 describes the analysis of volatile principal organic hazardous constituents (POHCs) collected from the stack gas effluents of hazardous waste incinerators using the VOST methodology.

VOLATILE ORGANICS MIXTURE #1

EPA METHOD 5041, *8240B*

- Acetone
- Acrylonitrile
- Carbon disulfide
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- Methyl iodide
- Methylene chloride
- Benzene
- Bromodichloromethane
- Bromoform
- 2-Butanone
- Carbon tetrachloride
- Chlorodibromomethane
- Dibromomethane
- 1,4-Dichloro-2-butene cis & trans
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Chlorobenzene
- Ethylbenzene
- Ethyl methacrylate
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichloropropane
- o-Xylene
- m-Xylene
- p-Xylene

200ug/mL in Methanol:Water (90:10) - (37 components)
VOM8240-1M **5mL Ampule**
VOM8240-1JM **1mL Ampule**

EPA METHOD 5041

VOM8240-1M and **PP-9JM** combined include an extra 6 chemicals not specified in EPA method 5041: F704, F984, F708, F710, F50 & F976.

GAS STANDARDS

EPA METHOD 5041, *502/524, 601/602, 624/1624, 8010B, 8021A, 8240B/8260A*

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

5mL Solutions of each, 100ug/mL in Methanol - (6 component kit)
PP-9 **KIT**

200ug/mL in Methanol - (6 components)
PP-9JM **1mL Ampule**

2000ug/mL in Methanol - (6 components)
VOHC-6M **5mL Ampule**
VOHC-6JM **1mL Ampule**

PURGEABLES SURROGATE STANDARDS MIXTURES

EPA METHOD 5041, *8240B, CLP*

- 4-Bromofluorobenzene
- 1,2-Dichloroethane-d_4
- Toluene-d_8

250ug/mL in Methanol - (3 components)
CLP-3JM **1mL Ampule**
CLP-3M **5mL Ampule**

2500ug/mL in Methanol - (3 components)
CLP-3AM **5mL Ampule**
CLP-3AJM **1mL Ampule**

PURGEABLES INTERNAL STANDARDS MIXTURES

EPA METHOD 5041, *8240B,CLP*

- Bromochloromethane
- Chlorobenzene-d_5
- 1,4-Difluorobenzene

1000ug/mL in Methanol - (3 components)
CLP-4M **5mL Ampule**
CLP-4JM **1mL Ampule**

2500ug/mL in Methanol - (3 components)
CLP-4AM **5mL Ampule**
CLP-4AJM **1mL Ampule**

PESTICIDE STANDARDS

Chem Service has the world's most complete selection of pesticides in our Pesticide and Metabolite Catalog. All pesticides either sold individually or used as solution analytes are certified for purity, identity, stability, and traceable by lot number. These pesticide standards exceed all current EPA Analytical Standard Requirements for neat chemicals and solution analytes. Use the card in the back of this catalog to order this and other Chem Service catalogs

SURROGATE STANDARDS
EPA METHOD 5041

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)
F836	100mg	1,2-Dichloroethane-d_4 (Ampule)	
F836S	5mL	2000ug/mL	Methanol (Ampule)
F836JS	1mL	2000ug/mL	Methanol (Ampule)
F843	100mg	Toluene-d_8	
F843S	5mL	2000ug/mL	Methylene chloride (Ampule)
F843JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F843AS	5mL	2000ug/mL	Methanol
F843AJS	1mL	2000ug/mL	Methanol (Ampule)

TUNING STANDARDS
EPA METHOD 5041

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
EPA METHOD 5041

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206JS	1mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206AJS	1mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1mL	20,000ug/mL	Methanol (Ampule)
F1088	100mg	Chlorobenzene-d_5	
F1088S	5mL	100ug/mL	Methanol
F1088JS	1mL	100ug/mL	Methanol (Ampule)
F837	100mg	1,4-Difluorobenzene	
F837S	5mL	2000ug/mL	Methanol (Ampule)
F837JS	1mL	2000ug/mL	Methanol (Ampule)

METHOD 8010B – HALOGENATED VOLATILE ORGANICS

Method 8010B is applicable to the determination of volatile halogenated organics by purge and trap gas chromatography (P&T GC) or by direct injection into the GC. Detection is achieved by electrolytic conductivity detector (HECD).

HALOGENATED VOLATILE ORGANICS
EPA METHOD 8010B

- Allyl chloride
- Benzyl chloride
- Bis(2-chloroethoxy)methane
- Bis(2-chloroisopropyl) ether
- Bromoacetone
- Bromobenzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroacetaldehyde
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane
- 2-Chloroethanol
- 2-Chloroethyl vinyl ether
- Chloroform
- 1-Chlorohexane
- Chloromethyl methyl ether
- 2-Chloro-1,3-butadiene
- 4-Chlorotoluene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- trans-1,4-Dichloro-2-butene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloro-2-propanol
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Epichlorohydrin
- Methyl bromide
- Methyl chloride
- Methylene choride
- Methyl iodide
- 1,1,2,2-Tetrachloroethane
- 1,1,1,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- Vinyl chloride

HVO-1N Neat compounds of each of the above - (50 component kit)
HVO-1S 5mL Solutions of each, in the appropriate solvent - (50 component kit)

NOTE: Chloroethane, Dichlorodifluoromethane, Methyl bromide, Methyl chloride and Vinyl chloride are supplied in solution form only, but are included in the neat kit.

NOTE: 2-Chloro-1,3-butadiene is available in Xylene and is included in both the neat and solution kits, but not in the mixtures.

NOTE: Vinyl chloride, 2-Chloroethyl vinyl ether, and Epichlorohydrin are not included in the mixtures due to instability. It is recommended that they be purchased individually.

NOTE: Bromoacetone is currently not in the mixtures.

HALOGENATED VOLATILE ORGANICS MIXTURE
EPA METHOD 8010B

- Bromoform
- Carbon tetrachloride
- Chloroform
- Dibromomethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane

2000ug/mL in Methanol - (14 components)
CSHC-15 **5mL Ampule**
CSHC-15JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

CHLOROPRENE (2-Chloro-1,3-butadiene) - NO XYLENE DETECTED
EPA METHOD 8010B, *8240A*

- 2-Chloro-1,3-butadiene

F914S	5mL	5000ug/mL	P&T Methanol (Ampule)
F914JS	1mL	5000ug/mL	P&T Methanol (Ampule)

EDB/DBCP
EPA METHOD 8010B, *504, 8011*

- 1,2-Dibromoethane
- 1,2-Dibromo-3-chloropropane

2000ug/mL in Methanol - (2 components)
CSHC-16 **5mL**
CSHC-16JM **1mL Ampule**

PURGEABLES - INTERNAL STANDARDS
EPA METHOD 8010B, *601/602, 624/1624*

- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane
- Bromochloromethane

Mixture at 2000ug/mL in Methanol - (3 components)
PP-10M **5mL Ampule**
PP-10JM **1mL Ampule**

TRIHALOMETHANES
EPA METHOD 8010B, *501, 601/602*

- Chloroform
- Bromoform
- Bromodichloromethane
- Chlorodibromomethane

Neat Compounds of each of the above - (4 component kit)
PP-41N **KIT**

5mL Solutions of each, 100ug/mL in Methanol - (4 component kit)
PP-41S **KIT**

100ug/mL in Methanol - (4 components)
PP-41M **5mL**
PP-41JM **1mL Ampule**

GAS STANDARDS
EPA METHOD 8010B, *502/524, 601/602, 624/1624, 8021A, 8240B/8260A, 5041*

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

PP-9 **KIT**
100ug/mL in Methanol - (6 components)
PP-9JM **1mL Ampule**

2000ug/mL in Methanol - (6 components)
VOHC-6M **5mL Ampule**
VOHC-6JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 8010B

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F205	500mg	2-Bromo-1-chloropropane	
F205S	5mL	100ug/mL	Methanol
F205JS	1mL	100ug/mL	Methanol (Ampule)
F205AS	5mL	2000ug/mL	Methanol
F205AJS	1mL	2000ug/mL	Methanol (Ampule)
F205BS	5mL	20,000ug/mL	Methanol
F205BJS	1mL	20,000ug/mL	Methanol (Ampule)
F204	2g	1,4-Dichlorobutane	
F204S	5mL	100ug/mL	Methanol
F204JS	1mL	100ug/mL	Methanol (Ampule)
F204AS	5mL	2000ug/mL	Methanol
F204AJS	1mL	2000ug/mL	Methanol (Ampule)
F204BS	5mL	20,000ug/mL	Methanol
F204BJS	1mL	20,000ug/mL	Methanol (Ampule)

SURROGATE STANDARDS
EPA METHOD 8010B

F1089	5 g	1-Bromo-4-chlorobenzene	
F1089S	5 mL	100ug/mL	Methanol
F1089JS	1 mL	100ug/mL	Methanol (Ampule)
F206	2 g	Bromochloromethane	
F206S	5 mL	100ug/mL	Methanol (Ampule)
F206JS	1 mL	100ug/mL	Methanol (Ampule)
F206AS	5 mL	2000ug/mL	Methanol (Ampule)
F206AJS	1 mL	2000ug/mL	Methanol (Ampule)
F206BS	5 mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1 mL	20,000ug/mL	Methanol (Ampule)
F833	5 g	4-Bromofluorobenzene	
F833S	5 mL	2000ug/mL	Methanol
F833JS	1 mL	2000ug/mL	Methanol (Ampule)

METHOD 8011 – EDB/DBCP

Method 8011 is applicable to the determination of 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane in drinking water and ground water by GC/ECD.

EDB/DBCP
EPA METHOD 8011, *504, 8010B*

- 1,2-Dibromoethane
- 1,2-Dibromo-3-chloropropane

2000ug/mL in Methanol - (2 components)
CSHC-16 **5mL Ampule**
CSHC-16JM **1mL Ampule**

METHOD 8015 – NONHALOGENATED VOLATILE ORGANICS

CALIBRATION MIXTURE
EPA METHOD 8015C

- Acetone
- Acetonitrile
- Allyl alcohol
- 1-Butanol
- tert-Butyl alcohol
- Diethyl ether
- 1,4-Dioxane
- Ethanol
- Ethyl acetate
- Ethylene glycol
- Isobutyl alcohol
- Isopropyl alcohol
- Methanol
- 2-Butanone
- 4-Methyl-2-pentanone
- 2-Pentanone
- 1-Propanol
- Propionitrile

2000ug/mL in Water - (18 components)
CS-8015C-1 **1mL Ampule**

CALIBRATION MIXTURE
EPA METHOD 8015C

- N-Nitrosodi-n-butylamine
- 2-Picoline
- Pyridine
- o-Toluidine

2000ug/mL in Methanol - (4 components)
CS-8015C-2 **1mL Ampule**

INTERNAL STANDARD MIXTURE
EPA METHOD 8015C

- 2-Chloroacrylonitrile
- Hexafluoro-2-propanol
- Hexafluoro-2-methyl-2-propanol

2000ug/mL in Water - (3 components)
CS-8015C-3 **1mL Ampule**

CALIBRATION MIXTURE
EPA METHOD 8015C

- Acetonitrile
- Acrylamide
- 2-Butanone
- Diethyl ether
- 1,4-Dioxane
- Ethyl alcohol
- Ethyl methacrylate
- Isobutyl alcohol
- Methacrylonitrile
- Methyl methacrylate
- 4-Methyl-2-pentanone
- Propionitrile

100ug/mL in Methanol:water (90:10) - (12 components)
CS-8015C-4 **1mL Ampule**

CALIBRATION MIXTURE
EPA METHOD 8015C

- 2-Butanone
- Diethyl ether
- Ethyl alcohol
- 4-Methyl-2-pentanone

2000ug/mL in Methanol:water (90:10) - (4 components)
CS-8015C-5 **1mL Ampule**

METHOD 8020B – AROMATIC VOLATILE COMPOUNDS

Method 8020 is applicable for the determination of the concentration of aromatic volatile organics by GC with detection by a photo-ionization detector (PID).

BTEX MIXTURES

EPA METHOD 8020B, *502/524, CLP*

- Benzene
- Ethylbenzene
- m-Xylene
- Toluene
- o-Xylene
- p-Xylene

200ug/mL in Methanol - (6 components)
BTEX-1M **5mL Ampule**
BTEX-1JM **1mL Ampule**

2000ug/mL in Methanol - (6 components)
BTEX-2M **5mL Ampule**
BTEX-2JM **1mL Ampule**

AROMATIC VOLATILE ORGANICS MIXTURE

EPA METHOD 8020B

- Benzene
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene

100ug/mL in Methanol - (10 components)
AVO-1M **5mL Ampule**
AVO-1JM **1mL Ampule**

SURROGATE STANDARDS

EPA METHOD 8020B

F1089	5 g	1-Bromo-4-chlorobenzene	
F1089S	5 mL	100ug/mL	Methanol
F1089JS	1 mL	100ug/mL	Methanol (Ampule)
F833	5 g	4-Bromofluorobenzene	
F833S	5 mL	2000ug/mL	Methanol
F833JS	1 mL	2000ug/mL	Methanol (Ampule)
F837	100 mg	1,4-Difluorobenzene	
F837S	5 mL	2000ug/mL	Methanol (Ampule)
F837JS	1 mL	2000ug/mL	Methanol (Ampule)
F839	2 g	Fluorobenzene	
F839S	5 mL	2000ug/mL	Methanol (Ampule)
F839JS	1 mL	2000ug/mL	Methanol (Ampule)

INTERNAL/SURROGATE STANDARDS

EPA METHOD 8020B

F450	1 g	a.a.a-Trifluorotoluene	
F450S	5 mL	100ug/mL	Methanol
F450JS	1 mL	100ug/mL	Methanol (Ampule)
F450AS	5 mL	2000ug/mL	Methanol
F450AJS	1 mL	2000ug/mL	Methanol (Ampule)

METHOD 8021B – HALOGENATED & AROMATIC VOLATILES

Method 8021 is applicable to the determination of halogenated and aromatic volatiles in nearly all types of samples, regardless of water content, including ground water, aqueous sludges, caustic liquors, acid liquors, waste solvents, oily wastes, mousses, tars, fibrous wastes, polymeric emulsions, filter cakes, spent carbons, spent catalysts, soils, and sediments by using GC with electrolytic conductivity and photoionization detectors in series by capillary column technique.

VOLATILE ORGANIC COMPOUNDS

EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Methyl bromide
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Methyl chloride
- 2-Chlorotoluene
- 4-Chlorotoluene
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene
- p-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

VOC-1N	Neat compounds of each of the above - (60 component kit)
VOC-1S	5mL Solutions of each, in the appropriate solvent - (60 component kit)
VOC-1M	Mixture at 100ug/mL in Methanol, 5mL Ampule - (59 components)
VOC-1JM	Mixture at 100ug/mL in Methanol, 1mL Ampule - (59 components)
VOC-2JM	Mixture at 2000ug/mL in Methanol, 1mL Ampule - (59 components)

NOTE: Neat kit contains Chloroethane, Dichlorodifluoromethane, Methyl bromide, Methyl chloride and Vinyl chloride in solution form only.

NOTE: Vinyl chloride is not included in the mixtures due to its instability.

AROMATIC VOLATILE ORGANICS MIXTURE
EPA METHOD 8021B, *502/524, 8260A, 5035A0*

- Benzene
- Bromobenzene
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Chlorobenzene
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- n-Butylbenzene
- 4-Chlorotoluene
- Isopropylbenzene
- Toluene
- o-Xylene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Isopropylbenzene
- p-Isopropyltoluene
- Naphthalene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

100ug/mL in Methanol, 5mL - (25 components)
AVOC-1M 5mL Ampule
AVOC-1JM 1mL Ampule

2000ug/mL in Methanol - (25 components)
AVOC-2M 5mL Ampule
AVOC-2JM 1mL Ampule

LIQUID VOLATILE ORGANIC COMPOUNDS MIXTURE
EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 2-Chlorotoluene
- 4-Chlorotoluene
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene
- p-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (54 components)
LVOC-1M 5mL Ampule
LVOC-1JM 1mL Ampule

VOLATILE ORGANIC COMPOUNDS *(VOC-1M & F88S)*
EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Volatile Organic Compounds-Mixture
- Vinyl chloride Solution

5mL of each, in the appropriate solvent - (2 component kit)
MSVOC-2 KIT

VOLATILE ORGANICS MIXTURES KIT
EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Liquid Volatile Organic Compounds Mixture - 502/52
- Volatile Organics High Concentration Mixture #6

5mL of each of the above in the appropriate solvent - (2 component kit)
MMVOC-2 KIT
LVOC-1M and VOHC-6M

VOLATILE ORGANIC COMPOUNDS KIT HIGH CONCENTRATION *(VOC-2JM & F88AJS)*
EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Volatile Organic Compounds-Mixture
- Vinyl chloride Solution

1mL of each, in the appropriate solvent - (2 component kit)
MSHVOCJ-2 KIT

VOLATILE ORGANIC COMPOUNDS KIT *(VOC-1JM & F88JS)*
EPA METHOD 8021B, *502/524, 8260A, 5035A*

1mL of each, in the appropriate solvent - (2 component kit)
MSVOCJ-2 KIT

VINYL CHLORIDE STANDARDS
EPA METHOD 8021B, *502/524, 624/1624, 8260A, 5035A*

- Vinyl chloride

F88S	5mL	100ug/mL	Methanol
F88JS	1mL	100ug/mL	Methanol
F88AS	5mL	2000ug/mL	Methanol
F88AJS	1mL	2000ug/mL	Methanol

VOLATILE ORGANICS MIXTURES KIT #1J
EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Liquid Volatile Organic Compounds Mixture - 502/52
- Volatile Organics High Concentration Mixture #6

1mL of each, in the appropriate solvent - (2 component kit)
MMVOCJ-2 KIT
LVOC-1JM and VOHC-6JM

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GAS STANDARDS
EPA METHOD 8021B, *502/524, 601/602, 624/1624, 8010B, 8240B/8260A, 5041, 5035A*

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

5mL Solutions of each, 100ug/mL in Methanol - (6 component kit)
PP-9 KIT

200ug/mL in Methanol - (6 components)
PP-9JM 1mL Ampule

2000ug/mL in Methanol - (6 components)
VOHC-6M 5mL Ampule
VOHC-6JM 1mL Ampule

HALOALKANES VOLATILE ORGANIC COMPOUNDS MIXTURE
EPA METHOD 8021B, *502/524, 8260A, 5035A*

- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroethane
- Chloroform
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Hexachloro-1,3-butadiene
- Methyl chloride
- Methylene chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,1-Dichloropropene

100ug/mL in Methanol - (34 components)
HVOC-1JM 1mL Ampule

2000ug/mL in Methanol - (34 components)
HVOC-2JM 1mL Ampule

SURROGATE STANDARDS
EPA METHOD 8021B

F1089	5g	1-Bromo-4-chlorobenzene	
F1089S	5mL	100ug/mL	Methanol
F1089JS	1mL	100ug/mL	Methanol (Ampule)
F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206JS	1mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206AJS	1mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1mL	20,000ug/mL	Methanol (Ampule)
F204	2g	1.4-Dichlorobutane	
F204S	5mL	100ug/mL	Methanol
F204JS	1mL	100ug/mL	Methanol (Ampule)
F204AS	5mL	2000ug/mL	Methanol
F204AJS	1mL	2000ug/mL	Methanol (Ampule)
F204BS	5mL	20,000ug/mL	Methanol
F204BJS	1mL	20,000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
EPA METHOD 8021B

F205	500mg	2-Bromo-1-chloropropane	
F205S	5mL	100ug/mL	Methanol
F205JS	1mL	100ug/mL	Methanol (Ampule)
F205AS	5mL	2000ug/mL	Methanol
F205AJS	1mL	2000ug/mL	Methanol (Ampule)
F205BS	5mL	20,000ug/mL	Methanol
F205BJS	1mL	20,000ug/mL	Methanol (Ampule)
F839	2g	Fluorobenzene	
F839S	5mL	2000ug/mL	Methanol (Ampule)
F839JS	1mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS MIXTURES
EPA METHOD 502/524, 502.2, *8021B*

- 2-Bromo-1-chloropropane
- Fluorobenzene

2000ug/mL in Methanol - (2 components)
IS502-1M 5mL Ampule
IS502-1JM 1mL Ampule

SURROGATE STANDARDS MIXTURES
EPA METHOD 502/524, 502.2, *8021B*

- 4-Bromochlorobenzene
- 1,4-Dichlorobutane

1500ug/mL in Methanol - (2 components)
CS-8021-1 1mL Ampule

METHOD 8030A – ACROLEIN & ACRYLONITRILE

Method 8030A is applicable for the determination of acrolein and acrylonitrile by gas chromatography with a photo-ionization detector (GC/PID).

ACROLEIN & ACRYLONITRILE
EPA METHOD 8030A, *603, 1624*

- Acrolein
- Acrylonitrile

Neat compounds of each of the above - (2 component kit)
PP-3N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-3S KIT

METHOD 8031 – ACRYLONITRILE

Method 8031 is applicable for the determination of acrylonitrile by gas chromatography.

ACRYLONITRILE
EPA METHOD 8031

F3	5g	Acrylonitrile	
F3S	5mL	100ug/mL	Methanol (Ampule)
F3JS	1mL	100ug/mL	Methanol (Ampule)
F3AS	5mL	1000ug/mL	Methanol (Ampule)
F3AJS	1mL	1000ug/mL	Methanol (Ampule)

METHOD 8032A – ACRYLAMIDE

Method 8032A is applicable for the determination and trace amounts of Acrylamide monomer in aqueous matrices by gas chromatography with electron capture detection.

ACRYLAMIDE STANDARDS
EPA METHOD 8032A

F2193	5g	Acrylamide	
F2193S	5mL	1000ug/mL	De-ionized Water
F2193JS	1mL	1000ug/mL	De-ionized Water (Ampule)

BROMINATED ACRYLAMIDE
EPA METHOD 8032A

F2302	1g	2,3-Dibromopropionamide	
F2302S	5mL	100ug/mL	Acetonitrile
F2302JS	1mL	100ug/mL	Acetonitrile

INTERNAL STANDARDS
EPA METHOD 8032A

F71	1g	Dimethyl phthalate	
F71S	5mL	100ug/mL	Methanol
F71JS	1mL	100ug/mL	Methanol (Ampule)
F71AS	5mL	100ug/mL	Ethyl acetate (Ampule)
F71AJS	1mL	100ug/mL	Ethyl acetate (Ampule)

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METHOD 8033 – ACETONITRILE

Method 8033 is applicable for the determination and concentration of Acetonitrile in aqueous matrices by gas chromatography with nitrogen-phosphorus detection.

ACETONITRILE STANDARDS
EPA METHOD 8033

F974	5g	Acetonitrile	
F974S	5mL	100ug/mL	Methanol (Ampule)
F974JS	1mL	100ug/mL	Methanol (Ampule)
F974AS	5mL	1000ug/mL	De-Ionized Water (Ampule)
F974AJS	1mL	1000ug/mL	De-Ionized Water (Ampule)

METHOD 8040A – PHENOLS

Method 8040A is applicable for determination of phenols by gas chromatography (GC), and detection by FID.

PHENOLS
EPA METHOD 8040A

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- m-Cresol
- 2-Cyclohexyl-4,6-dinitrophenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol
- Dinoseb
- 2-Methylphenol
- 4-Methylphenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,3,4,6-Tetrachlorophenol
- 2,3,5,6-Tetrachlorophenol
- 2,3,4-Trichlorophenol Solution
- 2,3,5-Trichlorophenol
- 2,3,6-Trichlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

PH-1N Neat compounds of each of the above - (23 component kit)
PH-1S 5mL Solutions of each, in the appropriate solvent - (23 component kit)
PH-1M Mixture at 1000ug/mL in Isopropanol, 5mL - (20 components)
PH-1JM Mixture at 1000ug/mL in Isopropanol, 1mL Ampule - (20 components)

NOTE: 2,3,4-Trichlorophenol, 2,3,5-Trichlorophenol and 2,3,6-Trichlorophenol are not included in PH-1M.

NOTE: 2,3,4-Trichlorophenol is only available as a 1000ug/mL in Isopropanol Solution.

PHENOLS - HIGH CONCENTRATION MIXTURE #1
EPA METHOD 8040A

- p-Chloro-m-methylphenol
- m-Cresol
- 2,4-Dichlorophenol
- 4,6-Dinitro-o-cresol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

2000ug/mL in Isopropanol - (9 components)
CSHC-1 **5mL Ampule**
CSHC-1JM **1mL Ampule**

PHENOLS - HIGH CONCENTRATION MIXTURE #2
EPA METHOD 8040A

- 2-Chlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- Dinoseb
- 2-Methylphenol
- 4-Methylphenol
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol

2000ug/mL in Isopropanol - (9 components)
CSHC-2 **5mL Ampule**
CSHC-2JM **1mL Ampule**

SURROGATE STANDARDS MIXTURE
EPA METHOD 8040A

F430 2-Fluorophenol
F844 2,4,6-Tribromophenol

2000ug/mL in Methanol - (2 components)
SM-8040M **5mL Ampule**
SM-8040JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 8040A

F430	1g	2-Fluorophenol	
F430AS	5mL	2000ug/mL	Methanol (Ampule)
F430AJS	1mL	2000ug/mL	Methanol (Ampule)
F844	5g	2,4,6-Tribromophenol	
F844S	5mL	2000ug/mL	Methylene chloride (Ampule)
F844JS	1mL	2000ug/mL	Methylene chloride (Ampule)

DERIVATIZING AGENTS
EPA METHOD 8040A, *604,604.1*

F2303	1g	Pentafluorobenzylbromide
F2304	5g	Hexaoxacyclooctadecane

METHOD 8041A – PHENOLS

Method 8041A is applicable to measure phenols.

INTERNAL STANDARD MIXTURE
EPA METHOD 8041A

- 2,5-Dibromotoluene
- 2,2',5,5'-Tetrabromobiphenyl

1000ug/mL in Isopropanol - (2 components)
CS-8041A-4 **1mL Ampule**

SURROGATE STANDARD MIXTURE
EPA METHOD 8041A

- 2-Fluorophenol
- 2,4,6-Tribromophenol

2000ug/mL in Isopropanol - (2 components)
CS-8041A-5 **1mL Ampule**

PHENOLS MIXTURE
EPA METHOD 8041A

- 4-Chloro-3-methylphenol
- o-Cresol
- 2,4-Dichlorophenol
- 4,6-Dinitro-2-methylphenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

2000ug/mL in Isopropanol - (9 components)
CS-8041A-1 1mL Ampule

PHENOLS MIXTURE
EPA METHOD 8041A

- 2-Cyclohexyl-4,6-dinitrophenol
- 2,3,4,5-Tetrachlorophenol
- 2,3,5,6-Tetrachlorophenol

2000ug/mL in Isopropanol - (3 components)
CS-8041A-3 1mL Ampule

PHENOLS MIXTURE
EPA METHOD 8041A

- 2-Chlorophenol
- m-Cresol
- p-Cresol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- Dinoseb
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol

2000ug/mL in Isopropanol - (9 components)
CS-8041A-2 1mL Ampule

INTERNAL STANDARDS
EPA METHOD 8041A

- 2,4-Dibromophenol

CS-8041A-6 1mL 1000ug/mL Isopropanol

METHOD 8060 – PHTHALATE ESTERS

Method 8060 is applicable for the determination of phthalate esters.

PHTHALATE ESTERS
EPA METHOD 8060, *606, 625/1625*

- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Di-n-butyl phthalate
- Di-n-octyl phthalate
- Diethyl phthalate
- Dimethyl phthalate

Neat compounds of each of the above - (6 component kit)
PPP-6N KIT

5mL Solutions of each, in the appropriate solvent - (6 component kit)
PPP-6S KIT

100ug/mL in Hexane - (6 components)
PPP-6M 5mL Ampule
PPP-6JM 1mL Ampule

2000ug/mL in Hexane - (6 components)
CSHC-3 5mL Ampule
CSHC-3JM 1mL Ampule

PHTHALATE ESTERS - CONTROL SAMPLE MIXTURE
EPA METHOD 8060, *606*

100ug/mL	Butyl benzyl phthalate
500ug/mL	Bis(2-ethylhexyl)phthalate
500ug/mL	Di-n-octyl phthalate
250ug/mL	Dimethyl phthalate
250ug/mL	Di-n-butyl phthalate
250ug/mL	Diethyl phthalate

Mixture in Acetone - (6 components)
CSM-8060M 5mL Ampule
CSM-8060JM 1mL Ampule

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METHOD 8061 – PHTHALATE ESTERS

Method 8061 is applicable for the determination of the identities and concentrations of various phthalate esters in liquid, solid, and sludge matrices, by capillary gas chromatography with electron capture detection (GC/ECD). If interferences prevent detection of the analyte, cleanup of the sample extracts are necessary. Either Method 3610 (alumina column cleanup) or 3620 (Florisil column cleanup), alone or followed by Method 3660, Sulfur cleanup, may be used to eliminate interferences in the analysis. Method 3640 (gel permeation cleanup), is applicable for samples that contain high amounts of lipids and waxes.

PHTHALATE ESTERS
EPA METHOD 8061

- Bis(2-n-butoxyethyl)phthalate
- Bis(2-ethoxyethyl)phthalate
- Bis(2-ethylhexyl)phthalate
- Bis(2-methoxyethyl)phthalate
- Bis(4-methyl-2-pentyl)phthalate
- Butyl benzyl phthalate
- Diamyl phthalate
- Di-n-butyl phthalate
- Dicyclohexyl phthalate
- Diethyl phthalate
- Di-n-hexyl phthalate
- Diisobutyl phthalate
- Dimethyl phthalate
- Dinonyl phthalate
- Di-n-octyl phthalate
- Hexyl 2-ethylhexyl phthalate

PT8061-1N Neat compounds of each of the above - (16 component kit)
PT8061-1S 5mL Solutions of each, in the appropriate solvent - (16 component kit)
PT8061-1M Mixture at 1000ug/mL in Isooctane, 5mL Ampule - (16 components)
PT8061-1JM Mixture at 1000ug/mL in Isooctane, 1mL Ampule - (16 components)

SURROGATE STANDARDS
EPA METHOD 8061

F1092	1g	Dibenzyl phthalate		**F1091**	5g	Diphenyl phthalate	
F1092S	5mL	100ug/mL	Hexane (Ampule)	**F1091S**	5mL	100ug/mL	Hexane (Ampule)
F1092JS	1mL	100ug/mL	Hexane (Ampule)	**F1091JS**	1mL	100ug/mL	Hexane (Ampule)
F1090	5g	Diphenyl isophthalate					
F1090S	5mL	100ug/mL	Hexane (Ampule)				
F1090JS	1mL	100ug/mL	Hexane (Ampule)				

INTERNAL STANDARDS
EPA METHOD 8061

F1093	5g	Benzyl benzoate		**F1093AS**	5mL	5000ug/mL	Hexane (Ampule)
F1093S	5mL	2000ug/mL	Hexane (Ampule)	**F1093AJS**	1mL	5000ug/mL	Hexane (Ampule)
F1093JS	1mL	2000ug/mL	Hexane (Ampule)				

METHOD 8061A – PHTHALATE ESTERS

Method 8061A is applicable for determination of phthalates.

PHTHALATES MIXTURE
EPA METHOD 8061A

- Bis(2-ethylhexyl) phthalate
- Butyl Benzyl Phthalate
- di-n-Butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- di-n-Octyl phthalate

100ug/mL in Methanol - (6 components)
CS-8061A-1 1mL Ampule

PHTHALATE ESTERS QC REFERENCE MIXTURE
EPA METHOD 8061A

50ug/mL	Bis(2-ethylhexyl) phthalate
10ug/mL	Butyl benzyl phthalate
25ug/mL	Dimethyl phthalate
25ug/mL	Di-n-butyl phthalate
25ug/mL	Diethyl phthalate
50ug/mL	Di-n-octyl phthalate

Varied in Acetone - (6 components)
CS-8061A-3 1mL Ampule

INTERNAL STANDARDS
EPA METHOD 8061A

- Benzyl benzoate

CS-8061A-5 1mL 5000ug/mL in Hexane

PHTHALATES MIXTURE
EPA METHOD 8061A

- Bis(2-n-butoxyethyl) phthalate
- Bis(2-ethoxyethyl) phthalate
- Bis(2-ethylhexyl) phthalate
- Bis(2-methoxyethyl) phthalate
- Bis(4-methyl-2-pentyl)phthalate
- Butyl benzyl phthalate
- Dicyclohexyl phthalate
- 2-Ethylhexyl hexyl phthalate
- Diamyl phthalate
- Diethyl phthalate
- Dihexyl phthalate
- Diisobutyl phthalate
- Dimethyl phthalate
- Dinonyl phthalate
- Di-n-octyl phthalate
- Di-n-butyl phthalate

1000ug/mL in Isooctane - (16 components)
CS-8061A-2 1mL Ampule

SURROGATE STANDARDS MIXTURE
EPA METHOD 8061A

- Dibenzyl phthalate
- Diphenyl phthalate
- Diphenyl isophthalate

500ug/mL in Acetone - (3 components)
CS-8061A-4 1mL Ampule

ON-GOING STABILITY STUDIES

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METHOD 8070 - NITROSOAMINES

Method 8070 is applicable for determination of nitrosamines by gas chromatography. This method describes analytical conditions for a second gas chromatographic column that can be used to confirm measurements made with the primary column. Note that Method 8270 provides gas chromatograph/mass spectrometer (GC/MS) conditions appropriate for the qualitative and quantitative confirmation of results for N-Nitrosodi-n-propylamine.

NITROSOAMINES
EPA METHOD 8070, *607*

- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-n-propylamine

Neat compounds of each of the above - (3 component kit)
PPN-7N KIT

5mL Solutions of each, in the appropriate solvent - (3 component kit)
PPN-7S KIT

1000ug/mL in Methanol - (3 components)
NA607-1M 5mL Ampule
NA607-1JM 1mL Ampule

DIPHENYLAMINE STANDARDS
EPA METHOD 8070, *607*

F992	5g	Diphenylamine	
F992S	5mL	100ug/mL	Methanol
F992JS	1mL	100ug/mL	Methanol (Ampule)

METHOD 8080A/8081/8081A - ORGANOCHLORINE PESTICIDES

Method 8080 is applicable for the determination of organochlorine pesticides and PCBs utilizing a GC with detection by an electron capture detector (ECD) or a halogen-specific detector (HSD). The sensitivity of Method 8080 usually depends on the level of interferences rather than on instrumental limitations.

Method 8080A is applicable for the determination of organochlorine pesticides and polychlorinated biphenyls by gas chromatography.

Method 8081 is applicable for determination of organochlorine pesticides and PCBs as arochlors by gas chromatography utilizing capillary column technique.

ORGANOCHLORINE PESTICIDES
EPA METHOD 8080A/8081/8081A, *508, 608, 625, 8250A/8270B, CLP*

- Aldrin
- Dieldrin
- Chlordane
- 4,4'-DDT
- 4,4'-DDE
- 4,4'-DDD
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (Isomer B)
- BHC (alpha isomer)
- BHC (beta isomer)
- Lindane (BHC gamma isomer)
- BHC (delta isomer)
- Arochlor 1242
- Arochlor 1254
- Arochlor 1221
- Arochlor 1232
- Arochlor 1248
- Arochlor 1260
- Arochlor 1016
- Toxaphene (TM)
- Methoxychlor

PPO-8N Neat compounds of each of the above - (26 component kit)
PPO-8S 5mL Solutions of each, in the appropriate solvent - (26 component kit)

PPO-8M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PPO-8JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

PP-HC5 Mixture at 2000ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PP-HC5JM Mixture at 2000ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

OCP-8080M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (17 components)
OCP-8080JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (17 components)

NOTE: Inhibited with Hydroquinone

OCP508-1M Mixture at 1000ug/mL in tert-Butylmethyl ether, 5mL Ampule - (20 components)
OCP508-1JM Mixture at 1000ug/mL in tert-Butylmethyl ether, 1mL Ampule - (20 components)

NOTE: PPO-8M, PPO-8JM, PP-HC5, PP-HC5JM, OCP-8080M, OCP-8080JM, OCP508-1M and OCP508-1JM do not contain the Arochlors, Chlordaneor Toxaphene.

NOTE: PPO-8M, PPO-8JM, PP-HC5 and PP-HC5JM do not contain Methoxychlor.

NOTE: OCP508-1M, OCP508-1JM contain Endrin Ketone, cis-Chlordane and trans-Chlordane.

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
EPA METHOD 8080A/8081/8081A, *505, 508, 525.2, 608, 617, 625, 1656, 8250A/8270B, CLP*

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene (TM) Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

POLYCHLORINATED BIPHENYLS
EPA METHOD 8080A/8081/8081A, *505, 608, 617, 625, 8250A/8270B, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- Arochlor 1232

Neat compounds of each of the above - (7 component kit)
PP-8N KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S KIT

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS KIT

PESTICIDES - CONTROL SAMPLE MIXTURE
EPA METHOD 8080A/8081/8081A, *608*

100ug/mL	4,4'-DDD
100ug/mL	4,4'-DDT
100ug/mL	b-Endosulfan
100ug/mL	Endosulfan sulfate
100ug/mL	Endrin
20ug/mL	Heptachlor
20ug/mL	BHC (alpha isomer)
20ug/mL	BHC (beta isomer)
20ug/mL	a-Endosulfan
20ug/mL	Heptachlor epoxide (Isomer B)
20ug/mL	Aldrin
20ug/mL	Dieldrin
20ug/mL	4,4'-DDE

Mixture in Toluene - (13 components)
CSM-8080M 5mL Ampule
CSM-8080JM 1mL Ampule

SURROGATE STANDARDS MIXTURE #1
EPA METHOD 8080A/8081/8081A, *CLP*

- Decachlorobiphenyl
- 2,4,5,6-Tetrachloro-m-xylene

2000ug/mL in Toluene - (2 components)
SM-8080M 5mL Ampule
SM-8080JM 1mL Ampule

TOXAPHENE® & CHLORDANE KIT
EPA METHOD 8080A/8081/8081A, *608, 617, 625, 8250A/8270B, CLP*

- Chlordane
- Toxaphene (TM)

Neat compounds of each of the above - (2 component kit)
PP-7N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S KIT

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 8080A/8081/8081A, *508/508.1, 525.2, 608, 617, 625, 1618, 1656, 8250A/8270B, CLP*

100ug/mL	Endrin aldehyde
100ug/mL	Endrin ketone
200ug/mL	4,4'-DDE
200ug/mL	4,4'-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M 5mL Ampule
DP508-1JM 1mL Ampule

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 8080A/8081/8081A, *508/508.1, 525.2, 608, 617, 625, 1618, 1656, 8250A/8270B, CLP*

100ug/mL	Endrin
200ug/mL	4,4'-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M 5mL Ampule
DC-508JM 1mL Ampule

SURROGATE STANDARDS
EPA METHOD 8080A/8081/8081A

F2320	5g	4-Chloro-3-nitrobenzotrifluoride	
F2320S	5mL	1000ug/mL	Isooctane (Ampule)
F2320JS	1mL	1000ug/mL	Isooctane (Ampule)
F2170	10mg	Decachlorobiphenyl	
F2170S	5mL	1000ug/mL	Hexane (Ampule)
F2170JS	1mL	1000ug/mL	Hexane (Ampule)
F2170AS	5mL	100ug/mL	Hexane (Ampule)
F2170AJS	1mL	100ug/mL	Hexane (Ampule)
F2170BS	5mL	500ug/mL	Acetone (Ampule)
F2170BJS	1mL	500ug/mL	Acetone (Ampule)
F850	1g	Dibutyl chlorendate	
F850S	5mL	1000ug/mL	Methylene chloride (Ampule)
F850JS	1mL	1000ug/mL	Methylene chloride (Ampule)
F850AS	5mL	2000ug/mL	Acetone (Ampule)
F850AJS	1mL	2000ug/mL	Acetone (Ampule)
F903	1g	2,4,5,6-Tetrachloro-m-xylene	
F903S	5mL	200ug/mL	Methanol
F903JS	1mL	200ug/mL	Methanol (Ampule)

SURROGATE STANDARDS MIXTURE #2
EPA METHOD 8080A/8081/8081A, *CLP*

- Dibutyl chlorendate
- 2,4,5,6-Tetrachloro-m-xylene

2000ug/mL in Acetone - (2 components)
SM-8080AM 5mL Ampule
SM-8080AJM 1mL Ampule

INTERNAL STANDARDS
EPA METHOD 8080A/8081/8081A

F2319	1g	1-Bromo-2-nitrobenzene	
F2319S	5mL	1000ug/mL	Isooctane (Ampule)
F2319JS	1mL	1000ug/mL	Isooctane (Ampule)
F2319AS	5mL	5000ug/mL	Isooctane (Ampule)
F2319AJS	1mL	5000ug/mL	Isooctane (Ampule)
F999	1g	Pentachloronitrobenzene	
F999S	5mL	100ug/mL	Methanol
F999JS	1mL	100ug/mL	Methanol (Ampule)
F999AS	5mL	1000ug/mL	Isooctane (Ampule)
F999AJS	1mL	1000ug/mL	Isooctane (Ampule)
F999BS	5mL	2000ug/mL	Ethyl acetate (Ampule)
F999BJS	1mL	2000ug/mL	Ethyl acetate (Ampule)
F999CS	5mL	5000ug/mL	Isooctane (Ampule)
F999CJS	1mL	5000ug/mL	Isooctane (Ampule)

METHOD 8082/8082A – POLYCHLORINATEDBIPHENYLS

Method 8082 is applicable for the determination of polychlorinated biphenyls (PCBs) by capillary column gas chromatography

AROCHLOR CALIBRATION STANDARDS MIXTURE
EPA METHOD 8082/8082A

- Arochlor 1016
- Arochlor 1260

1000ug/mL in Hexane - (2 components)
CSM-8082M **5mL Ampule**
CSM-8082JM **1mL Ampule**

INTERNAL & SURROGATE STANDARDS
EPA METHOD 8082/8082A

F2170	10mg	Decachlorobiphenyl	
F2170S	5mL	1000ug/mL	Hexane (Ampule)
F2170JS	1mL	1000ug/mL	Hexane (Ampule)
F2170AS	5mL	100ug/mL	Hexane (Ampule)
F2170AJS	1mL	100ug/mL	Hexane (Ampule)
F2170BS	5mL	500ug/mL	Acetone (Ampule)
F2170BJS	1mL	500ug/mL	Acetone (Ampule)
F2170CS	5mL	1000ug/mL	Toluene (Ampule)
F2170CJS	1mL	1000ug/mL	Toluene (Ampule)
F903	1g	2,4,5,6-Tetrachloro-m-xylene	
F903S	5mL	200ug/mL	Methanol (Ampule)
F903JS	1mL	200ug/mL	Methanol (Ampule)
F903AS	5mL	500ug/mL	Acetone (Ampule)
F903AJS	1mL	500ug/mL	Acetone (Ampule)

POLYCHLOINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
EPA METHOD 8082/8082A

F107	50mg	Arochlor 1016	
F107AS	5mL	1000ug/mL	Hexane
F108	1g	Arochlor 1221	
F108AS	5mL	1000ug/mL	Hexane
F113	10mg	Arochlor 1232	
F113AS	5mL	1000ug/mL	Hexane
F109	100mg	Arochlor 1242	
F109AS	5mL	1000ug/mL	Hexane
F110	5g	Arochlor 1248	
F110AS	5mL	1000ug/mL	Hexane
F111	50mg	Arochlor 1254	
F111AS	5mL	1000ug/mL	Hexane
F112	50mg	Arochlor 1260	
F112BS	5mL	1000ug/mL	Hexane
2800G	50mg	2-Chlorobiphenyl	
2800GS	2mL	100ug/mL	Hexane
3621G	25mg	2,3-Dichlorobiphenyl	
3621GS	2mL	100ug/mL	Isooctane
8230G	25mg	2,2′,5-Trichlorobiphenyl	
8230GS	2mL	100ug/mL	Hexane
8237G	25mg	2,4′,5-Trichlorobiphenyl	
8237GS	2mL	100ug/mL	Hexane
7821G	25mg	2,2′,3,5′-Tetrachlorobiphenyl	
7821GS	2mL	100ug/mL	Hexane
7825G	10mg	2,2′,5,5′-Tetrachlorobiphenyl	
7825GS	2mL	100ug/mL	Hexane
7828G	20mg	2,3′,4,4′-Tetrachlorobiphenyl	
7828GS	2mL	100ug/mL	Hexane
6785G	10mg	2,2′,3,4,5′-Pentachlorobiphenyl	
6785GS	2mL	100ug/mL	Hexane
6789G	10mg	2,2′,4,5,5′-Pentachlorobiphenyl	
6789GS	2mL	100ug/mL	Hexane

(cont'd on pg. 217)

(cont'd from pg. 216)

POLYCHLOINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
EPA METHOD 8082/8082A

9030G	5mg	2,3,3',4',6-Pentachlorobiphenyl	
9030GS	2mL	100ug/mL	Hexane
5014G	5mg	2,2',3,4,4',5'-Hexachlorobiphenyl	
5014GS	2mL	100ug/mL	Hexane
5015G	5mg	2,2',3,4,5,5'-Hexachlorobiphenyl	
5015GS	2mL	100ug/mL	Hexane
5017G	5mg	2,2',3,5,5',6-Hexachlorobiphenyl	
5017GS	2mL	100ug/mL	Hexane
5019G	10mg	2,2',4,4',5,5'-Hexachlorobiphenyl	
5019GS	2mL	100ug/mL	Hexane
9043G	5mg	2,2',3,3',4,4',5-Heptachlorobiphenyl	
9043GS	2mL	100ug/mL	Hexane
9044G	5mg	2,2',3,4,4',5,5'-Heptachlorobiphenyl	
9044GS	2mL	100ug/mL	Hexane
5001G	5mg	2,2',3,4,4',5',6-Heptachlorobiphenyl	
5001GS	2mL	100ug/mL	Hexane
9046G	5mg	2,2',3,4',5,5',6-Heptachlorobiphenyl	
9046GS	2mL	100ug/mL	Hexane
6700G	5mg	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	
6700GS	2mL	100ug/mL	Hexane

METHOD 8090 – NITROAROMATIC & CYCLIC KETONES

Method 8090 is applicable for the determination of nitroaromatics and cyclic ketones.

NITROAROMATICS & CYCLIC KETONES
EPA METHOD 8090

- o-Dinitrobenzene
- m-Dinitrobenzene
- p-Dinitrobenzene
- 1,4-Naphthoquinone

Neat compounds of each of the above - (4 component kit)
NCK8090-1N KIT

5mL Solutions of each, in the appropriate solvent - (4 component kit)
NCK8090-1S KIT

BASE NEUTRALS SURROGATE STANDARDS MIXTURES
EPA METHOD 8090, *8110, 8120A, 8250A/8270B, CLP*

- 2-Fluorobiphenyl
- Nitrobenzene-d_5
- p-Terphenyl-d

1000ug/mL in Methylene chloride - (3 components)
CLP-2M 5mL Ampule
CLP-2JM 1mL Ampule

5000ug/mL in Methylene chloride - (3 components)
CLPH-2M 5mL Ampule
CLPH-2JM 1mL Ampule

SURROGATE STANDARDS
EPA METHOD 8090

F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F320	1g	Nitrobenzene-d_5	
F320S	5mL	2000ug/mL	Methanol
F320JS	1mL	2000ug/mL	Methanol (Ampule)
F842	50mg	p-Terphenyl-d	
F842S	5mL	2000ug/mL	Methylene chloride (Ampule)
F842JS	1mL	2000ug/mL	Methylene chloride (Ampule)

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METHOD 8091 – NITROAROMATIC & CYCLIC KETONES

Method 8091 is applicable for the determination of nitroaromatics and cyclic ketones utilizing a capillary column technique.

INTERNAL STANDARDS
EPA METHOD 8091

F9	1g	Hexachlorobenzene	
F9S	5mL	100ug/mL	Methanol (Ampule)
F9JS	1mL	100ug/mL	Methanol (Ampule)
F9AS	5mL	1000ug/mL	Isooctane (Ampule)
F9AJS	1mL	1000ug/mL	Isooctane (Ampule)

SURROGATE STANDARDS
EPA METHOD 8091

F2495	500mg	1-Chloro-3-nitrobenzene	
F2495S	5mL	1000ug/mL	Isooctane (Ampule)
F2495JS	1mL	1000ug/mL	Isooctane (Ampule)

RCRA ANALYTE MIXTURE
EPA METHOD 8091

- 1,4-Dintrobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- 1,4-Napthquinone
- Nitrobenzene
- Pentachloronitrobenzene

100ug/mL in Isooctane
CS-8091A-1 1mL Ampule

METHOD 8100 – PAH

Method 8100 is applicable for determination of polynuclear aromatic hydrocarbons (PAHs). This method provides gas chromatographic conditions for the detection of PPB levels of certain polynuclear aromatic hydrocarbons. Prior to the use of this method, appropriate sample extraction techniques must be used. Both the neat and diluted organic liquids (Method 3580, waste dilution) may be analyzed by direct injection. (A 3 to 5 ul aliquot of the extract is injected into a gas chromatograph (GC) using a solvent flush technique and compounds in the GC effluent are detected by a flame ionization detector (FID). If interferences prevent proper detection of the analytes of interest, this method may also be performed on extracts that have undergone cleanup using silica gel column cleanup (Method 3630).

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)
EPA METHOD 8100, *550.1, 610, 8270B, 8310, CLP*

- Acenaphthene
- Fluoranthene
- Naphthalene
- 1,2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Acenaphthylene
- Anthracene
- 1,12-Benzoperylene
- Fluorene
- Phenanthrene
- 1,2:5,6-Dibenzanthracene
- Indeno(1,2,3-C,D)pyrene
- Pyrene

PPH-10N Neat compounds of each of the above - (16 component kit)
PPH-10S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

PPH-10M Mixture at 100ug/mL in Methanol, 5mL - (16 components)
PPH-10JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (16 components)

PNA-550M Mixture at 200ug/mL in Acetonitrile, 5mL Ampule - (16 components)
PNA-550JM Mixture at 200ug/mL in Acetonitrile, 1mL Ampule - (16 components)

PP-HC6 Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 5mL Ampule - (16 components)
PP-HC6JM Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 1mL Ampule - (16 components)

PAH - CONTROL SAMPLE MIXTURE
EPA METHOD 8100, *550.1, 610, 8310*

100ug/mL	Acenaphthene
100ug/mL	Acenaphthylene
100ug/mL	Anthracene
10ug/mL	1,2-Benzanthracene
10ug/mL	Benzo(a)pyrene
10ug/mL	Benzo(b)fluoranthene
10ug/mL	1,12-Benzoperylene
5ug/mL	Benzo(k)fluoranthene
10ug/mL	Chrysene
10ug/mL	1,2:5,6-Dibenzanthracene
10ug/mL	Fluoranthene
100ug/mL	Fluorene
10ug/mL	Indeno(1,2,3-C,D)pyrene
100ug/mL	Naphthalene
100ug/mL	Phenanthrene
10ug/mL	Pyrene

Mixture in Acetonitrile - (16 components)
CSM-8310M 5mL Ampule
CSM-8310JM 1mL Ampule

INTERNAL STANDARDS
EPA METHOD 8100

F924	10mg	3-Methyl cholanthrene	
F924S	5mL	100ug/mL	Toluene (Ampule)
F924JS	1mL	100ug/mL	Toluene (Ampule)

SURROGATE STANDARDS
EPA METHOD 8100

F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F420	1g	1-Fluoronaphthalene	
F420S	5mL	100ug/mL	Methanol
F420JS	1mL	100ug/mL	Methanol (Ampule)

ADDITIONAL METHOD ANALYTES
EPA METHOD 8100

F2490	10mg	Dibenz(a,h)acridine	
F2490S	5mL	100ug/mL	Methanol
F2490JS	1mL	100ug/mL	Methanol (Ampule)
F2247	10mg	Dibenz(a,j)acridine	
F2247S	5mL	100ug/mL	Toluene (Ampule)
F2247JS	1mL	100ug/mL	Toluene (Ampule)
F1010	10mg	1,2:5,6-Dibenzpyrene	
F1010S	5mL	100ug/mL	Toluene (Ampule)
F1010JS	1mL	100ug/mL	Toluene (Ampule)
O-2372	10mg	1,2:6,7-Dibenzpyrene 1,2:7,8-Dibenzpyrene	
F1011S	5mL	100ug/mL	Toluene (Ampule)
F1011JS	1mL	100ug/mL	Toluene (Ampule)
F952	50mg	Benzo(j)fluoranthene	
F952S	5mL	100ug/mL	Methanol
F952JS	1mL	100ug/mL	Methanol (Ampule)
F924	10mg	3-Methylcholanthene	
F924S	5mL	100ug/mL	Toluene (Ampule)
F924JS	1mL	100ug/mL	Toluene (Ampule)

POLYNUCLEAR AROMATIC HYDROCARBONS B MIXTURE
EPA METHOD 8100B

- Benzo(j)fluoranthene
- Dibenz(a,h)acridine
- Dibenz(a,j)acridine
- 7H-Dibenzo(c,g)carbazole
- Dibenzo(a,e)pyrene
- Dibenzo(a,h)pyrene
- Dibenzo(a,i)pyrene
- 3-Methylcholanthrene

1000ug/mL in Methylene chloride:Benzene - (8 components)
CS-8100-1 1mL Ampule

METHOD 8110

Method 8110 is applicable for the determination of haloethers by gas chromatography.

ALDRIN STANDARDS
EPA METHOD 8110

F89	250mg	Aldrin	
F89S	5mL	100ug/mL	Methanol
F89JS	1mL	100ug/mL	Methanol

METHOD 8111 – HALOETHERS

Method 8111 is a gas chromatographic (GC) method used to analyze haloethers by using a wide-bore open-tubular, capillary column gas chromatography procedures using a dual-column/dual-detector approach. Also, a single column/single detector approach is acceptable.

HALOETHER RCRA MIXTURE
EPA METHOD 8111

- Bis(2-Chloroethoxy)methane
- Bis(2-Chloroethyl)ether
- Bis(2-Chloroisopropyl)ether
- 4-Chlorophenyl phenyl ether
- 4-Bromophenyl phenyl ether

100ug/mL in Acetone - (5 components)
CS-8111-1 1mL Ampule

HALOETHER RCRA SURROGATE STANDARDS
EPA METHOD 8111

- 2,4-Dichlorodiphenyl ether
- 2,3,4-Trichlorodiphenyl ether

1000ug/mL in Methanol - (2 components)
CS-8111-2 1mL Ampule

HALOETHER RCRA INTERNAL STANDARDS
EPA METHOD 8111

F2172	500mg	4.4'-Dibromobiphenyl	
F2172AS	5mL	100µg/mL	Hexane (Ampule)
F2172AJS	1mL	100µg/mL	Hexane (Ampule)
F2172BS	5mL	2000µg/mL	Ethyl acetate (Ampule)
F2172BJS	1mL	2000µg/mL	Ethyl acetate (Ampule)
F2172S	5mL	1000µg/mL	Methylene chloride (Ampule)
F2172JS	1mL	1000µg/mL	Methylene chloride (Ampule)

METHOD 8120A – CHLORINATED HYDROCARBONS

Method 8120 is applicable for the determination of chlorinated hydrocarbons. This method provides gas chromatographic conditions for the detection of PPB levels of certain chlorinated hydrocarbons. Prior to use of this method, appropriate sample extraction techniques must be used. If interferences are encountered in the analysis, Method 8120 may also be performed on extracts that have undergone cleanup using Method 3620 (silica gel column cleanup).

Method 8120A is applicable for the determination of chlorinated hydrocarbons by gas chromatography.

CHLORINATED HYDROCARBONS
EPA METHOD 8120A, *612*

- 1,2,4-Trichlorobenzene
- Hexachlorobenzene
- Hexachloroethane
- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene

Neat compounds of each of the above - (9 component kit)
PPCH-12N KIT

5mL Solutions of each, in the appropriate solvent - (9 component kit)
PPCH-12S KIT

BASE NEUTRALS SURROGATE STANDARDS MIXTURES
EPA METHOD 8120A, *8090, 8250A/8270B, CLP*

- 2-Fluorobiphenyl
- Nitrobenzene-d_5
- p-Terphenyl-d_{14}

1000ug/mL in Methylene chloride - (3 components)
CLP-2M 5mL Ampule
CLP-2JM 1mL Ampule

5000ug/mL in Methylene chloride - (3 components)
CLPH-2M 5mL Ampule
CLPH-2JM 1mL Ampule

SURROGATE STANDARDS
EPA METHOD 8120A

F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F320	1g	Nitrobenzene-d_5	
F320S	5mL	2000ug/mL	Methanol
F842	50mg	p-Terphenyl-d_{14}	
F842S	5mL	2000ug/mL	Methylene chloride (Ampule)
F842JS	1mL	2000ug/mL	Methylene chloride (Ampule)

METHOD 8121 – CHLORINATED HYDROCARBONS

Method 8121 is applicable for the determination of chlorinated hydrocarbons by gas chromatography utilizing capillary column technique.

CHLORINATED HYDROCARBONS
EPA METHOD 8121

- Benzyl chloride
- a-BHC
- b-BHC
- d-BHC
- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- a,a-Dichlorotoluene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Lindane
- Pentachlorobenzene
- 1,2,3,4-Tetrachlorobenzene
- 1,2,3,5-Tetrachlorobenzene
- 1,2,4,5-Tetrachlorobenzene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,3,5-Trichlorobenzene
- a,a,a-Trichlorotoluene

CH-8121N	Neat compounds of each of the above - (22 component kit)
CH-8121S	5mL Solutions of each, in the appropriate solvent - (22 component kit)
CH-8121M	Mixture at 1000ug/mL in Hexane:Acetone (90:10), 5mL Ampule - (22 components)
CH-8121JM	Mixture at 1000ug/mL in Hexane:Acetone (90:10), 1mL Ampule - (22 components)

SURROGATE STANDARDS
EPA METHOD 8121

F2151	100mg	1,4-Dichloronaphthalene	
F2151S	5mL	100ug/mL	Hexane (Ampule)
F2151JS	1mL	100ug/mL	Hexane (Ampule)
F2149	50mg	2,3,4,5,6-Pentachlorotoluene	
F2149S	5mL	100ug/mL	Toluene (Ampule)
F2149JS	1mL	100ug/mL	Toluene (Ampule)
F2150	1g	a,2,6-Trichlorotoluene	
F2150S	5mL	100ug/mL	Toluene (Ampule)
F2150JS	1mL	100ug/mL	Toluene (Ampule)

INTERNAL STANDARDS
EPA METHOD 8121

F1094	1g	2,5-Dibromotoluene	
F1094S	5mL	100ug/mL	Hexane (Ampule)
F1094JS	1mL	100ug/mL	Hexane (Ampule)
F1096	1g	a,a'-Dibromo-m-xylene	
F1096S	5mL	100ug/mL	Hexane (Ampule)
F1096JS	1mL	100ug/mL	Hexane (Ampule)
F1095	5g	1,3,5-Tribromobenzene	
F1095S	5mL	100ug/mL	Hexane (Ampule)
F1095JS	1mL	100ug/mL	Hexane (Ampule)

METHOD 8140/8141A/B - ORGANOPHOSPHOROUS PESTICIDES

Method 8141 is applicable for determination of organophosphorous compounds by gas chromatography utilizing a capillary column technique.

ORGANOPHOSPHOROUS PESTICIDES
METHOD 8140/8141A/8141B

- Chlorpyrifos
- Coumaphos
- Demeton-S
- Diazinon
- Dibrom
- Dichlorvos
- Disulfoton
- Fenchlorophos
- Fensulfothion
- Fenthion
- Guthion®
- Methyl parathion
- Phorate
- Phosdrin
- Prophos
- Sulprofos
- Tetrachlorvinphos
- Tokuthion®
- Tributylphosphorotrithioite
- Trichloronate

OPP-8140N	Neat compounds of each of the above - (20 component kit)
OPP-8140S	5mL Solutions of each, in the appropriate solvent - (19 component kit)
OPP-8140JS	1mL Solutions of each, in the appropriate solvent - (19 component kit)
OPP-8140M	Mixture at 100ug/mL in Methylene chloride, 5mL Ampule - (20 components)
OPP-8140JM	Mixture at 100ug/mL in Methylene chloride, 1mL Ampule - (20 components)

NOTE: Tributylphosphorotrithioite is not supplied in OPP-8140S or OPP-8140JS

ORGANOPHOSPHOROUS COMPOUNDS MIXTURE
EPA METHOD 8141A/8141B

- Aspon®
- Carbophenothion
- Chlorfenvinphos
- Chlorpyrifos methyl
- Crotoxyphos
- Dichlofenthion
- Dicrotophos
- Dioxathion
- Dyfonate®
- Dylox®
- Ethion
- Famphur
- Fenitrothion
- Guthion Ethyl
- Leptophos
- Imidan®
- Phosphamidon
- Terbufos
- Zinophos®

100ug/mL in Toluene - (19 components)
OPC8141A-1JM **1mL Ampule**

SPECIAL ORGANOPHOSPHOROUS MIXTURE
EPA METHOD 8141A/8141B

- Diazinon
- Ethion
- Malathion
- Methyl parathion
- Parathion®

100ug/mL in Cyclohexane - (5 components)
CR8141-1M **5mL Ampule**
CR8141-1JM **1mL Ampule**

ORGANOPHOSPHOROUS PESTICIDES MIXTURES KIT
EPA METHOD 8141A/8141B

OPP-8140JM	Organophosphorous Pesticides Mixture
OPP-8141JM	Organophosphorous Compounds Mixture
OPC8141A-1JM	Organophosphorous Compounds Mixture

1mL of each, in the appropriate solvent - (3 component kit)
MMOPP8141-3 **KIT**

ORGANOPHOSPHOROUS COMPOUNDS
EPA METHOD 8141A/8141B *(Supplement to EPA Method 8140)*

- Dimethoate
- EPN
- Malathion
- Monocrotophos
- Parathion®
- Tetraethyldithiopyrophosphate

Neat compounds of each of the above - (6 component kit)
OPP-8141N KIT

5mL Solutions of each, in the appropriate solvent - (6 component kit)
OPP-8141S KIT

1mL Solutions of each, in the appropriate solvent - (6 component kit)
OPP-8141JS KIT

Mixture at 100ug/mL in Toluene - (6 components)
OPP-8141M 5mL Ampule
OPP-8141JM 1mL Ampule

TRIAZINE HERBICIDES MIXTURE
EPA METHOD 8141A/8141B

- Atrazine
- Simazine

200ug/mL in Acetone - (2 components)
TH8141-1M 5mL Ampule
TH8141-1JM 1mL Ampule

ATRAZINE STANDARDS
EPA METHOD 8141A/8141B

F2208	500mg	Atrazine	
F2208S	5mL	100ug/mL	tert-Butylmethyl ether (Ampule)
F2208JS	1mL	100ug/mL	tert-Butylmethyl ether (Ampule)

TEPP STANDARDS
EPA METHOD 8141A/8141B

F2138	500mg	Tetraethylpyrophosphate

DIBROM DEGRADATION STANDARDS
EPA METHOD 8140/8141A/8141B

F2061	1g	Dichlorvos	
F2061S	5mL	100ug/mL	Toluene (Ampule)
F2061JS	1mL	100ug/mL	Toluene (Ampule)
F2061AS	5mL	1000ug/mL	Hexane (Ampule)
F2061AJS	1mL	1000ug/mL	Hexane (Ampule)

SIMAZINE STANDARDS
EPA METHOD 8141A/8141B, *507*

F2073	500mg	Simazine	
F2073S	5mL	100ug/mL	Methanol (Ampule)
F2073JS	1mL	100ug/mL	Methanol (Ampule)
F2073AS	5mL	1000ug/mL	Acetone (Ampule)
F2073AJS	1mL	1000ug/mL	Acetone (Ampule)

EPN STANDARDS
EPA METHOD 8141A/8141B

F2112	1g	EPN	
F2112S	5mL	100ug/mL	Hexane (Ampule)
F2112JS	1mL	100ug/mL	Hexane (Ampule)
F2112AS	5mL	1000ug/mL	Hexane (Ampule)
F2112AJS	1mL	1000ug/mL	Hexane (Ampule)

TEPP DEGRADATION STANDARDS (TEP)
EPA METHOD 8141A/8141B

F2192	5g	Triethyl phosphate	
F2192S	5mL	100ug/mL	Hexane (Ampule)
F2192JS	1mL	100ug/mL	Hexane (Ampule)

MERPHOS CALIBRATION STANDARDS
EPA METHOD 8140/8141A/8141B, *507, 622, 1657, 8321*

F2214	250mg	S.S.S-Tributylphosphorotrithioate	
F2214S	5mL	100ug/mL	tert-Butylmethyl ether
F2214JS	1mL	100ug/mL	tert-Butylmethyl ether

INTERNAL STANDARDS
EPA METHOD 8140/8141A/8141B

F2319	1g	1-Bromo-2-nitrobenzene	
F2319S	5mL	1000ug/mL	Isooctane (Ampule)
F2319JS	1mL	1000ug/mL	Isooctane (Ampule)

SURROGATE STANDARDS
EPA METHOD 8140/8141A/8141B

F2320	5g	4-Chloro-3-nitrobenzotrifluoride	
F2320S	5mL	1000ug/mL	Isooctane
F2320JS	1mL	1000ug/mL	Isooctane
F2191	5g	Tributyl phosphate	
F2191S	5mL	2000ug/mL	Acetone
F2191JS	1mL	2000ug/mL	Acetone
F2052	5g	Triphenyl phosphate	
F2052S	5mL	500ug/mL	tert-Butylmethyl ether
F2052JS	1mL	500ug/mL	tert-Butylmethyl ether

METHOD 8150B - CHLORINATED HERBICIDES

Method 8150 is applicable for the determination of chlorinated herbicides. Method 8150 provides extraction, esterification, and GC conditions for the analysis. When Method 8150 is used to analyze unfamiliar samples, compound identifications should be supported by at least one additional qualitative technique. This method describes analytical conditions for a second gas chromatographic column that can be used to confirm measurements made with the primary column.

Method 8150A is applicable for the determination of chlorinated herbicides by gas chromatography. It provides GC/MS criteria for qualitative confirmation of compound identifications.

Method 8150B is applicable for the determination of chlorinated herbicides by gas chromatography. The sensitivity of the 8150 methods usually depends on the level of interferences rather than on the instrumental limitations.

CHLORINATED HERBICIDES
EPA METHOD 8150B, *1618,8321*

- 2,4-D
- 2,4-DB
- Dalapon
- Dicamba
- Dichlorprop
- Dinoseb
- 4-Chloro-o-tolyloxyacetic acid
- Mecoprop
- Silvex
- 2,4,5-T®

CH-8150N Neat compounds of each of the above - (10 component kit)
CH-8150S 5mL Solutions of each, in the appropriate solvent - (10 component kit)
CH-8150M Mixture at 100ug/mL in Acetone, 5mL Ampule - (10 components)
CH-8150JM Mixture at 100ug/mL in Acetone, 1mL Ampule - (10 components)

METHYLATED CHLORINATED HERBICIDES
EPA METHOD 8150B, *1618*

- 2,4-D, methyl ester
- 2,4-DB, methyl ester
- Dalapon, methyl ester
- Dicamba, methyl ester
- Dichlorprop, methyl ester
- Dinoseb, methyl ether
- 4-Chloro-o-tolyloxy acetic acid, methyl ester
- Mecoprop methyl ester
- Silvex, methyl ester
- (2,4,5-Trichlorophenoxy) acetic acid, methyl ester

MCH-8150N Neat compounds of each of the above - (10 component kit)
MCH-8150S 5mL Solutions of each, in the appropriate solvent - (10 component kit)
MCH-8150M Mixture at 100ug/mL in Methanol, 5mL - (10 components)
MCH-8150JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (10 components)

CHLORINATED HERBICIDE ESTERS MIXTURE
EPA METHOD 8150B, *515.1*

- 2,4-D methyl ester
- (2,4,5-Trichlorophenoxy)acetic acid methyl ester
- Silvex methyl ester

2000ug/mL in Hexane - (3 components)
CSHC-14 **5mL Ampule**
CSHC-14JM **1mL Ampule**

CHLORINATED HERBICIDES MIXTURE
EPA METHOD 8150B, *515.1*

- 2,4-D
- Silvex
- 2,4,5-T

2000ug/mL in Hexane - (3 components)
CSHC-14A **5mL Ampule**
CSHC-14AJM **1mL Ampule**

METHYLATED CHLORINATED HERBICIDES CONTROL SAMPLE MIXTURE
EPA METHOD 8150B, *615*

100ug/mL	2,4-D methyl ester
250ug/mL	Dalapon methyl ester
100ug/mL	2,4-DB methyl ester
10ug/mL	Dicamba methyl ester
100ug/mL	Dichlorprop methyl ester
50ug/mL	Dinoseb methyl ether
10000ug/mL	4-Chloro-o-tolyloxyacetic acid methyl ester
10000ug/mL	Mecoprop methyl ester
10ug/mL	Silvex methyl ester
10ug/mL	(2,4,5-Trichlorophenoxy)acetic acid methyl ester

Mixture in Hexane - (10 components)
MCSM8150-1M **5mL Ampule**
MCSM8150-1JM **1mL Ampule**

CHLORINATED HERBICIDES - CONTROL SAMPLE MIXTURE
EPA METHOD 8150B, *615*

10,000ug/mL	4-Chloro-o-tolyloxyacetic acid
100ug/mL	2.4-D
250ug/mL	Dalapon
100ug/mL	2.4-DB
10ug/mL	Dicamba
100ug/mL	Dichlorprop
50ug/mL	Dinoseb
10,000ug/mL	Mecoprop
10ug/mL	Silvex
10ug/mL	2,4,5-T®

Mixture in Acetone - (10 components)
CSM8150-1M **5mL Ampule**
CSM8150-1JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 8150B

F2035	100mg	2,4-Dichlorophenylacetic acid	
F2035S	5mL	2000ug/mL	Acetone (Ampule)
F2035JS	1mL	2000ug/mL	Acetone (Ampule)
F2036	100mg	2,4-Dichlorophenylacetic acid methyl ester	
F2036S	5mL	100ug/mL	Acetone (Ampule)
F2036JS	1mL	100ug/mL	Acetone (Ampule)
F2036AS	5mL	2000ug/mL	Acetone (Ampule)
F2036AJS	1mL	2000ug/mL	Acetone (Ampule)

METHOD 8151/8151A - CHLORINATED HERBICIDES

Method 8151 is applicable for the determination of chlorinated herbicides by GC, using methylation or pentafluorobenzylation derivitization, by capillary column technique.

Method 8151A is applicable for determination of chlorinated herbicides by GC using methylation or pentafluorobenzylation derivatization. This method utilizes a capillary column technique with the GC.

CHLORINATED HERBICIDES
EPA METHOD 8151, *615*

- Acifluorfen methyl ester
- Bentazon methyl derivative
- Chloramben methyl ester
- 2,4-D methyl ester
- Dalapon methyl ester
- 2,4-DB methyl ester
- Chlorthal-dimethyl
- Dicamba methyl ester
- 3,5-Dichlorobenzoic acid methyl ester
- Dichlorprop methyl ester
- Dinoseb methyl ether
- 4-Chloro-o-tolyloxyacetic acid methyl ester
- Mecoprop methyl ester
- p-Nitroanisole
- Pentachloroanisole
- Picloram methyl ester
- Silvex methyl ester
- (2,4,5-Trichlorophenoxy)acetic acid methyl ester

CH-8151N Neat compounds of each of the above - (18 component kit)
CH-8151S Solutions of each of the above in an appropriate solvent - (18 component kit)

CH-8151M Mixture at 1000ug/mL in Acetone, 5mL Ampule - (18 components)
CH-8151JM Mixture at 1000ug/mL in Acetone, 1mL Ampule - (18 components)

NOTE: 5-Hydroxydicamba, MET-346A, is available 100ug/mL in Acetone:Water (90:10) only and is not included in CH-8151M or CH-8151JM.

METHYLATED CHLORINATED HERBICIDES
EPA METHOD 8151, *615*

- Acifluorfen methyl ester
- Bentazon methyl derivative
- Chloramben methyl ester
- 2,4-D methyl ester
- Dalapon methyl ester
- 2,4-DB methyl ester
- Chlorthal-dimethyl
- Dicamba methyl ester
- 3,5-Dichlorobenzoic acid methyl ester
- Dichlorprop methyl ester
- Dinoseb methyl ether
- 4-Chloro-o-tolyloxyacetic acid methyl ester
- Mecoprop methyl ester
- p-Nitroanisole
- Pentachloroanisole
- Picloram methyl ester
- Silvex methyl ester
- (2,4,5-Trichlorophenoxy)acetic acid methyl ester

MCH-8151N Neat compounds of each of the above - (18 component kit)
MCH-8151S 5mL Solutions of each, in the appropriate solvent - (18 component kit)

MCH-8151M Mixture at 1000ug/mL in Acetone:Isooctane (10:90), 5mL Ampule - (18 components)
MCH-8151JM Mixture at 1000ug/mL in Acetone:Isooctane (10:90), 1mL Ampule - (18 components)

NOTE: 5-Hydroxydicamba, MET-346A, is not included in MCH-8151M or MCH-8151JM.

NOTE: In MCH-8151N and MCH-8151S, MET-364A is included as a non-methyl ester, at 100ug/mL in Acetone:Water (90:10).

SPIKING STANDARDS
EPA METHOD 8151

F2093	1g	Bromoxynil	
F2093S	5mL	100ug/mL	Methanol
F2093JS	1mL	100ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
EPA METHOD 8151

F905	100mg	4,4-Dibromooctafluorobiphenyl	
F905S	5mL	2000ug/mL	Methylene chloride (Ampule)
F905JS	1mL	2000ug/mL	Methylene chloride (Ampule)

SURROGATE STANDARDS
EPA METHOD 8151

F2035	100mg	2,4-Dichlorophenylacetic acid	
F2035S	5mL	2000ug/mL	Acetone (Ampule)
F2035JS	1mL	2000ug/mL	Acetone (Ampule)
F2036	100mg	2,4-Dichlorophenylacetic acid methyl ester	
F2036S	5mL	100ug/mL	Acetone (Ampule)
F2036JS	1mL	100ug/mL	Acetone (Ampule)
F2036AS	5mL	2000ug/mL	Acetone (Ampule)
F2036AJS	1mL	2000ug/mL	Acetone (Ampule)
F27	5g	1.4-Dichlorobenzene	
F27S	5mL	100ug/mL	Methanol
F27JS	1mL	100ug/mL	Methanol (Ampule)

METHOD 8240B/8260A/8260B – VOLATILE ORGANICS

Method 8240B is applicable for determination of volatile organics by gas chromatography/mass spectrometry (GC/MS), packed column technique. This method is applicable to nearly all types of samples, regardless of water content, including ground water, aqueous sludges, caustic liquors, acid liquors, waste solvents, oily wastes, mousses, tars, fibrous wastes, polymeric emulsions, filter cakes, spent carbons, spent catalysts, soils, and sediments. Method 8240 can be used to quantify most volatile organic compounds that have boiling points below 200°C and that are insoluble or slightly soluble in water.

Method 8260 is applicable for determination of volatile organic compounds by gas chromatography/mass spectrometry (GC/MS). This method utilizes capillary column technique.

Method 8260A is applicable for determination of volatile organic compounds by GC/MS utilizing a capillary column technique. This method has the same broad applicability as 8240, and Method 8260, which, can be used to quantify most volatile organic compounds that have boiling points below 200°C and that are insoluble or slightly soluble in water.

CHLOROPRENE (2-Chloro-1,3-butadiene) NO XYLENE DETECTED
EPA METHOD 8240A/8260B, *8010B, 5035A*

		2-Chloro-1,3-butadiene	
F914S	5mL	5000ug/mL	P&T Methanol (Ampule)
F914JS	1mL	5000ug/mL	P&T Methanol (Ampule)

VINYL CHLORIDE STANDARDS
EPA METHOD 8260A/8260B, *502/524, 624/1624, 8021A, 5035A*

F88S	5mL	Vinyl chloride 100ug/mL	Methanol (Ampule)
F88JS	1mL	100ug/mL	Methanol (Ampule)
F88AS	5mL	2000ug/mL	Methanol (Ampule)
F88AJS	1mL	2000ug/mL	Methanol (Ampule)

VOLATILE ORGANIC COMPOUNDS MIXTURE
EPA METHOD 8260A/8260B, *502/524, 8021A, 5035A*

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Methyl bromide
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Methyl chloride
- 2-Chlorotoluene
- 4-Chlorotoluene
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene
- p-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

100ug/mL in Methanol - (59 components)
VOC-1M 5mL Ampule
VOC-1JM 1mL Ampule

2000ug/mL in Methanol - (59 components)
VOC-2JM 1mL Ampule

VOLATILE ORGANIC COMPOUNDS KITS
EPA METHOD 8240B/8260A/8260B, *5035A*

- Acetone*
- Acetonitrile*
- Acrolein*
- Acrylonitrile*
- Allyl alcohol*
- Allyl chloride*
- Benzene*
- Benzyl chloride*
- Bromoacetone*
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane*
- Bromoform*
- 2-Butanone*
- n-Butyl alcohol
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- tert-Butyl methyl ether
- Carbon disulfide*
- Carbon tetrachloride*
- Chloral hydrate Solution*
- Chloroacetonitrile
- Chlorobenzene*
- 2-Chloro-1,3-butadiene*
- 1-Chlorobutane
- Chlorodibromomethane*
- Chloroethane Solution*
- 2-Chloroethanol*
- 2-Chloroethyl vinyl ether*
- Chloroform*
- 1-Chlorohexane
- 3-Chloropropionitrile*
- 2-Chlorotoluene
- 4-Chlorotoluene
- Crotonaldehyde
- 1,2-Dibromo-3-chloropropane*
- 1,2-Dibromoethane*
- Dibromofluoromethane
- Dibromomethane*
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,4-Dichloro-2-butene cis&trans*
- Dichlorodifluoromethane Solution*
- 1,1-Dichloroethane*
- 1,2-Dichloroethane*
- 1,1-Dichloroethene*
- trans-1,2-Dichloroethene*
- cis-1,2-Dichloroethene
- 1,2-Dichloropropane*
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,3-Dichloro-2-propanol*
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene*
- trans-1,3-Dichloropropene*
- 1,2,3,4-Diepoxybutane*
- 1,4-Dioxane*
- Epichlorohydrin*
- Ethyl acetate
- Ethyl alcohol*
- Ethylbenzene*
- Ethylene oxide Solution*
- Ethyl ether
- Ethyl methacrylate*
- Fluorobenzen
- Hexachloro-1,3-butadiene
- Hexachloroethane
- 2-Hexanone*
- 2-Hydroxypropionitrile*
- Isobutyl alcohol*
- Isopropylbenzene
- p-Isopropyltoluene
- Malononitrile*
- Methacrylonitrile*
- Methyl alcohol
- Methyl acrylate
- Methyl bromide Solution*
- Methyl chloride Solution*
- Methylene chloride*
- Methyl iodide*
- Methyl methacrylate*
- 4-Methyl-2-pentanone*
- Naphthalene
- Nitrobenzene
- 2-Nitropropane
- Pentachloroethane*
- Pentafluorobenzene
- 2-Picoline*
- b-Propiolactone*
- Propionitrile*
- n-Propylamine*
- n-Propylbenzene
- 2-Propyn-1-ol*
- Pyridine*
- Styrene*
- 1,1,1,2-Tetrachloroethane*
- 1,1,2,2-Tetrachloroethane*
- Tetrachloroethene*
- Toluene*
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane*
- 1,1,2-Trichloroethane*
- Trichloroethene*
- Trichlorofluoromethane*
- 1,2,3-Trichloropropane*
- 1,2,3-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Vinyl acetate*
- Vinyl chloride Solution*
- o-Xylene*
- m-Xylene*
- p-Xylene*

VOM-8240N Neat compounds of each of the above, marked with * - (76 component kit)
VOM-8240S 5mL Solutions of each, in the appropriate solvent, marked with * - (76 component kit)

VOC8260-1N Neat compounds of each of the above - (115 component kit)
VOC8260-1S 5mL Solutions of each, in the appropriate solvent - (115 component kit)

NOTE: 2-Chloro-1,3-butadiene is available x% in Xylene, but is included in both the neat and solution kits.

NOTE: Chloral hydrate, Chloroethane, Dibromofluoromethane, Dichlorofluoromethane, Ethylene oxide, Methyl bromide, Methyl chloride and Vinyl chloride are supplied in solution form only, but are included in the neat kit.

NOTE: Chloral hydrate Solution is available in 1mL only.

VOLATILE ORGANIC COMPOUNDS *(VOC-1M & F88S)*
EPA METHOD 8260A/8260B, *502/524, 8021A, 5035A*

- Vinyl chloride Solution
- Vinyl organic compounds - Mixture

5mL of each, in tha appropriate solvent - (2 component kit)
MSVOC-2 KIT

VOLATILE ORGANIC COMPOUNDS KIT HIGH CONCENTRATION *(VOC-2JM & F88AJS)*
EPA METHOD 502/524, 8021A, 8260A/8260B, *5035A*

- Vinyl chloride Solution
- Vinyl organic compounds - Mixture

1mL of each of the above in the appropriate solvent - (2 component kit)
MSHVOCJ-2 KIT

VOLATILE ORGANIC COMPOUNDS KIT *(VOC-1JM & F88JS)*
EPA METHOD 8260A/8260B, *502/524, 8021A, 5035A*

- Vinyl chloride Solution
- Vinyl organic compounds - Mixture

1mL of each, in the appropriate solvent - (2 component kit)
MSVOCJ-2 KIT

VOLATILE ORGANICS MIXTURE #1
EPA METHOD 8240B, *5041, 5035A*

- Acetone
- Acrylonitrile
- Benzene
- Bromodichloromethane
- Bromoform
- 2-Butanone
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- trans-1,2-Dichloroethene
- Dibromomethane
- 1,4-Dichloro-2-butene cis & trans
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Ethyl methacrylate
- 2-Hexanone
- Methyl iodide
- Methylene chloride
- 4-Methyl-2-pentanone
- Styrene
- Tetrachloroethene
- 1,1,2,2-Tetrachloroethane
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane
- o-Xylene
- m-Xylene
- p-Xylene3

200ug/mL in Methanol:Water (90:10) - (37 components)
VOM8240-1M 5mL Ampule
VOM8240-1JM 1mL Ampule

GAS STANDARDS
EPA METHOD 8240B/8260A/8260B, *502/524, 601/602, 624/1624, 8010B, 8021A, 5041, 5035A*

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

5mL Solutions of each, 100ug/mL in Methanol - (6 component kit)
PP-9 KIT

200ug/mL in Methanol - (6 components)
PP-9JM 1mL Ampule

- Chloroethane
- Methyl chloride
- Methyl bromide
- Trichlorofluoromethane
- Dichlorodifluoromethane
- Vinyl chloride

2000ug/mL in Methanol - (6 components)
VOHC-6M 5mL Ampule
VOHC-6JM 1mL Ampule

AROMATIC VOLATILE ORGANICS MIXTURE
EPA METHOD 8260A, *502/524, 8021A, 5035A*

- Benzene
- Bromobenzene
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Chlorobenzene
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Isopropylbenzene
- p-Isopropyltoluene
- Naphthalene
- n-Propylbenzene
- Styrene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

100ug/mL in Methanol, 5mL - (25 components)
AVOC-1M 5mL Ampule
AVOC-1JM 1mL Ampule

2000ug/mL in Methanol - (25 components)
AVOC-2M 5mL Ampule
AVOC-2JM 1mL Ampule

NON-HALOGENATED VOLATILE
EPA METHOD 8240B, *8015A, 5035A*

- Acetonitrile
- 2-Butanone
- Ethyl ether
- 1,4-Dioxane
- Ethyl alcohol
- Ethyl methacrylate
- Isobutyl alcohol
- Methacrylonitrile
- Methyl methacrylate
- 4-Methyl-2-pentanone
- Propionitrile

100ug/mL in Methanol:Water (90:10) - (11 components)
NHV-1M 5mL Ampule
NHV-1JM 1mL Ampule

HALOALKANES VOLATILE ORGANIC COMPOUNDS MIXTURE
EPA METHOD 8260A/8260B, *502/524, 8021A, 5035A*

- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroethane
- Chloroform
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Hexachloro-1,3-butadiene
- Methyl chloride
- Methylene chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,1-Dichloropropene

100ug/mL in Methanol, 5mL Ampule - (34 components)
HVOC-1JM 1mL Ampule

2000ug/mL in Methanol - (34 components)
HVOC-2JM 1mL Ampule

PURGEABLES SURROGATE STANDARDS MIXTURES
EPA METHOD 8240B, *5041, CLP, 5035A*

- 4-Bromofluorobenzene
- 1,2-Dichloroethane-d_4
- Toluene-d_8

250ug/mL in Methanol - (3 components)
CLP-3M 5mL Ampule
CLP-3JM 1mL Ampule

2500ug/mL in Methanol - (3 components)
CLP-3AM 5mL Ampule
CLP-3AJM 1mL Ampule

PURGEABLE ORGANIC COMPOUNDS - SUPPLEMENT
EPA METHOD 8260A/8260B, *524.2, 5035A*

- Acetone
- Acrylonitrile
- 2-Butanone
- tert-Butyl methyl ether
- Carbon disulfide
- Chloroacetonitrile
- 1-Chlorobutane
- 1,4-Dichloro-2-butene cis & trans
- 1,1-Dichloroacetone
- Ethyl ether
- Ethyl methacrylate
- Hexachloroethane
- 2-Hexanone
- Methacrylonitrile
- Methyl acrylate
- Methyl iodide
- Methyl methacrylate
- 4-Methyl-2-pentanone
- Nitrobenzene
- 2-Nitropropane
- Pentachloroethane
- Propionitrile
- Tetrahydrofuran

100ug/mL in Methanol:Water (95:5) - (24 components)
POC-1M 5mL Ampule
POC-1JM 1mL Ampule

NOTE: Inhibited with Hydroquinone

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

VOLATILE ORGANICS MIXTURES KIT #1J
EPA METHOD 8260A/8260B, *502/524, 8021A, 5035A*

Liquid Volatile Organic Compounds Mixture - 502/524, 8021A
LVOC-1JM

Volatile Organics High Concentration Mixture #6
VOHC-6JM

1mL of each of the above in the appropriate solvent - (2 component kit)
MMVOCJ-2 KIT

LIQUID VOLATILE ORGANIC COMPOUNDS MIXTURE
EPA METHOD 8260A/8260B, *502/524, 8021A, 5035A*

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- n-Butylbenzene
- sec-Butylbenzene
- tert-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 2-Chlorotoluene
- 4-Chlorotoluene
- Chlorodibromomethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Hexachloro-1,3-butadiene
- Isopropylbenzene
- p-Isopropyltoluene
- Methylene chloride
- Naphthalene
- n-Propylbenzene
- Styrene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (54 components)
LVOC-1M 5mL Ampule
LVOC-1JM 1mL Ampule

PURGEABLES INTERNAL STANDARDS MIXTURES
EPA METHOD 8240B, *1666, 5041, CLP, 5035A*

- Bromochloromethane
- Chlorobenzene-d_5
- 1,4-Difluorobenzene

1000ug/mL in Methanol - (3 components)
CLP-4M 5mL Ampule
CLP-4JM 1mL Ampule

2500ug/mL in Methanol - (3 components)
CLP-4AM 5mL Ampule
CLP-4AJM 1mL Ampule

INTERNAL STANDARDS MIXTURE
EPA METHOD 8260A/8260B, *5035A*

- Chlorobenzene-d_5
- 1,4-Difluorobenzene
- 1,4 Dichlorobenzene-d_4
- Pentafluorobenzene

100ug/mL in Methanol - (4 components)
IS-8260M 5mL Ampule
IS-8260JM 1mL Ampule

INTERNAL STANDARDS MIXTURE
EPA METHOD 8260B, *5035A*

- Fluorobenzene
- Chlorobenzene-d_5
- 1.4-Dichlorobenzene-d_4

2500ug/mL in Methanol - (3 components)
IS-8260AM 5mL Ampule
IS-8260AJM 1mL Ampule

VOLATILES SYSTEM PERFORMANCE MIXTURE
EPA METHOD 8240B/8260A/8260B, *CLP*

- Bromoform
- Chlorobenzene
- 1,1-Dichloroethane
- Methyl chloride
- 1,1,2,2-Tetrachloroethane

2000ug/mL in Methanol - (5 components)
CLP-6M 5mL Ampule
CLP-6JM 1mL Ampule

INTERNAL STANDARDS
EPA METHOD 8260A/8260B

F740	100mg	1,4-Dichlorobenzene-d_4	
F740S	5mL	2000ug/mL	Methanol
F740JS	1mL	2000ug/mL	Methanol (Ampule)
F839	2g	Fluorobenzene	
F839S	5mL	2000ug/mL	Methanol (Ampule)
F839JS	1mL	2000ug/mL	Methanol (Ampule)
F841	1g	Pentafluorobenzene	
F841S	5mL	2000ug/mL	Methanol (Ampule)
F841JS	1mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
EPA METHOD 8240B/8260A/8260B

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206JS	1mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206AJS	1mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1mL	20,000ug/mL	Methanol (Ampule)
F1088	100mg	Chlorobenzene-d_5	
F1088S	5mL	100ug/mL	Methanol
F1088JS	1mL	100ug/mL	Methanol (Ampule)
F837	100mg	1,4-Difluorobenzene	
F837S	5mL	2000ug/mL	Methanol (Ampule)
F837JS	1mL	2000ug/mL	Methanol (Ampule)

SURROGATE STANDARDS
EPA METHOD 8240B/8260A/8260B

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)
F836	100mg	1,2-Dichloroethane-d_4 (Ampule)	
F836S	5mL	2000ug/mL	Methanol (Ampule)
F836JS	1mL	2000ug/mL	Methanol (Ampule)
F843	100mg	Toluene-d_8	
F843S	5mL	2000ug/mL	Methylene chloride (Ampule)
F843JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F843AS	5mL	2000ug/mL	Methanol
F843AJS	1mL	2000ug/mL	Methanol (Ampule)

COMBINED PURGEABLE INTERNAL & SURROGATE STANDARDS MIXTURE
EPA METHOD 8240B, *CLP, 5035A*

- Bromochloromethane
- 4-Bromofluorobenzene
- Chlorobenzene-d_5
- 1,2-Dichloroethane-d_4
- 1,4-Difluorobenzene
- Toluene-d_8

2500ug/mL in Methanol - (6 components)
CPIS-1M **5mL Ampule**
CPIS-1JM **1mL Ampule**

PURGEABLES MATRIX SPIKING MIXTURES
EPA METHOD 8240B/8260A/8260B, *8250A/8270B, CLP, 5035A*

- Benzene
- Chlorobenzene
- 1,1-Dichloroethene
- Toluene
- Trichloroethene

1000ug/mL in Methanol - (5 components)
CLP-5M **5mL Ampule**
CLP-5JM **1mL Ampule**

VOLATILES CALIBRATION CHECK MIXTURE
EPA METHOD 8240B/8260A/8260B, *CLP, 5035A*

- Chloroform
- 1,2-Dichloropropane
- 1,1-Dichloroethene
- Ethylbenzene
- Toluene
- Vinyl chloride

2000g/mL in Methanol - (6 components)
CLP-7M **5mL Ampule**
CLP-7JM **1mL Ampule**

SURROGATE STANDARDS
EPA METHOD 8260A/8260B

F953	100mg	Dibromofluoromethane (Ampule)	
F953S	5mL	2000ug/mL	Methanol (Ampule)
F953JS	1mL	2000ug/mL	Methanol (Ampule)

TUNING STANDARDS
EPA METHOD 8240B

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)

METHOD 8250A/8270B – SEMIVOLATILE ORGANICS

Method 8250A is applicable for determination of semivolatile organic compounds in extracts prepared from all types of solid waste matrices, soils, and ground water. Direct injection of a sample may be used in limited applications. Method 8250A can be used to quantify most neutral, acidic, and basic organic compounds that are soluble in methylene chloride, and capable of being eluted without derivatization as sharp peaks, from a gas chromatographic packed column by GC/MS.

Method 8270B is applicable for determination of semivolatile organic compounds by gas chromatography/mass spectrometry (GC/MS) by capillary column technique. This method is used to determine the concentration of semivolatile organic compounds in extracts prepared from all types of solid waste matrices, soils, and ground water. Direct injection of a sample may be used in limited applications. Prior to using this method, the samples should be prepared for chromatography using the appropriate sample preparation and cleanup methods. This method describes chromatographic conditions that will allow for the separation of the compounds in the extract, and for their qualitative and quantitative analysis, by mass spectrometry.

SEMIVOLATILE ORGANIC KITS
EPA METHOD 8250A/8270B

Analytes are listed on page 232.

SVOC-1N Neat compounds of each from the following page, marked with a * - (129 component kit)
SVOC-1S 5mL Solutions of each from the following page, in the appropriate solvent, marked with a * - (128 component kit)

NOTE: 1,2-Diphenylhydrazine (F37) is supplied in the neat kit only.

SVC-8270N Neat compounds from the following page - (245 component kit)
SVC-8270S Solutions of each from the following page, in an appropriate solvent - (237 component kit)

NOTE: Aramite (PS-850) is sold in solution form only at 100ug/mL in Hexane, but is included in the neat kit.

NOTE: Benzenethiol (F2071), 1,2-Diphenylhydrazine (F37), (F2116) Hydroquinone, Leptophos (F2117), Maleic anhydride (F2119), 1,4-Phenylenedimine (F1081), Tetraethylpyrophosphate (F2138) and Tolylene-2,4-diisocyanate (F2139) are supplied in the neat kit only.

SEMIVOLATILES MIXTURE #1
EPA METHOD 8250A/8270B

(F208 Phenanthrene-d_{10} is the internal standard for the following analytes.)

- p-Acetophenetidide
- Anthracene
- Azobenzene
- 4-Bromophenyl phenyl ether
- Di-n-butyl phthalate
- 4.6-Dinitro-o-cresol
- Diphenylamine
- Fluoranthene
- Hexachlorobenzene
- Pentachloronitrobenzene
- Pentachlorophenol
- Phenanthrene
- Propyzamide
- 4-Aminobiphenyl

1000ug/mL in Toluene - (14 components)
SV8250-1JM 1mL Ampule

SEMIVOLATILES MIXTURE #2
EPA METHOD 8250A/8270B

(F730 Chrysene-d_{12} is the internal standard for the following analytes.)

- Benzidine
- 1.2-Benzanthracene
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Chrysene
- 3.3-Dichlorobenzidine
- p-Dimethylaminoazobenzene
- Pyrene

1000ug/mL in Methylene chloride - (8 components)
SV8250-2JM 1mL Ampule

SEMIVOLATILES MIXTURE #4
EPA METHOD 8250A/8270B

(F740 1,4-Dichlorobenzene-d_4 is the internal standard for the following analytes.)

- Aniline
- Benzyl alcohol
- Bis(2-chloroethyl)ether
- Bis(2-chlorol-methyleth)ether
- 2-Chlorophenol
- 1.2-Dichlorobenzene
- 1.3-Dichlorobenzene
- 1.4-Dichlorobenzene
- Hexachloroethane
- 2-Methylphenol
- 4-Methylphenol
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- Phenol
- 2-Picoline

1000ug/mL in Methylene chloride - (15 components)
JV8250-4JM 1mL Ampule

SEMIVOLATILES MIXTURE #7
EPA METHOD 8250A

- Ethyl methanesulfonate
- Methyl methanesulfonate

1000ug/mL in Methylene chloride - (2 components)
SV8250-7M 5mL Ampule
SV8250-7JM 1mL Ampule
SV8250-4JM 1mL Ampule

SEMIVOLATILE ORGANIC COMPOUNDS
EPA METHOD 8250A/8270B

F1	Acenaphthene*
F720	Acenaphthene-d_{10}*
F77	Acenaphthylene*
F912	p-Acetophenetidide*
F985	Acetophenone*
F911	2-Acetylaminofluorene
F2086	1-Acetyl-2-thiourea
F89	Aldrin®*
F2087	2-Aminoanthraquinone
F2088	Aminoazobenzene
F913	4-Aminobiphenyl*
F2143	3-Amino-9-ethylcarbazole
F2089	Anilazine
F701	Aniline*
F2090	o-Anisidine
F78	Anthracene*
PS-850	Aramite Solution
F107	Arochlor 1016*
F108	Arochlor 1221*
F113	Arochlor 1232*
F109	Arochlor 1242*
F110	Arochlor 1248*
F111	Arochlor 1254*
F112	Arochlor 1260*
F2091	Barban
F2071	Benzenethiol
F5	Benzidine*
F702	Benzoic acid*
F72	1,2-Benzanthracene*
F74	Benzo(b)fluoranthene*
F75	Benzo(k)fluoranthene*
F79	1,1,2-Benzoperylene*
F73	Benzo(a)pyrene*
F703	Benzyl alcohol*
F102	a-BHC*
F103	b-BHC*
F105	d-BHC*
F43	Bis(2-chloroethoxy)methane*
F18	Bis(2-chloroethyl)ether*
F42	Bis(2-chloroisopropyl) ether*
F66	Bis(2-ethylhexyl)phthalate*
F41	4-Bromophenyl phenyl ether*
F2093	Bromoxynil
F67	Butyl benzyl phthalate*
F2094	Captafol
F2095	Captan
F2005	Carbaryl
F2006	Carbofuran
F2096	Carbophenothion
F91	Chlordane*
F2097	Chlorfenvinphos
F706	4-Chloroaniline*
F986	Chlorobenzilate
F2153	5-Chloro-2-methylaniline
F22	4-Chloro-3-methylphenol*
F2098	3-(Chloromethyl)pyridine hydrochloride
F2021	1-Chloronaphthalene*
F20	2-Chloronaphthalene*
F24	2-Chlorophenol*
F2099	4-Chloro-o-phenylenediamine
F2144	4-Chloro-1,3-phenylenediamine
F40	4-Chlorophenyl phenyl ether*
F76	Chrysene*
F730	Chrysene-d_{12}*
F2058	Coumaphos
F987	m-Cresol
F2101	Crotoxyphos
F94	4,4′-DDD*
F93	4,4′-DDE
F92	4,4′-DDT*
F2059	Demeton-S
F988	Diallate
F2102	2,4-Diaminotoluene
F2247	Dibenz(a,j)acridine*
F82	1,2:5,6-Dibenzanthracene*
F707	Dibenzofuran*
F1010	1,2:4,5-Dibenzopyrene
F2067	Dibrom
F819	1,2-Dibromo-3-chloropropane
F68	Di-n-butyl phthalate*
F2103	Dichlone
F25	1,2-Dichlorobenzene*
F26	1,3-Dichlorobenzene*
F27	1,4-Dichlorobenzene*
F740	1,4-Dichlorobenzene-d_4*
F28	3,3-Dichlorobenzidine*
F31	2,4-Dichlorophenol*
F915	2,6-Dichlorophenol*
F2061	Dichlorovos
F2104	Dicrotophos
F90	Dieldrin*
F70	Diethyl phthalate*
F2105	Diethyl stilbestrol
F2106	Diethyl sulfate
F989	Dimethoate
F2154	3,3-Dimethoxybenzidine
F917	p-Dimethylaminoazobenzene*
F918	7,12-Dimethylbenz(a)anthracene*
F991	3,3-Dimethylbenzidine
F34	2,4-Dimethylphenol*
F71	Dimethyl phthalate*
F2107	1,2-Dinitrobenzene
F990	1,3-Dinitrobenzene
F2108	1,4-Dinitrobenzene
F60	4,6-Dinitro-o-cresol*
F59	2,4-Dinitrophenol*
F35	2,4-Dinitrotoluene*
F36	2,6-Dinitrotoluene*
F2109	Dinocap
F964	Dinoseb
F2110	Dioxathion
F992	Diphenylamine*
F2111	5,5-Diphenylhydantoin
F37	1,2-Diphenylhydrazine*
F69	Di-n-octyl phthalate*
F993	Disulfoton
F202	a-Endosulfan*
F203	b-Endosulfan*
F97	Endosulfan sulfate*
F98	Endrin*
F99	Endrin aldehyde*
F2022	Endrin ketone*
F2112	EPN
F2113	Ethion
F2114	Ethyl carbamate
F919	Ethyl methanesulfonate*
F994	Famphur
F2063	Fensulfothion
F2064	Fenthion
F39	Fluoranthene*
F80	Fluorene*
F410	2-Fluorobiphenyl*
F430	2-Fluorophenol*
F2055	Guthion®
F100	Heptachlor*
F101	Heptachlor epoxide*
F9	Hexachlorobenzene*
F52	Hexachloro-1,3-butadiene*
F53	Hexachlorocyclopentadiene*
F12	Hexachloroethane*
F995	Hexachlorophene
F920	Hexachloropropene
F2115	Hexamethyl phosphoramide
F2116	Hydroquinone
F2129	Imidan®
F83	Indeno(1,2,3-CD)pyrene*
F921	Isodrin
F54	Isophorone*
F922	Isosafrole
F2441	Kepone®
F2117	Leptophos
F104	Lindane*
F2118	Malathion
F2119	Maleic anhydride
F2145	Mestranol
F926	Methapyrilene hydrochloride
F910	Methoxychlor*
F2100	2-Methoxy-5-methylaniline
F2125	2-Methoxy-5-nitroaniline
F924	3-Methylcholanthrene*
F950	4,4-Methylenebis(2-chloroaniline)
F2120	4,4-Methylenebis(N,N-dimethyl-aniline)
F925	Methyl methanesulfonate*
F709	2-Methylnaphthalene*
F996	Methyl parathion
F711	2-Methylphenol*
F712	4-Methylphenol*
F2121	Mirex
F2122	Monocrotophos
F55	Naphthalene*
F310	Naphthalene-d_8*
F997	1,4-Napthoquinone
F928	1-Naphthylamine*
F927	2-Naphthylamine*
F2123	Nicotine
F2124	5-Nitroacenaphthene
F713	2-Nitroaniline*
F714	3-Nitroaniline*
F715	4-Nitroaniline*
F56	Nitrobenzene*
F320	Nitrobenzene-d_5*
F949	4-Nitrobiphenyl
F2126	Nitrofen
F57	2-Nitrophenol*
F58	4-Nitrophenol*
F934	5-Nitro-o-toluidine
F929	4-Nitroquinoline-N-oxide
F930	N-Nitrosodi-n-butylamine*
F931	N-Nitrosodiethylamine
F61	N-Nitrosodimethylamine*
F932	N-Nitrosomethylethylamine
F62	N-Nitrosdiphenylamine*
F63	N-Nitrosodi-n-propylamine*
F933	N-Nitrosomorpholine
F936	N-Nitrosopiperidine*
F935	N-Nitrosopyrrolidine
F2127	4,4-Oxydianiline
F998	Parathion®
F938	Pentachlorobenzene*
F999	Pentachloronitrobenzene*
F64	Pentachlorophenol*
F750	Perylene-d_{12}*
F81	Phenanthrene*
F208	Phenanthrene-d_{10}*
F65	Phenol*
F330	Phenol-d_6*
F1081	1,4-Phenylenediamine
F1080	Phorate
F2128	Phosalone
F2066	Phosdrin®
F2130	Phosphamidon
F2131	Phthalic anhydride
F1082	2-Picoline*
F1083	Pronamide*
F2133	6-Propyl-2-thiouracil
F84	Pyrene*
F1084	Pyridine
F2092	p-Quinone
F2134	Resorcinol
F939	Safrole
F2135	Strychnine
F2136	Sulfallate
F2132	Sulfoxide
F2137	Terbufos
F842	p-Terphenyl-d_{14}*
F1085	1,2,4,5-Tetrachlorobenzene*
F1086	2,3,4,6-Tetrachlorophenol*
F2069	Tetrachlorovinphos
F940	Tetraethyl dithiopyrophosphate
F2138	Tetraethyl pyrophosphate
F2139	Tolylene-2,4-diisocyanate
F1087	o-Toluidine
F106	Toxaphene®*
F844	2,4,6-Tribromophenol*
F8	1,2,4-Trichlorobenzene*
F717	2,4,5-Trichlorophenol*
F21	2,4,6-Trichlorophenol*
F2140	Trifluralin
F2146	2,4,5-Trimethylaniline
F2141	Trimethyl phosphate
F942	1,3,5-Trinitrobenzene
F2142	Tris(2,3-dibromopropyl) phosphate
F2147	Tri-p-tolyl phosphate
F941	O,O,O-Triethyl phosphorothioate
F2152	Zinophos®

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

MIXTURE #7 - BENZIDINES
EPA METHOD 8270B, *605, 625/1625, CLP*

- Benzidine
- 3,3′-Dichlorobenzidine

2000ug/mL in Methanol - (2 components)
PP-HC7 **5mL Ampule**
PP-HC7JM **1mL Ampule**

BASE NEUTRALS EXTRACTABLES MIXTURE
EPA METHOD 8270B, *625/1625, CLP*

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Bis(2-chloroethyl)ether
- Bis(2-chloroethoxy)methane
- Bis(2-ethylhexyl)phthalate
- Bis(2-chloro-1-methylethyl) ether
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Di-n-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-n-octyl phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno(1,2,3-C,D)pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosodiphenylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene

1000ug/mL in Benzene:Methylene chloride:Acetonitrile (4:4:2) - (44 components)
BN625-1M **5mL Ampule**
BN625-1JM **1mL Ampule**

SEMI-VOLATILES MIXTURE #1
EPA METHOD 8270B

- Chlorobenzilate
- Di-allate
- Dimethoate
- Dinoseb
- Disulfoton
- Famphur
- Kepone®
- Methyl parathion
- Parathion®
- Phorate
- Tetraethyldithio pyrophosphate
- Zinophos®

1000ug/mL in Methylene chloride - (12 components)
SV8270-1M **5mL Ampule**
SV8270-1JM **1mL Ampule**

SEMI-VOLATILES MIXTURES KIT #2
EPA METHOD 8270B

CLPSEM-1AM Acids Mixture
BN625-1M Base Neutrals Extractables Mixture
PP-HC7 Mixture #7 - Benzidines
CLPSEM-1XM Semi-Volatiles Supplement Mixture
SV8270-1XM Semi-Volatiles Supplement Mixture

5mL of each, in the appropriate solvent - (5 component kit)
MM8270-4 **KIT**

SEMI-VOLATILES MIXTURE #3
EPA METHOD 8250A/8270B

(F750 Perylene-d_{12} is the internal standard for the following analytes).

- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Dibenz(a,j)acridine
- 1,2:5,6-Dibenzanthracene
- 7,12-Dimethylbenz(a)anthracene
- Di-n-octyl phthalate
- Indeno(1,2,3-C.D)pyrene
- 3-Methyl cholanthrene

1000ug/mL in Toluene - (10 components)
SV8250-3JM 1mL Ampule

SEMI-VOLATILES MIXTURE #5
EPA METHOD 8250A/8270B

(F310 Naphthalene-d_8 is the internal standard for the following analytes).

- Acetophenone
- Benzoic acid
- Bis(2-chloroethoxy)methane
- 4-Chloroaniline
- 4-Chloro-3-methylphenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- Hexachloro-1,3-butadiene
- Isophorone
- 2-Methylnaphthalene
- Naphthalene
- Nitrobenzene
- 2-Nitrophenol
- N-Nitrosodi-n-butylamine
- N-Nitrosopiperidine
- 1,2,4-Trichlorobenzene

1000ug/mL in Methanol - (17 components)
SV8250-5JM 1mL Ampule

SEMI-VOLATILES MIXTURE #6
EPA METHOD 8250A/8270B

(F720 Acenaphthene-d_{10} is the internal standard for the following analytes).

- Acenaphthene
- Acenaphthylene
- 1-Chloronaphthalene
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Dibenzofuran
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Fluorene
- a-Naphthylamine
- b-Naphthylamine
- o-Nitroaniline
- m-Nitroaniline
- p-Nitroaniline
- 4-Nitrophenol
- Pentachlorobenzene
- 1,2,4,5-Tetrachlorobenzene
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

1000ug/mL in Methylene chloride - (23 components)
SV8250-6JM 1mL Ampule

SEMI-VOLATILES SUPPLEMENT MIXTURE
EPA METHOD 8270B

- p-Acetophenetidide
- Acetophenone
- 4-Aminobiphenyl
- 1-Chloronaphthalene
- Dibenz(a,j)acridine
- p-Dimethylaminoazobenzene
- 7,12-Dimethylbenz(a)anthracene
- Diphenylamine
- 3-Methyl cholanthrene
- a-Naphthylamine
- b-Naphthylamine
- N-Nitrosodi-n-butylamine
- N-Nitrosopiperidine
- Pentachlorobenzene
- Pentachloronitrobenzene
- 2-Picoline
- Propyzamide
- 1,2,4,5-Tetrachlorobenzene

1000ug/mL in Methylene chloride - (18 components)
SV8270-1XM 5mL Ampule
SV8270-1XJM 1mL Ampule

SEMI-VOLATILES SUPPLEMENT MIXTURE
EPA METHOD 8270B, *CLP*

- Aniline
- Benzyl alcohol
- Carbazole
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- o-Nitroaniline
- m-Nitroaniline
- p-Nitroaniline
- Pyridine

1000ug/mL in Methylene chloride - (10 components)
CLPSEM-1XM 5mL Ampule
CLPSEM-1XJM 1mL Ampule

PYRIDINE STANDARDS
EPA METHOD 8270B

F1084	5g	Pyridine	
F1084S	5mL	100ug/mL	Methanol
F1084JS	1mL	100ug/mL	Methanol (Ampule)

ACIDS MIXTURE
EPA METHOD 8270B, *CLP*

- Benzoic acid
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol
- 2-Methylphenol
- 4-Methylphenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,3,4,6-Tetrachlorophenol

1000ug/mL in Methylene chloride - (17 components)
CLPSEM-1AM 5mL Ampule
CLPSEM-1AJM 1mL Ampule

SEMI-VOLATILES MIXTURE #2
EPA METHOD 8270B

- 4-Nitroquinoline-N-oxide
- N-Nitrosodiethylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopyrrolidine
- 5-Nitro-o-toluidine
- o-Tolidine
- o-Toluidine

1000ug/mL in Methanol - (8 components)
SV8270-2JM 1mL Ampule

SEMI-VOLATILES MIXTURE #3
EPA METHOD 8270B

- 2-Acetamidofluorene
- m-Dinitrobenzene
- Hexachlorophene
- Hexachloropropene
- Isodrin
- Isosafrole
- Methapyrilene hydrochloride
- 1,4-Naphthoquinone
- Safrole
- O.O.O-Triethylphosphorothioate

1000ug/mL in Methylene chloride - (10 components)
SV8270-3M 5mL Ampule
SV8270-3JM 1mL Ampule

POLYCHLORINATED BIPHENYLS
EPA METHOD 8250A/8270B, *505, 608, 617, 625, 8080A/8081, CLP*

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260

Neat compounds of each of the above - (7 component kit)
PP-8N KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S KIT

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS KIT

TOXAPHENE® & CHLORDANE KIT
EPA METHOD 8250A/8270B, *608, 617, 625, 8080A/8081, CLP*

- Chlordane
- Toxaphene (TM)

Neat compounds of each of the above - (2 component kit)
PP-7N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S KIT

1,3,5-TRINITROBENZENE STANDARDS
EPA METHOD 8270B

F942	100mg	1,3,5-Trinitrobenzene	
F942S	5mL	100ug/mL	Methanol (Ampule)
F942JS	1mL	100ug/mL	Methanol (Ampule)
F942AS	5mL	1000ug/mL	Methylene chloride (Ampule)
F942AJS	1mL	1000ug/mL	Methylene chloride (Ampule)

ORGANOCHLORINE PESTICIDES
EPA METHOD 8250A/8270B, *508, 608, 625, 8080A/8081, CLP*

- Aldrin
- Dieldrin
- Chlordane
- 4,4'-DDT
- 4,4'-DDE
- 4,4'-DDD
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (Isomer B)
- BHC (alpha isomer)
- BHC (beta isomer)
- Lindane (BHC gamma isomer)
- BHC (delta isomer)
- Arochlor 1242
- Arochlor 1254
- Arochlor 1221
- Arochlor 1232
- Arochlor 1248
- Arochlor 1260
- Arochlor 1016
- Toxaphene (TM)
- Methoxychlor

PPO-8N Neat compounds of each of the above - (26 component kit)
PPO-8S 5mL Solutions of each, in the appropriate solvent - (26 component kit)

PPO-8M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PPO-8JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

PP-HC5 Mixture at 2000ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PP-HC5JM Mixture at 2000ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

OCP-8080M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (17 components)
OCP-8080JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (17 components)

NOTE: PPO-8M, PPO-8JM, PP-HC5, PP-HC5JM, OCP-8080M, OCP-8080JM, OCP508-1M and OCP508-1JM do not contain the Arochlors, Chlordane or Toxaphene.

NOTE: PPO-8M, PPO-8JM, PP-HC5 and PP-HC5JM do not contain Methoxychlor.

NOTE: OCP508-1M, OCP508-1JM contain F2022 Endrin Ketone, F907 cis-Chlordane and F908 trans-Chlordane.

OCP508-1M Mixture at 1000ug/mL in tert-Butylmethyl ether, 5mL Ampule - (20 components)
OCP508-1JM Mixture at 1000ug/mL in tert-Butylmethyl ether, 1mL Ampule - (20 components)

NOTE: Inhibited with Hydroquinone

BASE NEUTRALS SPIKING MIXTURE
EPA METHOD 8250A/8270B, *CLP*

- Acenaphthene
- Di-n-butyl phthalate
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- N-Nitroso-di-n-propylamine
- Pyrene
- 1,2,4-Trichlorobenzene

1000ug/mL in Methylene chloride - (7 components)
SBNS-1M 5mL Ampule
SBNS-1JM 1mL Ampule

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
EPA METHOD 8250A/8270B, *505, 508, 525.2, 608, 617, 625, 1656, 8080A/8081, CLP*

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene (TM) Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

ORGANOPHOSPHOROUS PESTICIDES HIGH CONCENTRATION MIXTURE
EPA METHOD 8270B

- Dimethoate
- Disulfoton
- Famphur
- Methyl parathion
- Phorate
- Parathion®
- Tetraethyldithiopyrophosphate
- O,O,O-Triethylphosphorothioate
- Zinophos® (Thionazin)

2000ug/mL in Hexane:Acetone (80:20) - (9 components)
CSHC-13 5mL Ampule
CSHC-13JM 1mL Ampule

COMBINED ACIDS & BASE NEUTRALS MATRIX SPIKING MIXTURE
EPA METHOD 8250A/8270B, *CLP*

1000ug/mL	Acenaphthene
1500ug/mL	4-Chloro-3-methylphenol
1500ug/mL	2-Chlorophenol
1000ug/mL	1,4-Dichlorobenzene
1000ug/mL	2,4-Dinitrotoluene
1500ug/mL	4-Nitrophenol
1000ug/mL	N-Nitrosodi-n-propylamine
1500ug/mL	Pentachlorophenol
1500ug/mL	Phenol
1000ug/mL	Pyrene
1000ug/mL	1,2,4-Trichlorobenzene

Mixture in Methylene chloride - (11 components)
CMSCLP-1M 5mL Ampule
CMSCLP-1JM 1mL Ampule

ACIDS CALIBRATION CHECK MIXTURE
EPA METHOD 8250A/8270B, *CLP*

- 4-Chloro-3-methylphenol
- 2,4-Dichlorophenol
- 2-Nitrophenol
- Phenol
- Pentachlorophenol
- 2,4,6-Trichlorophenol

2000ug/mL in Methanol - (6 components)
CLP-12M 5mL
CLP-12JM 1mL Ampule

PURGEABLES MATRIX SPIKING MIXTURES
EPA METHOD 8250A/8270B,8240B/8260A, *CLP*

- Benzene
- Chlorobenzene
- 1,1-Dichloroethene
- Toluene
- Trichloroethene

1000ug/mL in Methanol - (5 components)
CLP-5M 5mL Ampule
CLP-5JM 1mL Ampule

BASE NEUTRALS CALIBRATION CHECK MIXTURE
EPA METHOD 8250A/8270B, *CLP*

- Acenaphthene
- Benzo(a)pyrene
- 1,4-Dichlorobenzene
- Di-n-octyl phthalate
- Fluoranthene
- Hexachloro-1,3-butadiene
- N-Nitrosodiphenylamine

2000ug/mL in Methylene chloride - (7 components)
CLP-13M 5mL Ampule
CLP-13JM 1mL Ampule

ACIDS MATRIX SPIKING MIXTURES
EPA METHOD 8250A/8270B, *CLP*

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol

2000ug/mL in Methanol - (5 components)
SAS-1M 5mL Ampule
SAS-1JM 1mL Ampule

10,000ug/mL in Methanol - (5 components)
SASH-1M 5mL Ampule
SASH-1JM 1mL Ampule

SPECIAL COMBINED MATRIX SPIKING MIXTURE
EPA METHOD 8250A/8270B, *CLP*

1000ug/mL	Acenaphthene
2000ug/mL	4-Chloro-3-methylphenol
2000ug/mL	2-Chlorophenol
1000ug/mL	1,4-Dichlorobenzene
1000ug/mL	2,4-Dinitrotoluene
2000ug/mL	4-Nitrophenol
1000ug/mL	N-Nitrosodi-n-propylamine
2000ug/mL	Pentachlorophenol
2000ug/mL	Phenol
1000ug/mL	Pyrene
1000ug/mL	1,2,4-Trichlorobenzene

Mixture in Methylene chloride - (11 components)
CRCLPS-1M **5mL Ampule**
CRCLPS-1JM **1mL Ampule**

MIXTURE #1-BASE NEUTRALS
EPA METHOD 8270B, *CLP*

- Bis(2-chloroethoxy)methane
- Bis(2-chloroethyl)ether
- Bis(2-chloroisopropyl)ether
- Bis(2-ethylhexyl)phthalate
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- 4-Chlorophenyl phenyl ether
- Di-n-butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-n-octyl phthalate
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-n-propylamine

2000ug/mL in Methylene chloride - (14 components)
PP-HC1 **5mL Ampule**
PP-HC1JM **1mL Ampule**

MIXTURE #2-BASE NEUTRALS
EPA METHOD 8270B, *CLP*

- Azobenzene
- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Isophorone
- Nitrobenzene
- 1,2,4-Trichlorobenzene

2000ug/mL in Methylene chloride - (14 components)
PP-HC2 **5mL Ampule**
PP-HC2JM **1mL Ampule**

BASE NEUTRALS MATRIX SPIKING MIXTURES #A
EPA METHOD 8250A/8270B, *CLP*

- Acenaphthene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- N-Nitrosodi-n-propylamine
- Pyrene
- 1,2,4-Trichlorobenzene

1000ug/mL in Methylene chloride - (6 components)
BNMS-1M **5mL Ampule**
BNMS-1JM **1mL Ampule**

5000ug/mL in Methylene chloride - (6 components)
BNMSH-1M **5mL Ampule**
BNMSH-1JM **1mL Ampule**

PAH - HIGH CONCENTRATION MIXTURE
EPA METHOD 8270B

- 7,12-Dimethylbenz[a]anthracene
- 3-Methylcholanthrene

2000ug/mL in Methylene chloride:Benzene (50:50) - (2 components)
PAH-8270M **5mL Ampule**
PAH-8270JM **1mL Ampule**

ORGANOCHLORINE PESTICIDE MATRIX SPIKING MIXTURE
EPA METHOD 8250A/8270B

200ug/mL	Aldrin®
500ug/mL	4,4'-DDT
500ug/mL	Dieldrin
500ug/mL	Endrin
200ug/mL	Heptachlor
200ug/mL	Lindane

Mixture in Acetone - (6 components)
OCP-MSM **5mL Ampule**
OCP-MSJM **1mL Ampule**

PHENOLS MIXTURES
EPA METHOD 8270B,604,625/1625

100ug/mL	2,4,6-Trichlorophenol
100ug/mL	4-Chloro-3-methylphenol
100ug/mL	2-Chlorophenol
100ug/mL	2,4-Dichlorophenol
100ug/mL	2,4-Dimethylphenol
100ug/mL	2-Nitrophenol
100ug/mL	4-Nitrophenol
1000ug/mL	2,4-Dinitrophenol (min 15wt% water)
1000ug/mL	4,6-Dinitro-o-cresol
100ug/mL	Pentachlorophenol
100ug/mL	Phenol

Mixture in Methanol - (11 components)
PP-2M **5mL Ampule**

2000ug/mL in Methylene chloride - (11 components)
PP-HC9 **5mL Ampule**
PP-HC9JM **1mL Ampule**

NITROSOAMINES - HIGH CONCENTRATION MIXTURE #1
EPA METHOD 8270B

- N-Nitrosodi-n-butylamine
- N-Nitrosodiethylamine
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine

2000ug/mL in Methylene chloride - (9 components)
N-8270M **5mL Ampule**
N-8270JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

MIXTURE #3 - HAZARDOUS SUBSTANCES
EPA METHOD 8270B, *CLP*

- Benzoic acid
- 2-Methylphenol
- 4-Methylphenol
- 2,4,5-Trichlorophenol

2000ug/mL in Methylene chloride - (4 components)
PP-HC3 **5mL Ampule**
PP-HC3JM **1mL Ampule**

MIXTURE #4 - HAZARDOUS SUBSTANCES
EPA METHOD 8270B, *CLP*

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- o-Nitroaniline
- m-Nitroaniline
- p-Nitroaniline

2000ug/mL in Methylene chloride - (8 components)
PP-HC4 **5mL Ampule**
PP-HC4JM **1mL Ampule**

DEGRADATION CALIBRATION MIXTURE
EPA METHOD 8250A/8270B, *508/508.1, 525.2, 608, 617, 625, 1618, 1656, 8080A/8081, CLP*

100ug/mL Endrin
200ug/mL 4,4'-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M **5mL Ampule**
DC-508JM **1mL Ampule**

DEGRADATION PRODUCTS MIXTURE
EPA METHOD 8250A/8270B, *508/508.1, 525.2, 608, 617, 625,1618, 1656, 8080A/8081, CLP*

100ug/mL Endrin aldehyde
100ug/mL Endrin ketone
200ug/mL 4,4'-DDE
200ug/mL 4,4'-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M **5mL Ampule**
DP508-1JM **5mL Ampule**

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)
EPA METHOD 8270B, 550.1, 610, 8100, 8310, *CLP*

- Acenaphthene
- Fluoranthene
- Naphthalene
- 1,2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Acenaphthylene
- Anthracene
- 1,12-Benzoperylene
- Fluorene
- Phenanthrene
- 1,2:5,6-Dibenzanthracene
- Indeno(1,2,3-C,D)pyrene
- Pyrene

PPH-10N Neat compounds of each of the above - (16 component kit)
PPH-10S 5mL Solutions of each, in the appropriate solvent - (16 component kit)
PPH-10M Mixture at 100ug/mL in Methanol, 5mL - (16 components)

PPH-10JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (16 components)

PNA-550M Mixture at 200ug/mL in Acetonitrile, 5mL Ampule - (16 components)
PNA-550JM Mixture at 200ug/mL in Acetonitrile, 1mL Ampule - (16 components)

PP-HC6 Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 5mL Ampule - (16 components)
PP-HC6JM Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 1mL Ampule - (16 components)

STANDARDS MIXTURES
EPA METHOD 8250A/8270B, *CLP*

- 2-Fluorophenol
- Phenol-d_6
- 2,4,6-Tribromophenol

2000ug/mL in Methanol - (3 components)
CLP-1M **5mL Ampule**
CLP-1JM **1mL Ampule**

10,000ug/mL in Methanol - (3 components)
CLPH-1M **5mL Ampule**
CLPH-1JM **1mL Ampule**

SYSTEM PERFORMANCE CHECK MIXTURE
EPA METHOD 8250A/8270B, *CLP*

- 2,4-Dinitrophenol
- Hexachlorocyclopentadiene
- 4-Nitrophenol
- N-Nitrosodi-n-propylamine

1000ug/mL in Methanol - (4 components)
CLP-9M **5mL Ampule**
CLP-9JM **1mL Ampule**

Chem Service Inc. *We Set the Standard.*

ACIDS SURROGATE COMBINED SURROGATE STANDARDS MIXTURE
EPA METHOD 8250A, 8270B, *CLP*

1000ug/mL	2-Fluorobiphenyl
2000ug/mL	2-Fluorophenol
1000ug/mL	Nitrobenzene-d_5
2000ug/mL	Phenol-d_6
1000ug/mL	p-Terphenyl-d_{14}
2000ug/mL	2,4,6-Tribromophenol

Mixture in Methyene chloride - (6 components)
CSS8250-1M **5mL Ampule**
CSS8250-1JM **1mL Ampule**

BASE NEUTRALS SURROGATE STANDARDS MIXTURES
EPA METHOD 8250A/8270B, 8090, 8110, 8120A, *CLP*

- 2-Fluorobiphenyl
- Nitrobenzene-d_5
- p-Terphenyl-d_{14}

1000ug/mL in Methylene chloride - (3 components)
CLP-2M **5mL Ampule**
CLP-2JM **1mL Ampule**

5000ug/mL in Methylene chloride - (3 components)
CLPH-2M **5mL Ampule**
CLPH-2JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 8250A/8270B

F720	50mg	Acenaphthene-d_{10}	
F720S	5mL	2000ug/mL	Methanol (Ampule)
F720JS	1mL	2000ug/mL	Methanol (Ampule)
F207	100mg	Anthracene-d_{10}	
F207S	5mL	100ug/mL	Methanol (Ampule)
F207JS	1mL	100ug/mL	Methanol (Ampule)
F207AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F207AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F730	10mg	Chrysene-d_{12}	
F730S	5mL	2000ug/mL	Methylene chloride (Ampule)
F730JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F740	100mg	1.4-Dichlorobenzene-d_4	
F740S	5mL	2000ug/mL	Methanol (Ampule)
F740JS	1mL	2000ug/mL	Methanol (Ampule)
F310	100mg	Naphthalene-d_8	
F310S	5mL	2000ug/mL	Isooctane (Ampule)
F310JS	1mL	2000ug/mL	Isooctane (Ampule)
F750	10mg	Perylene-d_{12}	
F750S	5mL	2000ug/mL	Methylene chloride (Ampule)
F750JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F208	100mg	Phenanthrene-d_{10}	
F208S	5mL	100ug/mL	Methanol (Ampule)
F208JS	1mL	100ug/mL	Methanol (Ampule)
F208AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F208AJS	1mL	2000ug/mL	Methylene chloride (Ampule)

TUNING STANDARDS
EPA METHOD 8270B

F5	1g	Benzidine	
F5S	5mL	100ug/mL	Ethanol (Ampule)
F5JS	1mL	100ug/mL	Ethanol (Ampule)

SURROGATE STANDARDS
EPA METHOD 8250A, *8270B, CLP*

F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol (Ampule)
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F430	1g	2-Fluorophenol	
F430S	5mL	100ug/mL	Methanol (Ampule)
F430JS	1mL	100ug/mL	Methanol (Ampule)
F430AS	5mL	2000ug/mL	Methanol (Ampule)
F430AJS	1mL	2000ug/mL	Methanol (Ampule)
F320	1g	Nitrobenzene-d5	
F320S	5mL	2000ug/mL	Methanol (Ampule)
F320JS	1mL	2000ug/mL	Methanol (Ampule)
F330	100mg	Phenol-d_6	
F330S	5mL	2000ug/mL	Methanol (Ampule)
F330JS	1mL	2000ug/mL	Methanol (Ampule)
F842	50mg	p-Terphenyl-d_{14}	
F842S	5mL	2000ug/mL	Methylene chloride (Ampule)
F842JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F844	5g	2,4,6-Tribromophenol	
F844S	5mL	2000ug/mL	Methylene chloride (Ampule)
F844JS	1mL	2000ug/mL	Methylene chloride (Ampule)

TUNING STANDARDS
EPA METHOD 8250A/8270B

F92	1g	4,4'-DDT	
F92S	5mL	100ug/mL	Hexane (Ampule)
F92JS	1mL	100ug/mL	Hexane (Ampule)
F834	100mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F834AS	5mL	25,000ug/mL	Methylene chloride (Ampule)
F834AJS	1mL	25,000ug/mL	Methylene chloride (Ampule)
F64	1g	Pentachlorophenol	
F64S	5mL	100ug/mL	Methanol (Ampule)
F64JS	1mL	100ug/mL	Methanol (Ampule)

TUNING STANDARDS MIXTURE
EPA METHOD 8250A/8270B, 625, *CLP*

- Decafluorotriphenylphosphine
- Benzidine
- Pentachlorophenol
- 4,4'-DDT

1000ug/mL in Methylene chloride - (4 components)
CLP-TS1M **5mL Ampule**
CLP-TS1JM **1mL Ampule**

MIXTURE #8-INTERNAL STANDARDS
EPA METHOD 8250A/8270B, *CLP*

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1.4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

4000ug/mL in Methylene chloride - (6 components)
PP-HC8JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

METHOD 8265 – VOLATILE ORGANIC COMPOUNDS

Method 8265 uses direct sampling ion trap mass spectrometry (DSITMS) for the rapid quantitative measurement, continuous real-time monitoring, and qualitative and quantitative preliminary screening of volatile organic compounds (VOCs) in water, soil, soil gas, and air

VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8265, *CLP*

- Acetone
- Benzene
- Bromodichloromethane
- Bromoform
- 2-Butanone
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane Solution
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- 2-Hexanone
- Methyl bromide Solution
- Methyl chloride Solution
- Methylene chloride
- 4-Methyl-2-pentanone
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- o-Xylene
- m-Xylene
- p-Xylene
- Vinyl chloride Solution

CLPVOL-1N Neat compounds of each of the above - (36 component kit)
CLPVOL-1S 5mL Solutions of each, in the appropriate solvent - (36 component kit)

NOTE: Chloroethane, Methyl bromide, Methyl chloride and Vinyl chloride are supplied as solutions only, but are included in the neat kit.

CLP VOLATILES MIXTURE #2
EPA METHOD 8265, *CLP*

- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorodibromomethane
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane

2000ug/mL in Methanol - (12 components)
CLPVOL-2M **5mL Ampule**
CLPVOL-2JM **1mL Ampule**

CLP VOLATILES MIXTURE #3
EPA METHOD 8265, *CLP*

- Benzene
- Chlorobenzene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Tetrachloroethene
- Toluene
- Trichloroethene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (13 components)
CLPVOL-3M **5mL Ampule**
CLPVOL-3JM **1mL Ampule**

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILES STANDARD MIXTURE
EPA METHOD 8265, *CLP*

- Acetone
- 2-Butanone
- Carbon disulfide
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- o-Xylene

200ug/mL in Methanol:Water (90:10) - (7 components)
HSL-1M **5mL Ampule**
HSL-1JM **1mL Ampule**

2000ug/mL in Methanol:Water (90:10) - (7 components)
HSL-2M **5mL Ampule**
HSL-2JM **1mL Ampule**

CLP VOLATILE TLC GASES MIXTURE
EPA METHOD 8265, *CLP*

- Methyl bromide
- Chloroethane
- Methyl chloride
- Vinyl chloride

200ug/mL in Methanol - (4 components)
PPW-24CM **5mL Ampule**
PPW-24CJM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 8265, *CLP*

F837	100mg	1,4-Difluorobenzene	
F837S	5mL	2000ug/mL	Methanol (Ampule)
F837JS	1mL	2000ug/mL	Methanol (Ampule)

METHOD 8275/8275A - SEMIVOLATILE ORGANICS

Method 8275 is a screening technique that may be used for the qualitative identification of semivolatile organic compounds in extracts prepared from nonaqueous solid wastes and soils by Thermal Chromatography/Mass Spectrometry (TC/MS).

Method 8275A is a semivolatile organic compounds (PAHs and PCBs) in soils/sludges and solid wastes using thermal extraction/gas chromatography/mass spectrometry (TE/GC/MS)

THERMAL CHROMATOGRAPHY MASS SPEC COMPOUNDS
EPA METHOD 8275

- Aldrin®
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- Carbazole
- 4-Chloro-3-methylphenol
- 1-Chloronaphthalene
- 2-Chlorophenol
- Dibenzothiophene
- 2,4-Dichlorophenol
- 2,4-Dinitrotoluene
- Diphenylamine
- Fluorene
- Hexachlorobenzene
- 4-Methylphenol
- Naphthalene
- Phenanthrene
- Pyrene

TCMS-8275N Neat compounds of each of the above - (17 component kit)
TCMS-8275S 5mL Solutions of each, in the appropriate solvent - (17 component kit)

INTERNAL STANDARDS
EPA METHOD 8275

F720	50mg	Acenaphthene-d_{10}	
F720S	5mL	2000ug/mL	Methanol (Ampule)
F720JS	1mL	2000ug/mL	Methanol (Ampule)
F730	10mg	Chrysene-d_{12}	
F730S	5mL	2000ug/mL	Methylene chloride (Ampule)
F730JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F740	100mg	1.4-Dichlorobenzene-d_4	
F740S	5mL	2000ug/mL	Methanol (Ampule)
F740JS	1mL	2000ug/mL	Methanol (Ampule)
F310	100mg	Naphthalene-d_8	
F310S	5mL	2000ug/mL	Isooctane (Ampule)
F310JS	1mL	2000ug/mL	Isooctane (Ampule)
F750	10mg	Perylene-d_{12}	
F750S	5mL	2000ug/mL	Methylene chloride (Ampule)
F750JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F208	100mg	Phenanthrene-d_{10}	
F208S	5mL	100ug/mL	Methanol (Ampule)
F208JS	1mL	100ug/mL	Methanol (Ampule)
F208AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F208AJS	1mL	2000ug/mL	Methylene chloride (Ampule)

MIXTURE #8 - INTERNAL STANDARDS
EPA METHOD 8275, *8250A/8270B, CLP*

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichbrobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

4000ug/mL in Methylene chloride - (6 components)
PP-HC8JM **1mL Ampule**

GC/MS TUNING STANDARD
EPA METHOD 8275A

F834	10mg	Decafluorotriphenylphosphine (DFTPP)	
F834CS	5mL	50ug/ml	Methylene chloride (Ampule)
F834CJS	1mL	50ug/ml	Methylene chloride (Ampule)

DCC8315-2RPM

We recommend the product DCC8315-2RPM, Derivatized Carbonyl Compounds Mixture (Option #2) - 8315, should be sonicated in a warm bath prior to opening to effect homogeneity.

METHOD 8310 – POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310 is applicable for determination of polynuclear aromatic hydrocarbons (PAHs) in ground water and wastes. Method 8310 provides high performance liquid chromatographic (HPLC) conditions for the detection of PPB levels of certain polynuclear aromatic hydrocarbons. If the interferences prevent proper detection of the analytes, this method may also be performed on extracts that have undergone cleanup using silica gel column cleanup (Method 3630).

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)

EPA METHOD 8310, *550.1, 610, 8100, 8270B, CLP*

- Acenaphthene
- Fluoranthene
- Naphthalene
- 1,2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Acenaphthylene
- Anthracene
- 1,12-Benzoperylene
- Fluorene
- Phenanthrene
- 1,2:5,6-Dibenzanthracene
- Indeno(1,2,3-C,D)pyrene
- Pyrene

PPH-10N Neat compounds of each of the above - (16 component kit)
PPH-10S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

PPH-10M Mixture at 100ug/mL in Methanol, 5mL - (16 components)
PPH-10JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (16 components)

- Acenaphthene
- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-C,D)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PNA-550M Mixture at 200ug/mL in Acetonitrile, 5mL Ampule - (16 components)
PNA-550JM Mixture at 200ug/mL in Acetonitrile, 1mL Ampule - (16 components)

- Acenaphthene
- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- 1,12-Benzoperylene
- Benzo(k)fluoranthene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-C,D)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PP-HC6 Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 5mL Ampule - (16 components)
PP-HC6JM Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 1mL Ampule - (16 components)

PAH - CONTROL SAMPLE MIXTURE

EPA METHOD 8310, *550.1, 610, 8100*

100ug/mL	Acenaphthene
100ug/mL	Acenaphthylene
100ug/mL	Anthracene
10ug/mL	1,2-Benzanthracene
10ug/mL	Benzo(a)pyrene
10ug/mL	Benzo(b)fluoranthene
10ug/mL	1,12-Benzoperylene
5ug/mL	Benzo(k)fluoranthene
10ug/mL	Chrysene
10ug/mL	1,2:5,6-Dibenzanthracene
10ug/mL	Fluoranthene
100ug/mL	Fluorene
10ug/mL	Indeno(1,2,3-C,D)pyrene
100ug/mL	Naphthalene
100ug/mL	Phenanthrene
10ug/mL	Pyrene

Mixture in Acetonitrile - (16 components)
CSM-8310M **5mL Ampule**
CSM-8310JM **1mL Ampule**

SURROGATE STANDARDS

EPA METHOD 8310

F904	1g	Decafluorobiphenyl	
F904S	5mL	2000ug/mL	Methylene chloride (Ampule)
F904JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F904AS	5mL	2000ug/mL	Acetonitrile (Ampule)
F904AJS	1mL	2000ug/mL	Acetonitrile (Ampule)

STORE IN A COOL DRY PLACE

Our Material Safety Data Sheets, which are included in every order, usually state, "Store in a cool dry place". If there are special storage conditions such as under nitrogen, or under refrigeration, then it would also be stated in Section 7 of the MSDS. We recommend storage in small glass ampules, or glass vials with limited head space.

METHOD 8315/8315A – CARBONYL COMPOUNDS

Methods 8315/8315A are applicable for determination of carbonyl compounds by high performance liquid chromatography (HPLC).

CARBONYL COMPOUNDS - UNDERIVATIZED
EPA METHOD 8315/8315A

- Acetaldehyde
- Acetone
- Acrolein
- Benzaldehyde
- n-Butyraldehyde
- Crotonaldehyde
- Cyclohexanone
- Decyl aldehyde
- 2,5-Dimethylbenzaldehyde
- Formaldehyde (in water)
- Heptaldehyde
- Hexaldehyde
- Isovaleraldehyde
- Nonanal1
- Octyl aldehyde
- Propionaldehyde
- o-Tolualdehyde
- m-Tolualdehyde
- p-Tolualdehyde
- Valeraldehyde

UCC8315-1N Neat compounds of each of the above - (20 component kit)
UCC8315-1S 5mL Solutions of each, in the appropriate solvent - (20 component kit)

NOTE: Formaldehyde (F2328), is supplied only in water solution

DERIVATIZED CARBONYL COMPOUNDS
EPA METHOD 8315/8315A

- Acetaldehyde (DNPH Derivative)
- Acetone (DNPH Derivative)
- Acrolein (DNPH Derivative)
- Benzaldehyde (DNPH Derivative)
- n-Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Cyclohexanone (DNPH Derivative)
- Decyl aldehyde (DNPH Derivative)
- 2,5-Dimethylbenzaldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Heptaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Isovaleraldehyde (DNPH Derivative)
- Nonanal (DNPH Derivative)
- Octyl aldehyde (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- o-Tolualdehyde (DNPH Derivative)
- m-Tolualdehyde (DNPH Derivative)
- p-Tolualdehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)

DCC8315-1N Neat compounds of each of the above - (20 component kit)
DCC8315-1S 5mL Solutions of each, 100ug/mL in Acetonitrile - (20 component kit)

DERIVATIZED CARBONYL COMPOUNDS MIXTURE (Option #1)
EPA METHOD 8315/8315A

- Acetaldehyde (DNPH Derivative)
- n-Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Cyclohexanone (DNPH Derivative)4
- Decyl aldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Heptaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Nonanal (DNPH Derivative)
- Octyl aldehyde (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)3

100ug/mL in Acetonitrile - (12 components)
DCC8315-1M **5mL Ampule**
DCC8315-1JM **1mL Ampule**

DERIVATIZED CARBONYL COMPOUNDS MIXTURE (Option #2)
EPA METHOD 8315/8315A

- Acetaldehyde (DNPH Derivative)
- Acetone (DNPH Derivative)
- Acrolein (DNPH Derivative)
- Benzaldehyde (DNPH Derivative)
- n-Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- 2,5-Dimethylbenzaldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Isovaleraldehyde (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- o-Tolualdehyde (DNPH Derivative)
- m-Tolualdehyde (DNPH Derivative)
- p-Tolualdehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)

100ug/mL in Acetonitrile - (15 components)
DCC8315-2M **5mL Ampule**
DCC8315-2JM **1mL Ampule**

CALIFORNIA AIR RESOURCE BOARD MIXTURE
EPA METHOD 8315/8315A

- Acetaldehyde (DNPH Derivative)
- Acetone (DNPH Derivative)
- Acrolein (DNPH Derivative)
- Benzaldehyde (DNPH Derivative)
- n-Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Methacrolein (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- m-Tolualdehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)
- 2-Butanone (DNPH Derivative)

3ug/mL in Acetonitrile - (13 components)
30ug/mL in Acetonitrile - (13 components)
DNPH-2AM 5mL
DNPH-2BM 5mL

EUROPEAN STANDARDS MIXTURE
EPA METHOD 8315/8315A

- Acetaldehyde (DNPH Derivative)
- Acetone (DNPH Derivative)
- Acrolein (DNPH Derivative)
- Benzaldehyde (DNPH Derivative)
- n-Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Methacrolein (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- m-Tolualdehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)
- 2-Butanone (DNPH Derivative)

EDNPH-1M 5mL
20ug/mL in Acetonitrile - (13 components)

METHOD 8316 – ACRYLAMIDE, ACRYLONITRILE & ACROLEIN

Method 8316 is applicable for determination of acrylamide, acrylonitrile, and acrolein by high performance liquid chromatography (HPLC).

ACRYLAMIDE, ACRYLONITRILE & ACROLEIN KITS
EPA METHOD 8316

- Acrolein
- Acrylonitrile
- Acrylamide

Neat compounds of each of the above - (3 component kit)
ALC8316-1N KIT

5mL Solutions of each, in the appropriate solvent - (3 component kit)
ALC8316-1S KIT

DERIVATIZING AGENT
EPA METHOD 8315/8315A, *554*

0-724 1g 2.4-Dinitrophenylhydrazine

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METHOD 8318 – n-METHYLCARBAMATES

Method 8318 is applicable for determination of n-Methylcarbamates by high performance liquid chromatography (HPLC). N-Methylcarbamates are extracted from aqueous samples with Methylene chloride, from soils, oily solid waste, and oils with acetonitrile. After separation, the target analytes are hydrolyzed and derivatized post-column, then quantified fluorometrically.

CARBAMATE PESTICIDES
EPA METHOD 8318, *531.1*

- Aldicarb
- Aldicarb sulfone
- Aldicarb sulfoxide
- Carbaryl
- Carbofuran
- 3-Hydroxycarbofuran
- Methiocarb
- Methomyl
- Oxamyl
- Propoxur
- Promecarb
- Dioxacarb

CP-8318N Neat compounds of each of the above - (12 component kit)
CP-8318S 5mL Solutions of each, in the appropriate solvent - (12 component kit)
CP-8318M Mixture at 100ug/mL in Acetonitrile, 5mL - (10 components)
CP-8318JM Mixture at 100ug/mL in Acetonitrile, 1mL Ampule - (10 components)
CP8318-2M Mixture at 1000ug/mL in Acetonitrile, 5mL Ampule - (10 components)
CP8318-2JM Mixture at 1000ug/mL in Acetonitrile, 1mL Ampule - (10 components)

NOTE: Dioxacarb and Promecarb are not included in CP-8318M & CP-8318JM. Aldicarb sulfoxide & Oxamyl are not included in CP8318-2M & CP8318-2JM.

LABORATORY PERFORMANCE CHECK MIXTURE
EPA METHOD 8318, *531.1*

1000ug/mL	Aldicarb sulfoxide
20ug/mL	3-Hydroxycarbofuran
200ug/mL	Methiocarb
100ug/mL	BDMC

Mixture in Acetonitrile - (4 components)
LPC-531M **5mL Ampule**
LPC-531JM **1mL Ampule**

INTERNAL STANDARDS
EPA METHOD 8318

F2054	100mg	BDMC	
F2054S	5mL	100ug/mL	Methanol (Ampule)
F2054JS	1mL	100ug/mL	Methanol (Ampule)

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METHOD 8321/8321A/8321B - ORGANOPHOSPHOROUS

Method 8321 is applicable to the determination, by high performance liquid chromatography (HPLC), coupled with either thermospray-mass spectrometry (TSP-MS), and/or ultraviolet (UV), of disperse azo dyes, organophosphorus compounds, and Tris-(2,3-dibromopropyl) phosphate, in wastewater, ground water, sludge, soil/sediment matrices, and chlorinated phenoxyacid compounds, and their esters. Quantitative analysis is performed by TSP/MS, using an external standard approach. Sample extracts can be analyzed by direct injection into the thermospray or onto a liquid chromatographic-thermospray interface. Note that detection is achieved both by negative ionization (discharge electrode) and positive ionization, with a single quadrupole mass spectrometer. Since this method is based on an HPLC technique, the use of ultraviolet (UV) detection is optional for routine samples.

MERPHOS CALIBRATION STANDARDS
EPA METHOD 8321, *507, 622, 1657, 8140/8141A*

F2214	1g	S.S.S-Tributylphosphorotrithioate	
F2214S	5mL	100ug/mL	tert-Butylmethyl ether
F2214JS	1mL	100ug/mL	tert-Butylmethyl ether

CHLORINATED HERBICIDES
EPA METHOD 8321, *1618, 8150B*

- 2,4-D
- 2,4-DB
- Silvex
- 2,4,5-T
- Dalapon
- Dicamba
- Dichlorprop
- Dinoseb
- 4-Chloro-o-tolyloxyacetic acid
- Mecoprop

CH-8150N Neat compounds of each of the above - (10 component kit)

CH-8150S 5mL Solutions of each, in the appropriate solvent - (10 component kit)

CH-8150M Mixture at 100ug/mL in Acetone, 5mL Ampule - (10 components)

CH-8150JM Mixture at 100ug/mL in Acetone, 1mL Ampule - (10 components)

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TUNING STANDARDS
EPA METHOD 8321

F2159	5g	PEG 400	
F2159S	5mL	100ul/mL	Methanol (Ampule)
F2159JS	1mL	100ul/mL	Methanol (Ampule)
F2160	5g	PEG 600	
F2160S	5mL	100ul/mL	Methanol (Ampule)
F2160JS	1mL	100ul/mL	Methanol (Ampule)

ALKALOIDS
METHOD 8321A/B

F2428	5g	Caffeine	
F2428AS	5mL	1000ug/mL	Acetonitrile (Ampule)
F2428AJS	1mL	1000ug/mL	Acetonitrile (Ampule)
F2135	100mg	Stychnine	
F2135AS	5mL	1000ug/mL	Acetonitrile (Ampule)
F2135AJS	1mL	1000ug/mL	Acetonitrile (Ampule)

INDIVIDUAL ESTER STANDARDS
EPA METHOD 8321

F2360	1g	2,4-D butoxyethyl ester	
F2360S	5mL	1000ug/mL	Acetonitrile (Ampule)
F2360JS	1mL	1000ug/mL	Acetonitrile (Ampule)
F2361	1g	2,4-D sec-butyl ester	
F2361S	5mL	1000ug/mL	Acetonitrile (Ampule)
F2361JS	1mL	1000ug/mL	Acetonitrile (Ampule)
F2362	1g	2,4,5-T butoxyethyl ester	
F2362S	5mL	1000ug/mL	Acetonitrile (Ampule)
F2362JS	1mL	1000ug/mL	Acetonitrile (Ampule)
F2363	100mg	2,4-D 2-ethylhexyl ester	
F2363S	5mL	1000ug/mL	Acetonitrile (Ampule)
F2363JS	1mL	1000ug/mL	Acetonitrile (Ampule)

METHOD 8325 – BENZIDINES & NITROGEN PESTICIDES

Method 8325 describes the use of high performance liquid chromatography (HPLC), coupled with particle beam (PB) mass spectrometry (MS), for the determination of the solvent extractable nonvolatile benzidines and nitrogen-containing pesticides in water and wastewater.

MS PERFORMANCE CHECK SOLUTION BENZIDINES AND NITROGEN-CONTAINING PESTICIDES

EPA METHOD 8325

F2456	100mg	Decafluorotriphenylphosphine oxide	
F2456S	5mL	100ug/ml	Acetonitrile
F2456JS	1mL	100ug/ml	Acetonitrile

SURROGATE SPIKING SOLUTIONS BENZIDINES AND NITROGEN-CONTAINING PESTICIDES

EPA METHOD 8325

		3,3′-Dichlorobenzidine-D_6
FD28S	1.2mL	1000ug/mL in Benzene
		Benzidine-D_8
F2455S	5mL	100ug/mL in Methanol
F2455JS	1mL	100ug/mL in Methanol
F2456	10mg	Decafluorotriphenylphosphine oxide

METHOD 8330 – NITROAROMATICS & NITRAMINES

Method 8330 is applicable for determination of nitroaromatics and nitramines by high performance liquid chromatography (HPLC). This method is intended for the trace analysis of explosive residues by high performance liquid chromatography using a UV detector. It provides for a salting-out extraction procedure for low concentration (parts per trillion or nanograms per liter) of explosive residues in surface or ground water.

NITROAROMATICS & NITRAMINES SOLUTIONS KIT

EPA METHOD 8330

- 2-Amino-4,6-dinitrotoluene Solution
- 4-Amino-2,6-dinitrotoluene Solution
- m-Dinitrobenzene Solution
- 2,4-Dinitrotoluene Solution
- 2,6-Dinitrotoluene Solution
- Hexahydro-1,3,5-trinitro-1,3,5-triazine (water added) Solution
- Nitrobenzene Solution
- o-Nitrotoluene Solution
- m-Nitrotoluene Solution
- p-Nitrotoluene Solution
- Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (water added) Solution
- Tetryl (water added) Solution
- 1,3,5-Trinitrobenzene Solution
- 2,4,6-Trinitrotoluene Solution

5mL Solutions of each, in the appropriate solvent - (14 component kit)
NN8330-1S KIT

Unless otherwise stated, for all the neat Standards Grade products, the purity has a deviation of +/- 0.5%, and for the solutions, the concentration has a deviation of +/- 5%. We guarantee our neats to be +/- 0.5% of the labeled purity. We guarantee our solutions to be +/- 5% of the labeled concentration. +/- 0.5% and +/- 5% are the uncertainties that have been assigned to the purity and concentration.

NITROAROMATICS & NITRAMINE INTERMEDIATE STANDARDS MIXTURE #1
EPA METHOD 8330

- m-Dinitrobenzene
- 2,4-Dinitrotoluene
- Hexahydro-1,3,5-trinitro-1,3,5-triazine (water added)
- Nitrobenzene
- Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (water added)
- 1,3,5-Trinitrobenzene
- 2,4,6-Trinitrotoluene- 30wt% water

1000ug/mL in Methanol:Acetonitrile (50:50) - (7 components)
NN8330-1M 5mL Ampule
NN8330-1JM 1mL Ampule

NITROAROMATICS & NITRAMINE INTERMEDIATE STANDARDS MIXTURE #2
EPA METHOD 8330

- 2,6-Dinitrotoluene
- o-Nitrotoluene
- m-Nitrotoluene
- p-Nitrotoluene
- Tetryl (water added)

1000ug/mL in Methanol:Acetonitrile (50:50) - (5 components)
NN8330-2M 5mL Ampule
NN8330-2JM 1mL Ampule

METHOD 8410 – SEMIVOLATILE ORGANICS

Method 8410 is applicable for determination of most extractable, semivolatile-organic compounds in wastewater, soils and sediments, and solid wastes utilizing capillary column - gas chromatography/Fourier transform infrared (GC/FT-IR). This method covers the automated identification, or compound class assignment, of unidentifiable compounds of solvent extractable semivolatile organic compounds, which are amenable to gas chromatography, by GC/FT-IR. GC/FT-IR can be a useful complement to GC/MS analysis (Method 8270). It is particularly well suited for the identification of specific isomers that are not differentiated using GC/MS.

INTERNAL STANDARDS

F78	1g	Anthracene	
F78S	5mL	100ug/mL	Toluene
F78JS	1mL	100ug/mL	Toluene
F43	1g	Bis(2-chloroethoxy) methane	
F43S	5mL	100ug/mL	Methanol
F43JS	1mL	100ug/mL	Methanol
F67	1g	Butyl benzyl phthalate	
F67S	5mL	100ug/mL	Hexane
F67JS	1mL	100ug/mL	Hexane
F24	5g	2-Chlorophenol	
F24S	5mL	100ug/mL	Methanol
F24JS	1mL	100ug/mL	Methanol
F31	5g	2.4-Dichlorophenol	
F31S	5mL	100ug/mL	Methanol
F31JS	1mL	100ug/mL	Methanol
F420	1g	1-Fluoronaphthalene	
F420S	5mL	100ug/mL	Methanol
F420JS	1mL	100ug/mL	Methanol
F81	1g	Phenanthrene	
F81S	5mL	100ug/mL	Toluene
F81JS	1mL	100ug/mL	Toluene
F65	5g	Phenol	
F65S	5mL	100ug/mL	Methanol
F65JS	1mL	100ug/mL	Methanol
F1064	500mg	p-Terphenyl	
F1064S	5mL	100ug/mL	Hexane
F1064JS	1mL	100ug/mL	Hexane

METHOD 1311 – DETERMINATION OF MOBILITY

Method 1311 is applicable for the determination of the mobility of both organic and inorganic analytes present in liquid, solid, and multiphasic wastes. Materials designated as toxic, based on the results of Method 1311 may not be disposed of in conventional landfills. This method will estimate the toxicity of solid waste materials under the leaching conditions found in a landfill. This method is utilized in combination with other methods in the SW-846 Methods for determining the presence and concentration of regulated compounds (specified in Title VIII and Title IX) in wastes.

ORGANICS

TCLP

- Benzene
- Carbon tetrachloride
- Chlordane
- Chlorobenzene
- Chloroform
- m-Cresol
- 2,4-D
- 1,4-Dichlorobenzene
- 1,2-Dichlorethane
- 1,1-Dichloroethylene
- 2,4-Dinitrotoluene
- Endrin
- Heptachlor
- Heptachlor epoxide
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachloroethane
- Lindane
- Methoxychlor
- Methyl ethyl ketone
- 2-Methylphenol
- 4-Methylphenol
- Nitrobenzene
- Pentachlorophenol
- Pyridine
- Tetrachloroethylene
- Toxaphene®
- Silvex
- Trichloroethylene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- Vinyl chloride Solution

TCLP-1N Neat compounds of each of the above - (32 component kit)
TCLP-1S 5mL Solutions of each, in the appropriate solvent - (32 component kit)

NOTE: Vinyl chloride is supplied in solution form only, but is included in the neat kit.

TCLP SEMIVOLATILES SPIKING MIXTURE

TCLP

- m-Cresol
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachloroethane
- 2-Methylphenol
- 4-Methylphenol
- Nitrobenzene
- Pentachlorophenol
- Pyridine
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

2000ug/mL in Acetone - (13 components)
TCLP-1SSM 5mL Ampule
TCLP-1SSJM 1mL Ampule

ACIDS MIXTURE

TCLP

- m-Cresol
- 2-Methylphenol
- 4-Methylphenol
- Pentachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

1000ug/mL in Methanol - (6 components)
TCLP-1AM 5mL Ampule
TCLP-1AJM 1mL Ampule

VOLATILES MIXTURE

TCLP

- Benzene
- 2-Butanone
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 1,4-Dichlorobenzene
- 1,2-Dichlorethane
- 1,1-Dichloroethene
- Tetrachloroethene
- Trichloroethene
- Vinyl chloride

1000ug/mL in Methanol:Water (90:10) - (11 components)
TCLP-1VM 5mL Ampule
TCLP-1VJM 1mL Ampule

BASE NEUTRALS MIXTURE

TCLP

- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachloroethane
- Nitrobenzene
- Pyridine

1000ug/mL in Acetone - (7 components)
TCLP-1BNM 5mL Ampule
TCLP-1BNJM 1mL Ampule

TOXAPHENE® & CHLORDANE KIT

TCLP

- Chlordane
- Toxaphene (TM)

Neat compounds of each of the above - (2 component kit)
PP-7N KIT

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S KIT

METHOD CLP – VOLATILES

The U.S. EPA Contract Laboratory Program (CLP) was developed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and under the 1986 Superfund Amendments and Reauthorization Act (SARA). The analytical methods were designed for identifying and quantifying the organic compounds on the EPA's Target Compound List (TLC) in ground water, sediment, and soil from abandoned hazardous waste sites.

The following Chem Service reference standards are prepared for analyzing the volatile compounds, semi-volatile compounds, as well as pesticide compounds included on the EPA Target Compound List. Chem Service is committed to providing you with the highest quality reference materials for the CLP methods, as well as to furnishing you with high quality standards documentation.

VOLATILE ORGANIC COMPOUNDS
CLP VOLATILES

- Acetone
- Benzene
- Bromodichloromethane
- Bromoform
- 2-Butanone
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane Solution
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- 2-Hexanone
- Methyl bromide Solution
- Methyl chloride Solution
- Methylene chloride
- 4-Methyl-2-pentanone
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- o-Xylene
- m-Xylene
- p-Xylene
- Vinyl chloride Solution

CLPVOL-1N Neat compounds of each of the above - (36 component kit)
CLPVOL-1S 5mL Solutions of each, in the appropriate solvent - (36 component kit)

NOTE: Chloroethane, Methyl bromide, Methyl chloride and Vinyl chloride are supplied as solutions only, but are included in the neat kit.

CLP VOLATILES MIXTURE #2
CLP VOLATILES

- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorodibromomethane
- Chloroform
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane

2000ug/mL in Methanol - (12 components)
CLPVOL-2M **5mL Ampule**
CLPVOL-2JM **1mL Ampule**

CLP VOLATILES MIXTURES KIT
CLP VOLATILES

CLPVOL-2M CLP Volatiles Mixture #2
CLPVOL-3M CLP Volatiles Mixture #3
CLPVOL-1GM CLP Volatiles TLC Gases Mixture
HSL-2M Hazardous Substance List Volatile Standards Mixture

5mL of each, in the appropriate solvent - (4 component kit)
MMCLPVOL-4 **KIT**

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CLP VOLATILES MIXTURE #3
CLP VOLATILES

- Benzene
- Chlorobenzene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- trans-1,3-Dichloropropene
- Ethylbenzene
- Tetrachloroethene
- Toluene
- Trichloroethene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (13 components)
CLPVOL-3M **5mL Ampule**
CLPVOL-3JM **1mL Ampule**

CLP VOLATILES TLC GASES MIXTURE
CLP VOLATILES

- Chloroethane
- Methyl bromide
- Methyl chloride
- Vinyl chloride

2000ug/mL in Methanol - (4 components)
CLPVOL-1GM **5mL Ampule**
CLPVOL-1GJM **1mL Ampule**

CLP VOLATILES TLC GASES MIXTURE
CLP VOLATILES

- Methyl bromide
- Chloroethane
- Methyl chloride
- Vinyl chloride

200ug/mL in Methanol - (4 components)
PPW-24CM **5mL Ampule**
PPW-24CJM **1mL Ampule**

BTEX & MTBE KITS AND MIXTURE
CLP VOLATILES

- Benzene
- Ethylbenzene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene
- tert-Butyl methyl ether

Neat compounds of each of the above - (7 component kit)
MBTEX-1N KIT

5mL Solutions of each, in the appropriate solvent - (7 component kit)
MBTEX-1S KIT

1000ug/mL in Methanol - (7 components)
MBTEX-2M 5mL Ampule
MBTEX-2JM 1mL Ampule

2000ug/mL in Methanol - (7 components)
MBTEX-1M 5mL Ampule
MBTEX-1JM 1mL Ampule

BTEX MIXTURES
CLP VOLATILES

- Benzene
- Toluene
- Ethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

200ug/mL in Methanol - (6 components)
BTEX-1M 5mL Ampule
BTEX-1JM 1mL Ampule

2000ug/mL in Methanol - (6 components)
BTEX-2M 5mL Ampule
BTEX-2JM 1mL Ampule

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILES STANDARD MIXTURE
CLP VOLATILES

- Acetone
- 2-Butanone
- Carbon disulfide
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- o-Xylene

200ug/mL in Methanol:Water (90:10) - (7 components)
HSL-1M 5mL Ampule
HSL-1JM 1mL Ampule

2000ug/mL in Methanol:Water (90:10) - (7 components)
HSL-2M 5mL Ampule
HSL-2JM 1mL Ampule

PURGEABLES SURROGATE STANDARDS MIXTURES
CLP VOLATILES

- 4-Bromofluorobenzene
- 1,2-Dichloroethane-d_4
- Toluene-d_8

250ug/mL in Methanol - (3 components)
CLP-3M 5mL Ampule
CLP-3JM 1mL Ampule

2500ug/mL in Methanol - (3 components)
CLP-3AM 5mL Ampule
CLP-3AJM 1mL Ampule

PURGEABLES INTERNAL STANDARDS MIXTURES
CLP VOLATILES

- Bromochloromethane
- Chlorobenzene-d_5
- 1,4-Difluorobenzene

1000ug/mL in Methanol - (3 components)
CLP-4M 5mL Ampule
CLP-4JM 1mL Ampule

2500ug/mL in Methanol - (3 components)
CLP-4AM 5mL Ampule
CLP-4AJM 1mL Ampule

PURGEABLES MATRIX SPIKING MIXTURES
CLP VOLATILES

- Benzene
- Chlorobenzene
- 1,1-Dichloroethene
- Toluene
- Trichloroethene

1000ug/mL in Methanol - (5 components)
CLP-5M 5mL Ampule
CLP-5JM 1mL Ampule

VOLATILES SYSTEM PERFORMANCE MIXTURE
CLP VOLATILES

- Chlorobenzene
- Bromoform
- 1,1-Dichloroethane
- 1,1,2,2-Tetrachloroethane
- Methyl Chloride

2000ug/mL in Methanol - (5 components)
CLP-6M 5mL Ampule
CLP-6JM 1mL Ampule

VOLATILES CALIBRATION CHECK MIXTURE
CLP VOLATILES

- Chloroform
- 1,2-Dichloropropane
- 1,1-Dichloroethene
- Ethylbenzene
- Toluene
- Vinyl Chloride

2000ug/mL in Methanol - (6 components)
CLP-7M 5mL Ampule
CLP-7JM 1mL Ampule

COMBINED PURGEABLE INTERNAL & SURROGATE STANDARDS MIXTURE
CLP VOLATILES

- Bromochloromethane
- Chlorobenzene-d_5
- 1,4-Difluorobenzene
- 4-Bromofluorobenzene
- 1,2-Dichloroethane-d_4
- Toluene-d_8

2500ug/mL in Methanol - (6 components)
CPIS-1M 5mL Ampule
CPIS-1JM 1mL Ampule

TCL KETONES MIXTURE
CLP VOLATILES

- Acetone
- 2-Butanone
- 2-Hexanone
- 4-Methyl-2-pentanone

2000ug/mL in Methanol:Water (90:10) - (4 components)
TCL-1AM 5mL Ampule
TCL-1AJM 1mL Ampule

INSTRUMENT PERFORMANCE CHECK STANDARDS
CLP VOLATILES

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
CLP VOLATILES

F206	2g	Bromochloromethane	
F206S	5mL	100ug/mL	Methanol (Ampule)
F206JS	1mL	100ug/mL	Methanol (Ampule)
F206AS	5mL	2000ug/mL	Methanol (Ampule)
F206AJS	1mL	2000ug/mL	Methanol (Ampule)
F206BS	5mL	20,000ug/mL	Methanol (Ampule)
F206BJS	1mL	20,000ug/mL	Methanol (Ampule)

F1088	100mg	Chlorobenzene-d_5	
F1088S	5mL	100ug/mL	Methanol
F1088JS	1mL	100ug/mL	Methanol (Ampule)
F837	100mg	1,4Difluorobenzene	
F837S	5mL	2000ug/mL	Methanol (Ampule)
F837JS	1mL	2000ug/mL	Methanol (Ampule)

SURROGATE STANDARDS
CLP VOLATILES

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)
F836	100mg	1,2-Dichloroethane-d_4 (Ampule)	
F836S	5mL	2000ug/mL	Methanol (Ampule)
F836JS	1mL	2000ug/mL	Methanol (Ampule)

F843	100mg	Toluene-d_8	
F843S	5mL	2000ug/mL	Methylene chloride (Ampule)
F843JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F843AS	5mL	2000ug/mL	Methanol
F843AJS	1mL	2000ug/mL	Methanol (Ampule)

TCL CALIBRATION STANDARDS
CLP VOLATILES

F705	5g	Carbon disulfide (Ampule)	
F705S	5mL	100ug/mL	Methanol (Ampule)
F705JS	1mL	100ug/mL	Methanol (Ampule)
F705AS	5mL	100ug/mL	Hexane (Ampule)
F705AJS	1mL	100ug/mL	Hexane (Ampule)

F718	5g	Vinyl acetate	
F718S	5mL	2000ug/mL	Acetonitrile (Ampule)
F718JS	1mL	2000ug/mL	Acetonitrile (Ampule)

METHOD CLP – SEMIVOLATILES

SEMIVOLATILE ORGANIC COMPOUNDS
CLP SEMIVOLATILES

- Acenaphthene
- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Bis(2-chloroethoxy)methane
- Bis(2-chloroethyl)ether
- Bis(2-chloroisopropyl)ether
- Bis(2-ethylhexyl)phthalate
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- Carbazole
- 4-Chloroaniline
- 4-Chloro-3-methylphenol
- 2-Chloronaphthalene
- 2-Chlorophenol
- 4-Chlorophenyl phenyl ether
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Dibenzofuran
- Di-n-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 3,3-Dichlorobenzidine
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- Diethyl phthalate
- Dimethyl phthalate
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-n-octyl phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno(1,2,3-C,D)pyrene
- Isophorone
- 2-Methylnaphthalene
- 2-Methylphenol
- 4-Methylphenol
- Naphthalene
- o-Nitroaniline
- m-Nitroaniline
- p-Nitroaniline
- Nitrobenzene
- 2-Nitrophenol
- 4-Nitrophenol
- N-Nitrosodiphenylamine
- N-Nitrosodi-n-propylamine
- Pentachlorophenol
- Phenanthrene
- Phenol
- Pyrene
- 1,2,4-Trichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

CLPSEM-1N Neat compounds of each of the above - (64 component kit)
CLPSEM-1S 5mL Solutions of each, in the appropriate solvent - (64 component kit)

ON-GOING STABILITY STUDIES

Chem Service is committed to providing our customers with high quality analytical materials. As part of our quality program, our Standards Grade materials have on-going, lot-specific testing. The testing program for all Standards Grade materials will certify the standard for purity, identity, concentration, and stability. Subsequently, through on-going testing, our Standards Grade material is tested to ensure that it has maintained the certified quality. If we detect a purity or stability problem during the on-going testing, which will affect the expiration date of a Standard's Grade material, rest assured, we will alert our customers and offer a replacement.

ACIDS MIXTURE
CLP SEMIVOLATILES

- Benzoic acid
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol (min 15wt% water)
- 2-Methylphenol
- 4-Methylphenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,6-Dichlorophenol
- 2,3,4,6-Tetrachlorophenol

1000ug/mL in Methylene chloride - (17 components)
CLPSEM-1AM **5mL Ampule**
CLPSEM-1AJM **1mL Ampule**

BASE NEUTRALS EXTRACTABLES MIXTURE
CLP SEMIVOLITILES

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Bis(2-chloroethyl)ether
- Bis(2-chloroethoxy)methane
- Bis(2-ethylhexyl)phthalate
- Bis(2-chloro-1-methylethyl) ether
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Di-n-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-n-octyl phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno(1,2,3-C,D)pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosodiphenylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene

1000ug/mL in Benzene:Methylene chloride:Acetonitrile (4:4:2) - (44 components)
BN625-1M **5mL Ampule**
BN625-1JM **1mL Ampule**

MIXTURE #1 - BASE NEUTRALS
CLP SEMIVOLATILES

- Bis(2-chloroethoxy)methane
- Bis(2-chloro-1-methylethyl) ether
- 4-Chlorophenyl phenyl ether
- Di-n-butyl phthalate
- N-Nitrosodi-n-propylamine
- Bis(2-chloroethyl)ether
- 4-Bromophenyl phenyl ether
- Diethyl phthalate
- Di-n-octyl phthalate
- N-Nitrosodiphenylamine
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Dimethyl phthalate
- N-Nitrosodimethylamine

2000ug/mL in Methylene chloride - (14 components)
PP-HC1 **5mL Ampule**
PP-HC1JM **1mL Ampule**

MIXTURE #2 - BASE NEUTRALS
CLP SEMIVOLATILES

- Azobenzene
- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Hexachlorobenzene
- Hexachloro-1,3-butadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Isophorone
- Nitrobenzene
- 1,2,4-Trichlorobenzene

2000ug/mL in Methylene chloride - (14 components)
PP-HC2 **5mL Ampule**
PP-HC2JM **1mL Ampule**

MIXTURE #3 - HAZARDOUS SUBSTANCES
CLP SEMIVOLATILES

- Benzoic acid
- 2-Methylphenol
- 4-Methylphenol
- 2,4,5-Trichlorophenol

2000ug/mL in Methylene chloride - (4 components)
PP-HC3 **5mL Ampule**
PP-HC3JM **1mL Ampule**

MIXTURE #4 - HAZARDOUS SUBSTANCES
CLP SEMIVOLATILES

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- o-Nitroaniline
- m-Nitroaniline
- p-Nitroaniline

2000ug/mL in Methylene chloride - (8 components)
PP-HC4 **5mL Ampule**
PP-HC4JM **1mL Ampule**

MIXTURE #5 - PESTICIDES
CLP SEMIVOLATILES

- Aldrin®
- 4,4′-DDD
- a-Endosulfan
- Endrin aldehyde
- BHC (alpha isomer)
- 4,4′-DDE
- b-Endosulfan
- Heptachlor
- BHC (beta isomer)
- 4,4′-DDT
- Endosulfan sulfate
- Heptachlor epoxide (Isomer B)
- BHC (delta isomer)
- Dieldrin
- Endrin
- Lindane (BHC gamma isomer)

2000ug/mL in Toluene:Hexane (50:50) - (16 components)
PP-HC5 **5mL Ampule**
PP-HC5JM **1mL Ampule**

MIXTURE #6 - POLYNUCLEAR AROMATIC HYDROCARBONS
CLP SEMIVOLATILES

- Acenaphthene
- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- 1,12-Benzoperylene
- Benzo(k)fluoranthene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-C,D)pyrene
- Naphthalene
- Phenanthrene
- Pyrene

2000ug/mL in Methylene chloride:Benzene (50:50) - (16 components)
PP-HC6 **5mL Ampule**
PP-HC6JM **1mL Ampule**

MIXTURE #7 - BENZIDINES
CLP SEMIVOLITILES

- Benzidine
- 3,3′-Dichlorobenzidine

2000ug/mL in Methanol - (2 components)
PP-HC7 **5mL Ampule**
PP-HC7JM **1mL Ampule**

MIXTURE #8 - INTERNAL STANDARDS
CLP SEMIVOLATILES

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

4000ug/mL in Methylene chloride - (6 components)
PP-HC8JM **1mL Ampule**

MIXTURE #9 - PHENOLS
CLP SEMIVOLATILES

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

2000ug/mL in Methylene chloride - (11 components)
PP-HC9 **5mL Ampule**
PP-HC9JM **1mL Ampule**

BASE NEUTRALS EXTRACTABLES MIXTURES KIT (BN625-1M & PP-HC7)
CLP SEMIVOLATILES

- Base Neutrals Extractables Mixture - 625
- Mixture #7-Benzidines

5mL of each, in the appropriate solvent - (2 component kit)
MMBN625PP7-2 **KIT**

SEMI-VOLATILES SUPPLEMENT MIXTURE
CLP SEMIVOLATILES

- Aniline
- Benzyl alcohol
- Carbazole
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- m-Nitroaniline
- o-Nitroaniline
- p-Nitroaniline
- Pyridine

1000ug/mL in Methylene chloride - (10 components)
CLPSEM-1XM **5mL Ampule**
CLPSEM-1XJM **1mL Ampule**

SEMI-VOLATILES MIXTURES KIT
CLP SEMIVOLATILES

BN625-1M	Base Neutrals Extractables Mixture
CLPSEM-1AM	Acids Mixture
CLPSEM-1XM	Semi-Volatiles Supplement Mixture
PP-HC7	Mixture #7 - Benzidines

5mL of each, in the appropriate solvent - (4 component kit)
MMCLPSEM-3 **KIT**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

ACIDS SURROGATE STANDARDS MIXTURES
CLP SEMIVOLATILES

- 2-Fluorophenol
- Phenol-d_6
- 2,4,6-Tribromophenol

10,000ug/mL in Methanol - (3 components)
CLPH-1M 5mL Ampule
CLPH-1JM 1mL Ampule

BASE NEUTRALS SURROGATE STANDARDS MIXTURES
CLP SEMIVOLATILES

- 2-Fluorobiphenyl
- p-Terphenyl-d_{14}
- Nitrobenzene-d_5

1000ug/mL in Methylene chloride - (3 components)
CLP-2M 5mL Ampule
CLP-2JM 1mL Ampule

5000ug/mL in Methylene chloride - (3 components)
CLPH-2M 5mL Ampule
CLPH-2JM 1mL Ampule

ACIDS MATRIX SPIKING MIXTURES
CLP SEMIVOLATILES

- 4-Chloro-3-methylphenol
- Pentachlorophenol
- 2-Chlorophenol
- Phenol
- 4-Nitrophenol

2000ug/mL in Methanol - (5 components)
SAS-1M 5mL Ampule
SAS-1JM 1mL Ampule

10,000ug/mL in Methanol - (5 components)
SASH-1M 5mL Ampule
SASH-1JM 1mL Ampule

COMPLETE KIT (HC1-HC9)
CLP SEMIVOLATILES

PP-HC1	Mixture #1-Base Neutrals
PP-HC2	Mixture #2-Base Neutrals
PP-HC3	Mixture #3-Hazardous Substances
PP-HC4	Mixture #4-Hazardous Substances
PP-HC5	Mixture #5-Pesticides
PP-HC6	Mixture #6-Polynuclear Aromatic Hydrocarbons
PP-HC7	Mixture #7-Benzidines
PP-HC8JM	Mixture #8-Internal Standards
PP-HC9	Mixture #9-Phenols

5mL of each, in the appropriate solvent - (9 component kit)
PP-HC10 KIT

NOTE: PP-HC8JM is supplied in a 1mL ampule.

SYSTEM PERFORMANCE CHECK MIXTURE
CLP SEMIVOLATILES

- 2,4-Dinitrophenol (min 15wt% water)
- Hexachlorocyclopentadiene
- 4-Nitrophenol
- N-Nitrosodi-n-propylamine

1000ug/mL in Methanol - (4 components)
CLP-9M 5mL Ampule
CLP-9JM 1mL Ampule

ACIDS CALIBRATION CHECK MIXTURE
CLP SEMIVOLATILES

- 4-Chloro-3-methylphenol
- Pentachlorophenol
- 2,4-Dichlorophenol
- Phenol
- 2-Nitrophenol
- 2,4,6-Trichlorophenol

2000ug/mL in Methanol - (6 components)
CLP-12M 5mL Ampule
CLP-12JM 1mL Ampule

BASE NEUTRALS CALIBRATION CHECK MIXTURE
CLP SEMIVOLATILES

- Acenaphthene
- Fluoranthene
- Benzo(a)pyrene
- Hexachloro-1.3-butadiene
- 1,4-Dichlorobenzene
- N-Nitrosodiphenylamine
- Di-n-octyl phthalate

2000ug/mL in Methylene chloride - (7 components)
CLP-13M 5mL Ampule
CLP-13JM 1mL Ampule

GPC CALIBRATION CHECK MIXTURE
CLP SEMIVOLATILES

500ug/mL	Bis(2-ethylhexyl)phthalate
25,000ug/mL	Corn oil
100ug/mL	Methoxychlor
20ug/mL	Perylene
80ug/mL	Sulfur-Sublimed

Mixture in Methylene chloride - (5 components)
CLP-14M 5mL Ampule
CLP-14JM 1mL Ampule

BASE NEUTRALS SURROGATE STANDARDS MIXTURES
CLP SEMIVOLATILES

- 1,2-Dichlorobenzene-d_4
- Nitrobenzene-d_5
- 2-Fluorobiphenyl
- p-Terphenyl-d_{14}

1000ug/mL in Methylene chloride - (4 components)
CLP-2AM 5mL Ampule
CLP-2AJM 1mL Ampule

BASE NEUTRALS SPIKING MIXTURE
CLP SEMIVOLATILES

- Acenaphthene
- N-Nitrosodi-n-propylamine
- Di-n-butyl phthalate
- Pyrene
- 1,4-Dichlorobenzene
- 1,2,4-Trichlorobenzene
- 2,4-Dinitrotoluene

1000ug/mL in Methylene chloride - (7 components)
SBNS-1M 5mL Ampule
SBNS-1JM 1mL Ampule

BASE NEUTRALS MATRIX SPIKING MIXTURES #A
CLP SEMIVOLATILES

- Acenaphthene
- N-Nitrosodi-n-propylamine
- 1,4-Dichlorobenzene
- Pyrene
- 2,4-Dinitrotoluene
- 1,2,4-Trichlorobenzene

1000ug/mL in Methylene chloride - (6 components)
BNMS-1M 5mL Ampule
BNMS-1JM 1mL Ampule

5000ug/mL in Methylene chloride - (6 components)
BNMSH-1M 5mL Ampule
BNMSH-1JM 1mL Ampule

COMBINED SURROGATE STANDARDS SPIKING MIXTURE
CLP SEMIVOLATILES

1500ug/mL	2-Chlorophenol (ring-d4)
1000ug/mL	1,2-Dichlorobenzene-d_4
1000ug/mL	2-Fluorobiphenyl
1500ug/mL	2-Fluorophenol
1500ug/mL	Phenol-d_6
1000ug/mL	Nitrobenzene-d_5
1000ug/mL	p-Terphenyl-d_{14}
1500ug/mL	2,4,6-Tribromophenol

Mixture in Methylene chloride - (8 components)
SSCLP-1JM **1mL Ampule**

1500ug/mL in Methylene chloride - (8 components)
SSCLP-1M **5mL Ampule**

COMBINED SURROGATE STANDARDS MIXTURE
CLP SEMIVOLATILES

2000ug/mL	2-Fluorophenol
2000ug/mL	Phenol-d_6
2000ug/mL	2,4,6-Tribromophenol
1000ug/mL	2-Fluorobiphenyl
1000ug/mL	Nitrobenzene-d_5
1000ug/mL	p-Terphenyl-d_{14}

Mixture in Methylene chloride - (6 components)
CSS8250-1M **5mL Ampule**
CSS8250-1JM **1mL Ampule**

COMBINED ACIDS & BASE NEUTRALS MATRIX SPIKING MIXTURE
CLP SEMIVOLATILES

1000ug/mL	Acenaphthene
1500ug/mL	4-Chloro-3-methylphenol
1500ug/mL	2-Chlorophenol
1000ug/mL	1.4-Dichlorobenzene
1000ug/mL	2.4-Dinitrotoluene
1500ug/mL	4-Nitrophenol
1000ug/mL	N-Nitrosodi-n-propylamine
1500ug/mL	Pentachlorophenol
1500ug/mL	Phenol
1000ug/mL	Pyrene
1000ug/mL	1,2,4-Trichlorobenzene

Mixture in Methylene chloride - (11 components)
CMSCLP-1M **5mL Ampule**
CMSCLP-1JM **1mL Ampule**

SPECIAL COMBINED MATRIX SPIKING MIXTURE
CLP SEMIVOLATILES

1000ug/mL	Acenaphthene
2000ug/mL	4-Chloro-3-methylphenol
2000ug/mL	2-Chlorophenol
1000ug/mL	1,4-Dichlorobenzene
1000ug/mL	2,4-Dinitrotoluene
2000ug/mL	4-Nitrophenol
1000ug/mL	N-Nitrosodi-n-propylamine
2000ug/mL	Pentachlorophenol
2000ug/mL	Phenol
1000ug/mL	Pyrene
1000ug/mL	1,2,4-Trichlorobenzene

Mixture in Methylene chloride - (11 components)
CRCLPS-1M **5mL Ampule**
CRCLPS-1JM **1mL Ampule**

SURROGATE STANDARDS
CLP SEMIVOLATILES

F944	10mg	2-Chlorophenol (ring-d4)	
F944S	5mL	100ug/mL	Methanol
F944JS	1mL	100ug/mL	Methanol (Ampule)
F835	100mg	1,2-Dichlorobenzene-d_4	
F835S	5mL	2000ug/mL	Methanol
F835JS	1mL	2000ug/mL	Methanol (Ampule)
F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F430	1g	2-Fluorophenol	
F430AS	5mL	2000ug/mL	Methanol
F430AJS	1mL	2000ug/mL	Methanol (Ampule)
F320	1g	Nitrobenzene-d_5 (Ampule)	
F320S	5mL	2000ug/mL	Methanol
F320JS	1mL	2000ug/mL	Methanol (Ampule)
F330	100mg	Phenol-d_6	
F330S	5mL	2000ug/mL	Methanol
F330JS	1mL	2000ug/mL	Methanol (Ampule)
F842	50mg	p-Terphenyl-d_{14}	
F842S	5mL	2000ug/mL	Methylene chloride (Ampule)
F842JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F844	5g	2,4,6-Tribromophenol	
F844S	5mL	2000ug/mL	Methylene chloride (Ampule)
F844JS	1mL	2000ug/mL	Methylene chloride (Ampule)

INSTRUMENT PERFORMANCE CHECK STANDARDS
CLP SEMIVOLATILES

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)

TUNING STANDARDS
CLP SEMIVOLATILES

F5	250mg	Benzidine	
F5S	5mL	100ug/mL	Ethanol
F5JS	1mL	100ug/mL	Ethanol
F834	10mg	Decafluorotriphenylphosphine	
F834S	5mL	2000ug/mL	Methylene chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F92	1g	4,4'-DDT	
F92S	5mL	100ug/mL	Hexane (Ampule)
F92JS	1mL	100ug/mL	Hexane (Ampule)
F64	1g	Pentachlorophenol	
F64S	5mL	100ug/mL	Methanol (Ampule)
F64JS	1mL	100ug/mL	Methanol (Ampule)

TUNING STANDARDS MIXTURE
CLP SEMIVOLATILES

- Benzidine
- 4,4'-DDT
- Decafluorotriphenylphosphine
- Pentachlorophenol

1000ug/mL in Methylene chloride - (4 components)
CLP-TS1M **5mL Ampule**
CLP-TS1JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

PESTICIDE & PCB COMPOUNDS
CLP PESTICIDES

- Aldrin®
- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- cis-Chlordane
- trans-Chlordane
- 4,4′-DDE
- 4,4′-DDD
- 4,4′-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- Heptachlor
- Heptachlor epoxide (Isomer B)
- Lindane (BHC gamma isomer)
- Methoxychlor
- Toxaphene®

CLPPES-1N Neat compounds of each of the above - (28 component kit)
CLPPES-1S 5mL Solutions of each, in the appropriate solvent - (28 component kit)

AROCHLOR 1016 & AROCHLOR 1260 MIXTURE
CLP PESTICIDES

- Arochlor 1016
- Arochlor 1260

200ug/mL in Hexane - (2 components)
CSM-CLPPM **5mL Ampule**
CSM-CLPPJM **1mL Ampule**

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
CLP PESTICIDES

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene (TM) Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S **KIT**

DEGRADATION CALIBRATION MIXTURE
CLP PESTICIDES

100ug/ml	Endrin
200ug/ml	4,4′-DDT

Mixture in tert-Butylmethyl ether - (2 components)
DC-508M **5mL Ampule**
DC-508JM **1mL Ampule**

DEGRADATION PRODUCTS MIXTURE
CLP PESTICIDES

100ug/ml	Endrin aldehyde
100ug/ml	Endrin ketone
200ug/ml	4,4′-DDE
200ug/ml	4,4′-DDD

Mixture in tert-Butylmethyl ether - (4 components)
DP508-1M **5mL Ampule**
DP508-1JM **1mL Ampule**

GPC CALIBRATION CHECK MIXTURE
CLP PESTICIDES

500ug/mL	Bis(2-ethylhexyl)phthalate
25,000ug/mL	Corn oil
100ug/mL	Methoxychlor
20ug/mL	Perylene
80ug/mL	Sulfur-Sublimed

Mixture in Methylene chloride - (5 components)
CLP-14M **5mL Ampule**
CLP-14JM **1mL Ampule**

PESTICIDES RESOLUTION CHECK MIXTURE
CLP PESTICIDES

10ug/mL	Chlordane
20ug/mL	4,4′-DDE
20ug/mL	Dieldrin
10ug/mL	Endosulfan I
20ug/mL	Endosulfan sulfate
20ug/mL	Endrin ketone
100ug/mL	Methoxychlor
20ug/mL	Decachlorobiphenyl
20ug/mL	2,4,5,6-Tetrachloro-m-xylene

Mixture in Hexane - (9 components)
CS-CLP-1 **1mL Ampule**

PESTICIDES PERFORMANCE EVALUATION MIXTURE
CLP PESTICIDES

10ug/mL	a-BHC
10ug/mL	b-BHC
10ug/mL	Lindane
100ug/mL	4,4-DDT
50ug/mL	Endrin
250ug/mL	Methoxychlor
20ug/mL	Decachlorobiphenyl
20ug/mL	2,4,5,6-Tetrachloro-m-xylene

Mixture in Hexane - (8 components)
CS-CLP-2 **1mL Ampule**

PESTICIDES PERFORMANCE EVALUATION MIXTURE
CLP PESTICIDES

50ug/mL	Aldrin
50ug/mL	Lindane
100ug/mL	Dieldrin
100ug/mL	4,4-DDT
100ug/mL	Endrin
50ug/mL	Heptachlor

Mixture in Methanol - (6 components)
CS-CLP-3 **1mL Ampule**

PESTICIDES PERFORMANCE EVALUATION MIXTURE
CLP PESTICIDES

1ug/mL	Aldrin
2ug/mL	4,4-DDT
2ug/mL	Endrin
1ug/mL	Dibutyl chlorendate

Mixture in Isooctane - (4 components)
CS-CLP-4 **1mL Ampule**

PESTICIDES STANDARD MIXTURE A
CLP PESTICIDES

100ug/mL	BHC (alpha isomer)
200ug/mL	4,4'-DDD
200ug/mL	4,4'-DDT
200ug/mL	Decachlorobiphenyl
200ug/mL	Dieldrin
100ug/mL	a-Endosulfan
200ug/mL	Endrin
100ug/mL	Heptachlor
100ug/mL	Lindane (BHC gamma isomer)
1000ug/mL	Methoxychlor
100ug/mL	2,4,5,6-Tetrachloro-m-xylene

Mixture in Hexane - (11 components)
CLP-18M **5mL Ampule**
CLP-18JM **1mL Ampule**

POLYCHLORINATED BIPHENYLS
CLP PESTICIDES

- Arochlor 1016
- Arochlor 1221
- Arochlor 1232
- Arochlor 1242
- Arochlor 1248
- Arochlor 1254
- Arochlor 1260

Neat compounds of each of the above - (7 component kit)
PP-8N **KIT**

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S **KIT**

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS **KIT**

SURROGATE STANDARDS MIXTURE #1
CLP PESTICIDES

- 2,4,5,6-Tetrachloro-m-xylene
- Decachlorobiphenyl

2000ug/mL in Toluene - (2 components)
SM-8080M **5mL Ampule**
SM-8080JM **1mL Ampule**

SURROGATE STANDARDS MIXTURE #2
CLP PESTICIDES

- Dibutyl chlorendate
- 2,4,5,6-Tetrachloro-m-xylene

2000ug/mL in Acetone - (2 components)
SM-8080AM **5mL Ampule**
SM-8080AJM **1mL Ampule**

TOXAPHENE® & CHLORDANE KIT
CLP PESTICIDES

- Chlordane
- Toxaphene (TM)

Neat compounds of each of the above - (2 component kit)
PP-7N **KIT**

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S **KIT**

FLORISIL CARTRIDGE CHECK STANDARDS
CLP PESTICIDES

F717	2g	2,4,5-Trichlorophenol	
F717S	5mL	100ug/mL	Methanol
F717JS	1mL	100ug/mL	Methanol (Ampule)
F717AS	5mL	100ug/mL	Hexane (Ampule)
F717AJS	1mL	100ug/mL	Hexane (Ampule)

SURROGATE STANDARDS
CLP PESTICIDES

F2170	10mg	Decachlorobiphenyl	
F2170S	5mL	1000ug/mL	Hexane (Ampule)
F2170JS	1mL	1000ug/mL	Hexane (Ampule)
F2170AS	5mL	100ug/mL	Hexane (Ampule)
F2170AJS	1mL	100ug/mL	Hexane (Ampule)
F2170BS	5mL	500ug/mL	Acetone (Ampule)
F2170BJS	1mL	500ug/mL	Acetone (Ampule)
F850	1g	Dibutyl chlorendate	
F850S	5mL	1000ug/mL	Methylene chloride (Ampule)
F850JS	1mL	1000ug/mL	Methylene chloride (Ampule)
F850AS	5mL	2000ug/mL	Acetone (Ampule)
F850AJS	1mL	2000ug/mL	Acetone (Ampule)
F903	100mg	2,4,5,6-Tetrachloro-m-xylene	
F903S	5mL	200ug/mL	Methanol (Ampule)
F903JS	1mL	200ug/mL	Methanol (Ampule)

EPA METHOD REQUEST FORM

Many of the following EPA mixtures are very similar. Chem Service prepares an excellent assortment of standards for these EPA methods. When seeking a particular mixture, please check to see if it is listed under a similar method. If you need a mixture which we have not yet catalogued, please use the custom solution and mixture form. Your request will be returned to you promptly.

ORGANOCHLORINE PESTICIDES
CLP PESTICIDES

- Aldrin
- Dieldrin
- Chlordane
- 4,4'-DDT
- 4,4'-DDE
- 4,4'-DDD
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (Isomer B)
- BHC (alpha isomer)
- BHC (beta isomer)
- Lindane (BHC gamma isomer)
- BHC (delta isomer)
- Arochlor 1242
- Arochlor 1254
- Arochlor 1221
- Arochlor 1232
- Arochlor 1248
- Arochlor 1260
- Arochlor 1016
- Toxaphene (TM)
- Methoxychlor

PPO-8N Neat compounds of each of the above - (26 component kit)
PPO-8S 5mL Solutions of each, in the appropriate solvent - (26 component kit)

PPO-8M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PPO-8JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

PP-HC5 Mixture at 2000ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (16 components)
PP-HC5JM Mixture at 2000ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (16 components)

OCP-8080M Mixture at 100ug/mL in Toluene:Hexane (50:50), 5mL Ampule - (17 components)
OCP-8080JM Mixture at 100ug/mL in Toluene:Hexane (50:50), 1mL Ampule - (17 components)

NOTE: PPO-8M, PPO-8JM, PP-HC5, PP-HC5JM, OCP-8080M, OCP-8080JM, OCP508-1M & OCP508-1JM do not contain the Arochlors, Chlordane or Toxaphene.

NOTE: PPO-8M, PPO-8JM, PP-HC5 and PP-HC5JM do not contain Methoxychlor.

NOTE: OCP508-1M, OCP508-1JM contain Endrin Ketone, cis-Chlordane and trans-Chlordane.

OCP508-1M Mixture at 1000ug/mL in tert-Butylmethyl ether, 5mL Ampule - (20 components)
OCP508-1JM Mixture at 1000ug/mL in tert-Butylmethyl ether, 1mL Ampule - (20 components)

NOTE: Inhibited with Hydroquinone

METHOD CLP – QTM VOLATILE

SYSTEM MONITORING COMPOUNDS
CLP QUICK TURNAROUND METHOD - VOLATILES

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol (Ampule)

METHOD CLP – QTM PAH

SYSTEM MONITORING COMPOUNDS
CLP QUICK TURNAROUND METHOD - PAH

F2437	500mg	2-Bromonaphthalene	
F2437S	5mL	2000ug/mL	Methanol
F2437JS	1mL	2000ug/mL	Methanol (Ampule)

TARGET COMPOUND
CLP QUICK TURNAROUND METHOD - VOLATILES

		Vinyl chloride	
F88S	5mL	100ug/mL	Methanol (Ampule)
F88JS	1mL	100ug/mL	Methanol (Ampule)
F88AS	5mL	2000ug/mL	Methanol (Ampule)
F88AJS	1mL	2000ug/mL	Methanol (Ampule)

POLYNUCLEAR AROMATIC HYDROCARBONS (PAH)
CLP QUICK TURNAROUND METHOD - PAH

- Acenaphthene
- Fluoranthene
- Naphthalene
- 1,2-Benzanthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Acenaphthylene
- Anthracene
- 1,12-Benzoperylene
- Fluorene
- Phenanthrene
- 1,2:5,6-Dibenzanthracene
- Indeno(1,2,3-C,D)pyrene
- Pyrene

PPH-10N Neat compounds of each of the above - (16 component kit)
PPH-10S 5mL Solutions of each, in the appropriate solvent - (16 component kit)

PPH-10M Mixture at 100ug/mL in Methanol, 5mL - (16 components)
PPH-10JM Mixture at 100ug/mL in Methanol, 1mL Ampule - (16 components)

PNA-550M Mixture at 200ug/mL in Acetonitrile, 5mL - (16 components)
PNA-550JM Mixture at 200ug/mL in Acetonitrile, 1mL Ampule - (16 components)

PP-HC6 Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 5mL Ampule - (16 components)
PP-HC6JM Mixture at 2000ug/mL in Methylene chloride:Benzene (50:50), 1mL Ampule - (16 components)

METHOD CLP – QTM PESTICIDES

ORGANOCHLORINE PESTICIDES MIXTURE
CLP QUICK TURNAROUND METHOD - PESTICIDES

- Aldrin
- BHC (alpha isomer)
- BHC (beta isomer)
- BHC (delta isomer)
- Lindane (BHC gamma isomer)
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- a-Endosulfan
- b-Endosulfan
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Methoxychlor
- Endrin ketone
- Heptachlor epoxide (Isomer B)
- cis-Chlordane
- trans-Chlordane

1000ug/mL in tert-Butylmethyl ether - (20 components)
OCP508-1M **5mL Ampule**
OCP508-1JM **1mL Ampule**

FLORISIL CARTRIDGE CHECK STANDARDS
CLP QUICK TURNAROUND METHOD - PESTICIDES

F717	2g	2,4,5-Trichlorophenol	
F717S	5mL	100ug/mL	Methanol
F717JS	1mL	100ug/mL	Methanol (Ampule)
F717AS	5mL	100ug/mL	Hexane (Ampule)
F717AJS	1mL	100ug/mL	Hexane (Ampule)

SYSTEM MONITORING COMPOUNDS
CLP QUICK TURNAROUND METHOD - PESTICIDES

F2170	10mg	Decachlorobiphenyl	
F2170S	5mL	1000ug/mL	Hexane (Ampule)
F2170JS	1mL	1000ug/mL	Hexane (Ampule)
F2170AS	5mL	100ug/mL	Hexane (Ampule)
F2170AJS	1mL	100ug/mL	Hexane (Ampule)
F2170BS	5mL	500ug/mL	Acetone (Ampule)
F2170BJS	1mL	500ug/mL	Acetone (Ampule)

METHOD CLP – QTM - PCB

TOXAPHENE® & CHLORDANE KIT
CLP QUICK TURNAROUND METHOD - PCB

- Chlordane
- Toxaphene (TM)

Neat compounds of each of the above - (2 component kit)
PP-7N **KIT**

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-7S **KIT**

POLYCHLORINATED BIPHENYLS
CLP QUICK TURNAROUND METHOD - PCB

- Arochlor 1016
- Arochlor 1232
- Arochlor 1248
- Arochlor 1260
- Arochlor 1221
- Arochlor 1242
- Arochlor 1254

Neat compounds of each of the above - (7 component kit)
PP-8N **KIT**

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S **KIT**

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS **KIT**

SYSTEM MONITORING COMPOUNDS
CLP QUICK TURNAROUND METHOD - PCB

F2170	10mg	Decachlorobiphenyl	
F2170S	5mL	1000ug/mL	Hexane (Ampule)
F2170JS	1mL	1000ug/mL	Hexane (Ampule)
F2170AS	5mL	100ug/mL	Hexane (Ampule)
F2170AJS	1mL	100ug/mL	Hexane (Ampule)
F2170BS	5mL	500ug/mL	Acetone (Ampule)
F2170BJS	1mL	500ug/mL	Acetone (Ampule)

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

ALDEHYDES & KETONES
EPA METHOD TO5

- Acetaldehyde
- Acetone
- Acrolein
- Benzaldehyde
- 2-Butanone
- Crotonaldehyde
- Formaldehyde (in water)
- Hexaldehyde
- Isobutyraldehyde
- Propionaldehyde
- o-Tolualdehyde
- m-Tolualdehyde
- p-Tolualdehyde
- Valeraldehyde

Neat compounds of each of the above - (14 component kit)
ATO-5N KIT

DERIVATIZED ALDEHYDE AND KETONE
EPA METHOD T05

- Acetaldehyde (DNPH Derivative)
- Acetone (DNPH Derivative)
- Acrolein (DNPH Derivatives)
- Benzaldehyde (DNPH Derivative)
- 2-Butanone (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Isobutyraldehyde (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- m-Tolualdehyde (DNPH Derivative)
- o-Tolualdehyde (DNPH Derivative)
- p-Tolualdehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)

Neat compounds of each of the above - (14 component kit)
ATOD-5N KIT

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
CLP QUICK TURNAROUND METHOD - PCB

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene (TM) Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

DERIVATIZED CARBONYL COMPOUNDS NEAT KIT
EPA METHOD TO5

- Acetaldehyde (DNPH Derivative)
- Acetone (DNPH Derivatives)
- Acrolein (DNPH Derivatives)
- Benzaldehyde (DNPH Derivative)
- Butyraldehyde (DNPH Derivative)
- Crotonaldehyde (DNPH Derivative)
- Cyclohexanone (DNPH Derivative)
- Decyl aldehyde (DNPH Derivative)
- 2,5-Dimethylbenzaldehyde (DNPH Derivative)
- Formaldehyde (DNPH Derivative)
- Hexaldehyde (DNPH Derivative)
- Heptaldehyde (DNPH Derivative)
- Isovaleraldehyde (DNPH Derivative)
- Nonanal (DNPH Derivative)
- Octyl aldehyde (DNPH Derivative)
- Valeraldehyde (DNPH Derivative)
- Propionaldehyde (DNPH Derivative)
- m-Tolualdehyde (DNPH Derivative)
- o-Tolualdehyde (DNPH Derivative)
- p-Tolualdehyde (DNPH Derivative)

Neat compounds of each of the above - (20 component kit)
DCC8315-1N KIT

5mL Solutions of each, 100ug/mL in Acetonitrile - (20 component kit)
DCC8315-1S KIT

DERIVATIZING AGENT
EPA METHOD T05

O-724	1g 10g	2,4-Dinitrophenylhydrazine (30% water added)

CALIBRATION STANDARD
EPA METHOD TO6

O-388	1g 5g	Carbanilide

TUNING STANDARD
EPA METHOD TO7

F2163	500mg	Perfluorotributylamine

PCDD'S
EPA METHOD TO9A

7860G	25mg	1,2,3,4-Tetrachlorodibenzo-p-dioxin
6690G	50mg	Octachlorodibenzo-p-dioxin
F114S	1mL	2,3,7,8-Tetrachlorodibenzo-p-dioxin 10ug/mL Toluene (Ampule)

SURROGATE STANDARDS
EPA METHOD TO13A

F904	1g	Decafluorobiphenyl	
F904S	5mL	2000ug/mL	Methylene chloride (Ampule)
F904JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F904AS	5mL	2000ug/mL	Acetonitrile (Ampule)
F904AJS	1mL	2000ug/mL	Acetonitrile (Ampule)
3542G	50mg	2,2'-Dibromobiphenyl	
F310	100mg	Naphthalene-d_8	
F310S	5mL	2000ug/mL	Isooctane (Ampule)
F310JS	1mL	2000ug/mL	Isooctane (Ampule)

TOTAL PETROLEUM HYDROCARBONS - TPH

PETROLEUM HYDROCARBONS REFERENCE OIL MIXTURE
EPA METHOD 418.1 (GRO/DRO)

F7	25.0 % v/v	Chlorobenzene
F2185	37.5 % v/v	n-Hexadecane
F2189	37.5 % v/v	2,2,4-Trimethylpentane

Mixture of each of the above - (3 component kit)
TPH418-1M **10mL**
TPH418-1JM **1mL**

OIL & GREASE SPIKING MIXTURE
TPH

F2185	2g	n-Hexadecane
F2568	2g	Stearic acid

4000ug/mL in Acetone - (2 components)
OG1664-1M **5mL Ampule**
OG1664-1JM **1mL Ampule**

PHYTANE STANDARD
TPH

F2526	50mg	Phytane

FREON 113 STANDARD
EPA METHOD 418.1

O-2269	5g	1,1,2-Trichlorotrifluoroethane
	10g	

N-NITROSODIMETHYLAMINE STANDARDS
EPA METHOD TO7

F61	250mg	N-Nitrosodimethylamine	
F61S	5mL	100ug/mL	Methanol (Ampule)
F61JS	1mL	100ug/mL	Methanol (Ampule)

FORMALDEHYDE STANDARD
EPA METHOD TO11

F2328	5g	Formaldehyde (in water)

DERIVATIZING AGENT
EPA METHOD TO11A

O-724	1g	2,4-Dinitrophenylhydrazine (30% water added)
	10g	

TUNING STANDARDS
EPA METHOD TO14A

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol (Ampule)
F833JS	1mL	2000ug/mL	Methanol (Ampule)

TUNING STANDARDS
EPA METHOD TO13A

F834	10mg	Decafluorotriphenyphosphine	
F834S	5mL	2000ug/mL	Methylene chloride (Ampule)
F834JS	1mL	2000ug/mL	Methylene chloride (Ampule)

BTEX MIXTURES
TPH

- Benzene
- m-Xylene
- o-Xylene
- Toluene
- Ethylbenzene
- p-Xylene

200ug/mL in Methanol - (6 components)
BTEX-1M **5mL Ampule**
BTEX-1JM **1mL Ampule**

2000ug/mL in Methanol - (6 components)
BTEX-2M **5mL Ampule**
BTEX-2JM **1mL Ampule**

PURGEABLE VOLATILE ORGANIC COMPOUNDS MIXTURE #1
TPH

- Benzene
- tert-Butylmethyl ether
- Ethylbenzene
- Toluene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene

1000ug/mL in Methanol - (8 components)
TPH-1M **5mL Ampule**
TPH-1JM **1mL Ampule**

REVISED PURGEABLE VOLATILE ORGANIC COMPOUNDS MIXTURE #1A (WISC)
TPH

- Benzene
- tert-Butyl methyl ether
- Ethylbenzene
- Naphthalene
- Toluene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- o-Xylene
- m-Xylene
- p-Xylene

1000ug/mL in Methanol - (10 components)
USTWI-1M **5mL Ampule**
USTWI-1JM **1mL Ampule**

2000ug/mL in Methanol - (10 components)
TPH-1AM **5mL Ampule**
TPH-1AJM **1mL Ampule**

GASOLINE RANGE ORGANICS MIXTURE #1
TPH

- Benzene
- Ethylbenzene
- 3-Methylpentane
- Naphthalene
- Toluene
- 1,2,4-Trimethylbenzene
- 2,2,4-Trimethylpentane
- o-Xylene
- m-Xylene

1000ug/mL in Methanol - (9 components)
TPH-3M 5mL Ampule
TPH-3JM 1mL Ampule

GASOLINE RANGE ORGANICS MIXTURE #2A
TPH

500ug/mL	Benzene
500ug/mL	Ethylbenzene
500ug/mL	n-Heptane
1500ug/mL	2-Methylpentane
1500ug/mL	Toluene
1000ug/mL	1,2,4-Trimethylbenzene
1500ug/mL	2,2,4-Trimethylpentane
1000ug/mL	o-Xylene
1000ug/mL	m-Xylene
1000ug/mL	p-Xylene

Mixture in Methanol - (10 components)
TPH-4AJM 1mL Ampule

DIESEL RANGE ORGANICS MIXTURE #1
TPH

- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)

2000ug/mL in Methylene chloride - (10 components)
TPH-5M 5mL Ampule
TPH-5JM 1mL Ampule

DIESEL RANGE ORGANICS MIXTURE #2
TPH

- n-Decane (C10)
- n-Undecane (C11)
- n-Dodecane (C12)
- n-Tridecane (C13)
- n-Tetradecane (C14)
- n-Pentadecane (C15)
- n-Hexadecane (C16)
- n-Heptadecane (C17)
- n-Octadecane (C18)
- n-Nonadecane (C19)
- n-Eicosane (C20)
- n-Heneicosane (C21)
- n-Docosane (C22)
- n-Tricosane (C23)
- n-Tetracosane (C24)
- n-Pentacosane (C25)

1000ug/mL in Methylene chloride - (16 components)
TPH-6M 5mL Ampule
TPH-6JM 1mL Ampule

HYDROCARBONS KIT #1
TPH

- n-Decane
- n-Dodecane
- n-Heptadecane
- n-Heptane
- n-Hexadecane
- n-Hexane
- n-Nonadecane
- n-Nonane
- n-Octadecane
- n-Pentadecane
- n-Pentane
- n-Octane
- n-Tetradecane
- n-Tridecane
- n-Undecane

Neat compounds of each of the above - (15 component kit)
Oh-21 KIT

HYDROCARBONS KIT #2
TPH

- n-Docosane
- n-Pentacosane
- n-Dotriacontane
- n-Triacontane
- n-Eicosane
- n-Tetracosane
- n-Heneicosane
- n-Tetratetracontane
- n-Hexacosane
- n-Tetratriacontane
- n-Hexatriacontane
- n-Tetracontane
- n-Octacosane
- n-Tricosane
- n-Octatriacontane

Neat compounds of each of the above - (15 component kit)
Oh-26 KIT

STRAIGHT CHAIN ALKANES KIT
TPH

- n-Decane
- n-Nonadecane
- n-Tetratetracontane
- n-Heptane
- n-Pentadecane
- n-Dodecane
- n-Octacosane
- n-Triacontane
- n-Hexadecane
- n-Tetracontane
- n-Eicosane
- n-Octane
- n-Tridecane
- n-Hexatriacontane
- n-Tetradecane
- n-Heptadecane
- n-Pentacosane
- n-Docosane
- n-Nonane
- n-Tetratriacontane
- n-Hexacosane
- n-Pentane
- n-Dotriacontane
- n-Octadecane
- n-Tricosane
- n-Hexane
- n-Tetracosane
- n-Heneicosane
- n-Octatriacontane
- n-Undecane

Neat compounds of each of the above - (30 component kit)
Oh-30 KIT

LUST RETENTION TIME STANDARDS MIXTURE
TPH

- n-Hexane (C6)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetracosane (C24)
- n-Octacosane (C28)
- n-Triacontane (C30)
- n-Tetracontane (C40)

25ug/mL in Methylene chloride - (7 components)
TPH-8M 5mL Ampule
TPH-8JM 1mL Ampule

GASOLINE ADDITIVES MIXTURE #2
TPH

- Benzene
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Styrene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene

1000ug/mL in Methanol - (11 components)
GADM-2M **5mL Ampule**
GADM-2JM **1mL Ampule**

SURROGATE STANDARDS
GRO/DRO

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol
F833JS	1mL	2000ug/mL	Methanol
F450	1g	a.a.a-Trifluorotoluene	
F450S	5mL	100ug/mL	Methanol
F450JS	1mL	100ug/mL	Methanol (Ampule)
F450AS	5mL	2000ug/mL	Methanol
F450AJS	1mL	2000ug/mL	Methanol (Ampule)
F1054	500mg	o-Terphenyl	
F1054S	5mL	100ug/mL	Hexane (Ampule)
F1054JS	1mL	100ug/mL	Hexane (Ampule)
F1054AS	5mL	2000ug/mL	Acetone (Ampule)
F1054AJS	5mL	2000ug/mL	Acetone (Ampule)
F2518	1g	1-Chlorooctadecane	
F2518S	5mL	2000ug/mL	Methylene chloride (Ampule)
F2518JS	1mL	2000ug/mL	Methylene chloride
F2517	5g	1-Chlorooctane	
F2517S	5mL	2000ug/mL	Methanol
F2517JS	1mL	2000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
GRO/DRO

O-407	10g	n-Butyl acetate	
F7	5g	Chlorobenzene	
F2167	1g	1-Chloro-4-fluorobenzene	
F2167S	5mL	2500ug/mL	Methanol
F2167JS	1mL	2500ug/mL	Methanol (Ampule)
F2326	5g	Cyclohexanone	
F2326AS	5mL	2000ug/mL	Isooctane (Ampule)
F2326AJS	1mL	2000ug/mL	Isooctane (Ampule)
F2182	1g	n-Decane	
F2182S	5mL	100ug/mL	Methylene chloride (Ampule)
F2182JS	1mL	100ug/mL	Methylene chloride (Ampule)
O-567	1g	1,2-Dimethoxyethane	
	5g	1,2-Dimethoxyethane	
F2000	1g	n-Dodecane	
F2000S	5mL	100ug/mL	Methanol
F2000JS	1mL	100ug/mL	Methanol (Ampule)
O-152	10g	2-Ethyl-1-butanol	
O-2110	500mg	n-Heptadecane	
	1g	n-Heptadecane	
F2184	5g	n-Heptane	
F2184S	5mL	100ug/mL	Methanol (Ampule)
F2184JS	1mL	100ug/mL	Methanol (Ampule)
F2185	2g	n-Hexadecane	
F2185S	5mL	100ug/mL	Methylene chloride (Ampule)
F2185JS	1mL	100ug/mL	Methylene chloride (Ampule)
F2185AS	5mL	400ug/mL	Cyclohexane (Ampule)
F2185AJS	1mL	400ug/mL	Cyclohexane (Ampule)
O-2238	5g	n-Pentadecane	
	10g	n-Pentadecane	
F2197	5g	n-Tetradecane	
F2197S	5mL	100ug/mL	Methylene chloride (Ampule)
F2197JS	1mL	100ug/mL	Methylene chloride (Ampule)
F2415	5g	n-Undecane	
F2415S	5mL	1000ug/mL	Methanol
F2415JS	1mL	1000ug/mL	Methanol (Ampule)
F2516	10mg	5-alpha-Androstane	
F2516S	5mL	2000ug/mL	Methylene chloride (Ampule)
F2516JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F1064	500mg	p-Terphenyl	
F1064S	5mL	100ug/mL	Hexane (Ampule)
F1064JS	1mL	100ug/mL	Hexane (Ampule)
F1064AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F1064AJS	1mL	2000ug/mL	Methylene chloride (Ampule)

TOTAL PETROLEUM HYDROCARBONS - F LIST

F001 & F002 SOLVENT LIST MIXTURE
HAZARDOUS WASTE FROM NON-SPECIFIC SOURCES

- Carbon tetrachloride
- Chlorobenzene
- 1,2-Dichlorobenzene
- Methylene chloride
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,1,2-Trichlorotrifluoroethane
- Trichlorofluoromethane

2000ug/mL in Methanol - (10 components)
FL0102-1M 5mL Ampule
FL0102-1JM 1mL Ampule

F004 LIST MIXTURE
HAZARDOUS WASTE FROM NON-SPECIFIC SOURCES F LIST

- m-Cresol
- 2-Methylphenol
- 4-Methylphenol

2000ug/mL in Methanol - (3 components)
FL004-1M 5mL Ampule
FL004-1JM 1mL Ampule

F005 LIST MIXTURE
HAZARDOUS WASTE FROM NON-SPECIFIC SOURCES F LIST

- Benzene
- 2-Butanone
- Carbon disulfide
- 2-Ethoxyethanol
- Isobutyl alcohol
- Nitrobenzene
- 2-Nitropropane
- Pyridine
- Toluene

2000ug/mL in Methanol:Water (90:10) - (9 components)
FL005-1M 5mL Ampule
FL005-1JM 1mL Ampule

TOTAL PETROLEUM HYDROCARBONS - SKINNER

SEMI-VOLATILE BASE NEUTRALS EXTRACTABLE MIXTURE
SKINNER LIST

- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Chrysene
- Dibenz(a,h)acridine
- 1,2:5,6-Dibenzanthracene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diethyl phthalate
- 7,12-Dimethylbenz(a)anthracene
- Dimethyl phthalate
- Di-n-butyl phthalate
- Di-n-octyl phthalate
- Indene
- Fluoranthene
- 6-Methylchrysene
- 1-Methylnaphthalene
- Naphthalene
- Phenanthrene
- Pyrene
- Pyridine
- Quinoline

200ug/mL in Methylene chloride - (27 components)
SKBN-1M 5mL Ampule
SKBN-1JM 1mL Ampule

2000ug/ml in Methylene chloride - (27 components)
SKBN-2M 5mL Ampule
SKBN-2JM 1mL Ampule

ALCOHOLS MIXTURE
HAZARDOUS WASTE FROM NON-SPECIFIC SOURCES F LIST

- Ethyl alcohol
- Isopropyl alcohol
- Methanol

2000ug/mL in De-ionized water - (3 components)
FLAL-1M 5mL Ampule
FLAL-1JM 1mL Ampule

ACID EXTRACTABLES MIXTURE
SKINNER LIST

- Benzenethiol
- 2,4-Dimethylphenol
- 2-Methylphenol
- 4-Nitrophenol
- m-Cresol
- 2,4-Dinitrophenol
- 4-Methylphenol
- Phenol

200ug/mL in Methylene chloride - (8 components)
SKAC-1M **5mL Ampule**
SKAC-1JM **1mL Ampule**

2000ug/mL in Methylene chloride - (8 components)
SKAC-2M **5mL Ampule**
SKAC-2JM **1mL Ampule**

VOLATILES MIXTURE
SKINNER LIST

- Benzene
- Chlorobenzene
- 1,2-Dichloroethane
- Styrene
- m-Xylene
- 2-Butanone
- Chloroform
- 1,4-Dioxane
- Toluene
- p-Xylene
- Carbon disulfide
- 1,2-Dibromoethane
- Ethylbenzene
- o-Xylene

200ug/mL in Methanol:Water (90:10) - (14 components)
SKV-1M **5mL Ampule**
SKV-1JM **1mL Ampule**

ASTM

PETROCHEMICAL CALIBRATION MIXTURE #1
ASTM D2887-93

6% w/w	n-Hexane (C6)
6% w/w	n-Heptane (C7)
8% w/w	n-Octane (C8)
8% w/w	n-Nonane (C9)
12% w/w	n-Decane (C10)
12% w/w	n-Undecane (C11)
12% w/w	n-Dodecane (C12)
12% w/w	n-Tetradecane (C14)
10% w/w	n-Hexadecane (C16)
5% w/w	n-Octadecane (C18)
2% w/w	n-Eicosane (C20)
2% w/w	n-Tetracosane (C24)
1% w/w	n-Octacosane (C28)
1% w/w	n-Dotriacontane (C32)
1% w/w	n-Hexatriacontane (C36)
1% w/w	n-Tetracontane (C40)
1% w/w	n-Tetratetracontane (C44)

Mixture of the above - (17 components)
PCM-1M **5mL Ampule**
PCM-1JM **1mL Ampule**

DETECTOR RESPONSE TEST MIXTURE
ASTM D5307-92

- n-Decane
- n-Undecane
- n-Dodecane
- n-Tridecane
- n-Tetradecane
- n-Pentadecane
- n-Hexadecane
- n-Heptadecane
- n-Octadecane
- n-Eicosane
- n-Tetracosane
- n-Octacosane
- n-Dotriacontane
- n-Hexatriacontane
- n-Tetracontane
- n-Tetratetracontane

6.25% w/w of each of the above - (16 components)
DRT5307-1M **5mL Ampule**
DRT5307-1JM **1mL Ampule**

OXYGENATES IN GASOLINE
ASTM D4815-93

2% w/w	tert-Amyl alcohol
15% w/w	tert-Amyl methyl ether
2% w/w	n-Butyl alcohol
2% w/w	sec-Butyl alcohol
10% w/w	tert-Butyl alcohol
15% w/w	tert-Butyl ethyl ether
15% w/w	tert-Butyl methyl ether
10% w/w	Ethyl alcohol
2% w/w	Isobutyl alcohol
2% w/w	Isopropyl alcohol
13% w/w	Isopropyl ether
10% w/w	Methyl alcohol
2% w/w	Propyl alcohol

Mixture of the above - (13 components)
OG4815-1M **5mL Ampule**
OG4815-1JM **1mL Ampule**

BENZENE AND HYDROCARBON STANDARDS
ASTM D4367-89

F4	5g	Benzene
F704	5g	2-Butanone
F1099	5g	n-Nonane
F2189	5g	2,2,4-Trimethylpentane

INTERNAL STANDARDS
ASTM D3525-93

F2185	2g	n-Hexadecane	
F2185S	5mL	100ug/mL	Methylene chloride (Ampule)
F2185JS	1mL	100ug/mL	Methylene chloride (Ampule)
F2185AS	5mL	400ug/mL	Cyclohexane (Ampule)
F2185AJS	1mL	400ug/mL	Cyclohexane (Ampule)
F2197	5g	n-Tetradecane	
F2197S	5mL	100ug/mL	Methylene chloride (Ampule)
F2197JS	1mL	100ug/mL	Methylene chloride (Ampule)

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

INTERNAL STANDARDS
ASTM D3257-93

F2326	5g	Cyclohexanone	
F2326AS	5mL	2000ug/mL	Isooctane (Ampule)
F2326AJS	1mL	2000ug/mL	Isooctane (Ampule)

INTERNAL STANDARDS
ASTM D4773-93

O-407	10g	n-Butyl acetate
F7	5g	Chlorobenzene

INTERNAL STANDARDS
ASTM D4815-93

O-567	1g	1,2-Dimethoxyethane

INTERNAL STANDARDS
ASTM D5008-93

O-152	10g	2-Ethyl-1-butanol

INTERNAL STANDARDS
ASTM D5060-90

F2415	5g	N-Undecane	
F2415S	5mL	1000ug/mL	Methanol
F2415JS	1mL	1000ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
ASTM D5135-93

F2184	5g	n-Heptane	
F2184S	5mL	100ug/mL	Methanol (Ampule)
F2184JS	1mL	100ug/mL	Methanol (Ampule)

INTERNAL STANDARDS
ASTM D5442-93

F2185	2g	n-Hexadecane	
F2185S	5mL	100ug/mL	Methylene chloride (Ampule)
F2185JS	1mL	100ug/mL	Methylene chloride (Ampule)
F2185AS	5mL	400ug/mL	Cyclohexane (Ampule)
F2185AJS	1mL	400ug/mL	Cyclohexane (Ampule)

THIOPHENE STANDARDS
ASTM D4735-91

F2466	2g	Thiophene	
F2466S	5mL	100ug/mL	Benzene (Ampule)
F2466JS	1mL	100ug/mL	Benzene (Ampule)

Chem Service inc
We Set the Standard.

UST - WEATHERED STANDARDS

UNLEADED GASOLINE STANDARDS
5000ug/mL in Methanol

CSRGO-601-1JS	Unweathered	1mL
CSRGO-602-1JS	25% Weathered	1mL
CSRGO-603-1JS	50% Weathered	1mL
CSRGO-604-1JS	75% Weathered	1mL

KEROSENE STANDARDS
5000ug/mL in Methylene chloride

CSRGO-621-1JS	Unweathered	1mL
CSRGO-622-1JS	25% Weathered	1mL
CSRGO-623-1JS	50% Weathered	1mL
CSRGO-624-1JS	75% Weathered	1mL

WEATHERED HYDROCARBONS KITS
Unweathered Hydrocarbons

■ 25% Weathered ■ 50% Weathered ■ 75% Weathered

1mL of each of the Gasoline Standards - (4 component Kit)
CSRGK-601S **KIT**

1mL of each of the Diesel Standards - (4 component Kit)
CSRGK-611S **KIT**

1mL of each of the Kerosene Standards - (4 component Kit)
CSRGK-621S **KIT**

1mL of each of the Mineral Spirit Standards - (4 component Kit)
CSRGK-701S **KIT**

PESTICIDE STANDARDS

Chem Service has the world's most complete selection of pesticides in our Pesticide and Metabolite Catalog. All pesticides either sold individually or used as solution analytes are certified for purity, identity, stability, and traceable by lot number. These pesticide standards exceed all current EPA Analytical Standard Requirements for neat chemicals and solution analytes. Use the card in the back of this catalog to order this and other Chem Service catalogs.

MINERAL SPIRITS STANDARDS
5000ug/mL in Methylene chloride

CSRGO-701-1JS	Unweathered	1mL
CSRGO-702-1JS	25% Weathered	1mL
CSRGO-703-1JS	50% Weathered	1mL
CSRGO-704-1JS	75% Weathered	1mL

DIESEL FUEL #2 STANDARDS
5000ug/mL in Methylene chloride

CSRGO-611-1JS	Unweathered	1mL
CSRGO-612-1JS	25% Weathered	1mL
CSRGO-613-1JS	50% Weathered	1mL
CSRGO-614-1JS	75% Weathered	1mL

FUEL STANDARDS FOR UST TESTING

CSRGO-600-1JS	Unleaded Gasoline	1mL
CSRGO-610-1JS	#2 Diesel Fuel	1mL

500ug/mL in Methanol

CSRGO-605-1JS	Composite Unleaded Gasoline*	1mL
CSRGO-661-1JS	100 Octane Aviation Fuel	1mL
CSRGO-615-1JS	Composite #2 Diesel Fuel*	1mL
CSRGO-625-1JS	Composite Kerosene*	1mL

2500ug/mL in Methanol

CSRGO-671-1JS	Commercial Jet Fuel A	1mL
CSRGO-631-1JS	Fuel Oil #4	1mL
CSRGO-641-1JS	Fuel Oil #5	1mL
CSRGO-651-1JS	Fuel Oil #6	1mL
CSRGO-691-1JS	JP-5 Military Fuel	1mL

5000ug/mL in Methylene chloride

CSRGO-606-1JS	Composite Unleaded Gasoline*	1mL
CSRGO-662-1JS	100 Octane Aviation Fuel	1mL
CSRGO-616-1JS	Composite #2 Diesel Fuel*	1mL
CSRGO-626-1JS	Composite Kerosene*	1mL
CSRGO-672-1JS	Commercial Jet Fuel A	1mL
CSRGO-632-1JS	Fuel Oil #4	1mL
CSRGO-642-1JS	Fuel Oil #5	1mL
CSRGO-652-1JS	Fuel Oil #6	1mL
CSRGO-692-1JS	JP-5 Military Fuel	1mL

50,000ug/mL in Methylene chloride

*Composite standards are prepared from multiple sources of fuel. All other standards are single source samples.

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800-452-9994 or 610-692-3026

UST - STATE STANDARDS

The EPA was directed by the US Congress, (under Subtitle I of the Resource Conservation and Recovery Act), to establish regulatory programs that would prevent, detect and clean up releases from underground storage tank systems (UST) containing petroleum or hazardous substances. In 1988 the EPA issued UST regulations establishing a number of corrective action requirements for UST owners and operators, including the requirement to clean up soil and groundwater as needed to protect human health and the environment.

The EPA developed UST regulations that gave states the latitude to make their corrective action programs conform to meet their state's needs and circumstances. EPA regulations do not specify UST cleanup levels, or the analytical protocol that the testing labs must follow. Many of the following UST state standards are very similar. Chem Service prepares an excellent assortment of standards for these UST methods. If you are seeking a particular standard, please check if it may be listed under other states methods. If you need a standard which we have not yet cataloged, please use our custom solution & mixture request form - we may already have the method in process. We will return your request to you promptly.

ALASKA DIESEL RANGE ORGANICS (DRO) ALKANE MIXTURE

- n-Decane
- n-Tetradecane
- n-Octadecane
- n-Docosane
- n-Undecane
- n-Pentadecane
- n-Nonadecane
- n-Tricosane
- n-Dodecane
- n-Hexadecane
- n-Eicosane
- n-Tetracosane
- n-Tridecane
- n-Heptadecane
- n-Heneicosane
- n-Pentacosane

1000ug/mL in Methylene chloride - (16 components)
TPH-6M **5mL Ampule**
TPH-6JM **1mL Ampule**

ALASKA GRO SURROGATE CONTROL STANDARDS MIXTURE

- 4-Bromofluorobenzene
- a.a.a-Trifluorotoluene

5000ug/mL in Methanol - (2 components)
USTGSSAK-1M **5mL Ampule**
USTGSSAK-1JM **1mL Ampule**

ALASKA GRO ALKANE STANDARDS MIXTURE

- n-Hexane
- n-Octane
- n-Decane
- n-Heptane
- n-Nonane

2000ug/mL in Methanol - (5 components)
USTGAK-1M **5mL Ampule**
USTGAK-1JM **1mL Ampule**

SURROGATE STANDARDS
ALASKA DRO

F1054	500mg	o-Terphenyl	
F1054S	5mL	100ug/mL	Hexane (Ampule)
F1054JS	1mL	100ug/mL	Hexane (Ampule)
F1054AS	5mL	2000ug/mL	Acetone (Ampule)
F1054AJS	1mL	2000ug/mL	Acetone (Ampule)
F1054BS	5mL	1000ug/mL	Methylene chloride (Ampule)
F1054BJS	1mL	1000ug/mL	Methylene chloride (Ampule)

INTERNAL STANDARDS
ALASKA GRO

F2167	1g	1-Chloro-4-fluorobenzene	
F2167S	5mL	2500ug/mL	Methanol
F2167JS	1mL	2500ug/mL	Methanol (Ampule)

ARIZONA EXTRACTION RETENTION TIME STANDARDS MIXTURE

- n-Hexane (C6)
- n-Decane (C10)
- n-Docosane (C22)
- n-Dotriacontane (C32)

2000ug/mL in Methylene chloride - (4 components)
CS-AZ-1 1mL Ampule

ARIZONA DRO/GRO RANGE CALIBRATION STANDARDS MIXTURE

- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)
- n-Triacontane (C30)
- n-Dotriacontane (C32)

2000ug/mL in Methylene chloride - (12 components)
CS-AZ-2 1mL Ampule

ARIZONA GRO P&T RETENTION TIME STANDARDS MIXTURE

- Benzene
- Naphthalene

1000ug/mL in P&T Methanol - (2 components)
CS-AZ-3 1mL Ampule

SURROGATE STANDARDS
ARIZONA

F1054	500mg	o-Terphenyl	
F1054AJS	1mL	2000ug/mL	Acetone (Ampule)
F1054BJS	1mL	1000ug/mL	Methylene chloride (Ampule)

CALIFORNIA PVOC (REVISED) MIXTURE

- Benzene
- tert-Butyl methyl ether
- Ethylbenzene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene

1000ug/mL in Methanol - (7 components)
MBTEX-2M 5mL Ampule
MBTEX-2JM 1mL Ampule

2000ug/mL in Methanol - (7 components)
MBTEX-1M 5mL Ampule
MBTEX-1JM 1mL Ampule

CALIFORNIA OXYGENATES STANDARDS MIXTURE

2000ug/mL	Diisopropyl ether (DIPE)
2000ug/mL	Ethyl-tert-butyl-ether (ETBE)
2000ug/mL	tert-Amyl methyl ether (TAME)
10000ug/mL	tert-Butyl alcohol
2000ug/mL	Methyl tert-butyl ether (MTBE)

In P&T Methanol - (5 components)
CS-CA-1 1mL Ampule

CONNECTICUT ETPH CALIBRATION STANDARDS MIXTURE

- n-Nonane (C9)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)
- n-Triacontane (C30)
- n-Dotriacontane (C32)
- n-Tetratriacontane (C34)
- n-Hexatriacontane (C36)

1000ug/mL in Methylene chloride - (15 components)
CS-CT-1 1mL Ampule

CALIFORNIA WELL INVESTIGATIOM PROGRAM (WIP) VOA STANDARDS MIXTURE

- Benzene
- tert-Butyl methyl ether
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Toluene
- o-Xylene
- m-Xylene
- p-Xylene

2000ug/mL in Methanol - (11 components)
USTWIPCA-1M 5mL Ampule
USTWIPCA-1JM 1mL Ampule

FLORIDA TOTAL PETROLEUM HYDROCARBON STANDARDS MIXTURE

- n-Octane (C8)
- n-Dodecane (C12)
- n-Hexadecane (C16)
- n-Eicosane (C20)
- n-Tetracosane (C24)
- n-Octacosane (C28)
- n-Dotriacontane (C32)
- n-Hexatriacontane (C36)
- n-Tetracontane (C40)
- n-Decane (C10)
- n-Tetradecane (C14)
- n-Octadecane (C18)
- n-Docosane (C22)
- n-Hexacosane (C26)
- n-Triacontane (C30)
- n-Tetratriacontane (C34)
- n-Octatriacontane (C38)

500ug/mL in Hexane - (17 components)
TPH-7M 5mL Ampule
TPH-7JM 1mL Ampule

MASSACHUSETTS EPH AROMATIC HYDROCARBON STANDARDS MIXTURE

- Acenaphthene
- Acenaphthylene
- Anthracene
- 1,2-Benzanthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Chrysene
- 1,2:5,6-Dibenzanthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-C,D)pyrene
- 2-Methylnaphthalene
- Naphthalene
- Phenanthrene
- Pyrene

1000ug/mL in Methylene chloride - (17 components)
USTARMA-1M 5mL Ampule
USTARMA-1JM 1mL Ampule

MASSACHUSETTS VPH PRIMARY DILUTION STANDARD MIXTURE
(NO SURROGATE)

500ug/mL	Benzene
1500ug/mL	tert-Butyl methyl ether
500ug/mL	Ethylbenzene
1500ug/mL	2-Methylpentane
1000ug/mL	Naphthalene
1000ug/mL	n-Nonane
1000ug/mL	n-Pentane
1500ug/mL	Toluene
1000ug/mL	1,2,4-Trimethylbenzene
1500ug/mL	2,2,4-Trimethylpentane
1000ug/mL	o-Xylene
1000ug/mL	m-Xylene
1000ug/mL	p-Xylene

Mixture in Methanol - (13 components)
USTVPHMA-2M **5mL Ampule**
USTVPHMA-2JM **1mL Ampule**

SURROGATE STANDARDS
MASSACHUSETTS VPH

F1094	1g	2,5-Dibromotoluene	
F1094S	5mL	100ug/mL	Hexane (Ampule)
F1094JS	1mL	100ug/mL	Hexane (Ampule)
F1094AS	5mL	5000ug/mL	Methanol (Ampule)
F1094AJS	1mL	5000ug/mL	Methanol (Ampule)

MASSACHUSETTS VPH PRIMARY DILUTION STANDARD MIXTURE
(WITH SURROGATE)

500ug/mL	Benzene
1500ug/mL	tert-Butyl methyl ether
1000ug/mL	2,5-Dibromotoluene (surrogate)
500ug/mL	Ethylbenzene
1500ug/mL	2-Methylpentane
1000ug/mL	Naphthalene
1000ug/mL	n-Nonane
1000ug/mL	n-Pentane
1500ug/mL	Toluene
1000ug/mL	1,2,4-Trimethylbenzene
1500ug/mL	2,2,4-Trimethylpentane
1000ug/mL	o-Xylene
1000ug/mL	m-Xylene
1000ug/mL	p-Xylene3

Mixture in Methanol - (14 components)
USTVPHMA-1M **5mL Ampule**
USTVPHMA-1JM **1mL Ampule**

MASSACHUSETTS EPH ALIPHATIC HYDROCARBON STANDARDS MIXTURE

- n-Nonane (C9)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Nonadecane (C19)
- n-Eicosane (C20)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)
- n-Triacontane (C30)
- n-Hexatriacontane (C36)

1000ug/mL in Hexane - (14 components)
USTALMA-1M **5mL Ampule**
USTALMA-1JM **1mL Ampule**

MASSACHUSETTS EPH MATRIX SPIKE MIXTURE

- Acenaphthene
- Anthracene
- Chrysene
- n-Eicosane
- Naphthalene
- n-Nonadecane
- n-Nonane
- n-Octacosane
- Pyrene
- n-Tetradecane

100ug/mL in Acetone - (10 components)
USTMSMA-1M **5mL Ampule**
USTMSMA-1JM **1mL Ampule**

MASSACHUSETTS EPH SURROGATE SPIKING MIXTURE

- 1-Chlorooctadecane
- o-Terphenyl

2000ug/mL in Acetone - (2 components)
USTSSMA-2M **5mL Ampule**
USTSSMA-2JM **1mL Ampule**

5 x 1mL Packaging

All individual 5mL solutions or mixtures listed in this catalog are available now in a 5 x 1mL package size.

We have also added a 1mL package size for all of our 5mL solutions and mixtures.

MASSACHUSETTS EPH - COMBINED
AROMATIC/ALIPHATIC FRACTIONATION CHECK MIXTURE

- Acenaphthene
- Benzo(b)fluoranthene
- Chrysene
- n-Dodecane
- n-Hexacosane
- 2-Methylnaphthalene
- n-Octacosane
- n-Tetracosane
- Acenaphthylene
- Benzo(k)fluoranthene
- n-Decane
- n-Eicosane
- n-Hexadecane
- Naphthalene
- n-Octadecane
- n-Tetradecane
- Anthracene
- 1,12-Benzoperylene
- 1,2:5,6-Dibenzanthracene
- Fluoranthene
- n-Hexatriacontane
- n-Nonadecane
- Phenanthrene
- n-Triacontane
- 1,2-Benzanthracene
- Benzo(a)pyrene
- n-Docosane
- Fluorene
- Indeno(1,2,3-C,D)pyrene
- n-Nonane
- Pyrene

200ug/mL in Hexane:Methylene chloride (90:10) - (31 components)
USTFRMA-1M **5mL Ampule**
USTFRMA-1JM **1mL Ampule**

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

MISSISSIPPI/TENNESSEE DRO STANDARDS MIXTURE

- n-Decane (C10)
- n-Undecane (C11)
- n-Dodecane (C12)
- n-Tridecane (C13)
- n-Tetradecane (C14)
- n-Pentadecane (C15)
- n-Hexadecane (C16)
- n-Heptadecane (C17)
- n-Octadecane (C18)
- n-Nonadecane (C19)
- n-Eicosane (C20)
- n-Heneicosane (C21)
- n-Docosane (C22)
- n-Tricosane (C23)
- n-Tetracosane (C24)
- n-Pentacosane (C25)

1000ug/mL in Methylene Chloride - (16 components)
CS-MS-1 1mL Ampule

MISSISSIPPI GASOLINE COMPONENT STANDARDS MIXTURE

500ug/mL	Benzene
500ug/mL	Ethylbenzene
500ug/ml	Heptane
1500ug/mL	2-Methylpentane
1500ug/mL	Toluene
1000ug/mL	1,2,4-Trimethylbenzene
1500ug/mL	2,2,4-Trimethylpentane
1000ug/mL	m-Xylene
1000ug/mL	o-Xylene
1000ug/mL	p-Xylene

Mixture in P&T Methanol - (10 components)
CS-MS-2 1mL Ampule

SURROGATE STANDARDS
MASSACHUSETTS EPH

F2437	500mg	2-Bromonaphthalene	
F2437S	5mL	2000ug/mL	Methanol
F2437JS	1mL	2000ug/mL	Methanol (Ampule)
F2518	1g	1-Chlorooctadecane	
F2518S	5mL	2000ug/mL	Methylene chloride (Ampule)
F2518JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F2518AS	5mL	1000ug/mL	Hexane (Ampule)
F2518AJS	1mL	1000ug/mL	Hexane (Ampule)
F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
F1054	500mg	o-Terphenyl	
F1054S	5mL	100ug/mL	Hexane (Ampule)
F1054JS	1mL	100ug/mL	Hexane (Ampule)
F1054AS	5mL	2000ug/mL	Acetone (Ampule)
F1054AJS	1mL	2000ug/mL	Acetone (Ampule)
F1054BS	5mL	1000ug/mL	Methylene chloride (Ampule)
F1054BJS	1mL	1000ug/mL	Methylene chloride (Ampule)

INTERNAL STANDARDS
MASSACHUSETTS EPH

F2516	10mg	5-alpha-Androstane	
F2516S	5mL	2000ug/mL	Methylene chloride (Ampule)
F2516JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F2516AS	5mL	1000ug/mL	Methylene chloride (Ampule)
F2516AJS	1mL	1000ug/mL	Methylene chloride (Ampule)

MICHIGAN GRO STANDARDS MIXTURE

- Benzene
- 1,2-Dichloroethane
- Isopropylbenzene
- Methyl tert-butyl-ether (MTBE)
- Toluene
- 1,3,5-Trimethylbenzene
- o-Xylene
- 1,2-Dibromoethane
- Ethylbenzene
- 2-methylnaphthalene
- Naphthalene
- 1,2,4-Trimethylbenzene
- m-Xylene
- p-Xylene

2000ug/mL in P&T Methanol - (14 components)
CS-MI-1 1mL Ampule

NEW JERSEY NJDEP EPH 10/08 Rev.2 ALIPHATICS FRACTIONATION CHECK MIX

- n-Nonane (C9)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Heneicosane (C21)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)
- n-Triacontane (C30)
- n-Dotriacontane (C32)
- n-Tetratriacontane (C34)
- n-Hexatriacontane (C36)
- n-Octatriacontane (C38)
- n-Tetracontane (C40)

400ug/mL in Hexane- (18 components)
CS-NJ-1 5mL Ampule

NEW JERSEY NJDEP EPH 10/08 Rev.2 AROMATICS CALIBRATION STANDARD

- Acenaphthene
- Anthracene
- Benzo(a)pyrene
- Benzo(ghi)perylene
- Chrysene
- Fluoranthene
- Indeno(1,2,3-cd)pyrene
- Naphthalene
- Pyrene
- Acenaphthylene
- Benzo(a)anthracene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Dibenzo(a,h)anthracene
- Fluorene
- 2-Methylnaphthalene
- Phenanthrene
- 1,2,3-Trimethylbenzene

2000ug/mL in Methylene chloride- (18 components)
CS-NJ-2 1mL Ampule

NEW JERSEY NJDEP EPH 10/08 Rev.2 ALIPHATICS MATRIX SPIKE MIXTURE

- n-Nonane (C9)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Heneicosane (C21)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28)
- n-Triacontane (C30)
- n-Dotriacontane (C32)
- n-Tetratriacontane (C34)
- n-Hexatriacontane (C36)
- n-Octatriacontane (C38)
- n-Tetracontane (C40)

200ug/mL in Pentane- (18 components)
CS-NJ-3 5mL Ampule

NEW JERSEY NJDEP EPH 10/08 Rev.2 AROMATICS MATRIX SPIKE MIXTURE

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(ghi)perylene
- Benzo(k)fluoranthene
- Chrysene
- Dibenzo(a,h)anthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- 2-Methylnaphthalene
- Naphthalene
- Phenanthrene
- Pyrene
- 1,2,3-Trimethylbenzene

200ug/mL in Acetone:Toluene (50:50)- (18 components)
CS-NJ-4 5mL Ampule

NEW JERSEY NJDEP EPH 10/08 Rev.2 AROMATICS FRACTIONATION CHECK MIXTURE

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(ghi)perylene
- Benzo(k)fluoranthene
- Chrysene
- Dibenzo(a,h)anthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- Phenanthrene
- Pyrene
- 1,2,3-Trimethylbenzene

400ug/mL in Hexane:Toluene (50:50)- (16 components)
CS-NJ-6 1mL Ampule

PENNSYLVANIA DER GASOLINE RANGE HYDROCARBONS MIXTURE

- Benzene
- Ethylbenzene
- n-Heptane
- 2-Methylpentane
- Toluene
- 1,2,4-Trimethylbenzene
- 2,2,4-Trimethylpentane
- o-Xylene
- m-Xylene
- p-Xylene

1000ug/mL in Methanol - (10 components)
USTGRHPA-1M 5mL Ampule
USTGRHPA-1JM 1mL Ampule

TENNESSEE/MISSISSIPPI DIESEL RANGE ORGANICS MIXTURE #2

- n-Decane
- n-Tetradecane
- n-Octadecane
- n-Docosane
- n-Undecane
- n-Pentadecane
- n-Nonadecane
- n-Tricosane
- n-Dodecane
- n-Hexadecane
- n-Eicosane
- n-Tetracosane
- n-Tridecane
- n-Heptadecane
- n-Heneicosane
- n-Pentacosane

1000ug/mL in Methylene chloride - (16 components)
TPH-6M 5mL Ampule
TPH-6JM 1mL Ampule

TEXAS TNRCC METHOD 1005 - WINDOW DEFINING HYDROCARBON STANDARDS MIXTURE #2

- n-Hexane (C6)
- n-Octane (C8)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Tetradecane (C14)
- n-Hexadecane (C16)
- n-Octadecane (C18)
- n-Eicosane (C20)
- n-Docosane (C22)
- n-Tetracosane (C24)
- n-Hexacosane (C26)
- n-Octacosane (C28

200ug/mL in n-Pentane - (12 components)
USTWDTX-2M 5mL Ampule
USTWDTX-2JM 1mL Ampule

WASHINGTON EPH SURROGATE STANDARDS

F2518	1g	1-Chlorooctadecane	
F2518S	5mL	2000ug/mL	Methylene chloride (Ampule)
F2518JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F2518AS	5mL	1000ug/mL	Hexane (Ampule)
F2518AJS	1mL	1000ug/mL	Hexane (Ampule)
F1054	500mg	o-Terphenyl	
F1054S	5mL	100ug/mL	Hexane (Ampule)
F1054JS	1mL	100ug/mL	Hexane (Ampule)
F1054AS	5mL	2000ug/mL	Acetone (Ampule)
F1054AJS	1mL	2000ug/mL	Acetone (Ampule)
F1054BS	5mL	1000ug/mL	Methylene chloride (Ampule)
F1054BJS	1mL	1000ug/mL	Methylene chloride (Ampule)

PENNSYLVANIA EXTRACTABLE POLYNUCLEAR AROMATIC HYDROCARBONS (PAH) STANDARDS MIX

- 1,2-Benzanthracene
- Benzo(a)pyrene
- Fluorene
- Naphthalene
- Phenanthrene

2000ug/mL in Methylene chloride - (5 components)
USTPAHPA-1M 5mL Ampule
USTPAHPA-1JM 1mL Ampule

PENNSYLVANIA VOLATILE PETROLEUM HYDROCARBON STANDARDS MIXTURE

1000ug/mL	Benzene
2000ug/mL	tert-Butyl methyl ether
1000ug/mL	Ethylbenzene
1000ug/mL	Isopropylbenzene
1000ug/mL	Naphthalene
1000ug/mL	Toluene
1000ug/mL	o-Xylene
1000ug/mL	m-Xylene
1000ug/mL	p-Xylene

Mixture in Methanol - (9 components)
USTVPPA-1M 5mL Ampule
USTVPPA-1JM 1mL Ampule

TENNESSEE GASOLINE RANGE ORGANICS MIXTURE #2A

500ug/ml	Benzene
500ug/ml	Ethylbenzene
500ug/ml	n-Heptane
1500ug/ml	2-Methylpentane
1500ug/ml	Toluene
1000ug/ml	1,2,4-Trimethylbenzene
1500ug/ml	2.2.4-Trimethylpentane
1000ug/ml	o-Xylene
1000ug/ml	m-Xylene
1000ug/ml	p-Xylene

Mixture in Methanol - (10 components)
TPH-4AJM 1mL Ampules

TEXAS TNRCC METHOD 1005 - WINDOW DEFINING HYDROCARBON STANDARDS
MIXTURE #1

- n-Hexane (C6)
- n-Decane (C10)
- n-Octacosane (C28)

200ug/mL in n-Pentane - (3 components)
USTWDTX-1M 5mL Ampule
USTWDTX-1JM 1mL Ampule

WASHINGTON EPH ALIPHATIC HYDROCARBON STANDARDS MIXTURE

- n-Octane (C8)
- n-Decane (C10)
- n-Dodecane (C12)
- n-Hexadecane (C16)
- 1-Chlorooctadecane (surrogate)
- n-Heneicosane (C21)
- n-Tetratriacontane (C34)

1000ug/mL in Hexane - (7 components)
USTALWA-1M 5mL Ampule
USTALWA-1JM 1mL Ampule

WASHINGTON EPH SURROGATE SPIKING MIXTURE

- 1-Chlorooctadecane
- o-Terphenyl

2000ug/mL in Acetone - (2 components)
USTSSMA-2M 5mL Ampule
USTSSMA-2JM 1mL Ampule

SURROGATE STANDARDS
WASHINGTON VPH

F1094	1g	2,5-Dibromotoluene	
F1094S	5mL	100ug/mL	Hexane (Ampule)
F1094JS	1mL	100ug/mL	Hexane (Ampule)
F1094AS	5mL	5000ug/mL	Methanol (Ampule)
F1094AJS	1mL	5000ug/mL	Methanol (Ampule)

WASHINGTON EPH
INTERNAL STANDARDS

F2516	10mg	5-alpha-Androstane	
F2516S	5mL	2000ug/mL	Methylene chloride (Ampule)
F2516JS	1mL	2000ug/mL	Methylene chloride (Ampule)
F2516AS	5mL	1000ug/mL	Methylene chloride (Ampule)
F2516AJS	1mL	1000ug/mL	Methylene chloride (Ampule)

WASHINGTON VPH PRIMARY DILUTION STANDARD MIXTURE (WITH SURROGATE)

- Benzene
- tert-Butyl methyl ether
- 2,5-Dibromotoluene (surrogate)
- n-Hexane
- Naphthalene
- n-Pentane
- 1,2,3-Trimethylbenzene
- m-Xylene
- Ethylbenzene
- n-Decane
- n-Dodecane
- 1-Methylnaphthalene
- n-Octane
- Toluene
- o-Xylene
- p-Xylene

2000ug/mL in Methanol - (16 components)
USTVPHWA-1M 5mL Ampule
USTVPHWA-1JM 1mL Ampule

WASHINGTON VPH MATRIX SPIKING MIXTURE

- Benzene
- tert-Butyl methyl ether
- n-Dodecane
- 1-Methylnaphthalene
- n-Octane
- Toluene
- o-Xylene
- p-Xylene
- Ethylbenzene
- n-Decane
- n-Hexane
- Naphthalene
- n-Pentane
- 1,2,3-Trimethylbenzene
- m-Xylene

50ug/mL in Methanol - (15 components)
USTMSWAV-1M 5mL Ampule
USTMSWAV-1JM 1mL Ampule

WISCONSIN PVOC/GRO MIXTURE

- Benzene
- Ethylbenzene
- Toluene
- 1,3,5-Trimethylbenzene
- m-Xylene
- tert-Butyl methyl ether
- Naphthalene
- 1,2,4-Trimethylbenzene
- o-Xylene
- p-Xylene

1000ug/mL in Methanol - (10 components)
USTWI-1M 5mL Ampule
USTWI-1JM 1mL Ampule

2000ug/mL in Methanol - (10 components)
TPH-1AM 5mL Ampule
TPH-1AJM 1mL Ampule

WASHINGTON VPH PRIMARY DILUTION STANDARD MIXTURE (NO SURROGATE)

- Benzene
- tert-Butyl methyl ether
- n-Dodecane
- 1-Methylnaphthalene
- n-Octane
- Toluene
- o-Xylene
- p-Xylene
- Ethylbenzene
- n-Decane
- n-Hexane
- Naphthalene
- n-Pentane
- 1,2,3-Trimethylbenzene
- m-Xylene

2000ug/mL in Methanol - (15 components)
USTVPHWA-2M 5mL Ampule
USTVPHWA-2JM 1mL Ampule

WASHINGTON & OREGON NWTPH-Dx SURROGATE STANDARDS

F410	1g	2-Fluorobiphenyl	
F410S	5mL	100ug/mL	Methanol
F410JS	1mL	100ug/mL	Methanol (Ampule)
F410AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F410AJS	1mL	2000ug/mL	Methylene chloride (Ampule)
O-2246	100mg	n-Pentacosane	
F1054	500mg	o-Terphenyl	
F1054S	5mL	100ug/mL	Hexane (Ampule)
F1054JS	1mL	100ug/mL	Hexane (Ampule)
F1054AS	5mL	2000ug/mL	Acetone (Ampule)
F1054AJS	1mL	2000ug/mL	Acetone (Ampule)
F1054BS	5mL	1000ug/mL	Methylene chloride (Ampule)
F1054BJS	1mL	1000ug/mL	Methylene chloride (Ampule)
F1064	500mg	p-Terphenyl	
F1064S	5mL	100ug/mL	Hexane (Ampule)
F1064JS	1mL	100ug/mL	Hexane (Ampule)
F1064AS	5mL	2000ug/mL	Methylene chloride (Ampule)
F1064AJS	1mL	2000ug/mL	Methylene chloride (Ampule)

WISCONSIN DIESEL RANGE ORGANICS MIXTURE

- n-Decane
- n-Octadecane
- n-Hexacosane
- n-Hexadecane
- n-Tetracosane
- n-Tetradecane
- n-Docosane
- n-Dodecane
- n-Eicosane
- n-Octacosane

2000ug/mL in Methylene chloride - (10 components)
TPH-5M **5mL Ampule**
TPH-5JM **1mL Ampule**

UST **HSL**

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILES STANDARD MIXTURE

- Acetone
- 2-Butanone
- Carbon disulfide
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- o-Xylene

200ug/mL in Methanol:Water (90:10) - (7 components)
HSL-1M **5mL Ampule**

2000ug/mL in Methanol:Water (90:10) - (7 components)
HSL-2M **5mL Ampule**
HSL-2JM **1mL Ampule**

INTERNATIONAL STANDARDS

CANADIAN DRINKING WATER TRIAZINE MIXTURE

- Alachlor
- Atrazine
- Cyanazine
- Metolachlor
- Metribuzin
- Prometryne
- Simazine

500ug/mL in Acetone- (7 components)
CS-CAN-1 **1mL Ampule**

CANADIAN DRINKING WATER PHENOXYACID HERBICIDE MIXTURE

- Bromoxynil
- 2,4-D
- Dicamba
- 2,4-Dichlorophenol
- Diclofop methyl
- Dinoseb
- Pentachlorophenol
- Picloram
- 2,4,5-T
- 2,3,4,6-Tetrachlorophenol
- 2,4,6-Trichlorophenol

1000ug/mL in Acetone- (11 components)
CS-CAN-2 **1mL Ampule**

CANADIAN DRINKING WATER CARBAMATE MIXTURE

- Aldicarb
- Carbaryl
- Triallate
- Bendiocarb
- Carbofuran

100ug/mL in Acetonitrile- (5 components)
CS-CAN-3 **1mL Ampule**

CANADIAN DRINKING WATER CHLORINATED PESTICIDES MIXTURE

- Aldrin
- Lindane
- 2,4'-DDE
- 4,4'-DDE
- 2,4'-DDT
- 4,4'-DDT
- Dieldrin
- Heptachlor
- Heptachlor epoxide
- Methoxychlor
- Oxychlordane
- Trifluralin
- cis-Chlordane
- trans-Chlordane

200ug/mL in Hexane:Toluene - (14 components)
CS-CAN-4 **1mL Ampule**

CANADIAN DRINKING WATER ORGANOPHOSPHORUS PESTICIDES MIXTURE

- Abate
- Chlorpyrifos
- Diazinon
- Dimethoate
- Guthion
- Malathion
- Parathion
- Phorate
- Terbufos

1000ug/mL in Acetonitrile - (9 components)
CS-CAN-5 **1mL Ampule**

CANADA CCME ALKANES: PAH's

- n-Pentacontane

10ug/mL in Toluene 1mL
CS-C50 in Toluene

- Surrogate Standard n-Undecane

1000ug/mL in Methylene chloride 1mL
CS-CCME-F1

- Surrogate Standard
- 2-Methylnonane

1000ug/mL in Methylene chloride 1mL
CS-CCME-F2

CANADA CCME F1 RETENTION TIME MARKER

- n-Decane
- n-Hexane
- Toluene

2000ug/mL in Methanol - (3 components)
CS-CAN-6 1mL Ampule

CANADA CCME ALKANES: PAH's

- n-Decane
- n-Hexadecane
- n-Tetratriacontane

500ug/mL in Toluene - (3 components)
CS-CAN-7 1mL Ampule

CANADA ATLANTIC PROVINCES EPH MIXTURE

- Acenaphthene
- Benzo(a)pyrene
- n-Decane
- n-Dotriacontane
- n-Hexadecane
- Naphthalene
- Anthracene
- Chrysene
- n-Dodecane
- n-Heneicosane
- n-Octacosane

1000ug/mL in Hexane:Methylene chloride (50:50) - (11 components)
CS-CAN-8 1mL Ampule

CANADA ATLANTIC PROVINCES EPH SURROGATE STANDARD

- n-Dotriacontane
- Isobutylbenzene

1000ug/mL in Methylene chloride - (2 components)
CS-CAN-9 1mL Ampule

CANADA ATLANTIC PROVINCES VPH MIXTURE

- Benzene
- Ethylbenzene
- n-Hexane
- Toluene
- 1,3,5-Trimethylbenzene
- p-Xylene
- n-Decane
- n-Heptane
- n-Octane
- 1,2,4-Trimethylbenzene
- o-Xylene
- 1-Methyl-3-Ethylbenzene

1000ug/mL in P&T Methanol - (12 components)
CS-CAN-10 1mL Ampule

CANADA ATLANTIC PROVINCES VPH SURROGATE STANDARD

- Isobutylbenzene

1000ug/mL in P&T Methanol - (1 components)
CS-CAN-11 1mL Ampule

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT
MISA ATG#27

- Arochlor 1016 Solution
- Arochlor 1232 Solution
- Arochlor 1248 Solution
- Arochlor 1260 Solution
- Toxaphene (TM) Solution
- Arochlor 1221 Solution
- Arochlor 1242 Solution
- Arochlor 1254 Solution
- Chlordane Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

POLYCHLORINATED BIPHENYLS
MISA ATG#27

- Arochlor 1016
- Arochlor 1242
- Arochlor 1254
- Arochlor 1232
- Arochlor 1221
- Arochlor 1248
- Arochlor 1260

Neat compounds of each of the above - (7 component kit)
PP-8N KIT

5mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8S KIT

1mL Solutions of each, 100ug/mL in Methanol - (7 component kit)
PP-8JS KIT

GERMAN AZODYE AMINES KIT

- o-Aminoazotoluene
- 4-Chloroaniline
- 3,3'-Dichlorobenzidine
- 2-Methoxy-5-methylaniline
- 4,4'-Methylenedianiline
- 4,4'-Oxydianiline
- Benzidine
- 4-Aminobiphenyl
- 4-Chloro-2-methylaniline
- 3,3'-Dimethoxybenzidine
- b-Naphthylamine
- 4,4'-Thiodianiline
- 2,4,5-Trimethylaniline
- 4-Methoxy-1,3-phenylenediamine
- 2,4-Diaminotoluene
- 3,3'-Dimethyl-4,4'-diaminodiphenylmethane
- 4,4'-Methylene bis(o-chloroaniline)
- 5-Nitro-o-toluidine
- o-Tolidine
- o-Toluidine

Neat compounds of each of the above - (20 component kit)
AZD-1N KIT

EC PAH CHECK MIXTURE
EUROPE

- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- 1,12-Benzoperylene
- Benzo(a)pyrene
- Fluoranthene
- Indeno(1,2,3-C,D)pyrene

100ug/mL in Methanol - (6 components)
PAHEC-610JM **1mL Ampule**

INTERNAL STANDARDS
JAPAN JMHW

F833	5g	4-Bromofluorobenzene	
F833S	5mL	2000ug/mL	Methanol (Ampule)
F833JS	1mL	2000ug/mL	Methanol (Ampule)

WATER SOLUBLE VOLATILES
MISA ATG #18

- Acrolein
- Acrylonitrile

Neat compounds of each of the above - (2 component kit)
PP-3N **KIT**

5mL Solutions of each, in the appropriate solvent - (2 component kit)
PP-3S **KIT**

Chem Service inc
We Set the Standard.

NEAT CHEMICAL KITS

Chem Service supplies certified neat chemical kits. The kits offer the convenience of small quantities, lower cost (usually 15% - 35% off buying them each individually), less disposal problems, less storage problems, and the flexibility for individually replacing the items most frequently used within your laboratory.

KITS AVAILABLE FROM CHEM SERVICE:

FOOD ANALYSIS STANDARDS KITS

- Fatty Acids
- Fatty Acids Methyl Esters
- Nitrosamines
- Vitamins
- Carbohydrates

PCB/PBB AND DERIVATIVES STANDARDS KITS

POLY NUCLEAR AROMATICS STANDARDS KIT

ORGANIC CHEMICALS KITS

- Mini Stockroom 0-1000A
- Large Functional Group Kits
- Functional Group Kits

SPECIALTY CHEMICAL KITS

- Organic Solvents
- Phthalate Kit
- Biological Stains Kit
- Inorganic Chemical Kit

COMMERCIAL CHEMICAL KITS

- Oxydation-Ultraviolet Inhibitor Kit
- Plasticizer Kits
- Surfactants ATLAB HLB Kits
- Surfactant Kits

These kits are furnished for laboratory use only. Our products may not be used as drugs, agricultural or pesticidal products, cosmetics, household chemicals or food additives.

FOOD ANALYSIS STANDARDS

We have assembled these listings of the finest standards for food and vitamin analysis with the same focus on quality, as we have in all other Chem Service standards. We offer these kits to analytical chemists to identify and calibrate their instruments. These kits are furnished for laboratory use only. Our products may not be used as drugs, agricultural or pesticidal products, cosmetics, household chemicals, or food additives.

FATTY ACIDS KIT C2-C24
FOOD ANALYSIS

O-4	Acetic acid (C2)
O-25	Propionic acid (C3)
O-5	Butyric acid (C4)
O-29	Valeric acid [Pentanoic acid] (C5)
O-7	Hexanoic acid (C6)
O-17	Heptanoic acid (C7)
O-22	Octanoic acid (C8)
O-21	Nonanoic acid (C9)
O-11	Decanoic acid (C10)
O-2322	Undecanoic acid (C11)
O-18	Lauric acid [Dodecanoic acid] (C12)
O-2323	Tridecanoic acid (C13)
O-20	Myristic acid [Tetradecanoic acid] (C14)
O-2324	Pentadecanoic acid (C15)
O-24	Palmitic acid [Hexadecanoic acid] (C16)
O-2325	Heptadecanoic acid (C17)
O-27	Stearic acid [Octadecanoic acid] (C18)
O-2326	n-Nonadecanoic acid (C19)
O-2327	Eicosanoic acid (C20)
O-2328	n-Heneicosanoic acid (C21)
O-12	Docosanoic acid (C22)
O-2329	n-Tricosanoic acid (C23)
O-2330	n-Tetracosanoic acid (C24)

Neat compounds of each of the above - (23 component kit)
FA-1N KIT

FATTY ACID METHYL ESTERS KIT C2-C24
FOOD ANALYSIS

O-421	Methyl acetate (C2)
O-432	Methyl propionate (C3)
O-422	Methyl butyrate (C4)
O-2331	Methyl valerate [Methyl pentanoate] (C5)
O-425	Methyl hexanoate (C6)
O-2332	Methyl heptanoate (C7)
O-429	Methyl octanoate (C8)
O-428	Methyl nonanoate (C9)
O-423	Methyl decanoate (C10)
O-2333	Methyl undecanoate (C11)
O-426	Methyl laurate [methyl dodecanoate] (C12)
O-2334	Methyl tridecanoate (C13)
O-427	Methyl myristate [Methyl tetradecanoate] (C14)
O-2335	Methyl pentadecanoate (C15)
O-431	Methyl palmitate [Methyl hexadecanoate] (C16)
O-2336	Methyl heptadecanoate (C17)
O-433	Methyl stearate [Methyl octadecanoate] (C18)
O-2337	Methyl nonadecanoate (C19)
O-2338	Methyl eicosanoate (C20)
O-2339	Methyl heneicosanoate (C21)
O-2340	Methyl docosanoate (C22)
O-2341	Methyl tricosanoate (C23)
O-2342	Methyl tetracosanoate (C24)

Neat compounds of each of the above - (23 component kit)
FAME-1N KIT

NITROSAMINES MIXTURE
FOOD ANALYSIS

2.5ug/mL	**F61**	N-Nitrosodimethylamine
2.5ug/mL	**F931**	N-Nitrosodiethylamine
5.0ug/mL	**F63**	N-Nitrosodi-n-propylamine
7.5ug/mL	**F930**	N-Nitrosodi-n-butylamine
7.5ug/mL	**F936**	N-Nitrosopiperidine
7.5ug/mL	**F935**	N-Nitrosopyrrolidine
7.5ug/mL	**F933**	N-Nitrosomorpholine

Mixture in Isooctane - (7 components)
CRFAN-1M 5mL Ampule
CRFAN-1JM 1mL Ampule

VITAMIN STANDARDS
FOOD ANALYSIS

V-1	Nicotinic acid [Niacin]
V-2	Pyridoxal hydrochloride
V-3	Pyridoxamine dihydrchloride
V-4	Sodium ascorbate
V-5	DL-6,8-Thioctic acid
V-6	Vitamin A palmitate [Retinol palmitate]
V-7	Vitamin B1 hydochloride [Thiamine hydrochloride]
V-8	Vitamin B1 mononitrate [Thiamine mononitrate]
V-9	Vitamin B2 [Riboflavin]
V-10	Vitamin B3/B5 [Nicotinamide]
V-11	Vitamin B3/B5 [Calcium pantothenate]
V-12	Vitamin B6 [Pyridoxine]
V-13	Vitamin B6 hydrochloride [Pyridoxin hydrochloride]
V-14	Vitamin B12 [Cyanocobalamin]
V-15	Vitamin Bx [p-Aminobenzoic acid]
V-16	Vitamin C [L-Ascorbic acid]
V-17	Vitamin D2 [Ergocalciferol]
V-18	Vitamin D3 [Cholecalciferol]
V-19	Vitamin E [(+/-)-alpha-Tocoferol]
V-20	Vitamin E acid succinate [alpha-Tocopheryl acid succinate]
V-21	Vitamin H [d-Biotin]
V-22	Vitamin K1 [Phytonadione]
V-23	Vitamin K3 [Menadione]
V-24	Folic acid [Pteroylglutamic acid]

Neat compounds of each of the above - (24 component kit)
VIT-1N KIT

FAT SOLUBLE VITAMIN STANDARDS
FOOD ANALYSIS

V-5	DL-6,8-Thioctic acid
V-6	Vitamin A palmitate [Retinol palmitate]
V-17	Vitamin D2 [Ergocalciferol]
V-18	Vitamin D3 [Cholecalciferol]
V-19	Vitamin E [(+/-)-alpha-Tocoferol]
V-20	Vitamin E acid succinate [alpha-Tocopheryl acid succinate]
V-22	Vitamin K1 [Phytonadione]
V-23	Vitamin K3 [Menadione]

Neat compounds of each of the above - (8 component kit)
VIT-3N KIT

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

WATER SOLUBLE VITAMIN STANDARDS
FOOD ANALYSIS

V-1 Nicotinic acid [Niacin]
V-2 Pyridoxal hydrochloride
V-3 Pyridoxamine dihydrchloride
V-4 Sodium ascorbate
V-7 Vitamin B1 hydochloride [Thiamine hydrochloride]
V-8 Vitamin B1 mononitrate [Thiamine mononitrate]
V-9 Vitamin B2 [Riboflavin]
V-10 Vitamin B3/B5 [Nicotinamide]
V-11 Vitamin B3/B5 [Calcium pantothenate]
V-12 Vitamin B6 [Pyridoxine]
V-13 Vitamin B6 hydrochloride [Pyridoxin hydrochloride]
V-14 Vitamin B12 [Cyanocobalamin]
V-15 Vitamin Bx [p-Aminobenzoic acid]
V-16 Vitamin C [L-Ascorbic acid]
V-21 Vitamin H [d-Biotin]
V-24 Folic acid [Pteroylglutamic acid]

Neat compounds of each of the above - (16 component kit)
VIT-2N KIT

CARBOHYDRATE KIT
FOOD ANALYSIS

SUGARS
CARB-1 DL-Arabinose
CARB-2 L-Arabinose
CARB-3 Cellobiose
CARB-4 2-Deoxy-D-glucose
CARB-5 2-Deoxy-D-ribose
CARB-6 L-Fucose
CARB-7 D-(+)-Galactose
CARB-8 D-Glucose
CARB-9 Lactose
CARB-10 D-Fructose
CARB-11 D-Lyxose
CARB-12 D-(+)-Maltose
CARB-13 D-Mannose
CARB-14 Melibiose
CARB-15 Raffinose
CARB-16 L-Rhamnose
CARB-17 D-Ribose
CARB-18 Sedoheptulosan
CARB-19 L-Sorbose
CARB-20 Sucrose
CARB-21 Trehalose
CARB-22 D-Xylose
CARB-23 L-(-)-Xylose
SUGAR ALCOHOLS
CARB-24 D-Arabinitol
CARB-25 L-Arabinitol
CARB-26 Erythritol
CARB-27 Galactitol
CARB-28 Inositol
CARB-29 D-Mannitol
CARB-30 Ribitol
CARB-31 Sorbitol
CARB-32 Xylitol
POLYSACCHARIDES
CARB-33 a-Cellulose
CARB-34 Chitin
CARB-35 Glycogen
CARB-38 Xylan
AMINO SUGARS
CARB-39 N-Acetyl-D-galactosamine
CARB-40 N-Acetyl-D-glucosamine
CARB-41 D-Galactosamine hydrochlo
CARB-42 D-Glucosamine hydrochlo
GLYCOSIDES
CARB-43 Esculin
CARB-44 Methyl-a-D-glucopyranoside
CARB-45 Methyl-b-D-glucopyranoside
CARB-46 Methyl-a-D-mannopyranoside
CARB-47 Methyl-a-D-xylopyranoside
CARB-48 Methyl-b-D-xylopyranoside
CARB-49 Phenyl-b-D-glucopyranoside
CARB-50 Salicin

Neat compounds of each of the above - (45 component kit - random selection)
CARB-45A KIT

PCB/PBB

POLYCHLORINATED BIPHENYLS
AROCHLORS® POLYCHLORINATED BIPHENYLS

F107 Arochlor 1016
F108 Arochlor 1221
F113 Arochlor 1232
F109 Arochlor 1242
F110 Arochlor 1248
F111 Arochlor 1254
F112 Arochlor 1260
F293 Arochlor 1262
F295 Arochlor 1268
F290 Arochlor 5432
F292 Arochlor 5460
F294 Arochlor 6040
F296 Arochlor 6062
F298 Arochlor 6070

Neat compounds of each of the first 7 chemicals - (7 component kit)
PP-8N KIT

Neat compounds of each of the above - (14 component kit)
PP-8XN KIT

Solutions of each of the first 7 chemicals, 100ug/mL in Methanol - (7 component kit) **PP-8S KIT (5mL Size)**
PP-8JS KIT (1mL Size)

5mL Solutions of each, 100ug/mL in Methanol - (14 component kit)
PP-8XS KIT

AROCHLORS, TOXAPHENE® & CHLORDANE SOLUTIONS KIT

- Arochlor 1016 Solution
- Arochlor 1221 Solution
- Arochlor 1232 Solution
- Arochlor 1242 Solution
- Arochlor 1248 Solution
- Arochlor 1254 Solution
- Arochlor 1260 Solution
- Chlordane Solution
- Toxaphene (TM) Solution

5mL Solutions of each, 1000ug/mL in Hexane - (9 component kit)
CTA608-1S KIT

POLYBROMINATED BIPHENYLS KIT

500mg Decabromobiphenyl
500mg 4,4'-Dibromobiphenyl
500mg Hexabromobiphenyl
100mg Octabromobiphenyl

Neat compounds of each of the above - (4 component kit)
PBB-4 KIT

0-1	Acetal	105-57-7
0-2	1.1-Dimethoxyethane	534-15-6
0-3	Methylal	109-87-5
0-4	Acetic acid	64-19-7
0-5	Butyric acid	107-92-6
0-6	Isobutyric acid	79-31-2
0-7	Hexanoic acid	142-62-1
0-8	Crotonic acid	3724-65-0
0-9	Cyclohexaneacetic acid	5292-21-7
0-10	Cyclohexanecarboxylic acid	98-89-5
0-11	Decanoic acid	334-48-5
0-12	Docosanoic acid	112-85-6
0-13	Erucic acid	112-86-7
0-14	2-Ethylbutyric acid	88-09-5
0-15	2-Ethylhexanoic acid	149-57-5
0-16	Formic acid	64-18-6
0-17	Heptanoic acid	111-14-8
0-18	Lauric acid	143-07-7
0-19	Linoleic acid	60-33-3
0-20	Myristic acid	544-63-8
0-21	Nonanoic acid	112-05-0
0-22	Octanoic acid	124-07-2
0-23	Oleic acid	112-80-1
0-24	Palmitic acid	57-10-3
0-25	Propionic acid	79-09-4
0-26	Sorbic acid	110-44-1
0-27	Stearic acid	57-11-4
0-28	10-Undecenoic acid	112-38-9
0-29	Valeric acid	109-52-4
0-30	Isovaleric acid	503-74-2
0-31	DL-Alanine	302-72-7
0-32	b-Alanine	107-95-9
0-33	DL-2-Aminobutyric acid	2835-81-6
0-34	DL-Asparagine monohydrate	3130-87-8
0-35	Betaine hydrochloride	590-46-5
0-36	L-(-)-Cystine	56-89-3
0-37	Glycine	56-40-6
0-38	L-(+)-Lysine mono hydrochloride	657-27-2
0-39	DL-Methionine	59-51-8
0-40	Bromoacetic acid	79-08-3
0-41	2-Bromo-n-butyric acid	80-58-0
0-42	Chloroacetic acid	79-11-8
0-43	2-Chloropropionic acid	598-78-7
0-44	3-Chloropropionic acid	107-94-8
0-45	Dichloroacetic acid	79-43-6
0-46	Trichloroacetic acid	76-03-9
0-47	Trifluoroacetic acid	76-05-1
0-48	Gluconic acid	526-95-4
0-49	Glycolic acid	79-14-1
0-50	12-Hydroxystearic acid	106-14-9
0-51	Lactic acid	50-21-5
0-52	Cyanoacetic acid	372-09-8
0-53	2-Furoic acid	88-14-2
0-54	Methoxyacetic acid	625-45-6
0-55	Levulinic acid	123-76-2
0-56	Pyruvic acid	127-17-3
0-57	3-Mercaptopropionic acid	107-96-0
0-58	Thioglycolic acid	68-11-1
0-59	Dehydroacetic acid	520-45-6
0-60	Adipic acid	124-04-9
0-61	Azelaic acid	123-99-9
0-62	2-Butene-1.4-dicarboxylic acid	4436-74-2
0-63	d-Camphoric acid	124-83-4
0-64	Fumaric acid	110-17-8
0-65	Glutaric acid	110-94-1
0-66	Itaconic acid	97-65-4
0-67	Maleic acid	110-16-7
0-68	Malonic acid	141-82-2
0-69	Oxalic acid dihydrate	6153-56-6
0-70	Sebacic acid	111-20-6
0-71	Succinic acid	110-15-6
0-72	dl-Aspartic acid	617-45-8
0-73	Ethylenediaminetetra acetic acid	60-00-4
0-74	L-(+)-Glutamic acid	56-86-0
0-75	Citric acid	77-92-9
0-76	dl-Malic acid	617-48-1
0-77	Mucic acid	526-99-8
0-78	L-Tartaric acid	87-69-4
0-79	a.a'-Oxydiacetic acid	110-99-6
0-80	Mercaptosuccinic acid	70-49-5
0-81	Benzoic acid	65-85-0
0-82	p-tert-Butylbenzoic acid	98-73-7
0-83	trans-Cinnamic acid	140-10-3
0-84	Diphenylacetic acid	117-34-0
0-85	Hydrocinnamic acid	501-52-0
0-86	Isophthalic acid	121-91-5
0-87	1-Naphthaleneacetic acid	86-87-3
0-88	Phenylacetic acid	103-82-2
0-89	Phthalic acid	88-99-3
0-90	Pyromellitic acid	89-05-4
0-91	Terephthalic acid	100-21-0
0-92	p-Toluic acid	99-94-5
0-93	p-Aminobenzoic acid	150-13-0
0-94	Anthranilic acid	118-92-3
0-95	N-Phenylglycine	103-01-5
0-96	N-(p-Hydroxyphenyl)glycine	122-87-2
0-97	2-Chlorobenzoic acid	118-91-2
0-98	4-Chlorobenzoic acid	74-11-3
0-99	p-Chlorophenoxyacetic acid	122-88-3
0-100	2.4-Dichlorophenoxyacetic acid	94-75-7
0-101	2.4.5.-Trichlorophenoxy acetic acid	93-76-5
0-102	Benzilic acid	76-93-7
0-103	Gallic acid	5995-86-8
0-104	4-Hydroxybenzoic acid	99-96-7
0-105	1-Hydroxy-2-naphthoic acid	86-48-6
0-106	dl-Mandelic acid	611-72-3
0-107	Salicylic acid	69-72-7
0-108	Tannic acid	1401-55-4
0-109	Hippuric acid	495-69-2
0-110	L-(-)-Tyrosine	60-18-4
0-111	Acetylsalicylic acid	50-78-2
0-112	Monobutyl phthalate	131-70-4
0-113	p-Anisic acid	100-09-4
0-114	o-Methoxybenzoic acid	579-75-9
0-115	Phenoxyacetic acid	122-59-8
0-116	2.2'-Dithiodibenzoic acid	119-80-2
0-117	o-Mercaptobenzoic acid	147-93-3
0-118	m-Nitrobenzoic acid	121-92-6
0-119	p-Nitrobenzoic acid	62-23-7
0-120	Isonicotinic acid	55-22-1
0-121	Nicotinic acid	59-67-6
0-122	Acetic anhydride	108-24-7
0-123	Bicyclo[2.2.1]5-heptene-2.3-dicarboxylic anhydride	826-62-0
0-124	Butyric anhydride	106-31-0
0-125	Citraconic anhydride	616-02-4
0-126	1.2-Cyclohexanedic arboxylic anhydride	85-42-7
0-127	cis-4-Cyclohexene-1.2-dicarboxylic anhydride	85-43-8
0-128	Maleic anhydride	108-31-6
0-129	Propionic anhydride	123-62-6
0-130	Succinic anhydride	108-30-5
0-131	Phthalic anhydride	85-44-9
0-132	Tetrachlorophthalic anhydride	117-08-8
0-133	Adipyl chloride	111-50-2
0-134	Benzoyl chloride	98-88-4
0-135	3.5-Dinitrobenzoyl chloride	99-33-2
0-136	Lauroyl chloride	112-16-3
0-137	Phthaloyl chloride	88-95-9
0-138	Allyl alcohol	107-18-6
0-139	n-Amyl alcohol	71-41-0
0-140	Isoamyl alcohol	123-51-3
0-141	tert-Amyl alcohol	75-85-4
0-142	n-Butyl alcohol	71-36-3
0-143	Isobutyl alcohol	78-83-1
0-144	sec-Butyl alcohol	78-92-2
0-145	tert-Butyl alcohol	75-65-0
0-146	Cetyl alcohol	36653-82-4
0-147	Cholesterol	57-88-5
0-148	Cyclohexanol	108-93-0
0-149	Decyl alcohol	112-30-1
0-150	Dodecyl alcohol	112-53-8
0-151	Ethyl alcohol	64-17-5
0-152	2-Ethyl-1-butanol	97-95-0
0-153	2-Ethyl-1-hexanol	104-76-7
0-154	Heptyl alcohol	111-70-6
0-155	Hexyl alcohol	111-27-3
0-156	dl-Menthol	15356-70-4
0-157	Methanol	67-56-1
0-158	2-Methyl-3-butyn-2-ol	115-19-5
0-159	2-Methylcyclohexanol	583-59-5
0-160	3-Methylcyclohexanol	591-23-1
0-161	4-Methylcyclohexanol	589-91-3
0-162	4-Methyl-2-pentanol	108-11-2
0-163	3-Methyl-1-pentyn-3-ol	77-75-8
0-164	1-Octadecanol	112-92-5
0-165	2-Octanol	123-96-6
0-166	Octyl alcohol	111-87-5
0-167	Propyl alcohol	71-23-8
0-168	Isopropyl alcohol	67-63-0
0-169	2-Propyn-1-ol	107-19-7
0-170	1-Tetradecanol	112-72-1
0-171	3.3.5-Trimethylcyclohexanol	116-02-9
0-172	2-(2-Butoxyethoxy)ethanol	112-34-5
0-173	Ethoxyethoxyethanol	111-90-0
0-174	Methoxyethoxyethanol	111-77-3
0-176	2-Butoxyethanol	111-76-2
0-177	2-Ethoxyethanol	110-80-5
0-178	2-Methoxyethanol	109-86-4
0-179	3-Methoxy-1-butanol	2517-43-3
0-180	1-Methoxy-2-propanol	107-98-2
0-181	Tetrahydrofurfuryl alcohol	97-99-4
0-182	2-Chloroethanol	107-07-3
0-183	2.3-Dibromo-1-propanol	96-13-9
0-184	1.3-Dichloro-2-propanol	96-23-1
0-185	2.3-Dichloro-1-propanol	616-23-9
0-186	3-Hydroxy-2-butanone	513-86-0
0-187	Diacetone alcohol	123-42-2
0-188	2-Mercaptoethanol	60-24-2
0-189	1.3-Butanediol	107-88-0
0-190	1.4-Butanediol	110-63-4
0-191	1.10-Decanediol	112-47-0
0-192	2.2-Diethyl-1.3-propanediol	115-76-4
0-193	Ethylene glycol	107-21-1
0-194	2-Ethyl-1.3-hexanediol	94-96-2
0-195	Glycerol	56-81-5
0-196	1.6-Hexanediol	629-11-8
0-197	1.2.6-Hexanetriol	106-69-4
0-198	2-Hydroxymethyl-2-methyl -1.3-propanediol	77-85-0
0-199	Inositol	87-89-8
0-200	Mannitol	69-65-8
0-201	Pentaerythritol	115-77-5
0-202	1.5-Pentanediol	111-29-5
0-203	Pinacol	76-09-5
0-204	1.3-Propanediol	504-63-2
0-205	Propylene glycol	57-55-6
0-206	Sorbitol	50-70-4
0-207	2.2.4-Trimethyl-1.3-pentanediol	144-19-4
0-208	Diethylene glycol	111-46-6
0-209	Dipropylene glycol	110-98-5
0-210	Triethylene glycol	112-27-6
0-211	3-Chloro-1.2-propanediol	96-24-2
0-212	Benzhydrol	91-01-0
0-213	Benzyl alcohol	100-51-6
0-214	Cinnamyl alcohol	104-54-1
0-215	a.a-Dimethylbenzyl alcohol	617-94-7
0-216	dl-a-Methylbenzyl alcohol	98-85-1
0-217	(+/-)-Phenyl-1.2-ethanediol	93-56-1
0-218	2-Phenylethyl alcohol	60-12-8
0-219	3-Phenyl-1-propanol	122-97-4
0-220	p-Anisyl alcohol	105-13-5
0-221	2-Phenoxyethanol	122-99-6
0-222	Benzoin	119-53-9
0-223	o-Hydroxyacetophenone	118-93-4
0-224	p-Hydroxyacetophenone	99-93-4
0-225	n-Butyraldehyde	123-72-8
0-226	Citral	5392-40-5
0-227	Citronellal	106-23-0
0-228	Crotonaldehyde	4170-30-3
0-229	Formaldehyde (in water)	50-00-0
0-230	Glyoxal	107-22-2
0-231	Heptaldehyde	111-71-7
0-232	Paraformaldehyde	30525-89-4
0-233	Propionaldehyde	123-38-6
0-234	Valeraldehyde	110-62-3
0-235	Furfural	98-01-1
0-236	Aldol	107-89-1
0-238	Acetaldehyde ammonia trimer, trihydrate	58052-80-5
0-239	Benzaldehyde	100-52-7
0-240	trans-Cinnamaldehyde	14371-10-9
0-241	Hydrocinnamaldehyde	104-53-0
0-242	Phenylacetaldehyde	122-78-1
0-243	p-Tolualdehyde	104-87-0
0-244	p-Dimethylamino benzaldehyde	100-10-7
0-245	p-Anisaldehyde	123-11-5
0-246	4-Hydroxybenzaldehyde	123-08-0
0-247	Salicylaldehyde	90-02-8
0-248	Acetamide	60-35-5
0-249	Adipamide	628-94-4
0-250	N.N-Diethyldodecanamide	3352-87-2
0-251	N.N-Dimethylacetamide	127-19-5
0-252	N.N-Dimethylformamide	68-12-2
0-253	Formamide	75-12-7
0-254	N-Methylacetamide	79-16-3
0-255	Oxamide	471-46-5
0-256	Propionamide	79-05-0
0-257	Succinamide	110-14-5
0-258	2-Chloroacetamide	79-07-2
0-259	2-Cyanoacetamide	107-91-5
0-260	Dicyanodiamide	461-58-5
0-261	Thioacetamide	62-55-5
0-262	Acetanilide	103-84-4
0-263	Benzamide	55-21-0
0-264	Benzanilide	93-98-1
0-265	Oxanilide	620-81-5
0-266	Phenylacetamide	103-81-1
0-267	Phthalamide	88-96-0
0-268	4'-Bromoacetanilide	103-88-8
0-269	Salicylamide	65-45-2
0-270	Acetoacetanilide	102-01-2
0-271	Nicotinamide	98-92-0
0-272	Allylamine	107-11-9
0-273	n-Butylamine	109-73-9
0-274	Isobutylamine	78-81-9
0-275	sec-Butylamine	13952-84-6
0-276	tert-Butylamine	75-64-9
0-277	Cyclohexylamine	108-91-8
0-278	Diallylamine	124-02-7
0-279	Dibutylamine	111-92-2
0-280	Dicyclohexylamine	101-83-7
0-281	Diethylamine hydrochloride	660-68-4
0-282	Dimethylamine hydrochloride	506-59-2
0-283	N.N-Dimethyldodecyl amine	112-18-5
0-284	2.6-Dimethylpiperidine	504-03-0
0-285	Dipropylamine	142-84-7
0-286	Ethylamine hydrochloride	557-66-4
0-287	2-Ethylhexylamine	104-75-6
0-288	Hexadecylamine	143-27-1
0-289	Hexylamine	111-26-2
0-290	Methylamine hydrochloride	593-51-1
0-291	N-Methylcyclohexylamine	100-60-7
0-292	2-Methylpiperidine	109-05-7
0-293	Piperidine	110-89-4
0-294	Pyrrolidine	123-75-1
0-295	Triallylamine	102-70-5
0-296	Tributylamine	102-82-9
0-297	Triethylamine	121-44-8
0-298	Trimethylamine hydrochloride	593-81-7
0-299	2-Amino-2-(hydroxymethyl) -1.3-propanediol	77-86-1
0-300	2-Amino-2-methyl-1.3 -propanediol	115-69-5
0-301	2-Amino-2-methyl-1-propanol	124-68-5
0-302	1-Amino-2-propanol	78-96-6
0-303	3-Amino-1-propanol	156-87-6
0-304	2-Dibutylaminoethanol	102-81-8
0-305	Diethanolamine	111-42-2
0-306	2-Diethylaminoethanol	100-37-8
0-307	2-Dimethylaminoethanol	108-01-0
0-308	1-Dimethylamino-2-propanol	108-16-7
0-309	3-(Dimethylamino)-1-propanol	3179-63-3
0-310	Diisopropanolamine	110-97-4
0-311	Ethanolamine	141-43-5
0-312	2-Ethylaminoethanol	110-73-6
0-313	2-Methylaminoethanol	109-83-1
0-314	Triethanolamine	102-71-6
0-315	Triisopropanolamine	122-20-3
0-316	N-Ethylmorpholine	100-74-3
0-317	3-Methoxypropylamine	5332-73-0
0-318	N-Methylmorpholine	109-02-4
0-319	Morpholine	110-91-8
0-320	Choline chloride	67-48-1
0-321	2-Pyrrolidone	616-45-5
0-322	4.4'-Dithiodimorpholine	103-34-4
0-323	3.3'-Diaminodipropylamine	56-18-8
0-324	Diethylenetriamine	111-40-0
0-325	N.N-Diethylethylenediamine	100-36-7
0-326	N.N.-Diethyl-1.3-propanediamine	104-78-9
0-327	N.N.-Dimethyl-1.3-propanediamine	109-55-7
0-328	Ethylenediamine	107-15-3
0-329	Hexamethylene tetramine	100-97-0
0-330	1.6-Hexanediamine	124-09-4
0-331	Piperazine anhydrous	110-85-0
0-332	1.2-Propanediamine	78-90-0
0-333	Triethylenetetramine	112-24-3
0-334	2-(2-Aminoethylamino)ethanol	111-41-1
0-335	Aniline	62-53-3
0-336	Aniline hydrochloride	142-04-1
0-337	Benzylamine	100-46-9
0-338	Dibenzylamine	103-49-1
0-339	N.N-Diethylaniline	91-66-7
0-340	N.N.-Diethyl-p-phenylenediamine monohydrochloride	2198-58-5
0-341	N.N-Dimethylaniline	121-69-7
0-342	2.4-Dimethylaniline	95-68-1
0-343	N.N-Dimethyl-p-phenylene diamine dihydrochloride	536-46-9
0-344	Diphenylamine	122-39-4
0-345	N.N'-Diphenyl-p-phenyl enediamine	74-31-7
0-346	N-Ethylaniline	103-69-5
0-347	Indole	120-72-9
0-348	N-Methylaniline	100-61-8
0-349	4.4'-Methylenedianiline	101-77-9
0-350	Phenethylamine	64-04-0
0-351	o-Phenylenediamine	95-54-5
0-352	m-Phenylenediamine	108-45-2
0-353	p-Phenylenediamine	106-50-3
0-354	o-Toluidine	95-53-4
0-355	m-Toluidine	108-44-1
0-356	p-Toluidine	106-49-0
0-357	Tribenzylamine	620-40-6
0-358	o-Anisidine	90-04-0
0-359	p-Anisidine	104-94-9
0-360	2.5-Diethoxyaniline	94-85-9
0-361	2-Chloroaniline	95-51-2
0-362	3-Chloroaniline	108-42-9
0-363	4-Chloroaniline	106-47-8
0-364	5-Chloro-2-methylaniline	95-79-4
0-365	2.5-Dichloroaniline	95-82-9
0-366	3.4-Dichloroaniline	95-76-1

0-367	p-Aminophenylethyl alcohol	104-10-9
0-368	2-Anilinoethanol	122-98-5
0-369	2,4-Dinitroaniline	97-02-9
0-370	N-Methyl-N-nitroso aniline	614-00-6
0-371	o-Nitroaniline	88-74-4
0-372	m-Nitroaniline	99-09-2
0-373	p-Nitroaniline	100-01-6
0-374	N-Nitrosodiphenylamine	86-30-6
0-375	4-Chloro-2-nitroaniline	89-63-4
0-376	2,6-Dichloro-4-nitroaniline	99-30-9
0-377	Isatin	91-56-5
0-378	o-Aminobenzenethiol	137-07-5
0-379	Ethylhexadecyldimethyl ammonium bromide	124-03-8
0-380	Tetramethylammonium chloride	75-57-0
0-381	Trimethylphenylammonium benzenesulfonate	
0-382	Trimethylphenylammonium iodide	98-04-4
0-383	Azobenzene	103-33-3
0-384	2,2'-Azodiisobutyronitrile	78-67-1
0-385	Azoxybenzene	495-48-7
0-386	p-Phenylazoaniline	60-09-3
0-387	Bis(dimethylthiocarbamyl) disulfide	137-26-8
0-388	Carbanilide	102-07-8
0-389	N,N'-Diethylcarbanilide	85-98-3
0-390	Diethyldithiocarbamic acid sodium salt trihydrate	20624-25-3
0-391	Ethyl carbamate	51-79-6
0-392	Semicarbazide hydrochloride	563-41-7
0-393	Thiosemicarbazide	79-19-6
0-394	Dibutyl carbonate	542-52-9
0-395	Diethyl carbonate	105-58-8
0-396	Dimethyl carbonate	616-38-6
0-397	Diphenyl carbonate	102-09-0
0-398	Ethylene carbonate	96-49-1
0-399	Propylene carbonate	108-32-7
0-400	Bis(o-methoxyphenyl) carbonate	553-17-3
0-401	Bis(2-chloroethyl)carbonate	
0-402	Benzyl thiocyanate	3012-37-1
0-403	Phenyl isocyanate	103-71-9
0-404	Tolylene-2,4-diisocyanate	584-84-9
0-405	Allyl acetate	591-87-7
0-406	Isoamyl acetate	123-92-2
0-407	n-Butyl acetate	123-86-4
0-408	Butyl butyrate	109-21-7
0-409	Butyl oleate	142-77-8
0-410	Butyl stearate	123-95-5
0-411	Cyclohexyl acetate	622-45-7
0-412	Ethyl acetate	141-78-6
0-413	Ethyl butyrate	105-54-4
0-414	Ethyl formate	109-94-4
0-415	Ethyl hexanoate	123-66-0
0-416	2-Ethylhexyl acetate	103-09-3
0-417	Ethyl oleate	111-62-6
0-418	Ethyl propionate	105-37-3
0-419	Hexyl acetate	142-92-7
0-420	Methyl abietate	127-25-3
0-421	Methyl acetate	79-20-9
0-422	Methyl butyrate	623-42-7
0-423	Methyl decanoate	110-42-9
0-424	Methyl formate	107-31-3
0-425	Methyl hexanoate	106-70-7
0-426	Methyl laurate	111-82-0
0-427	Methyl myristate	124-10-7
0-428	Methyl nonanoate	1731-84-6
0-429	Methyl octanoate	111-11-5
0-430	Methyl oleate	112-62-9
0-431	Methyl palmitate	112-39-0
0-432	Methyl propionate	554-12-1
0-433	Methyl stearate	112-61-8
0-434	Methyl undecenoate	111-81-9
0-435	Octadecyl acetate	822-23-1
0-436	Isopropenyl acetate	108-22-5
0-437	Propyl acetate	109-60-4
0-438	Iso-propyl acetate	108-21-4
0-439	Propyl formate	110-74-7
0-440	Propyl propionate	106-36-5
0-441	2-(2-Butoxyethoxy)ethyl acetate	124-17-4
0-442	2-(2-Ethoxyethoxy)ethyl acetate	112-15-2
0-443	2-Ethoxyethyl acetate	111-15-9
0-444	Furfuryl acetate	623-17-6
0-445	3-Methoxy-1-butyl acetate	4435-53-4
0-446	2-Methoxyethyl acetate	110-49-6
0-447	Tetrahydrofurfuryl acetate	637-64-9
0-448	n-Butyl chloroformate	592-34-7
0-449	Ethyl bromoacetate	105-36-2
0-450	Ethyl-2-bromopropionate	535-11-5
0-451	Ethyl-3-bromopropionate	539-74-2
0-452	Ethyl chloroacetate	105-39-5
0-453	Ethyl chloroformate	541-41-3
0-454	Ethyl 2,3-dibromopropionate	3674-13-3
0-455	Ethyl trichloroacetate	515-84-4
0-456	n-Butyl lactate	138-22-7
0-457	Ethyl lactate	97-64-3
0-458	Glyceryl monostearate	31566-31-1
0-459	2-Hydroxyethyl acetate	542-59-6
0-460	Monoacetin	26446-35-5
0-461	Monobutyrin	557-25-5
0-462	Glycine ethyl ester hydrochloride	623-33-6
0-463	Ethyl cyanoacetate	105-56-6
0-464	Acetonyl acetate	592-20-1
0-465	Ethyl acetoacetate	141-97-9
0-466	Ethyl mercaptoacetate	623-51-8
0-467	Bis(2-ethylhexyl)adipate	103-23-1
0-468	Diallyl adipate	2998-04-1
0-469	Diallyl maleate	999-21-3
0-470	Diisoamyl oxalate	
0-471	Dibutyl adipate	105-99-7
0-472	Dibutyl fumarate	105-75-9
0-473	Dibutyl maleate	105-76-0
0-474	Dibutyl oxalate	2050-60-4
0-475	Dibutyl sebacate	109-43-3
0-476	Dibutyl succinate	141-03-7
0-477	Dicyclohexyl adipate	
0-478	Diethyl adipate	141-28-6
0-479	Diethyl diethylmalonate	77-25-8
0-480	Diethyl ethylmalonate	133-13-1
0-481	Diethyl fumarate	623-91-6
0-482	Diethyl maleate	141-05-9
0-483	Diethyl malonate	105-53-3
0-484	Diethyl oxalate	95-92-1
0-485	Diethyl sebacate	110-40-7
0-486	Diethyl succinate	123-25-1
0-487	Dimethyl adipate	627-93-0
0-488	Dimethyl-1,4-cyclohexane dicarboxylate	94-60-0
0-489	Dimethyl itaconate	617-52-7
0-490	Dimethyl oxalate	553-90-2
0-491	Dimethyl sebacate	106-79-6
0-492	Ethylene diacetate	111-55-7
0-493	Ethylidene diacetate	542-10-9
0-494	Pentaerythritol tetra stearate	115-83-3
0-495	2-Propenylidene diacetate	869-29-4
0-496	1,2-Propylene dilaurate	
0-497	1,2-Propylene distearate	
0-498	Triacetin	102-76-1
0-499	Tristearin	555-43-1
0-500	Tributyrin	60-01-5
0-501	Tripropionin	139-45-7
0-502	Bis(2-ethoxyethyl)adipate	109-44-4
0-503	Bis(2-ethoxyethyl)sebacate	624-10-2
0-504	Di(tetrahydrofurfuryl)adipate	
0-505	D-a-Glucose pentaacetate	3891-59-6
0-506	Oxybis(2-ethyl acetate)	628-68-2
0-507	Sucrose octaacetate	126-14-7
0-508	Triethylene glycol diacetate	111-21-7
0-509	Diacetin	25395-31-7
0-510	Dibutyl-D-tartrate	87-92-3
0-511	Tributyl citrate	77-94-1
0-512	Triethyl citrate	77-93-0
0-513	Diethyl bromomalonate	685-87-0
0-514	Benzyl acetate	140-11-4
0-515	Benzyl benzoate	120-51-4
0-516	Bis(2-ethylhexyl)phthalate	117-81-7
0-517	Butyl benzoate	136-60-7
0-518	Di-n-butyl phthalate	84-74-2
0-519	Diallyl phthalate	131-17-9
0-520	Diamyl phthalate	131-18-0
0-521	Dibenzyl succinate	103-43-5
0-522	Diisobutyl phthalate	84-69-5
0-523	Dicyclohexyl phthalate	84-61-7
0-524	Diethyl phenylmalonate	83-13-6
0-525	Diethyl phthalate	84-66-2
0-526	Dimethyl phthalate	131-11-3
0-527	Dimethyl isophthalate	1459-93-4
0-528	Dimethyl terephthalate	120-61-6
0-529	Di-n-octyl phthalate	117-84-0
0-530	Diphenyl phthalate	84-62-8
0-531	Ethyl benzoate	93-89-0
0-532	Ethyl cinnamate	103-36-6
0-533	Ethyl phenylacetate	101-97-3
0-534	Methyl benzoate	93-58-3
0-535	Methyl cinnamate	103-26-4
0-536	2-Naphthyl benzoate	93-44-7
0-537	Phenylacetate	122-79-2
0-538	Phenyl benzoate	93-99-2
0-539	m-Phenylene diacetate	108-58-7
0-540	p-Phenylene diacetate	1205-91-0
0-541	2-Phenylethyl acetate	103-45-7
0-542	o-Tolyl acetate	533-18-6
0-543	m-Tolyl acetate	122-46-3
0-544	p-Tolyl acetate	140-39-6
0-545	Bis(2-n-butoxyethyl)phthalate	117-83-9
0-546	Bis(2-ethoxyethyl)phthalate	605-54-9
0-547	Bis(2-methoxyethyl)phthalate	117-82-8
0-549	Ethyl-p-hydroxybenzoate	120-47-8
0-550	Ethyl salicylate	118-61-6
0-551	Methyl-p-hydroxybenzoate	99-76-3
0-552	Methylsalicylate	119-36-8
0-553	Phenyl salicylate	118-55-8
0-554	Resorcinol monoacetate	102-29-4
0-555	Ethyl benzoylacetate	94-02-0
0-556	Triethyl-o-acetate	78-39-7
0-557	Triethyl-o-formate	122-51-0
0-558	Trimethyl-o-formate	149-73-5
0-559	Allyl ether	557-40-4
0-560	Isoamyl ether	
0-561	Bis(2-ethoxyethyl)ether	112-36-7
0-562	1,2-Bis(2-methoxyethoxy) ethane	112-49-2
0-563	Bis[2-(2-methoxyethoxy) ethyl]ether	143-24-8
0-564	Bis(2-methoxyethyl)ether	111-96-6
0-565	Butyl ether	142-96-1
0-566	2,5-Dihydrofuran	1708-29-8
0-567	1,2-Dimethoxyethane	110-71-4
0-568	1,4-Dioxane	123-91-1
0-569	Ethyl ether	60-29-7
0-570	Hexyl ether	112-58-3
0-571	2-Methylfuran	534-22-5
0-572	Propylene oxide	75-56-9
0-573	Isopropyl ether	108-20-3
0-574	Tetrahydrofuran	109-99-9
0-575	Tetrahydro-2-methylfuran	96-47-9
0-576	1,2-Bis(2-chloroethoxy)ethane	112-26-5
0-577	Bis(2-chloroethyl)ether	111-44-4
0-578	Epichlorohydrin	106-89-8
0-579	Isoamyl benzyl ether	122-73-6
0-580	Anethole	4180-23-8
0-581	Anisole	100-66-3
0-582	Benzyl ether	103-50-4
0-583	Bis(a-methylbenzyl)ether	93-96-9
0-584	Bis(2-phenoxyethyl)ether	
0-585	Dibenzofuran	132-64-9
0-586	p-Dibutoxybenzene	104-36-9
0-587	o-Diethoxybenzene	2050-46-6
0-588	p-Diethoxybenzene	122-95-2
0-589	p-Dimethoxybenzene	150-78-7
0-590	1,2-Diphenoxyethane	104-66-5
0-591	1,2-Epoxyethylbenzene	96-09-3
0-592	1,2-Epoxy-3-phenoxypropane	122-60-1
0-593	2-Ethoxynaphthalene	93-18-5
0-594	2-Methoxynaphthalene	93-04-9
0-595	Phenetole	103-73-1
0-596	Phenyl ether	101-84-8
0-597	Bis(p-bromophenyl)ether	2050-47-7
0-598	p-Chlorophenetole	622-61-7
0-599	1,3-Di-o-tolylguanidine	97-39-2
0-600	Guanidine hydrochloride	50-01-1
0-601	1-Bromobutane	109-65-9
0-602	2-Bromobutane	78-76-2
0-603	1-Bromo-2-chloroethane	107-04-0
0-604	Bromochloromethane	74-97-5
0-605	1-Bromo-3-chloropropane	109-70-6
0-606	2-Bromo-1-chloropropane	3017-95-6
0-607	Bromocyclohexane	108-85-0
0-608	1-Bromodecane	112-29-8
0-609	1-Bromododecane	143-15-7
0-610	Bromoform	75-25-2
0-611	1-Bromohexane	111-25-1
0-613	1-Bromo-2-methylpropane	78-77-3
0-614	2-Bromo-2-methylpropane	507-19-7
0-615	1-Bromopentane	110-53-2
0-616	2-Bromopentane	107-81-3
0-617	1-Bromopropane	106-94-5
0-618	2-Bromopropane	75-26-3
0-619	Bromotrichloromethane	75-62-7
0-620	Carbon tetrachloride	56-23-5
0-621	1-Chlorobutane	109-69-3
0-622	2-Chlorobutane	78-86-4
0-623	Chloroform	67-66-3
0-624	1-Chlorohexane	544-10-5
0-625	1-Chloro-3-methylbutane	107-84-6
0-626	2-Chloro-2-methylbutane	594-36-5
0-627	3-(Chloromethyl)heptane	123-04-6
0-628	2-Chloro-2-methylpropane	507-20-0
0-629	1-Chlorooctadecane	3386-33-2
0-630	1-Chloropentane	543-59-9
0-631	1,4-Dibromobutane	110-52-1
0-632	1,2-Dibromo-1,1-dichloro ethane	75-81-0
0-633	Dibromomethane	74-95-3
0-634	1,2-Dibromopropane	78-75-1
0-635	1,3-Dibromopropane	109-64-8
0-636	1,4-Dichlorobutane	110-56-5
0-637	1,5-Dichloropentane	628-76-2
0-638	1,2-Dichloropropane	78-87-5
0-639	1,3-Dichloropropane	142-28-9
0-640	Ethyl bromide	74-96-4
0-641	Ethylene bromide	106-93-4
0-642	Ethylene chloride	107-06-2
0-643	Ethyl iodide	75-03-6
0-644	Hexachloroethane	67-72-1
0-645	Iodoform	75-47-8
0-646	1-Iodopropane	107-08-4
0-647	2-Iodopropane	75-30-9
0-648	Methylene chloride	75-09-2
0-649	Methyl iodide	74-88-4
0-650	1,2,3,4-Tetrabromobutane	1529-68-6
0-651	s-Tetrachloroethane	79-34-5
0-652	1,1,1-Trichloroethane	71-55-6
0-653	1,1,2-Trichloroethane	79-00-5
0-654	1,2,3-Trichloropropane	96-18-4
0-655	Allyl bromide	106-95-6
0-656	Allyl chloride	107-05-1
0-657	3-Chloro-2-methylpropene	563-47-3
0-658	1,4-Dichloro-2-butene cis & trans	764-41-0
0-659	cis-1,2-Dichloroethene	156-59-2
0-660	trans-1,2-Dichloroethene	156-60-5
0-661	2,3-Dichloropropene	78-88-6
0-662	Hexachloro-1,3-butadiene	87-68-3
0-663	Tetrachloroethene	127-18-4
0-664	Trichloroethene	79-01-6
0-665	Benzyl chloride	100-44-7
0-666	Bromobenzene	108-86-1
0-667	1-Bromo-4-chlorobenzene	106-39-8
0-668	p-Bromotoluene	106-38-7
0-669	Chlorobenzene	108-90-7
0-670	Chlorodiphenylmethane	90-99-3
0-671	1-Chloronaphthalene	90-13-1
0-672	2-Chlorotoluene	95-49-8
0-673	3-Chlorotoluene	108-41-8
0-674	4-Chlorotoluene	106-43-4
0-675	p-Dibromobenzene	106-37-6
0-676	4,4'-Dibromobiphenyl	92-86-4
0-677	1,2-Dichlorobenzene	95-50-1
0-678	1,3-Dichlorobenzene	541-73-1
0-679	1,4-Dichlorobenzene	106-46-7
0-680	a,a-Dichlorotoluene	98-87-3
0-681	a,o-Dichlorotoluene	611-19-8
0-682	a,p-Dichlorotoluene	104-83-6
0-683	2,4-Dichlorotoluene	95-73-8
0-684	Fluorobenzene	462-06-6
0-685	Hexachlorobenzene	118-74-1
0-686	Iodobenzene	591-50-4
0-687	p-Iodotoluene	624-31-7
0-688	1,2,4,5-Tetrachlorobenzene	95-94-3
0-689	1,2,4-Trichlorobenzene	120-82-1
0-690	a,a,a-Trichlorotoluene	98-07-7
0-691	a,a,a-Trifluorotoluene	98-08-8
0-692	2-Aminopyridine	504-29-0
0-693	Benzimidazole	51-17-2
0-694	Carbazole	86-74-8
0-695	Cyanuric acid	108-80-5
0-696	3,5-Dimethylpyrazole	67-51-6
0-697	8-Hydroxyquinoline	148-24-3
0-698	Isoquinoline	119-65-3
0-699	2,4-Lutidine	108-47-4
0-700	2,6-Lutidine	108-48-5
0-701	Melamine	108-78-1
0-702	2-Methylpyrazine	109-08-0
0-703	2-Picoline	109-06-8
0-704	3-Picoline	108-99-6
0-705	4-Picoline	108-89-4
0-706	Pyridine	110-86-1
0-707	Quinoline	91-22-5
0-708	2,4,6-Trimethylpyridine	108-75-8
0-709	Benzoxazole	273-53-0
0-710	2-Aminothiazole	96-50-4
0-711	Benzothiazole	95-16-9
0-712	2-Benzothiazolol	934-34-9
0-713	2,2'-Dithiobis(benzothiazole)	120-78-5
0-714	2-Imidazolidinethione	96-45-7
0-715	2-Mercaptobenzothiazole	149-30-4
0-716	2-Methylbenzothiazole	120-75-2
0-717	Phenothiazine	92-84-2
0-718	Phenothioxin	262-20-4
0-719	2,5-Dibromothiophene	3141-27-3
0-720	Tetrahydrothiophene	110-01-0
0-721	Thiophene	110-02-1
0-722	1,3,5-Trithiane symetrical	291-21-4
0-723	1,1-Dimethylhydrazine	57-14-7
0-724	2,4-Dinitrophenylhydrazine (water added)	119-26-6
0-725	1,5-Diphenyl-3-thiocarbo-hydrazide	622-03-7
0-726	Hydrazine dihydrochloride	5341-61-7
0-727	Maleic acid hydrazide	123-33-1
0-728	Phenylhydrazine hydro chloride	59-88-1
0-729	n-Decane	124-18-5
0-730	Diisopropane	79-29-8
0-731	n-Dodecane	112-40-3
0-732	n-Eicosane	112-95-8
0-733	n-Heptane	142-82-5

0-734	n-Hexadecane	544-76-3
0-735	n-Hexane	110-54-3
0-736	2-Methylpentane	107-83-5
0-737	3-Methylpentane	96-14-0
0-738	Neohexane	75-83-2
0-739	n-Octadecane	593-45-3
0-740	n-Octane	111-65-9
0-741	2.2.4-Trimethylpentane	540-84-1
0-742	Cyclohexane	110-82-7
0-743	Cyclopentane	287-92-3
0-744	Decahydronaphthalene	91-17-8
0-745	Methylcyclohexane	108-87-2
0-746	Methylcyclopentane	96-37-7
0-747	Camphene	79-92-5
0-748	Cyclohexene	110-83-8
0-749	Diisobutylene	107-39-1
0-750	Dipentene	138-86-3
0-751	2-Heptene	592-77-8
0-752	1-Hexene	592-41-6
0-753	2-Hexene	592-43-8
0-754	d-Limonene	5989-27-5
0-755	4-Methylcyclohexene	591-47-9
0-756	1-Octene	111-66-0
0-757	2-Octene	111-67-1
0-758	Pinene	
0-759	4-Vinyl-1-cyclohexene	100-40-3
0-760	Benzene	71-43-2
0-761	Bibenzyl	103-29-7
0-762	Biphenyl	92-52-4
0-763	tert-Butylbenzene	98-06-6
0-764	Cumene	98-82-8
0-765	p-Cymene	99-87-6
0-766	m-Diethylbenzene	141-93-5
0-767	Diphenylmethane	101-81-5
0-768	1.3-Diisopropylbenzene	99-62-7
0-769	Durene	95-93-2
0-770	Ethylbenzene	100-41-4
0-771	Mesitylene	108-67-8
0-772	Phenylcyclohexane	827-52-1
0-773	p-Terphenyl	92-94-4
0-774	1,2,3,4-Tetrahydrona phthalene	119-64-2
0-774	1,2,3,4-Tetrahydrona phthalene	119-64-2
0-775	Toluene	108-88-3
0-776	1.3.5-Triethylbenzene	102-25-0
0-777	1.2.4-Trimethylbenzene	95-63-6
0-778	Triphenylmethane	519-73-3
0-779	o-Xylene	95-47-6
0-780	m-Xylene	108-38-3
0-781	p-Xylene	106-42-3
0-782	Acenaphthene	83-32-9
0-783	Anthracene	120-12-7
0-784	Dimethyl naphthalene (mixed isomers)	28804-88-8
0-785	Fluoranthene	206-44-0
0-786	Fluorene	86-73-7
0-787	1-Methylnaphthalene	90-12-0
0-788	2-Methylnaphthalene	91-57-6
0-789	Naphthalene	91-20-3
0-790	Phenanthrene	85-01-8
0-791	Pyrene	129-00-0
0-792	trans-Stilbene	103-30-0
0-793	Phthalimide	85-41-6
0-794	Succinimide	123-56-8
0-795	o-Benzoic sulfimide	81-07-2
0-796	N-Bromosuccinimide	128-08-5
0-797	N-Chlorosuccinimide	128-09-6
0-798	Acetone	67-64-1
0-799	d-Camphor	464-49-3
0-800	Cyclohexanone	108-94-1
0-801	Cyclopentanone	120-92-3
0-802	2.6-Dimethyl-4-heptanone	108-83-8
0-803	Fenchone	1195-79-5
0-804	2-Heptanone	110-43-0
0-805	3-Heptanone	106-35-4
0-806	4-Heptanone	123-19-3
0-807	Isophorone	78-59-1
0-808	Mesityl oxide	141-79-7
0-809	Methyl isobutyl ketone	108-10-1
0-810	Methyl ethyl ketone	78-93-3
0-811	2-Octanone	111-13-7
0-812	2-Pentanone	107-87-9
0-813	3-Pentanone	96-22-0
0-814	Chloro-2-propanone	78-95-5
0-815	Acetylacetone	123-54-6
0-816	2.3-Butanedione	431-03-8
0-817	2.5-Hexanedione	110-13-4
0-818	2.3-Pentanedione	600-14-6
0-819	1'-Acetonaphthone	941-98-0
0-820	2'-Acetonaphthone	93-08-3
0-821	Acetophenone	98-86-2
0-822	Benzil	134-81-6
0-823	Benzophenone	119-61-9
0-824	p-Methylacetophenone	122-00-9
0-825	trans-4-Phenyl-3-butene-2-one	122-57-6
0-827	4-Butyrolactone	96-48-0
0-828	Caprolactam	105-60-2
0-829	Coumarin	91-64-5
0-830	Gluconic-D-lactone	90-80-2
0-831	Isoamyl nitrite	110-46-3
0-832	Butyl nitrite	544-16-1
0-833	Propyl nitrate	627-13-4
0-834	Acetonitrile	75-05-8
0-835	Adiponitrile	111-69-3
0-836	Benzonitrile	100-47-0
0-837	Isobutyronitrile	78-82-0
0-838	Phenylacetonitrile	140-29-4
0-839	Phthalonitrile	91-15-6
0-840	Propionitrile	107-12-0
0-841	3-Diethylaminopropionitrile	5351-04-2
0-842	3-Dimethylamino-propionitrile	1738-25-6
0-843	3.3'-Iminodipropionitrile	111-94-4
0-844	3-Ethoxypropionitrile	2141-62-0
0-845	3-Methoxypropionitrile	110-67-8
0-846	3.3'-Oxydipropionitrile	1656-48-0
0-847	(p-Chlorophenyl)acetonitrile	140-53-4
0-849	Hydracrylonitrile	109-78-4
0-850	p-Nitrophenylacetonitrile	555-21-5
0-851	m-Dinitrobenzene	99-65-0
0-852	Nitrobenzene	98-95-3
0-853	Nitroethane	79-24-3
0-854	Nitromethane	75-52-5
0-855	1-Nitronaphthalene	86-57-7
0-856	1-Nitropropane	108-03-2
0-857	2-Nitropropane	79-46-9
0-858	o-Nitrotoluene	88-72-2
0-859	m-Nitrotoluene	99-08-1
0-860	p-Nitrotoluene	99-99-0
0-861	1-Chloro-2-nitrobenzene	88-73-3
0-862	1-Chloro-3-nitrobenzene	121-73-3
0-863	1-Chloro-4-nitrobenzene	100-00-5
0-864	1-Chloro-1-nitropropane	600-25-9
0-865	Cupferron	135-20-6
0-866	Acetone oxime	127-06-0
0-867	Dimethylglyoxime	95-45-4
0-868	Diphenylglyoxime	23873-81-6
0-869	4-tert-Butylphenol	98-54-4
0-870	o-Cresol	95-48-7
0-871	m-Cresol	108-39-4
0-872	p-Cresol	106-44-5
0-873	2.6-Di-tert-butyl-p-cresol	128-37-0
0-874	2.6-Dimethylphenol	576-26-1
0-875	3.4-Dimethylphenol	95-65-8
0-876	3.5-Dimethylphenol	108-68-9
0-877	1-Naphthol	90-15-3
0-878	2-Naphthol	135-19-3
0-879	Phenol	108-95-2
0-881	o-Aminophenol	95-55-6
0-882	m-Aminophenol	591-27-5
0-883	p-Aminophenol	123-30-8
0-884	p-Anilinophenol	122-37-2
0-885	m-Diethylaminophenol	91-68-9
0-886	p-Butoxyphenol	122-94-1
0-887	p-Methoxyphenol	150-76-5
0-888	4-Chloro-3-methylphenol	59-50-7
0-889	2-Chlorophenol	95-57-8
0-890	4-Chlorophenol	106-48-9
0-891	2.4-Dichlorophenol	120-83-2
0-892	Pentachlorophenol	87-86-5
0-893	2.4.5-Trichlorophenol	95-95-4
0-894	2.4.6-Trichlorophenol	88-06-2
0-895	2-Nitrophenol	88-75-5
0-896	4-Nitrophenol	100-02-7
0-897	1-Nitroso-2-naphthol	131-91-9
0-898	2-Amino-4-nitrophenol	99-57-0
0-899	4-Chloro-2-nitrophenol	89-64-5
0-900	tert-Butylhydroquinone	1948-33-0
0-901	4-tert-Butylpyrocatechol	98-29-3
0-902	Catechol	120-80-9
0-903	2.5-Di-tert-amylhydroquinone	79-74-3
0-904	2.5-Di-tert-butylhydroquinone	88-58-4
0-905	Hydroquinone	123-31-9
0-906	1.4-Naphthalenediol	571-60-8
0-907	1.5-Naphthalenediol	83-56-7
0-908	Pyrogallol	87-66-1
0-909	Resorcinol	108-46-3
0-910	2.2'.4.4'-Tetrahydroxy benzophenone	131-55-5
0-911	Benzenephosphonic acid	1571-33-1
0-912	Benzenephosphonous acid	1779-48-2
0-913	Dibutyl phosphite	1809-19-4
0-914	Diethyl ethylphosphonate	78-38-6
0-915	Diphenyl phosphite	4712-55-4
0-916	Tributyl phosphate	126-73-8
0-917	Tributyl phosphite	102-85-2
0-918	Tri-o-cresyl phosphate	78-30-8
0-919	Triethyl phosphate	78-40-0
0-920	Triethyl phosphite	122-52-1
0-921	Triphenyl phosphate	115-86-6
0-922	Triphenyl phosphite	101-02-0
0-923	Dichlorophenyl phosphine	644-97-3
0-924	Dichlorophenyl phosphine oxide	824-72-6
0-925	Dichlorophenyl phosphine sulfide	3497-00-5
0-926	Anthraquinone	84-65-1
0-927	1.4-Naphthoquinone	130-15-4
0-928	Quinhydrone	106-34-3
0-929	p-Quinone	106-51-4
0-930	2-Aminoanthraquinone	117-79-3
0-931	1-Hydroxyanthraquinone	129-43-1
0-932	Tetrahydroxyquinone	319-89-1
0-933	L-Ascorbic acid	50-81-7
0-934	D-(+)-Galactose	59-23-4
0-935	D-Glucose	50-99-7
0-936	Lactose monohydrate	64044-51-5
0-937	D-Fructose	57-48-7
0-938	D-(+)-Maltose hydrate	6363-53-7
0-939	Sucrose	57-50-1
0-940	2-Aminoethyl hydrogen sulfate	926-39-6
0-941	Dimethyl sulfate	77-78-1
0-942	Ethyl chlorosulfonate	
0-943	Diethyl sulfate	64-67-5
0-944	Methylsulfuric acid potassium salt	562-54-9
0-945	Benzyl disulfide	150-60-7
0-946	Benzyl sulfide	538-74-9
0-947	tert-Butyl disulfide	110-06-5
0-948	Carbon disulfide	75-15-0
0-949	Phenyl sulfide	139-66-2
0-950	6-Amino-4-chloro-m-toluene sulfonic acid	88-51-7
0-951	2-Amino-5-chloro-4-methylbenzenesulfonic acid	88-53-9
0-952	7-Amino-1.3-naphthalenedisulfonic acid	86-65-7
0-953	2-Anthraquinonesulfonic acid sodium salt monohydrate	131-08-8
0-954	m-Benzenedisulfonic acid disodium salt	831-59-4
0-955	Benzenesulfonic acid	98-11-3
0-956	p-Chlorobenzenesulfonic acid	98-66-8
0-957	Methanesulfonic acid	75-75-2
0-958	2-Naphthalenesulfonic acid monohydrate	120-18-3
0-959	1-Naphthol-3.6-disulfonic acid disodium salt	20349-39-7
0-960	2-Naphthol-3.6-disulfonic acid disodium salt	135-51-3
0-961	Sulfanilic acid	121-57-3
0-963	5-Sulfosalicylic acid dihydrate	5965-83-3
0-964	Taurine	107-35-7
0-965	p-Toluenesulfonic acid	6192-52-5
0-966	Benzenesulfonamide	98-10-2
0-967	N.N-Dimethyl-p-toluene sulfonamide	599-69-9
0-968	Sulfanilamide	63-74-1
0-969	Ethyl p-toluenesulfonate	80-40-0
0-970	Methyl benzenesulfonate	80-18-2
0-971	Methyl 4-toluenesulfonate	80-48-8
0-972	Benzenesulfonyl chloride	98-09-9
0-973	Ethanesulfonyl chloride	594-44-5
0-974	p-Toluenesulfonyl chloride	98-59-9
0-975	Trichloromethanesulfonyl chloride	2547-61-7
0-976	Methyl sulfoxide	67-68-5
0-977	Phenyl sulfone	127-63-9
0-978	Benzenethiol	108-98-5
0-979	1-Dodecanethiol	112-55-0
0-980	1-Hexanethiol	111-31-9
0-981	1-Octanethiol	111-88-6
0-982	1-Acetyl-2-thiourea	591-08-2
0-983	Biurea	110-21-4
0-984	Biuret	108-19-0
0-985	1.3-Dibutyl-2-thiourea	109-46-6
0-986	1.3-Dimethylurea	96-31-1
0-987	Phenylurea	64-10-8
0-988	Thiourea	62-56-6
0-989	Urea	57-13-6
0-990	Uric acid	69-93-2
0-991	Aluminum isopropoxide	555-31-7
0-992	p-Arsanilic acid	98-50-0
0-993	Dibutyltin diacetate	1067-33-0
0-994	Dibutyltin dichloride	683-18-1
0-995	Ethyl-o-silicate	78-10-4
0-996	Hydroxylamine hydrochloride	5470-11-1
0-997	Tetraphenyltin	595-90-4
0-998	Triethoxyethylsilane	78-07-9
0-999	Trimethyl borate	121-43-7
0-1000	Acrylamide	79-06-1
0-1001	Acrylic acid	79-10-7
0-1002	Acrylonitrile	107-13-1
0-1003	n-tert-Butylacrylamide	107-58-4
0-1004	n-Butyl acrylate	141-32-2
0-1005	Butyl methacrylate	97-88-1
0-1006	Isobutyl vinyl ether	109-53-5
0-1007	Dicyclopentadiene	77-73-6
0-1008	Ethyl acrylate	140-88-5
0-1009	Ethyl methacrylate	97-63-2
0-1010	Ethyl vinyl ether	109-92-2
0-1011	Isoprene	78-79-5
0-1012	Methacrylamide	79-39-0
0-1013	Methacrylic acid sodium salt	5536-61-8
0-1014	2-Methoxyethyl acrylate	3121-61-7
0-1015	Methyl acrylate	96-33-3
0-1016	Methyl methacrylate	80-62-6
0-1017	a-Methyl styrene	98-83-9
0-1018	Styrene	100-42-5
0-1019	Vinyl acetate	108-05-4
0-1020	Vinyl butyrate	123-20-6
0-1021	Vinyl propionate	105-38-4
0-1022	Butylated hydroxyanisole	25013-16-5
0-2000	Acetaldehyde	75-07-0
0-2001	Acridine	260-94-6
0-2002	Allyl glycidyl ether	106-92-3
0-2003	n-Amyl acetate	628-63-7
0-2004	Amylamine	110-58-7
0-2005	n-Amyl mercaptan	110-66-7
0-2006	tert-Amyl mercaptan	1679-09-0
0-2007	Benzoyl peroxide	94-36-0
0-2008	sec-Butyl acetate	105-46-4
0-2009	tert-Butyl acetate	540-88-5
0-2011	n-Butyl mercaptan	109-79-5
0-2012	sec-Butyl mercaptan	513-53-1
0-2013	2-Methyl-2-propanethiol	75-66-1
0-2014	Isobutyraldehyde	78-84-2
0-2015	2-Chloroacetophenone	532-27-4
0-2016	2-Chloropropane	75-29-6
0-2017	Cycloheptatriene	544-25-2
0-2018	1.5.9-Cyclododecatriene	4904-61-4
0-2019	1.3-Cyclohexadiene	592-57-4
0-2020	Cyclododecane	294-62-2
0-2021	Cyclododecene	1501-82-2
0-2022	Cyclooctane	292-64-8
0-2023	1.3-Cyclooctadiene	1700-10-3
0-2024	1.5-Cyclooctadiene	111-78-4
0-2025	Cyclopentene	142-29-0
0-2026	1.9-Decadiene	1647-16-1
0-2027	Decabromobiphenyl	
0-2029	trans-3-Decene	19150-21-1
0-2031	trans-5-Decene	7433-56-9
0-2032	2-Decanone	693-54-9
0-2033	1-Decene	872-05-9
0-2034	Decyl aldehyde	112-31-2
0-2035	n-Decylbenzene	104-72-3
0-2036	n-Decylamine	2016-57-1
0-2037	Diallyl sulfide	592-88-1
0-2038	1-Decyne	764-93-2
0-2039	2-Decyne	2384-70-5
0-2040	3-Decyne	2384-85-2
0-2041	4-Decyne	2384-86-3
0-2042	5-Decyne	1942-46-7
0-2043	Diisobutylamine	110-96-3
0-2044	Di-n-butyl sulfide	544-40-1
0-2045	Didodecylamine	3007-31-6
0-2046	Diethylamine	109-89-7
0-2047	Diethyl sulfide	352-93-2
0-2048	Di-n-hexylamine	143-16-8
0-2049	Diisopropylamine	108-18-9
0-2052	2.3-Dimethylaniline	87-59-2
0-2053	2.5-Dimethylaniline	95-78-3
0-2054	2.6-Dimethylaniline	87-62-7
0-2055	3.3-Dimethyl-2-butanol	464-07-3
0-2056	2.3-Dimethyl-1.3-butadiene	513-81-5
0-2057	2.3-Dimethyl-2-butene	563-79-1
0-2058	2.3-Dimethyl-1-butene	563-78-0
0-2059	trans-2.2-Dimethyl-3-heptene	19550-75-5
0-2060	2.6-Dimethyl-1-heptene	3074-78-0
0-2061	2.6-Dimethyl-3-heptene (cis & trans)	2738-18-3
0-2062	3.5-Dimethyl-3-heptene, cis and trans	59643-68-4
0-2063	2.5-Dimethyl-2.4-hexadiene	764-13-6
0-2064	2.3-Dimethyl-2-hexene	7145-20-2
0-2064	2.3-Dimethyl-2-hexene	7145-20-2
0-2065	2.5-Dimethyl-1.5-hexadiene	627-58-7
0-2066	2.4-Dimethyl hexane	589-43-5
0-2067	2.5-Dimethyl hexane	592-13-2
0-2068	3.4-Dimethyl hexane	583-48-2
0-2069	trans-2.2-Dimethyl-3-hexene	3123-93-1
0-2071	2.5-Dimethyl-2-hexene	3404-78-2
0-2072	3.4-Dimethyl-1-hexene	16745-94-1
0-2073	2.4-Dimethyl-3-pentanone	565-80-0
0-2074	trans-2.5-Dimethyl-3-hexene	10557-44-5
0-2075	5.7-Dimethyl-1.6-octadiene	
0-2076	2.4-Dimethylpentane	108-08-7
0-2077	2.3-Dimethylpentane	565-59-3
0-2078	2.4-Dimethyl-2-pentanol	625-06-9
0-2079	Di-n-propyl sulfide	111-47-7
0-2080	2,4-Dimethylsulfolane	1003-78-7
0-2082	2.4-Dimethyl-1.3-pentadiene	1000-86-8
0-2083	2.3-Dimethyl-1-pentene	3404-72-6
0-2085	2.4-Dimethyl-1-pentene	2213-32-3

O-2086	2,4-Dimethyl-2-pentene	625-65-0
O-2087	4,4-Dimethyl-1-pentene	762-62-9
O-2088	Dipropylene glycol methyl ether	34590-94-8
O-2089	n-Docosane	629-97-0
O-2090	1-Docosanol	661-19-8
O-2091	1-Docosene	1599-67-3
O-2092	n-Dodecyl aldehyde	112-54-9
O-2093	2-Dodecanone	6175-49-1
O-2094	1-Dodecene	112-41-4
O-2095	n-Dotriacontane	544-85-4
O-2096	1-Eicosanol	629-96-9
O-2097	1-Eicosene	3452-07-1
O-2098	Ethanethiol	75-08-1
O-2100	2-Ethyl-1-butene	760-21-4
O-2101	2-Ethyl-1-hexene	1632-16-2
O-2102	Furfuryl alcohol	98-00-0
O-2103	Guaiene	88-84-6
O-2104	3-Heptene	592-78-9
O-2105	n-Heptylamine	111-68-2
O-2106	Hexabromobipheny	59536-65-1
O-2107	1-Hexadecene	629-73-2
O-2108	n-Heneicosane	629-94-7
O-2109	9-Heptadecanone	540-08-9
O-2110	n-Heptadecane	629-78-7
O-2111	1,5-Heptadiene	1541-23-7
O-2112	1,6-Heptadiene	3070-53-9
O-2113	1,5-Hexadiene	592-42-7
O-2114	1,6-Heptadiyne	2396-63-6
O-2115	2-Heptanol	543-49-7
O-2116	1-Heptene	592-76-7
O-2117	trans-2-Heptene	14686-13-6
O-2118	trans-3-Heptene	14686-14-7
O-2119	Hexaldehyde	66-25-1
O-2120	n-Hexacosane	630-01-3
O-2121	1,3-Hexadiene (cis & trans)	592-48-3
O-2123	trans-trans-2,4-Hexadiene	5194-51-4
O-2124	n-Heptyl mercaptan	1639-09-4
O-2126	2-Hexanol	626-93-7
O-2127	3-Hexanol	623-37-0
O-2128	n-Hexatriacontane	630-06-8
O-2129	trans-3-Hexene	13269-52-8
O-2131	2-Hexyne	764-35-2
O-2132	Isoamylamine	107-85-7
O-2133	Isobutyl acetate	110-19-0
O-2134	Isobutyl mercaptan	513-44-0
O-2135	Isopropylamine	75-31-0
O-2136	Isovaleraldehyde	590-86-3
O-2137	Isopropyl mercaptan	75-33-2
O-2138	Kerosene	8008-20-6
O-2140	3-Methyl-1,2-butadiene	598-25-4
O-2141	3-Methyl-1-butene	563-45-1
O-2142	2-Methyl-1-butanol	137-32-6
O-2143	2-Methyl-1-butene	563-46-2
O-2144	2-Methylbutane	78-78-4
O-2145	3-Methyl-2-butanon	563-80-4
O-2146	2-Methyl-2-butene	513-35-9
O-2147	2-Methyl decane	
O-2149	4-Methyl decane	2847-72-5
O-2150	2-Methylcyclohexanone	583-60-8
O-2151	4-Methylcyclohexanone	589-92-4
O-2152	1-Methylcyclohexene	591-49-1
O-2153	3-Methylcyclohexanone	591-24-2
O-2154	5-Methyl-3-heptanon	541-85-5
O-2155	3-Methyl-2-heptanon	2371-19-9
O-2156	2-Methyl heptane	592-27-8
O-2157	3-Methyl heptane	589-81-1
O-2158	4-Methyl heptane	589-53-7
O-2159	2-Methyl-1-hepten	15870-10-7
O-2160	2-Methyl-2-hepten	627-97-4
O-2161	trans 2-Methyl-3-hepten	
O-2162	Methylene di-p-phenylen diisocyanate	101-68-8
O-2163	2-Methyl-1.5-hexadiene	4049-81-4
O-2165	5-Methyl-2-hexanon	110-12-3
O-2166	4-Methyl-2-hexanon	105-42-0
O-2167	2-Methylhexane	591-76-4
O-2168	3-Methyl hexane	589-34-4
O-2169	2-Methyl-1-hexene	6094-02-6
O-2170	2-Methyl-2-hexene	2738-19-4
O-2171	trans 2-Methyl-3-hexene	692-24-0
O-2172	3-Methyl-1-hexene	3404-61-3
O-2173	4-Methyl-1-hexene	3769-23-1
O-2174	cis 3-Methyl-2-hexene	10574-36-4
O-2175	5-Methyl-1-hexene	3524-73-0
O-2176	Methyl hydrazine	60-34-4
O-2177	2-Methyl nonane	871-83-0
O-2178	4-Methyl nonane	17301-94-9
O-2179	Methyl isocyanate	624-83-9
O-2181	2-Methyl-1-penten	763-29-1
O-2182	2-Methyl-2-penten	625-27-4
O-2183	4-Methyl-1-penten	691-37-2
O-2184	3-Methyl octane	2216-33-3
O-2185	4-Methyl octane	2216-34-4
O-2186	2-Methyl-1-pentanc	105-30-6
O-2187	2-Methyl-3-pentanc	565-67-3
O-2188	3-Methyl-3-pentanc	77-74-7
O-2189	trans-3-Methyl-1.3-pentadiene	2787-43-1
O-2190	2-Methyl-1.4-pentadiene	763-30-4
O-2191	3-Methyl-1.4-pentadiene	1115-08-8
O-2192	2-Methyl-3-pentanon	565-69-5
O-2193	4-Methyl-2-penten	4461-48-7
O-2194	3-Methyl-1-penten	760-20-3
O-2195	cis-3-Methyl-2-penten	922-62-3
O-2196	trans-3-Methyl-2-penten	616-12-6
O-2197	2-Methyl-1-octene	4588-18-5
O-2199	Methyl propyl carbinol	6032-29-7
O-2203	n-Nonadecane	629-92-5
O-2205	1-Nonene	124-11-8
O-2207	trans-3-Nonene	20063-92-7
O-2208	trans-4-Nonene	10405-85-3
O-2209	2-Nonadecanone	629-66-3
O-2210	1-Nonanol	143-08-8
O-2211	Nonanal	124-19-6
O-2213	2-Nonanone	821-55-6
O-2214	5-Nonanone	502-56-7
O-2215	1-Nonyne	3452-09-3
O-2216	4-Nonene (cis & trans)	2198-23-4
O-2217	2-Nonyne	19447-29-1
O-2218	3-Nonyne	20184-89-8
O-2219	1-Octadecene	112-88-9
O-2220	1.7-Octadiene	3710-30-3
O-2221	Octabromobipheny	27858-07-7
O-2222	3-Octanone	106-68-3
O-2223	n-Octylamine	111-86-4
O-2224	n-Octylbenzene	2189-60-8
O-2225	trans-4-Octene	14850-23-8
O-2227	n-Octacosane	630-02-4
O-2228	1.3-Octadiene	1002-33-1
O-2229	1.4-Octadiene (cis & trans)	5675-25-2
O-2230	1.7-Octadiyne	871-84-1
O-2231	1-Octyne	629-05-0
O-2232	4-Octyne	1942-45-6
O-2233	n-Octatriacontane	7194-85-6
O-2234	trans 3-Octene	14919-01-8
O-2235	Octyl aldehyde	124-13-0
O-2236	2-Octyne	2809-67-8
O-2237	3-Octyne	15232-76-5
O-2238	n-Pentadecane	629-62-9
O-2239	1-Pentadecanol	629-76-5
O-2240	n-Pentane	109-66-0
O-2241	1-Pentene	109-67-1
O-2242	2-Pentene	109-68-2
O-2243	cis-2-Pentene	627-20-3
O-2244	2-Pentadecanone	2345-28-0
O-2245	3-Pentanol	584-02-1
O-2246	n-Pentacosane	629-99-2
O-2247	trans-1.3-Pentadiene	2004-70-8
O-2249	trans-2-Pentene	646-04-8
O-2250	1-Pentyne	627-19-0
O-2251	2-Pentyne	627-21-4
O-2252	Petroleum ether (BP range 30-60C)	8032-32-4
O-2253	1-Phenylhexane	1077-16-3
O-2254	Phenylhydrazine	100-63-0
O-2255	Pinacolone	75-97-8
O-2256	n-Propyl mercaptan	107-03-9
O-2257	Naphtha (Petroleum distillates)	8030-30-6
O-2259	Terpentine	8006-64-2
O-2260	1.1.2.2-Tetrabromoethane	79-27-6
O-2261	n-Tetracontane	4181-95-7
O-2262	n-Tetradecane	629-59-4
O-2263	1-Tetradecene	1120-36-1
O-2264	n-Tetracosane	646-31-1
O-2265	Tetranitromethane	509-14-8
O-2266	n-Tetratetracontane	7098-22-8
O-2267	n-Tetratriacontane	14167-59-0
O-2268	n-Triacontane	638-68-6
O-2269	1.1.2-Trichlorotrifluoroethane	76-13-1
O-2270	n-Tricosane	638-67-5
O-2271	2-Tridecanone	593-08-8
O-2272	Tridecylaldehyde	10486-19-8
O-2273	n-Tridecane	629-50-5
O-2274	1-Tridecene	2437-56-1
O-2275	Tri-n-hexylamine	102-86-3
O-2276	1.1.1-Trimethyl butane	590-35-2
O-2277	2.2.3-Trimethyl butane	464-06-2
O-2278	cis-1.1.1-Trimethyl-2-butene	762-63-0
O-2279	trans-1.1.1-Trimethyl-2-butene	690-08-4
O-2280	2.3.3-Trimethyl-1-butene	594-56-9
O-2281	1.1.3-Trimethyl cyclohexane	3073-66-3
O-2282	1.3.5-Trimethyl cyclohexane	1839-63-0
O-2283	3.3.5-Trimethyl cyclohexene	503-45-7
O-2284	2.2.5-Trimethyl hexane	3522-94-9
O-2285	3.5.5-Trimethyl-1-hexene	4316-65-8
O-2286	2.3.4-Trimethyl pentane	565-75-3
O-2287	2.4.4-Trimethyl-2-pentene	107-40-4
O-2288	2.4.6-Trinitrotoluene - min 30wt% water	118-96-7
O-2289	Tripropylamine	102-69-2
O-2290	n-Undecane	1120-21-4
O-2291	1-Undecanol	112-42-5
O-2292	Undecanal	112-44-7
O-2293	1-Undecene	821-95-4
O-2294	Xylenes (mixed)	1330-20-7
O-2295	Octafluoronaphthalene	313-72-4
O-2296	p-Diethylbenzene	105-05-5
O-2297	2-Butoxyethyl acetate	112-07-2
O-2298	Furan	110-00-9
O-2299	2-Propoxyethanol	2807-30-9
O-2300	Picric acid - min 30wt% water	88-89-1
O-2301	Tridecyl alcohol	112-70-9
O-2302	n-Dodecylamine	124-22-1
O-2303	n-Tetradecylamine	2016-42-4
O-2304	1.2.3-Trimethylbenzene	526-73-8
O-2305	Corn oil	8001-30-7
O-2306	o-Ethyltoluene	611-14-3
O-2307	m-Ethyltoluene	620-14-4
O-2308	2-Bromofluorobenzene	1072-85-1
O-2309	2,3-Dichlorophenol	576-24-9
O-2310	3,4-Dichlorophenol	95-77-2
O-2311	Dimethyl disulfide	624-92-0
O-2312	2,5-Dimethylpheno	95-87-4
O-2313	1-Methyl-2-pyrrolidinon	872-50-4
O-2314	Methyl sulfide	75-18-3
O-2315	a-Pinene	80-56-8
O-2316	b-Pinene	127-91-3
O-2317	Tetraethylene glycol	112-60-7
O-2318	2,4,6-Trinitrobenzoic acid - min 30wt% water	129-66-8
O-2319	1,1,1-Trichloro-2-propanol	76-00-6
O-2320	4-tert-Butyltoluene	98-51-1
O-2321	Isopropylglycidyl ether	4016-14-2
O-2322	Undecanoic acid (C11)	112-37-8
O-2323	Tridecanoic acid (C13)	638-53-9
O-2324	Pentadecanoic acid (C15)	1002-84-2
O-2325	Heptadecanoic acid (C17)	506-12-7
O-2326	n-Nonadecanoic acid (C19)	646-30-0
O-2327	Eicosanoic acid (C20)	506-30-9
O-2328	n-Heneicosanoic acid (C21)	2363-71-5
O-2329	n-Tricosanoic acid (C23)	2433-96-7
O-2330	n-Tetracosanoic acid (C24)	557-59-5
O-2331	Methyl valerate	624-24-8
O-2332	Methyl heptanoate	106-73-0
O-2333	Methyl undecanoate	1731-86-8
O-2334	Methyl tridecanoate	1731-88-0
O-2335	Methyl pentadecanoate	7132-64-1
O-2336	Methyl heptadecanoate	1731-92-6
O-2337	Methyl nonadecanoate	1731-94-8
O-2338	Methyl eicosanoate	1120-28-1
O-2339	Methyl heneicosanoate	6064-90-0
O-2340	Methyl docosanoate	929-77-1
O-2341	Methyl tricosanoate	2433-97-8
O-2342	Methyl tetracosanoate	2442-49-1
O-2343	RF-A Gasoline	
O-2344	3-Chloropheno	108-43-0
O-2345	2.5-Dichlorophenol	583-78-8
O-2346	3.5-Dichlorophenol	591-35-5
O-2347	3,4,5-Trichlorophenol	609-19-8
O-2348	b-Acetamidonaphthalen	581-97-5
O-2349	1-(2-Bromoethyl)naphthalen	13686-49-2
O-2351	1-Bromonaphthalene	90-11-9
O-2352	1-(Chloromethyl)naphthalen	86-52-2
O-2353	1-Cyanonaphthalene	86-53-3
O-2354	9-Cyanophenanthrene	2510-55-6
O-2355	9.10-Dibenzylanthracene	
O-2356	9.10-Dibromoanthracene	523-27-3
O-2358	2.6-Di-tert-butylnaphthalen	3905-64-4
O-2359	1,2-Dihydroxynaphthalene	
O-2360	1.3-Dihydroxynaphthalene	132-86-5
O-2361	1,6-Dihydroxynaphthalene	575-44-0
O-2362	1.7-Dihydroxynaphthalene	575-38-2
O-2363	2,3-Dihydroxynaphthalene	92-44-4
O-2364	2.6-Dihydroxynaphthalene	581-43-1
O-2365	2.7-Dihydroxynaphthalene	582-17-2
O-2366	1-Iodonaphthalene	90-14-2
O-2368	2-Phenylnaphthalen	612-94-2
O-2369	2-Vinylnaphthalen	827-54-3
O-2370	Pyrrole	109-97-7
O-2372	1.2:6.7-Dibenzpyrene	189-64-0
O-2373	1-Aminoanthracene	610-49-1
O-2374	2-Aminoanthracene	613-13-8
O-2376	2-Aminobipheny	90-41-5
O-2377	6-Aminochrysene	2642-98-0
O-2378	2-Aminofluorene	153-78-6
O-2379	1-Amino-4-nitronaphthalen	776-34-1
O-2380	1-Amino-5.6.7.8-tetrahydro naphthalene	2217-41-6
O-2381	2,7-Diacetamidofluorene	304-28-9
O-2382	2.6-Diaminoanthraquinon	131-14-6
O-2383	3.3'-Diaminobenzidine	91-95-2
O-2384	2,7-Diaminofluorene	525-64-4
O-2386	1,5-Diaminonaphthalene	2243-62-1
O-2387	1.8-Diaminonaphthalene	479-27-6
O-2388	2.3-Diaminonaphthalene	771-97-1
O-2389	9.10-Diaminophenanthrene	53348-04-2
O-2390	3.4-Diaminotoluene	496-72-0
O-2391	1.8-Bis(dimethylamino) naphthalene	20734-58-1
O-2392	N-Methyl-N-nitroso-N nitroguanidin	70-25-7
O-2393	N-Phenyl-1-naphthylamin	90-30-2
O-2394	N-Phenyl-2-naphthylamin	135-88-6
O-2396	o-Bromoanisole	578-57-4
O-2397	o-Aminoazotoluene	97-56-3
O-2398	4-Methoxy-1,3-phenylen diamine sulfate hydrate	123333-56-2
O-2399	3,3'-Dimethyl-4,4'-diaminodiphenylmethan	838-88-0
O-2400	4,4'-Thiodianiline	139-65-1
O-2401	2-Acetylfuran	1192-62-7
O-2402	5-(Hydroxymethyl)furfura	67-47-0
O-2404	Butyl carbamate	592-35-8
O-2405	4-Bromo-2.6-dichloropheno	3217-15-0
O-2406	2-Bromoethanol	540-51-2
O-2407	p-Bromopheno	106-41-2
O-2408	Butyl propionate	590-01-2
O-2409	1-Chloro-3-fluorobenzene	625-98-9
O-2410	4.6-Dibromo-o-cresol	609-22-3
O-2411	Dimethylamine (in water	124-40-3
O-2412	2.3-Dimethylpheno	526-75-0
O-2413	p-Ethyltoluene	622-96-8
O-2414	4-Phenylpiperidine	771-99-3
O-2415	Pentachlorothioanisole	1825-19-0
O-2416	4-Methoxy-1,3-phenylen diamine	615-05-4
O-2417	2-(Trifluoromethyl)benzoic acid	433-97-6
O-2418	2-(Trifluoromethyl)benzoate	
O-2419	Butyl Isocyanate	25013-16-5
O-2419	Butyl Isocyanate	111-36-4
O-2421	1-(2-Pyridyl)piperazine	34803-66-2
O-2422	3,3-Dimethyl piperidine	1193-12-0
O-2423	Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6
O-2424	6-Methyl-2-picolyl methylamine hydrochlorid	
O-2425	1-Methyl-4-(methylamin piperidine dihydrochlorid	
O-2426	Butyl paraben	94-26-8
O-2427	trans-2,5-Dimethylpiperazine	2815-34-1

CATALOG # DESCRIPTION

O-1000A 1000 Chemicals randomly selected from items listed on pages 280-283 with hard copy MSDS.
O-1000AD 1000 Chemicals randomly selected from items listed on pages 280-283 with MSDS on disk.

ACIDS AND ANHYDRIDES

O-4	Acetic acid
O-5	Butyric acid
O-6	Isobutyric acid
O-7	Hexanoic acid
O-8	Crotonic acid
O-9	Cyclohexaneacetic acid
O-10	Cyclohexanecarboxylic acid
O-11	Decanoic acid
O-12	Docosanoic acid
O-13	Erucic acid
O-14	2-Ethylbutyric acid
O-15	2-Ethylhexanoic acid
O-16	Formic acid
O-17	Heptanoic acid
O-18	Lauric acid
O-19	Linoleic acid
O-20	Myristic acid
O-21	Nonanoic acid
O-22	Octanoic acid
O-23	Oleic acid
O-24	Palmitic acid
O-25	Propionic acid
O-26	Sorbic acid
O-27	Stearic acid
O-28	10-Undecenoic acid
O-29	Valeric acid
O-30	Isovaleric acid
O-31	DL-Alanine
O-32	b-Alanine
O-33	DL-2-Aminobutyric acid
O-34	DL-Asparagine monohydrate
O-35	Betaine hydrochloride
O-36	L-(-)-Cystine
O-37	Glycine
O-38	L-(+)-Lysine monohydrochloride
O-39	DL-Methionine
O-40	Bromoacetic acid
O-41	2-Bromo-n-butyric acid
O-42	Chloroacetic acid
O-43	2-Chloropropionic acid
O-44	3-Chloropropionic acid
O-45	Dichloroacetic acid
O-46	Trichloroacetic acid
O-47	Trifluoroacetic acid
O-48	Gluconic acid
O-49	Glycolic acid
O-50	12-Hydroxystearic acid
O-51	Lactic acid
O-52	Cyanoacetic acid
O-53	2-Furoic acid
O-54	Methoxyacetic acid
O-55	Levulinic acid
O-56	Pyruvic acid
O-57	3-Mercaptopropionic acid
O-58	Thioglycolic acid
O-59	Dehydroacetic acid
O-60	Adipic acid
O-61	Azelaic acid
O-62	2-Butene-1.4-dicarboxylic acid
O-63	d-Camphoric acid
O-64	Fumaric acid
O-65	Glutaric acid
O-66	Itaconic acid
O-67	Maleic acid
O-68	Malonic acid
O-69	Oxalic acid dihydrate
O-70	Sebacic acid
O-71	Succinic acid
O-72	dl-Aspartic acid
O-73	Ethylenediaminetetraacetic acid
O-74	L-(+)-Glutamic acid
O-75	Citric acid
O-76	dl-Malic acid
O-77	Mucic acid
O-78	L-Tartaric acid
O-79	a.a'-Oxydiacetic acid
O-80	Mercaptosuccinic acid
O-81	Benzoic acid
O-82	p-tert-Butylbenzoic acid
O-83	trans-Cinnamic acid
O-84	Diphenylacetic acid
O-85	Hydrocinnamic acid
O-86	Isophthalic acid
O-87	1-Naphthaleneacetic acid
O-88	Phenylacetic acid
O-89	Phthalic acid
O-90	Pyromellitic acid
O-91	Terephthalic acid
O-92	p-Toluic acid
O-93	p-Aminobenzoic acid
O-94	Anthranilic acid
O-95	N-Phenylglycine
O-96	N-(p-Hydroxyphenyl)glycine
O-97	2-Chlorobenzoic acid
O-98	4-Chlorobenzoic acid
O-99	p-Chlorophenoxyacetic acid
O-100	2.4-Dichlorophenoxyacetic acid
O-101	2.4.5.-Trichlorophenoxy acetic acid
O-102	Benzilic acid
O-103	Gallic acid
O-104	4-Hydroxybenzoic acid
O-105	1-Hydroxy-2-naphthoic acid
O-106	dl-Mandelic acid
O-107	Salicylic acid
O-108	Tannic acid
O-109	Hippuric acid
O-111	Acetylsalicylic acid
O-113	p-Anisic acid
O-114	o-Methoxybenzoic acid
O-115	Phenoxyacetic acid
O-118	m-Nitrobenzoic acid
O-119	p-Nitrobenzoic acid
O-120	Isonicotinic acid
O-121	Nicotinic acid
O-122	Acetic anhydride
O-123	Bicyclo[2.2.1]5-heptene-2.3-dicarboxylic anhydride
O-124	Butyric anhydride
O-125	Citraconic anhydride
O-126	1.2-Cyclohexane dicarboxylicanhydride (cis & trans)
O-127	cis-4-Cyclohexene-1.2-dicarboxylic anhydride
O-128	Maleic anhydride
O-129	Propionic anhydride
O-130	Succinic anhydride
O-131	Phthalic anhydride
O-962	Sulfoacetic acid monohydrate
O-963	5-Sulfosalicylic acid dihydrate
O-1001	Acrylic acid

Neat compounds of each of the above - (120 component kit random selection)
Oca-120A KIT

ALCOHOL'S FUNCTIONAL GROUP

O-138	Allyl alcohol
O-139	Amyl alcohol
O-140	Isoamyl alcohol
O-141	tert-Amyl alcohol
O-142	n-Butyl alcohol
O-143	Isobutyl alcohol
O-144	sec-Butyl alcohol
O-145	tert-Butyl alcohol
O-146	Cetyl alcohol
O-147	Cholesterol
O-148	Cyclohexanol
O-149	Decyl alcohol
O-150	Dodecyl alcohol
O-151	Ethyl alcohol
O-152	2-Ethyl-1-butanol
O-153	2-Ethyl-1-hexanol
O-154	Heptyl alcohol
O-155	Hexyl alcohol
O-156	dl-Menthol
O-157	Methanol
O-158	2-Methyl-3-butyn-2-ol
O-159	2-Methylcyclohexanol
O-160	3-Methylcyclohexanol
O-161	4-Methylcyclohexanol
O-162	4-Methyl-2-pentanol
O-163	3-Methyl-1-pentyn-3-ol
O-164	1-Octadecanol
O-165	2-Octanol
O-166	Octyl alcohol
O-167	Propyl alcohol
O-168	Isopropyl alcohol
O-169	2-Propyn-1-ol
O-170	1-Tetradecanol
O-171	3.3.5-Trimethylcyclohexanol
O-172	2-(2-Butoxyethoxy)ethanol
O-173	Ethoxyethoxyethanol
O-174	Methoxyethoxyethanol
O-175	2.3-Epoxy-1-propanol
O-176	2-Butoxyethanol
O-177	2-Ethoxyethanol
O-178	2-Methoxyethanol
O-179	3-Methoxy-1-butanol
O-180	1-Methoxy-2-propanol
O-181	Tetrahydrofurfuryl alcohol
O-182	2-Chloroethanol
O-183	2.3-Dibromo-1-propanol
O-184	1.3-Dichloro-2-propanol
O-185	2.3-Dichloro-1-propanol
O-186	3-Hydroxy-2-butanone
O-187	Diacetone alcohol
O-188	2-Mercaptoethanol
O-189	1.3-Butanediol
O-190	1.4-Butanediol
O-191	1.10-Decanediol
O-192	2.2-Diethyl-1.3-propanediol
O-193	Ethylene glycol
O-194	2-Ethyl-1.3-hexanediol
O-195	Glycerol
O-196	1.6-Hexanediol
O-197	1.2.6-Hexanetriol
O-198	2-Hydroxymethyl-2-methyl-1.3-propanediol
O-199	Inositol
O-200	Mannitol
O-201	Pentaerythritol
O-202	1.5-Pentanediol
O-203	Pinacol
O-204	1.3-Propanediol
O-205	Propylene glycol
O-206	Sorbitol
O-207	2.2.4-Trimethyl-1.3-pentanediol
O-208	Diethylene glycol
O-209	Dipropylene glycol
O-210	Triethylene glycol
O-211	3-Chloro-1.2-propanediol
O-212	Benzhydrol
O-213	Benzyl alcohol
O-214	Cinnamyl alcohol
O-215	a.a-Dimethylbenzyl alcohol
O-216	dl-a-Methylbenzyl alcohol
O-217	(+/-)-Phenyl-1.2-ethanediol
O-218	2-Phenylethyl alcohol
O-219	3-Phenyl-1-propanol
O-220	p-Anisyl alcohol
O-221	2-Phenoxyethanol
O-222	Benzoin
O-223	o-Hydroxyacetophenone
O-224	p-Hydroxyacetophenone

Neat compounds of each of the above - (80 component kit, random selection)
Oal-80A KIT

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With neat kits from Chem Service, you can order an "instant laboratory" which has been pre-selected for your convenience when working in a specialized area. Chem Service certified neat kits provide the flexibility to respond to day to day changes in analytical requirements. Also, when you use these kits as a backup to your orders of certified materials, you will note that these kits are discounted 15-35% compared to the same items purchased individually.

ALCOHOLS FUNCTIONAL GROUP

O-138	Allyl alcohol
O-139	Amyl alcohol
O-140	Isoamyl alcohol
O-141	tert-Amyl alcohol
O-142	n-Butyl alcohol
O-143	Isobutyl alcohol
O-144	sec-Butyl alcohol
O-145	tert-Butyl alcohol
O-146	Cetyl alcohol
O-147	Cholesterol
O-148	Cyclohexanol
O-149	Decyl alcohol
O-150	Dodecyl alcohol
O-151	Ethyl alcohol
O-152	2-Ethyl-1-butanol
O-153	2-Ethyl-1-hexanol
O-154	Heptyl alcohol
O-155	Hexyl alcohol
O-156	dl-Menthol
O-157	Methanol
O-158	2-Methyl-3-butyn-2-ol
O-159	2-Methylcyclohexanol
O-160	3-Methylcyclohexanol
O-161	4-Methylcyclohexanol
O-162	4-Methyl-2-pentanol
O-163	3-Methyl-1-pentyn-3-ol
O-164	1-Octadecanol
O-165	2-Octanol
O-166	Octyl alcohol
O-167	Propyl alcohol
O-168	Isopropyl alcohol
O-169	2-Propyn-1-ol
O-170	1-Tetradecanol
O-171	3.3.5-Trimethylcyclohexanol
O-172	2-(2-Butoxyethoxy)ethanol
O-173	Ethoxyethoxyethanol
O-174	Methoxyethoxyethanol
O-175	2.3-Epoxy-1-propanol
O-176	2-Butoxyethanol
O-177	2-Ethoxyethanol
O-178	2-Methoxyethanol
O-179	3-Methoxy-1-butanol
O-180	1-Methoxy-2-propanol
O-181	Tetrahydrofurfuryl alcohol
O-182	2-Chloroethanol
O-183	2.3-Dibromo-1-propanol
O-184	1.3-Dichloro-2-propanol
O-185	2.3-Dichloro-1-propanol
O-186	3-Hydroxy-2-butanone
O-187	Diacetone alcohol
O-188	2-Mercaptoethanol
O-189	1.3-Butanediol
O-190	1.4-Butanediol
O-191	1.10-Decanediol
O-192	2.2-Diethyl-1.3-propanediol
O-193	Ethylene glycol
O-194	2-Ethyl-1.3-hexanediol
O-195	Glycerol
O-196	1.6-Hexanediol
O-197	1.2.6-Hexanetriol
O-198	2-Hydroxymethyl-2-methyl-1.3-propanediol
O-199	Inositol
O-200	Mannitol
O-201	Pentaerythritol
O-202	1.5-Pentanediol
O-203	Pinacol
O-204	1.3-Propanediol
O-205	Propylene glycol
O-206	Sorbitol
O-207	2.2.4-Trimethyl-1.3-pentanediol
O-208	Diethylene glycol
O-209	Dipropylene glycol
O-210	Triethylene glycol
O-211	3-Chloro-1.2-propanediol
O-212	Benzhydrol
O-213	Benzyl alcohol
O-214	Cinnamyl alcohol
O-215	a.a-Dimethylbenzyl alcohol
O-216	dl-a-Methylbenzyl alcohol
O-217	(+/-)-Phenyl-1.2-ethanediol
O-218	2-Phenylethyl alcohol
O-219	3-Phenyl-1-propanol
O-220	p-Anisyl alcohol
O-221	2-Phenoxyethanol
O-222	Benzoin
O-223	o-Hydroxyacetophenone
O-224	p-Hydroxyacetophenone
O-299	2-Amino-2-(hydroxymethyl)-1.3-propanediol
O-300	2-Amino-2-methyl-1.3-propanediol
O-301	2-Amino-2-methyl-1-propanol
O-302	1-Amino-2-propanol
O-303	3-Amino-1-propanol
O-304	2-Dibutylaminoethanol
O-305	Diethanolamine
O-306	2-Diethylaminoethanol
O-307	2-Dimethylaminoethanol
O-308	1-Dimethylamino-2-propanol
O-309	3-(Dimethylamino)-1-propanol
O-310	Diisopropanolamine
O-311	Ethanolamine
O-312	2-Ethylaminoethanol
O-313	2-Methylaminoethanol
O-314	Triethanolamine
O-315	Triisopropanolamine
O-334	2-(2-Aminoethyl amino)ethanol
O-367	p-Aminophenylethyl alcohol
O-368	2-Anilinoethanol
O-456	n-Butyl lactate
O-457	Ethyl lactate
O-458	Glyceryl monostearate
O-459	2-Hydroxyethyl acetate
O-460	Monoacetin
O-461	Monobutyrin
O-509	Diacetin
O-510	Dibutyl-D-tartrate
O-511	Tributyl citrate
O-512	Triethyl citrate
O-549	Ethyl-p-hydroxybenzoate
O-550	Ethyl salicylate
O-551	Methyl-p-hydroxybenzoate
O-552	Methylsalicylate
O-553	Phenyl salicylate
O-554	Resorcinol monoacetate
O-850	p-Nitrophenylacetonitrile
O-933	L-Ascorbic acid
O-934	D-(+)-Galactose
O-935	D-Glucose
O-936	Lactose
O-937	D-Fructose
O-938	D-(+)-Maltose hydrate
O-939	Sucrose

Neat compounds of each of the above (120 component kit, random selection)
Oal-120A KIT

AMINES FUNCTIONAL GROUP

O-31	DL-Alanine
O-32	b-Alanine
O-33	DL-2-Aminobutyric acid
O-34	DL-Asparagine monohydrate
O-35	Betaine hydrochloride
O-36	L-(-)-Cystine
O-37	Glycine
O-38	L-(+)-Lysine monohydrochloride
O-39	DL-Methionine
O-72	dl-Aspartic acid
O-73	Ethylenediaminetetraacetic acid
O-74	L-(+)-Glutamic acid
O-93	p-Aminobenzoic acid
O-94	Anthranilic acid
O-95	N-Phenylglycine
O-96	N-(p-Hydroxyphenyl)glycine
O-109	Hippuric acid
O-110	L-(-)-Tyrosine
O-244	p-Dimethylamino benzaldehyde
O-272	Allylamine
O-273	n-Butylamine
O-274	Isobutylamine
O-275	sec-Butylamine
O-276	tert-Butylamine
O-277	Cyclohexylamine
O-278	Diallylamine
O-279	Dibutylamine
O-280	Dicyclohexylamine
O-281	Diethylamine hydrochloride
O-282	Dimethylamine hydrochloride
O-283	N.N-Dimethyldodecylamine
O-284	2.6-Dimethylpiperidine
O-285	Dipropylamine
O-286	Ethylamine hydrochloride
O-287	2-Ethylhexylamine
O-288	Hexadecylamine
O-289	Hexylamine
O-290	Methylamine hydrochloride
O-291	N-Methylcyclohexylamine
O-292	2-Methylpiperidine
O-293	Piperidine
O-294	Pyrrolidine
O-295	Triallylamine
O-296	Tributylamine
O-297	Triethylamine
O-298	Trimethylamine hydrochloride
O-299	2-Amino-2-(hydroxymethyl)-1.3-propanediol
O-300	2-Amino-2-methyl-1.3-propanediol
O-301	2-Amino-2-methyl-1-propanol
O-302	1-Amino-2-propanol
O-303	3-Amino-1-propanol
O-304	2-Dibutylaminoethanol
O-305	Diethanolamine
O-306	2-Diethylaminoethanol
O-307	2-Dimethylaminoethanol
O-308	1-Dimethylamino-2-propanol
O-309	3-(Dimethylamino)-1-propanol
O-310	Diisopropanolamine
O-311	Ethanolamine
O-312	2-Ethylaminoethanol
O-313	2-Methylaminoethanol
O-314	Triethanolamine
O-315	Triisopropanolamine
O-316	N-Ethylmorpholine
O-317	3-Methoxypropylamine
O-318	N-Methylmorpholine
O-319	Morpholine
O-320	Choline chloride
O-321	2-Pyrrolidone
O-322	4.4'-Dithiodimorpholine
O-323	3.3'-Diaminodipropylamine
O-324	Diethylenetriamine
O-325	N.N-Diethylethylenediamine
O-326	N.N.-Diethyl-1.3-propanediamine
O-327	N.N.-Dimethyl-1.3-propanediamine
O-328	Ethylenediamine
O-330	1.6-Hexanediamine
O-334	2-(2-Aminoethyl-amino)ethanol
O-335	Aniline
O-336	Aniline hydrochloride
O-337	Benzylamine
O-338	Dibenzylamine
O-339	N.N-Diethylaniline
O-340	N.N.-Diethyl-p-phenylenediaminemonohydrochloride
O-341	N.N-Dimethylaniline
O-342	2.4-Dimethylaniline
O-343	N.N-Dimethyl-p-phenylene diamine dihydrochloride
O-344	Diphenylamine
O-345	N.N'-Diphenyl-p-phenylenediamine
O-346	N-Ethylaniline
O-347	Indole
O-348	N-Methylaniline
O-349	4.4'-Methylenedianiline
O-350	Phenethylamine
O-351	o-Phenylenediamine
O-352	m-Phenylenediamine
O-353	p-Phenylenediamine
O-354	o-Toluidine
O-355	m-Toluidine
O-356	p-Toluidine
O-357	Tribenzylamine
O-358	o-Anisidine
O-359	p-Anisidine
O-360	2.5-Diethoxyaniline
O-361	2-Chloroaniline
O-362	3-Chloroaniline
O-363	4-Chloroaniline
O-364	5-Chloro-2-methylaniline
O-365	2.5-Dichloroaniline
O-366	3.4-Dichloroaniline
O-367	p-Aminophenylethyl alcohol
O-368	2-Anilinoethanol
O-369	2.4-Dinitroaniline
O-370	N-Methyl-N-nitrosoaniline
O-371	o-Nitroaniline
O-372	m-Nitroaniline
O-373	p-Nitroaniline
O-374	N-Nitrosodiphenylamine
O-375	4-Chloro-2-nitroaniline
O-376	2.6-Dichloro-4-nitroaniline
O-377	Isatin
O-378	o-Aminobenzenethiol
O-379	Ethylhexadecyldimethyl ammonium bromide
O-380	Tetramethylammonium chloride
O-381	Trimethylphenylammonium benzenesulfonate
O-382	Trimethylphenylammonium iodide
O-462	Glycine ethyl ester hydrochloride
O-710	2-Aminothiazole
O-881	o-Aminophenol
O-882	m-Aminophenol
O-883	p-Aminophenol
O-884	p-Anilinophenol
O-885	m-Diethylaminophenol
O-898	2-Amino-4-nitrophenol
O-930	2-Aminoanthraquinone
O-940	2-Aminoethyl hydrogen sulfate
O-950	6-Amino-4-chloro-m-toluene sulfonic acid
O-951	2-Amino-5-chloro-4-methylbenzenesulfonic acid
O-952	7-Amino-1.3-naphthalenedisulfonic acid
O-961	Sulfanilic acid
O-964	Taurine
O-329	Hexamethylene tetramine

Neat compounds of each of the above (140 component kit, random selection)
Oam-140A KIT

ESTERS FUNCTIONAL GROUP

O-405	Allyl acetate
O-406	Isoamyl acetate
O-407	n-Butyl acetate
O-408	Butyl butyrate
O-409	Butyl oleate
O-410	Butyl stearate
O-411	Cyclohexyl acetate
O-412	Ethyl acetate
O-413	Ethyl butyrate
O-414	Ethyl formate
O-415	Ethyl hexanoate
O-416	2-Ethylhexyl acetate
O-417	Ethyl oleate
O-418	Ethyl propionate
O-419	Hexyl acetate
O-420	Methyl abietate
O-421	Methyl acetate
O-422	Methyl butyrate
O-423	Methyl decanoate
O-424	Methyl formate
O-425	Methyl hexanoate
O-426	Methyl laurate
O-427	Methyl myristate
O-428	Methyl nonanoate
O-429	Methyl octanoate
O-430	Methyl oleate
O-431	Methyl palmitate
O-432	Methyl propionate
O-433	Methyl stearate
O-434	Methyl undecenoate
O-435	Octadecyl acetate
O-436	Isopropenyl acetate
O-437	Propyl acetate
O-438	Iso-propyl acetate
O-439	Propyl formate
O-440	Propyl propionate
O-467	Bis(2-ethylhexyl)adipate
O-468	Diallyl adipate
O-469	Diallyl maleate
O-470	Diisoamyl oxalate
O-471	Dibutyl adipate
O-472	Dibutyl fumarate
O-473	Dibutyl maleate
O-474	Dibutyl oxalate
O-475	Dibutyl sebacate
O-476	Dibutyl succinate
O-477	Dicyclohexyl adipate
O-478	Diethyl adipate
O-479	Diethyl diethylmalonate
O-480	Diethyl ethylmalonate
O-481	Diethyl fumarate
O-482	Diethyl maleate
O-483	Diethyl malonate
O-484	Diethyl oxalate
O-485	Diethyl sebacate
O-486	Diethyl succinate
O-487	Dimethyl adipate
O-488	Dimethyl-1.4-cyclohexane dicarboxylate
O-489	Dimethyl itaconate
O-490	Dimethyl oxalate
O-491	Dimethyl sebacate
O-492	Ethylene diacetate
O-493	Ethylidene diacetate
O-494	Pentaerythritol tetrastearate
O-495	2-Propenylidene diacetate
O-496	1.2-Propylene dilaurate
O-497	1.2-Propylene distearate
O-498	Triacetin
O-499	Tristearin
O-500	Tributyrin
O-501	Tripropionin
O-514	Benzyl acetate
O-515	Benzyl benzoate
O-516	Bis(2-ethylhexyl)phthalate
O-517	Butyl benzoate
O-518	Di-n-butyl phthalate
O-519	Diallyl phthalate
O-520	Diamyl phthalate
O-521	Dibenzyl succinate
O-522	Diisobutyl phthalate
O-523	Dicyclohexyl phthalate
O-524	Diethyl phenylmalonate
O-525	Diethyl phthalate
O-526	Dimethyl phthalate
O-527	Dimethyl isophthalate
O-528	Dimethyl terephthalate
O-529	Di-n-octyl phthalate
O-530	Diphenyl phthalate
O-531	Ethyl benzoate
O-532	Ethyl cinnamate
O-533	Ethyl phenylacetate
O-534	Methyl benzoate
O-535	Methyl cinnamate
O-536	2-Naphthyl benzoate
O-537	Phenylacetate
O-538	Phenyl benzoate
O-539	m-Phenylene diacetate
O-540	p-Phenylene diacetate
O-541	2-Phenylethyl acetate
O-542	o-Tolyl acetate
O-543	m-Tolyl acetate
O-544	p-Tolyl acetate
O-556	Triethyl-o-acetate
O-557	Triethyl-o-formate
O-558	Trimethyl-o-formate
O-1004	n-Butyl acrylate
O-1005	Butyl methacrylate
O-1008	Ethyl acrylate
O-1009	Ethyl methacrylate
O-1014	2-Methoxyethyl acrylate
O-1016	Methyl methacrylate
O-1019	Vinyl acetate
O-1020	Vinyl butyrate
O-1021	Vinyl propionate

Neat compounds of each of the above - (110 component kit, random selection)
Oes-100A KIT

ETHERS FUNCTIONAL GROUP

O-1	Acetal
O-2	1.1-Dimethoxyethane
O-3	Methylal
O-53	2-Furoic acid
O-54	Methoxyacetic acid
O-79	a.a'-Oxydiacetic acid
O-113	p-Anisic acid
O-114	o-Methoxybenzoic acid
O-115	Phenoxyacetic acid
O-172	2-(2-Butoxyethoxy)ethanol
O-173	Ethoxyethoxyethanol
O-174	Methoxyethoxyethanol
O-175	2.3-Epoxy-1-propanol
O-176	2-Butoxyethanol
O-177	2-Ethoxyethanol
O-178	2-Methoxyethanol
O-179	3-Methoxy-1-butanol
O-180	1-Methoxy-2-propanol
O-181	Tetrahydrofurfuryl alcohol
O-208	Diethylene glycol
O-209	Dipropylene glycol
O-210	Triethylene glycol
O-220	p-Anisyl alcohol
O-221	2-Phenoxyethanol
O-235	Furfural
O-245	p-Anisaldehyde
O-316	N-Ethylmorpholine
O-317	3-Methoxypropylamine
O-318	N-Methylmorpholine
O-319	Morpholine
O-322	4.4'-Dithiodimorpholine
O-358	o-Anisidine
O-359	p-Anisidine
O-360	2.5-Diethoxyaniline
O-400	Bis(o-methoxy-phenyl) carbonate
O-441	2-(2-Butoxyethoxy)ethyl acetate
O-442	2-(2-Ethoxyethoxy)ethyl acetate
O-443	2-Ethoxyethyl acetate
O-444	Furfuryl acetate
O-445	3-Methoxy-1-butyl acetate
O-446	2-Methoxyethyl acetate
O-447	Tetrahydrofurfuryl acetate
O-503	Bis(2-ethoxyethyl)sebacate
O-504	Di(tetrahydrofurfuryl)adipate
O-505	D-a-Glucose pentaacetate
O-506	Oxybis(2-ethyl acetate)
O-507	Sucrose octaacetate
O-508	Triethylene glycol diacetate
O-545	Bis(2-n-butoxyethyl)phthalate
O-546	Bis(2-ethoxyethyl)phthalate
O-547	Bis(2-methoxyethyl)phthalate
O-559	Allyl ether
O-560	Isoamyl ether
O-561	Bis(2-ethoxyethyl)ether
O-562	1.2-Bis(2-methoxy-ethoxy)ethane
O-563	Bis[2-(2-methoxy-ethoxy) ethyl]ether
O-564	Bis(2-methoxyethyl)ether
O-565	Butyl ether
O-566	2.5-Dihydrofuran
O-567	1.2-Dimethoxyethane
O-568	1.4-Dioxane
O-569	Ethyl ether
O-570	Hexyl ether
O-571	2-Methylfuran
O-572	Propylene oxide
O-573	Isopropyl ether
O-574	Tetrahydrofuran
O-575	Tetrahydro-2-methylfuran
O-576	1.2-Bis(2-chloroethoxy)-ethane
O-577	Bis(2-chloroethyl)ether
O-578	Epichlorohydrin
O-579	Isoamyl benzyl ether
O-580	Anethole
O-581	Anisole
O-582	Benzyl ether
O-583	Bis(a-methylbenzyl)ether
O-584	Bis(2-phenoxyethyl)ether
O-585	Dibenzofuran
O-586	p-Dibutoxybenzene
O-587	o-Diethoxybenzene
O-588	p-Diethoxybenzene
O-589	p-Dimethoxybenzene
O-590	1.2-Diphenoxyethane
O-591	1.2-Epoxyethylbenzene
O-592	1.2-Epoxy-3-phenoxypropane
O-593	2-Ethoxynaphthalene
O-594	2-Methoxynaphthalene
O-595	Phenetole
O-596	Phenyl ether
O-597	Bis(p-bromophenyl)ether
O-598	p-Chlorophenetole
O-709	Benzoxazole
O-718	Phenothioxin
O-844	3-Ethoxypropionitrile
O-845	3-Methoxypropionitrile
O-846	3.3'-Oxydipropionitrile
O-886	p-Butoxyphenol
O-887	p-Methoxyphenol
O-995	Ethyl-o-silicate
O-998	Triethoxyethylsilane
O-1006	Isobutyl vinyl ether
O-1010	Ethyl vinyl ether
O-1014	2-Methoxyethyl acrylate

Neat compounds of each of the above - (100 component kit, random selection)
Oet-100A KIT

Need It In A Hurry?

Place an order Monday through Friday before 4:00pm Eastern Time for stock items, and we can ship your order the same day at no extra charge.

Phone: 800-452-9994 or 610-692-3026
Fax: 610-692-8729 Email: info@chemservice.com

ORGANIC HALOGENS

O-40	Bromoacetic acid
O-41	2-Bromo-n-butyric acid
O-42	Chloroacetic acid
O-43	2-Chloropropionic acid
O-44	3-Chloropropionic acid
O-45	Dichloroacetic acid
O-46	Trichloroacetic acid
O-47	Trifluoroacetic acid
O-97	2-Chlorobenzoic acid
O-98	4-Chlorobenzoic acid
O-99	p-Chlorophenoxyacetic acid
O-100	2.4-Dichlorophenoxyacetic acid
O-101	2.4.5.-Trichlorophenoxy acetic acid
O-132	Tetrachlorophthalic anhydride
O-133	Adipyl chloride
O-134	Benzoyl chloride
O-135	3.5-Dinitrobenzoyl chloride
O-136	Lauroyl chloride
O-137	Phthaloyl chloride
O-182	2-Chloroethanol
O-183	2.3-Dibromo-1-propanol
O-184	1.3-Dichloro-2-propanol
O-185	2.3-Dichloro-1-propanol
O-211	3-Chloro-1.2-propanediol
O-632	1.2-Dibromo-1.1-dichloro-ethane
O-258	2-Chloroacetamide
O-268	4'-Bromoacetanilide
O-320	Choline chloride
O-361	2-Chloroaniline
O-362	3-Chloroaniline
O-363	4-Chloroaniline
O-364	5-Chloro-2-methylaniline
O-365	2.5-Dichloroaniline
O-366	3.4-Dichloroaniline
O-375	4-Chloro-2-nitroaniline
O-376	2.6-Dichloro-4-nitroaniline
O-379	Ethylhexadecyldimethyl ammonium bromide
O-380	Tetramethylammonium chloride
O-382	Trimethylphenylammonium iodide
O-401	Bis(2-chloroethyl)carbonate
O-448	n-Butyl chloroformate
O-449	Ethyl bromoacetate
O-450	Ethyl-2-bromopropionate
O-451	Ethyl-3-bromopropionate
O-452	Ethyl chloroacetate
O-453	Ethyl chloroformate
O-454	Ethyl 2.3-dibromopropionate
O-455	Ethyl trichloroacetate
O-462	Glycine ethyl ester hydrochloride
O-513	Diethyl bromomalonate
O-576	1.2-Bis (2-chloroethoxy)ethane
O-577	Bis(2-chloroethyl)ether
O-578	Epichlorohydrin
O-597	Bis(p-bromophenyl)ether
O-598	p-Chlorophenetole
O-600	Guanidine hydrochloride
O-601	1-Bromobutane
O-602	2-Bromobutane
O-603	1-Bromo-2-chloroethane
O-604	Bromochloromethane
O-605	1-Bromo-3-chloropropane
O-606	2-Bromo-1-chloropropane
O-607	Bromocyclohexane
O-608	1-Bromodecane
O-609	1-Bromododecane
O-610	Bromoform
O-611	1-Bromohexane
O-612	1-Bromo-3-methylbutane
O-613	1-Bromo-2-methylpropane
O-614	2-Bromo-2-methylpropane
O-615	1-Bromopentane
O-616	2-Bromopentane
O-617	1-Bromopropane
O-618	2-Bromopropane
O-619	Bromotrichloromethane
O-620	Carbon tetrachloride
O-621	1-Chlorobutane
O-622	2-Chlorobutane
O-623	Chloroform
O-624	1-Chlorohexane
O-625	1-Chloro-3-methylbutane
O-626	2-Chloro-2-methylbutane
O-627	3-(Chloromethyl)heptane
O-628	2-Chloro-2-methylpropane
O-629	1-Chlorooctadecane
O-630	1-Chloropentane
O-631	1.4-Dibromobutane
O-633	Dibromomethane
O-634	1.2-Dibromopropane
O-635	1.3-Dibromopropane
O-636	1.4-Dichlorobutane
O-637	1.5-Dichloropentane
O-638	1.2-Dichloropropane
O-639	1.3-Dichloropropane
O-640	Ethyl bromide
O-641	Ethylene bromide
O-642	Ethylene chloride
O-643	Ethyl iodide
O-644	Hexachloroethane
O-645	Iodoform
O-646	1-Iodopropane
O-647	2-Iodopropane
O-648	Methylene chloride
O-649	Methyl iodide
O-650	1.2.3.4-Tetrabromobutane
O-651	s-Tetrachloroethane
O-652	1.1.1-Trichloroethane
O-653	1.1.2-Trichloroethane
O-654	1.2.3-Trichloropropane
O-655	Allyl bromide
O-656	Allyl chloride
O-657	3-Chloro-2-methylpropene
O-658	1.4-Dichloro-2-butene cis & trans
O-659	cis-1.2-Dichloroethene
O-660	trans-1.2-Dichloroethene
O-661	2.3-Dichloropropene
O-662	Hexachloro-1.3-butadiene
O-663	Tetrachloroethene
O-664	Trichloroethene
O-665	Benzyl chloride
O-666	Bromobenzene
O-667	1-Bromo-4-chlorobenzene
O-668	p-Bromotoluene
O-669	Chlorobenzene
O-670	Chlorodiphenylmethane
O-671	1-Chloronaphthalene
O-672	2-Chlorotoluene
O-673	3-Chlorotoluene
O-674	4-Chlorotoluene
O-675	p-Dibromobenzene
O-676	4.4'-Dibromobiphenyl
O-677	1.2-Dichlorobenzene
O-678	1.3-Dichlorobenzene
O-679	1.4-Dichlorobenzene
O-680	a.a-Dichlorotoluene
O-682	a.p-Dichlorotoluene
O-683	2.4-Dichlorotoluene
O-684	Fluorobenzene
O-685	Hexachlorobenzene
O-686	Iodobenzene
O-687	p-Iodotoluene
O-688	1.2.4.5-Tetrachlorobenzene
O-689	1.2.4-Trichlorobenzene
O-690	a.a.a-Trichlorotoluene
O-691	a.a.a-Trifluorotoluene
O-719	2.5-Dibromothiophene
O-796	N-Bromosuccinimide
O-797	N-Chlorosuccinimide
O-814	Chloro-2-propanone
O-847	(p-Chlorophenyl)acetonitrile
O-861	1-Chloro-2-nitrobenzene
O-862	1-Chloro-3-nitrobenzene
O-863	1-Chloro-4-nitrobenzene
O-864	1-Chloro-1-nitropropane
O-888	4-Chloro-3-methylphenol
O-889	2-Chlorophenol
O-890	4-Chlorophenol
O-891	2.4-Dichlorophenol
O-892	Pentachlorophenol
O-893	2.4.5-Trichlorophenol
O-894	2.4.6-Trichlorophenol
O-899	4-Chloro-2-nitrophenol
O-923	Dichlorophenyl phosphine
O-924	Dichlorophenyl phosphine oxide
O-925	Dichlorophenyl phosphine sulfide
O-942	Ethyl chlorosulfonate
O-972	Benzenesulfonyl chloride
O-973	Ethanesulfonyl chloride
O-974	p-Toluenesulfonyl chloride
O-975	Trichloromethanesulfonyl chloride
O-994	Dibutyltin dichloride
O-681	a.o-Dichlorotoluene

Neat compounds of each of the above - (160 component kit, random selection)
Ox-160A KIT

HYDROCARBONS

O-729	n-Decane
O-730	Diisopropane
O-731	n-Dodecane
O-732	n-Eicosane
O-733	n-Heptane
O-734	n-Hexadecane
O-735	n-Hexane
O-736	2-Methylpentane
O-737	3-Methylpentane
O-738	Neohexane
O-739	n-Octadecane
O-740	n-Octane
O-741	2.2.4-Trimethylpentane
O-742	Cyclohexane
O-743	Cyclopentane
O-744	Decahydronaphthalene
O-745	Methylcyclohexane
O-746	Methylcyclopentane
O-747	Camphene
O-748	Cyclohexene
O-749	Diisobutylene
O-750	Dipentene
O-751	2-Heptene
O-752	1-Hexene
O-753	2-Hexene
O-754	d-Limonene
O-755	4-Methylcyclohexene
O-756	1-Octene
O-757	2-Octene
O-758	Pinene
O-759	4-Vinylcyclohexene-1
O-760	Benzene
O-761	Bibenzyl
O-762	Biphenyl
O-763	tert-Butylbenzene
O-764	Cumene
O-765	p-Cymene
O-766	m-Diethylbenzene
O-767	Diphenylmethane
O-768	1.3-Diisopropylbenzene
O-769	Durene
O-770	Ethylbenzene
O-771	Mesitylene
O-772	Phenylcyclohexane
O-773	p-Terphenyl
O-774	1,2,3,4-Tetrahydro-naphthalene
O-775	Toluene
O-776	1.3.5-Triethylbenzene
O-777	1.2.4-Trimethylbenzene
O-778	Triphenylmethane
O-779	o-Xylene
O-780	m-Xylene
O-781	p-Xylene
O-782	Acenaphthene
O-783	Anthracene
O-784	Dimethyl naphthalene (mixed isomers)
O-785	Fluoranthene
O-786	Fluorene
O-787	1-Methylnaphthalene
O-788	2-Methylnaphthalene
O-789	Naphthalene
O-790	Phenanthrene
O-791	Pyrene
O-792	trans-Stilbene
O-1007	Dicyclopentadiene
O-1011	Isoprene
O-1017	a-Methyl styrene
O-1018	Styrene

Neat compounds of each of the above - (60 component kit, random selection)
Oh-60A KIT

PHENOLS

O-96	N-(p-Hydroxyphenyl)glycine
O-103	Gallic acid
O-104	4-Hydroxybenzoic acid
O-105	1-Hydroxy-2-naphthoic acid
O-107	Salicylic acid
O-108	Tannic acid
O-110	L-(-)-Tyrosine
O-111	Acetylsalicylic acid
O-223	o-Hydroxyacetophenone
O-224	p-Hydroxyacetophenone
O-246	4-Hydroxybenzaldehyde
O-247	Salicylaldehyde
O-269	Salicylamide
O-549	Ethyl-p-hydroxybenzoate
O-550	Ethyl salicylate
O-551	Methyl-p-hydroxybenzoate
O-552	Methylsalicylate
O-553	Phenyl salicylate
O-554	Resorcinol monoacetate
O-869	4-tert-Butylphenol
O-870	o-Cresol
O-871	m-Cresol
O-872	p-Cresol
O-873	2.6-Di-tert-butyl-p-cresol
O-874	2.6-Dimethylphenol
O-875	3.4-Dimethylphenol
O-876	3.5-Dimethylphenol
O-877	1-Naphthol
O-878	2-Naphthol
O-879	Phenol
O-880	p-Phenylphenol
O-881	o-Aminophenol
O-882	m-Aminophenol
O-883	p-Aminophenol
O-884	p-Anilinophenol
O-885	m-Diethylaminophenol
O-886	p-Butoxyphenol
O-887	p-Methoxyphenol
O-888	4-Chloro-3-methylphenol
O-889	2-Chlorophenol
O-890	4-Chlorophenol
O-891	2.4-Dichlorophenol
O-892	Pentachlorophenol
O-893	2.4.5-Trichlorophenol
O-894	2.4.6-Trichlorophenol
O-895	2-Nitrophenol
O-896	4-Nitrophenol
O-897	1-Nitroso-2-naphthol
O-898	2-Amino-4-nitrophenol
O-899	4-Chloro-2-nitrophenol
O-900	tert-Butylhydroquinone
O-901	4-tert-Butylpyrocatechol
O-902	Catechol
O-903	2.5-Di-tert-amylhydroquinone
O-904	2.5-Di-tert-butylhydroquinone
O-905	Hydroquinone
O-906	1.4-Naphthalenediol
O-907	1.5-Naphthalenediol
O-908	Pyrogallol
O-909	Resorcinol
O-910	2.2′.4.4′-Tetrahydroxy-benzophenone
O-931	1-Hydroxyanthraquinone
O-932	Tetrahydroxyquinone
O-963	5-Sulfosalicylic acid dihydrate

Neat compounds of each of the above - (60 component kit, random selection)
Oph-60A KIT

NITROGENS

O-31	DL-Alanine
O-32	b-Alanine
O-33	DL-2-Aminobutyric acid
O-34	DL-Asparagine monohydrate
O-35	Betaine hydrochloride
O-36	L-(-)-Cystine
O-37	Glycine
O-38	L-(+)-Lysine mono-hydrochloride
O-39	DL-Methionine
O-52	Cyanoacetic acid
O-72	dl-Aspartic acid
O-73	Ethylenediaminetetraacetic acid
O-74	L-(+)-Glutamic acid
O-93	p-Aminobenzoic acid
O-94	Anthranilic acid
O-95	N-Phenylglycine
O-96	N-(p-Hydroxyphenyl)glycine
O-109	Hippuric acid
O-110	L-(-)-Tyrosine
O-118	m-Nitrobenzoic acid
O-119	p-Nitrobenzoic acid
O-120	Isonicotinic acid
O-121	Nicotinic acid
O-238	Aldehyde ammonia (trimer) trihydrate
O-244	p-Dimethylamino benzaldehyde
O-248	Acetamide
O-249	Adipamide
O-250	N.N-Diethyldodecanamide
O-251	N.N-Dimethylacetamide
O-252	N.N-Dimethylformamide
O-253	Formamide
O-254	N-Methylacetamide
O-255	Oxamide
O-256	Propionamide
O-257	Succinamide
O-258	2-Chloroacetamide
O-259	2-Cyanoacetamide
O-260	Dicyanodiamide
O-261	Thioacetamide
O-262	Acetanilide
O-263	Benzamide
O-264	Benzanilide
O-265	Oxanilide
O-266	Phenylacetamide
O-267	Phthalamide
O-268	4′-Bromoacetanilide
O-269	Salicylamide
O-270	Acetoacetanilide
O-271	Nicotinamide
O-383	Azobenzene
O-384	2.2′-Azodiisobutyronitrile
O-385	Azoxybenzene
O-386	p-Phenylazoaniline
O-387	Bis(dimethylthio-carbamyl)disulfide
O-388	Carbanilide
O-389	N.N′-Diethylcarbanilide
O-390	Diethyldithiocarbamic acid sodium salt trihydrate
O-391	Ethyl carbamate
O-392	Semicarbazide hydrochloride
O-393	Thiosemicarbazide
O-402	Benzyl thiocyanate
O-403	Phenyl isocyanate
O-404	Tolylene-2.4-diisocyanate
O-462	Glycine ethyl ester hydrochloride
O-463	Ethyl cyanoacetate
O-599	1.3-Di-o-tolylguanidine
O-600	Guanidine hydrochloride
O-692	2-Aminopyridine
O-693	Benzimidazole
O-694	Carbazole
O-695	Cyanuric acid
O-696	3.5-Dimethylpyrazole
O-697	8-Hydroxyquinoline
O-698	Isoquinoline
O-699	2.4-Lutidine
O-700	2.6-Lutidine
O-701	Melamine
O-702	2-Methylpyrazine
O-703	2-Picoline
O-704	3-Picoline
O-705	4-Picoline
O-706	Pyridine
O-707	Quinoline
O-708	2.4.6-Trimethylpyridine
O-709	Benzoxazole
O-710	2-Aminothiazole
O-711	Benzothiazole
O-712	2-Benzothiazolol
O-713	2.2′-Dithiobis-(benzothiazole)
O-714	2-Imidazolidinethione
O-715	2-Mercaptobenzothiazole
O-716	2-Methylbenzothiazole
O-717	Phenothiazine
O-723	1.1-Dimethylhydrazine
O-724	2.4-Dinitrophenylhydrazine (water added)
O-725	1.5-Diphenyl-3-thiocarbo-hydrazide
O-726	Hydrazine dihydrochloride
O-727	Maleic acid hydrazide
O-728	Phenylhydrazine hydrochloride
O-828	Caprolactam
O-831	Isoamyl nitrite
O-832	Butyl nitrite
O-833	Propyl nitrate
O-834	Acetonitrile
O-835	Adiponitrile
O-836	Benzonitrile
O-837	Isobutyronitrile
O-838	Phenylacetonitrile
O-839	Phthalonitrile
O-840	Propionitrile
O-841	3-Diethylaminopropionitrile
O-842	3-Dimethylamino-propionitrile
O-843	3.3′-Iminodipropionitrile
O-844	3-Ethoxypropionitrile
O-845	3-Methoxypropionitrile
O-846	3.3′-Oxydipropionitrile
O-847	(p-Chlorophenyl)acetonitrile
O-849	Hydracrylonitrile
O-850	p-Nitrophenylacetonitrile
O-851	m-Dinitrobenzene
O-852	Nitrobenzene
O-853	Nitroethane
O-854	Nitromethane
O-855	1-Nitronaphthalene
O-856	1-Nitropropane
O-857	2-Nitropropane
O-858	o-Nitrotoluene
O-859	m-Nitrotoluene
O-860	p-Nitrotoluene
O-861	1-Chloro-2-nitrobenzene
O-862	1-Chloro-3-nitrobenzene
O-863	1-Chloro-4-nitrobenzene
O-864	1-Chloro-1-nitropropane
O-865	Cupferron
O-866	Acetone oxime
O-867	Dimethylglyoxime
O-868	Diphenylglyoxime
O-881	o-Aminophenol
O-882	m-Aminophenol
O-883	p-Aminophenol
O-884	p-Anilinophenol
O-885	m-Diethylaminophenol
O-895	2-Nitrophenol
O-896	4-Nitrophenol
O-897	1-Nitroso-2-naphthol
O-898	2-Amino-4-nitrophenol
O-899	4-Chloro-2-nitrophenol
O-930	2-Aminoanthraquinone
O-940	2-Aminoethyl hydrogen sulfate
O-950	6-Amino-4-chloro-m-toluene sulfonic acid
O-951	2-Amino-5-chloro-4-methyl benzenesulfonic acid
O-952	7-Amino-1.3-naphthalene disulfonic acid
O-961	Sulfanilic acid
O-964	Taurine
O-966	Benzenesulfonamide
O-967	N.N-Dimethyl-p-toluene sulfonamide
0-968	Sulfanilamide
O-982	1-Acetyl-2-thiourea
O-983	Biurea
O-984	Biuret
O-985	1.3-Dibutyl-2-thiourea
O-986	1.3-Dimethylurea
O-987	Phenylurea
O-988	Thiourea
O-989	Urea
O-990	Uric acid
O-992	p-Arsanilic acid
O-996	Hydroxylamine hydrochloride
O-1000	Acrylamide
O-1002	Acrylonitrile
O-1003	n-tert-Butylacrylamide
O-1012	Methacrylamide

Neat compounds of each of the above - (165 component kit, random selection)
On-165A KIT

If you find the need for an even narrower selection of chemicals within a particular functional group, please see our Functional Group and Specialty Organic Kits on pages 289-294.

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

ORGANIC SULFURS

O-39	DL-Methionine
O-57	3-Mercaptopropionic acid
O-58	Thioglycolic acid
O-80	Mercaptosuccinic acid
O-116	2.2′-Dithiodibenzoic acid
O-117	o-Mercaptobenzoic acid
O-188	2-Mercaptoethanol
O-237	Acetaldehyde sodium bisulfite
O-261	Thioacetamide
O-322	4.4′-Dithiodimorpholine
O-378	o-Aminobenzenethiol
O-387	Bis(dimethylthiocarbamyl) disulfide
O-390	Diethyldithiocarbamic acid sodium salt trihydrate
O-402	Benzyl thiocyanate
O-466	Ethyl mercaptoacetate
O-710	2-Aminothiazole
O-711	Benzothiazole
O-712	2-Benzothiazolol
O-713	2.2′-Dithiobis(benzothiazole)
O-714	2-Imidazolidinethione
O-715	2-Mercaptobenzothiazole
O-716	2-Methylbenzothiazole
O-717	Phenothiazine
O-718	Phenothioxin
O-719	2.5-Dibromothiophene
O-720	Tetrahydrothiophene
O-721	Thiophene
O-722	1.3.5-Trithiane symetrical
O-725	1.5-Diphenyl-3-thiocarbo-hydrazide
O-795	o-Benzoic sulfimide
O-925	Dichlorophenyl phosphine sulfide
O-940	2-Aminoethyl hydrogen sulfate
O-941	Dimethyl sulfate
O-942	Ethyl chlorosulfonate
O-943	Diethyl sulfate
O-944	Methylsulfuric acid potassium salt
O-945	Benzyl disulfide
O-946	Benzyl sulfide
O-947	tert-Butyl disulfide
O-948	Carbon disulfide
O-949	Phenyl sulfide
O-950	6-Amino-4-chloro-m-toluene sulfonic acid
O-951	2-Amino-5-chloro-4-methyl benzenesulfonic acid
O-952	7-Amino-1.3-naphthalene disulfonic acid
O-953	2-Anthraquinonesulfonic acid sodium salt
O-954	m-Benzenedisulfonic acid disodium salt
O-955	Benzenesulfonic acid
O-956	p-Chlorobenzenesulfonic acid
O-957	Methanesulfonic acid
O-958	2-Naphthalenesulfonic acid
O-959	1-Naphthol-3.6-disulfonic acid disodium salt
O-960	2-Naphthol-3.6-disulfonic acid disodium salt
O-961	Sulfanilic acid
O-962	Sulfoacetic acid monohydrate
O-963	5-Sulfosalicylic acid dihydrate
O-964	Taurine
O-965	p-Toluenesulfonic acid
O-966	Benzenesulfonamide
O-967	N.N-Dimethyl-p-toluene sulfonamide
O-968	Sulfanilamide
O-969	Ethyl p-toluenesulfonate
O-970	Methyl benzenesulfonate
O-971	Methyl 4-toluenesulfonate
O-972	Benzenesulfonyl chloride
O-973	Ethanesulfonyl chloride
O-974	p-Toluenesulfonyl chloride
O-975	Trichloromethanesulfonyl chloride
O-976	Methyl sulfoxide
O-977	Phenyl sulfone
O-978	Benzenethiol
O-979	1-Dodecanethiol
O-980	1-Hexanethiol
O-981	1-Octanethiol
O-982	1-Acetyl-2-thiourea
O-985	1.3-Dibutyl-2-thiourea
O-988	Thiourea

Neat compounds of each of the above (70 component kit, random selection)
Os-70A KIT

STRAIGHT CHAIN ALKANE HYDROCARBONS KIT

O-2240	n-Pentane
O-735	n-Hexane
O-733	n-Heptane
O-740	n-Octane
F1099	n-Nonane
O-729	n-Decane
O-2290	n-Undecane
O-731	n-Dodecane
O-2273	n-Tridecane
O-2262	n-Tetradecane
O-2238	n-Pentadecane
O-734	n-Hexadecane
O-2110	n-Heptadecane
O-739	n-Octadecane
O-2203	n-Nonadecane
O-732	n-Eicosane
O-2108	n-Heneicosane
O-2089	n-Docosane
O-2270	n-Tricosane
O-2264	n-Tetracosane
O-2246	n-Pentacosane
O-2120	n-Hexacosane
O-2227	n-Octacosane
O-2268	n-Triacontane
O-2095	n-Dotriacontane
O-2267	n-Tetratriacontane
O-2128	n-Hexatriacontane
O-2233	n-Octatriacontane
O-2261	n-Tetracontane
O-2266	n-Tetratetracontane

Neat compounds of each of the above - (30 component kit)
Oh-30 KIT

ALKANE HYDROCARBONS KIT #1

O-2240	n-Pentane
O-735	n-Hexane
O-733	n-Heptane
O-740	n-Octane
F1099	n-Nonane
O-729	n-Decane
O-2290	n-Undecane
O-731	n-Dodecane
O-2273	n-Tridecane
O-2262	n-Tetradecane
O-2238	n-Pentadecane
O-734	n-Hexadecane
O-2110	n-Heptadecane
O-739	n-Octadecane
O-2203	n-Nonadecane

Neat compounds of each of the above - (15 component kit)
Oh-21 KIT

ALKANE HYDROCARBONS KIT #2

O-732	n-Eicosane
O-2108	n-Heneicosane
O-2089	n-Docosane
O-2270	n-Tricosane
O-2264	n-Tetracosane
O-2246	n-Pentacosane
O-2120	n-Hexacosane
O-2227	n-Octacosane
O-2268	n-Triacontane
O-2095	n-Dotriacontane
O-2128	n-Hexatriacontane
O-2233	n-Octatriacontane
O-2261	n-Tetracontane
O-2266	n-Tetratetracontane
O-2267	n-Tetratriacontane

Neat compounds of each of the above - (15 component kit)
Oh-26 KIT

BRANCHED ALKANE HYDROCARBONS KIT

O-736	2-Methylpentane
O-737	3-Methylpentane
O-738	Neohexane
O-730	Diisopropane
O-2168	3-Methyl hexane
O-2077	2.3-Dimethylpentane
O-2076	2.4-Dimethylpentane
O-2157	3-Methyl heptane
O-2067	2.5-Dimethyl hexane
O-741	2.2.4-Trimethylpentane
O-2286	2.3.4-Trimethyl pentane
O-2284	2.2.5-Trimethyl hexane
O-742	Cyclohexane
O-745	Methylcyclohexane

Neat compounds of each of the above - (14 component kit)
Oh-22 KIT

BRANCHED ALKANE HYDROCARBONS KIT

O-2144	2-Methylbutane
O-736	2-Methylpentane
O-737	3-Methylpentane
O-2167	2-Methyl hexane
O-2168	3-Methyl hexane
O-2156	2-Methyl heptane
O-2157	3-Methyl heptane
O-2158	4-Methyl heptane
O-2184	3-Methyl octane
O-2185	4-Methyl octane
O-2177	2-Methyl nonane
O-2178	4-Methyl nonane
O-2147	2-Methyl decane
O-2148	3-Methyl decane
O-2149	4-Methyl decane
O-730	Diisopropane
O-2077	2.3-Dimethylpentane
O-2076	2.4-Dimethylpentane
O-2066	2.4-Dimethyl hexane
O-2067	2.5-Dimethyl hexane
O-2068	3.4-Dimethyl hexane
O-2081	3.6-Dimethyl octane
O-741	2.2.4-Trimethylpentane
O-2276	1.1.1-Trimethyl butane
O-2277	2.2.3-Trimethyl butane
O-2286	2.3.4-Trimethyl pentane
O-2284	2.2.5-Trimethyl hexane

Neat compounds of each of the above - (30 component kit)
Oh-31 KIT

LINEAR ALKENE HYDROCARBONS KIT

O-2241	1-Pentene
O-2242	2-Pentene
O-2249	trans-2-Pentene
O-2243	cis-2-Pentene
O-752	1-Hexene
O-753	2-Hexene
O-2129	trans-3-Hexene
O-2116	1-Heptene
O-751	2-Heptene
O-2117	trans-2-Heptene
O-2104	3-Heptene
O-2118	trans-3-Heptene
O-756	1-Octene
O-757	2-Octene
O-2225	trans-4-Octene
O-2205	1-Nonene
O-2033	1-Decene
O-2094	1-Dodecene
O-2208	trans-4-Nonene
O-2207	trans-3-Nonene
O-2029	trans-3-Decene
O-2030	trans-4-Decene
O-2031	trans-5-Decene
O-2234	trans 3-Octene
O-2206	trans-2-Nonene
O-2107	1-Hexadecene

Neat compounds of each of the above - (15 component kit)
Oh-22 KIT

ALKENE HYDROCARBONS KIT #1

O-752	1-Hexene
O-753	2-Hexene
O-2181	2-Methyl-1-pentene
O-2183	4-Methyl-1-pentene
O-2193	4-Methyl-2-pentene
O-2100	2-Ethyl-1-butene
O-2116	1-Heptene
O-751	2-Heptene
O-2104	3-Heptene
O-756	1-Octene
O-757	2-Octene
O-2101	2-Ethyl-1-hexene
O-2205	1-Nonene
O-2033	1-Decene

Neat compounds of each of the above - (14 component kit)
Oh-23 KIT

ALKENE HYDROCARBONS KIT #2

O-749	Diisobutylene
O-2287	2.4.4-Trimethyl-2-pentene
O-2205	1-Nonene
O-2216	4-Nonene (cis & trans)
O-2285	3.5.5-Trimethyl-1-hexene
O-2033	1-Decene
O-2293	1-Undecene
O-2094	1-Dodecene
O-2274	1-Tridecene
O-2263	1-Tetradecene
O-2107	1-Hexadecene
O-2219	1-Octadecene
O-2097	1-Eicosene
O-2091	1-Docosene

Neat compounds of each of the above - (14 component kit)
Oh-24 KIT

ONE METHYL BRANCHED ALKENE HYDROCARBONS KIT

O-2143	2-Methyl-1-butene
O-2141	3-Methyl-1-butene
O-2146	2-Methyl-2-butene
O-2194	3-Methyl-1-pentene
O-2182	2-Methyl-2-pentene
O-2195	cis-3-Methyl-2-pentene
O-2196	trans-3-Methyl-2-pentene
O-2183	4-Methyl-1-pentene
O-2193	4-Methyl-2-pentene
O-2169	2-Methyl-1-hexene
O-2170	2-Methyl-2-hexene
O-2171	trans 2-Methyl-3-hexene
O-2172	3-Methyl-1-hexene
O-2173	4-Methyl-1-hexene
O-2174	cis-3-Methyl-2-hexene
O-2175	5-Methyl-1-hexene
O-2159	2-Methyl-1-heptene
O-2160	2-Methyl-2-heptene
O-2161	trans-2-Methyl-3-heptene
O-2197	2-Methyl-1-octene
O-2198	2-Methyl-2-octene

Neat compounds of each of the above - (21 component kit)
Oh-33 KIT

AROMATIC HYDROCARBONS KIT

O-760	Benzene
O-775	Toluene
O-779	o-Xylene
O-780	m-Xylene
O-781	p-Xylene
O-770	Ethylbenzene
O-764	Cumene
O-771	Mesitylene
O-765	p-Cymene
F827	n-Propylbenzene
F815	n-Butylbenzene
O-2253	1-Phenylhexane
O-2224	n-Octylbenzene
O-2035	n-Decylbenzene

Neat compounds of each of the above - (14 component kit)
Oh-25 KIT

CYCLIC HYDROCARBONS KIT

O-743	Cyclopentane	O-2281	1.1.3-Trimethyl cyclohexane	O-755	4-Methylcyclohexene	O-2024	1.5-Cyclooctadiene
O-742	Cyclohexane	O-2282	1.3.5-Trimethyl cyclohexane	O-759	4-Vinylcyclohexene-1	O-2017	Cycloheptatriene
O-2022	Cyclooctane	O-2025	Cyclopentene	O-754	d-Limonene	O-2018	1.5.9-Cyclododecatriene
O-2020	Cyclododecane	O-748	Cyclohexene	O-2283	3.3.5-Trimethyl cyclohexene	O-747	Camphene
O-746	Methylcyclopentane	O-2021	Cyclododecene	O-2019	1.3-Cyclohexadiene	O-750	Dipentene
O-745	Methylcyclohexane	O-2152	1-Methylcyclohexene	O-2023	1.3-Cyclooctadiene	O-758	Pinene

Neat compounds of each of the above - (24 component kit)
Oh-37 KIT

ALCOHOLS, C1 TO C5 KIT

O-157	Methyl alcohol	O-142	n-Butyl alcohol	O-139	Amyl alcohol	O-140	Isoamyl alcohol
O-151	Ethyl alcohol	O-144	sec-Butyl alcohol	O-2199	Methyl propyl carbinol	O-141	tert-Amyl alcohol
O-167	Propyl alcohol	O-143	Isobutyl alcohol	O-2245	3-Pentanol		
O-168	Isopropyl alcohol	O-145	tert-Butyl alcohol	O-2142	2-Methyl-1-butanol		

Neat compounds of each of the above - (25 component kit)
Oal-11 KIT

ALCOHOLS, C6 TO C8 KIT

O-155	Hexyl alcohol	O-162	4-Methyl-2-pentanol	O-2055	3.3-Dimethyl-2-butanol	O-166	Octyl alcohol
O-2126	2-Hexanol	O-2187	2-Methyl-3-pentanol	O-154	Heptyl alcohol	O-165	2-Octanol
O-2127	3-Hexanol	O-2188	3-Methyl-3-pentanol	O-2115	2-Heptanol		
O-2186	2-Methyl-1-pentanol	O-152	2-Ethyl-1-butanol	O-2078	2.4-Dimethyl-2-pentanol		

Neat compounds of each of the above - (14 component kit)
Oal-13 KIT

AROMATIC-BENZENOID HYDROCARBONS KIT

O-760	Benzene	O-766	m-Diethylbenzene	O-772	Phenylcyclohexane	O-777	1.2.4-Trimethylbenzene
O-761	Bibenzyl	O-767	Diphenylmethane	O-773	p-Terphenyl	O-778	Triphenylmethane
O-762	Biphenyl	O-768	1.3-Diisopropylbenzene	O-774	1,2,3,4-Tetrahydronaphthalene	O-779	o-Xylene
O-763	tert-Butylbenzene	O-769	Durene			O-780	m-Xylene
O-764	Cumene	O-770	Ethylbenzene	O-775	Toluene	O-781	p-Xylene
O-765	p-Cymene	O-771	Mesitylene	O-776	1.3.5-Triethylbenzene		

Neat compounds of each of the above - (22 component kit)
Oh-36 KIT

ALCOHOLS, C6 TO C22 KIT

O-155	Hexyl alcohol	O-149	Decyl alcohol	O-170	1-Tetradecanol	O-2096	1-Eicosanol
O-154	Heptyl alcohol	O-2291	1-Undecanol	O-2239	1-Pentadecanol	O-2090	1-Docosanol
O-166	Octyl alcohol	O-150	Dodecyl alcohol	O-146	Cetyl alcohol		
O-2210	1-Nonanol	O-2301	Tridecyl alcohol	O-164	1-Octadecanol		

Neat compounds of each of the above - (14 component kit)
Oal-12 KIT

CHLORINATED PHENOLS KIT

F24	2-Chlorophenol	O-2345	2.5-Dichlorophenol	F2299	2.3.5-Trichlorophenol	F2478	2,3,4,5-Tetrachlorophenol
O-2344	3-Chlorophenol	F915	2.6-Dichlorophenol	F2300	2.3.6-Trichlorophenol	F1086	2.3.4.6-Tetrachlorophenol
F2190	4-Chlorophenol	O-2310	3,4-Dichlorophenol	F717	2.4.5-Trichlorophenol	F1098	2.3.5.6-Tetrachlorophenol
O-2309	2,3-Dichlorophenol	O-2346	3.5-Dichlorophenol	F21	2.4.6-Trichlorophenol	F64	Pentachlorophenol
F31	2.4-Dichlorophenol	F2298	2.3.4-Trichlorophenol	O-2347	3,4,5-Trichlorophenol		

Neat compounds of each of the above - (19 component kit)
CP-1N KIT

ALDEHYDES KIT

O-233	Propionaldehyde	O-2136	Isovaleraldehyde	O-2211	Nonanal	O-2272	Tridecylaldehyde
O-225	n-Butyraldehyde	O-2119	Hexaldehyde	O-2034	Decyl aldehyde	O-239	Benzaldehyde
O-2014	Isobutyraldehyde	O-231	Heptaldehyde	O-2292	Undecanal		
O-234	Valeraldehyde	O-2235	Octyl aldehyde	O-2092	n-Dodecyl aldehyde		

Neat compounds of each of the above - (14 component kit)
Oco-45 KIT

ALDEHYDES KIT #2

F2322	Acetaldehyde	F2325	Crotonaldehyde	F2329	Heptaldehyde	F2331	Isovaleraldehyde
F2	Acrolein	F2328	Formaldehyde	F2330	Hexaldehyde	F2335	Propionaldehyde
F2324	n-Butyraldehyde	F2394	Furfural	F2395	Isobutyraldehyde	F2334	Valeraldehyde

Neat compounds of each of the above - (12 component kit)
NSH-2539N KIT

KETONES KIT #1

O-810	Methyl ethyl ketone	O-804	2-Heptanone	O-2222	3-Octanone	O-2153	3-Methylcyclohexanone
O-812	2-Pentanone	O-805	3-Heptanone	O-2213	2-Nonanone	O-2151	4-Methylcyclohexanone
O-813	3-Pentanone	O-806	4-Heptanone	O-2214	5-Nonanone		
F708	2-Hexanone	O-811	2-Octanone	O-2150	2-Methylcyclohexanone		

Neat compounds of each of the above - (14 component kit)
Oam-41 KIT

KETONES KIT #2

O-2145	3-Methyl-2-butanone	O-2073	2.4-Dimethyl-3-pentanone	O-2155	3-Methyl-2-heptanone	O-801	Cyclopentanone
O-2255	Pinacolone	O-2166	4-Methyl-2-hexanone	O-802	2.6-Dimethyl-4-heptanone	O-800	Cyclohexanone
O-2192	2-Methyl-3-pentanone	O-2165	5-Methyl-2-hexanone	O-808	Mesityl oxide		
O-809	Methyl isobutyl ketone	O-2154	5-Methyl-3-heptanone	O-821	Acetophenone		

Neat compounds of each of the above - (14 component kit)
Oam-42 KIT

KETONES KIT #3

O-798	Acetone	O-811	2-Octanone	O-2093	2-Dodecanone	O-2209	2-Nonadecanone
O-810	Methyl ethyl ketone	O-2213	2-Nonanone	O-2271	2-Tridecanone		
O-812	2-Pentanone	O-2032	2-Decanone	O-2244	2-Pentadecanone		
F708	2-Hexanone	PS-951	2-Undecanone	O-2109	9-Heptadecanone		

Neat compounds of each of the above - (13 component kit)
Oam-43 KIT

PRIMARY AMINES KIT

O-273	n-Butylamine	O-2004	Amylamine	O-337	Benzylamine	O-2302	n-Dodecylamine
O-274	Isobutylamine	O-2132	Isoamylamine	O-210	n-Heptylamine	O-2303	n-Tetradecylamine
O-275	sec-Butylamine	O-289	Hexylamine	O-2223	n-Octylamine		
O-276	tert-Butylamine	O-277	Cyclohexylamine	O-2036	n-Decylamine		

Neat compounds of each of the above - (14 component kit)
Oam-31 KIT

SEC & TERT AMINES KIT

O-2046	Diethylamine	O-2049	Diisopropylamine	O-2045	Didodecylamine	O-2275	Tri-n-hexylamine
O-285	Dipropylamine	O-2048	Di-n-hexylamine	O-297	Triethylamine	O-357	Tribenzylamine
O-2043	Diisobutylamine	O-338	Dibenzylamine	O-2289	Tripropylamine		
O-279	Dibutylamine	O-280	Dicyclohexylamine	O-296	Tributylamine		

Neat compounds of each of the above - (14 component kit)
Oam-32 KIT

AMINOAROMATIC HYDROCARBONS KIT

O-2376	2-Aminobiphenyl	F2417	2.6-Diaminotoluene	F37	1.2-Diphenylhydrazine	O-2395	2.4.6-Triaminotoluene trihydrochloride
F913	4-Aminobiphenyl	O-2390	3.4′-Diaminotoluene	F950	4.4′-Methylene bis(o-chloroaniline)		
F5	Benzidine	F28	3.3′-Dichlorobenzidine				
O-2383	3.3′-Diaminobenzidine	F2154	3.3′-Dimethoxybenzidine	O-349	4.4′-Methylenedianiline		
F2102	2,4-Diaminotoluene	F917	p-Dimethylaminoazobenzene	F991	o-Tolidine		

Neat compounds of each of the above - (15 component kit)
AMAR-1N KIT

MERCAPTANS

O-2256	n-Propyl mercaptan	O-2012	sec-Butyl mercaptan	O-980	1-Hexanethiol	O-2079	Di-n-propyl sulfide
O-2137	Isopropyl mercaptan	O-2013	2-Methyl-2-propanethiol	O-2124	n-Heptyl mercaptan	O-2044	Di-n-butyl sulfide
O-2134	Isobutyl mercaptan	O-2005	n-Amyl mercaptan	O-2047	Diethyl sulfide		
O-2011	n-Butyl mercaptan	O-2006	tert-Amyl mercaptan	O-2037	Diallyl sulfide		

Neat compounds of each of the above - (14 component kit)
Os-45 KIT

GERMAN AZODYE AMINES KIT

O-2397	o-Aminoazotoluene	F2154	3.3′-Dimethoxybenzidine	F950	4.4′-Methylene bis(o-chloroaniline)	F991	o-Tolidine
F913	4-Aminobiphenyl	O-2399	3,3′-Dimethyl-4,4′-diaminodiphenylmethane	O-349	4.4′-Methylenedianiline	O-354	o-Toluidine
F5	Benzidine	F2100	2-Methoxy-5-methylaniline	F927	b-Naphthylamine	F2146	2,4,5-Trimethylaniline
F706	4-Chloroaniline	O-2416	4-Methoxy-1,3-phenylenediamine	F934	5-Nitro-o-toluidine		
MET-840A	4-Chloro-2-methylaniline			F2127	4,4′-Oxydianiline		
F2102	2,4-Diaminotoluene			O-2400	4,4′-Thiodianiline		
F28	3.3′-Dichlorobenzidine						

Neat compounds of each of the above - (20 component kit)
AZD-1N KIT

TECHNICAL TIP: Opening an ampule

The ampules are scored at the neck (color band) to facilitate opening.

(1) Chill ampule before opening - this is especially important for gas solutions & mixtures.

(2) Hold the ampule vertically at arms length, with the bottle section in one hand, head section in the other - thumbs touching at the neck.

(3) Press out and away with thumbs to open.

(4) Transfer sample to a suitable vial and cap.

(5) Caution - Edges where the ampule has been broken may be sharp: handle with care, under a fume hood.

Whether it is bottled or ampuled, neat or solution, rest assured that Chem Service products not only follow a 50 year tradition in providing highly purified materials for reference standards, but also that we will strive to continually increase the quality of our materials and services for our customers.

In July 1994, Germany prohibited the production, import and sale of textiles that contained specific azo dyes. Many manufacturers are requested now by international buyers to demonstrate that their products do not contain the forbidden dyes. This kit contains the 20 amines regulated in the garment industry.



ORGANIC SOLVENTS KIT

ACIDS
O-4 Acetic acid
O-5 Butyric acid
O-6 Isobutyric acid
O-16 Formic acid

ACIDS, HALOGEN
O-42 Chloroacetic acid
O-46 Trichloroacetic acid

ALCOHOLS, MONOHYDRIC
O-138 Allyl alcohol
O-139 Amyl alcohol
O-140 Isoamyl alcohol
O-141 tert-Amyl alcohol
O-142 n-Butyl alcohol
O-143 Isobutyl alcohol
O-144 sec-Butyl alcohol
O-145 tert-Butyl alcohol
O-148 Cyclohexanol
O-151 Ethyl alcohol
O-152 2-Ethyl-1-butanol
O-153 2-Ethyl-1-hexanol
O-157 Methyl alcohol
O-167 Propyl alcohol
O-168 Isopropyl alcohol

ALCOHOLS, ETHER
O-172 2-(2-Butoxyethoxy)ethanol
O-173 Ethoxyethoxyethanol
O-174 Methoxyethoxyethanol
O-176 2-Butoxyethanol
O-177 2-Ethoxyethanol
O-178 2-Methoxyethanol
O-181 Tetrahydrofurfuryl alcohol

ALCOHOLS, HALOGEN
O-182 2-Chloroethanol

ALCOHOLS, POLYHYDRIC
O-193 Ethylene glycol

ALCOHOLS, AROMATIC
O-213 Benzyl alcohol

AMIDES
O-248 Acetamide
O-252 N.N-Dimethylformamide
O-253 Formamide

AMINES, POLY
O-328 Ethylenediamine

CARBONATES
O-396 Dimethyl carbonate

ESTERS, MONOBASIC
O-405 Allyl acetate
O-2003 n-Amyl acetate
O-407 n-Butyl acetate
O-412 Ethyl acetate
O-413 Ethyl butyrate
O-414 Ethyl formate
O-406 Isoamyl acetate
O-421 Methyl acetate
O-437 Propyl acetate
O-438 Iso-propyl acetate

ESTERS, ETHER
O-2297 Butoxyethyl acetate
O-443 2-Ethoxyethyl acetate
O-446 2-Methoxyethyl acetate
O-447 Tetrahydrofurfuryl acetate

ESTERS, HALOGEN
O-452 Ethyl chloroacetate
O-453 Ethyl chloroformate
O-455 Ethyl trichloroacetate

ESTERS, HYDROXY
O-459 2-Hydroxyethyl acetate

ESTERS, POLYHYDRIC
O-492 Ethylene diacetate
O-508 Triethylene glycol diacetate

ESTERS, AROMATIC
O-514 Benzyl acetate
O-525 Diethyl phthalate
O-526 Dimethyl phthalate

ETHERS
O-559 Allyl ether
O-561 Bis(2-ethoxyethyl)ether
O-562 1.2-Bis(2-methoxyethoxy)ethane
O-563 Bis[2-(2-methoxyethoxy)ethyl]ether
O-564 Bis(2-methoxyethyl)ether
O-565 Butyl ether
O-567 1.2-Dimethoxyethane
O-568 1.4-Dioxane
O-569 Ethyl ether
O-573 Isopropyl ether
O-560 Isoamyl ether
O-574 Tetrahydrofuran
O-575 Tetrahydro-2-methylfuran

ETHERS, AROMATIC
O-582 Benzyl ether

HALOGEN COMPOUNDS
O-601 1-Bromobutane
O-602 2-Bromobutane
O-604 Bromochloromethane
O-605 1-Bromo-3-chloropropane
O-615 1-Bromopentane
O-616 2-Bromopentane
O-617 1-Bromopropane
O-618 2-Bromopropane
O-619 Bromotrichloromethane
O-620 Carbon tetrachloride
O-621 1-Chlorobutane
O-623 Chloroform
O-624 1-Chlorohexane
O-625 1-Chloro-3-methylbutane
O-626 2-Chloro-2-methylbutane
O-628 2-Chloro-2-methylpropane
O-630 1-Chloropentane
O-2016 2-Chloropropane
O-633 Dibromomethane
O-636 1.4-Dichlorobutane
F13 1.1-Dichloroethane
O-659 cis-1.2-Dichloroethene
O-660 trans-1.2-Dichloroethene
O-638 1.2-Dichloropropane
O-640 Ethyl bromide
O-642 Ethylene chloride
O-644 Hexachloroethane
O-648 Methylene chloride
O-651 s-Tetrachloroethane
O-663 Tetrachloroethene
O-652 1.1.1-Trichloroethane
O-653 1.1.2-Trichloroethane
O-664 Trichloroethene
O-654 1.2.3-Trichloropropane

HALOGEN COMPOUNDS, AROMATIC
O-669 Chlorobenzene
O-672 2-Chlorotoluene
O-673 3-Chlorotoluene
O-674 4-Chlorotoluene

HYDROCARBONS, SATURATED, PARAFFINIC
O-729 n-Decane
O-730 Diisopropane
O-731 n-Dodecane
O-732 n-Eicosane
O-733 n-Heptane

HYDROCARBONS, SATURATED, PARAFFINIC (cont'd)
O-734 n-Hexadecane
O-735 n-Hexane
O-737 3-Methylpentane
O-738 Neohexane
O-739 n-Octadecane
O-740 n-Octane
O-2240 n-Pentane
O-741 2.2.4-Trimethylpentane

HYDROCARBONS, NAPHTHENIC
O-742 Cyclohexane
O-743 Cyclopentane
O-744 Decahydronaphthalene
O-745 Methylcyclohexane
O-746 Methylcyclopentane

HYDROCARBONS, AROMATICS
O-760 Benzene
O-761 Bibenzyl
O-764 Cumene
O-765 p-Cymene
O-766 m-Diethylbenzene
O-768 1.3-Diisopropylbenzene
O-770 Ethylbenzene
O-775 Toluene
O-776 1,3,5-Triethylbenzene
O-777 1.2.4-Trimethylbenzene
O-779 o-Xylene
O-780 m-Xylene
O-781 p-Xylene

KETONES
O-798 Acetone
O-800 Cyclohexanone
O-801 Cyclopentanone
O-802 2.6-Dimethyl-4-heptanone
O-804 2-Heptanone
O-805 3-Heptanone
O-808 Mesityl oxide
O-809 Methyl isobutyl ketone
O-810 Methyl ethyl ketone
O-811 2-Octanone
O-812 2-Pentanone
O-813 3-Pentanone

NITRILES
O-834 Acetonitrile
O-836 Benzonitrile

NITRO COMPOUNDS
O-852 Nitrobenzene
O-853 Nitroethane
O-854 Nitromethane
O-856 1-Nitropropane

PHENOLS
O-870 o-Cresol
O-871 m-Cresol
O-872 p-Cresol
O-879 Phenol
O-887 p-Methoxyphenol

SULFUR COMPOUNDS
O-2080 Dimethylsulfolane
O-976 Methyl sulfoxide

COMMERCIAL CHEMICALS
O-2138 Kerosene
Pz-122 Mineral spirits (BP range 130-145C)
O-2252 Petroleum ether (BP range 30-60C)
O-2259 Terpentine

So-160A Neat compounds of each of the above - (160 component kit - random selection)

This kit consists of 160 common organic solvents used in paint, plastic, coating, cosmetic adhesive, surfactant, cleaning and many other industries.

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

PHTHALATE KIT

Pt-1	Benzyl 2-ethylhexyl phthalate
Pt-2	Bis(2-n-butoxyethyl)phthalate
Pt-3	Bis[2-(2-ethoxyethoxy)ethyl]phthalate
Pt-4	Bis(2-ethoxyethyl)phthalate
Pt-5	Bis(2-ethylhexyl)hexahydro phthalate
Pt-6	Bis(2-ethylhexyl)isophthalate
Pt-7	Bis(2-ethylhexyl)phthalate
Pt-8	Bis(2-methoxyethyl)phthalate
Pt-9	Bis(4-methyl-2-pentyl)phthalate
Pt-10	Butyl benzyl phthalate
Pt-11	Butyl cyclohexyl phthalate
Pt-12	Butyl-n-decyl phthalate
Pt-13	Butyl 2-ethylhexyl phthalate
Pt-14	Butyl isodecyl phthalate
Pt-15	Butyl octyl phthalate
Pt-16	Diamyl phthalate
Pt-17	Dibutyl phthalate
Pt-19	Dicyclohexyl phthalate
Pt-20	Diethyl phthalate
Pt-21	Di-n-hexyl phthalate
Pt-22	Diisobutyl phthalate
Pt-23	Diisohexyl phthalate
Pt-24	Diisononyl phthalate
Pt-25	Bis(4-methylcyclohexyl)phthalate
Pt-26	Dimethyl isophthalate
Pt-27	Dimethyl phthalate
Pt-28	Dioctyl isophthalate
Pt-29	Di-n-octyl phthalate
Pt-30	Diphenyl phthalate
Pt-31	Ditridecyl phthalate
Pt-32	Diundecyl phthalate
Pt-33	2-Ethylhexyl isodecyl phthalate
Pt-34	n-Hexyl decyl phthalate
Pt-35	Hexyl 2-ethylhexyl phthalate
Pt-36	Hexyl isodecyl phthalate
Pt-37	Isodecyl tridecyl phthalate
Pt-38	n-Octyl-n-decyl phthalate
Pt-39	Octyl isodecyl phthalate
Pt-40	Isohexylbenzyl phthalate
Pt-41	Diisodecyl phthalate
Pt-42	Dinonyl phthalate

PT-35 Neat compounds of each of the above - (35 component kit - random selection)

The Phthalates kit consists of 35 phthalate esters including homo and mixed substituted compounds. The group is compiled to give the user a small sample of virtually every type of phthalate ester commercially available.

BIOLOGICAL STAINS KIT

CI #	CAT#	DESCRIPTION
10005	BS-123	1-Nitroso-2-napthol
10020	BS-1	Naphthol Green B
10305	BS-2	Picric Acid
10315	BS-3	Martius Yellow
10316	BS-4	Naphthol Yellow S
11000	BS-5	Aniline Yellow
11020	BS-6	Oil Yellow 11
11050	BS-7	Janus Green B
11160	BS-8	Aminoazotoluene
11270	BS-9	Chrysoidine
11350	BS-10	Benzeneazo-1-napthylamine
13020	BS-14	Methyl Red
13025	BS-15	Methyl Orange
13065	BS-16	Metanil Yellow (Orange MNO)
13080	BS-17	Orange IV
14025	BS-18	Alizarin Yellow GC
14030	BS-19	Alizarin Yellow R
14270	BS-20	Tropaeolin O
14645	BS-22	Mordant Black 11
14890	BS-23	Nitrazine Yellow
15510	BS-24	Orange 11
15705	BS-25	Eriochrome Blue Black R
15710	BS-130	Eriochrome Black A [Mordant Black 1]
16150	BS-26	Ponceau 6
16155	BS-131	Ponceau 3R
16180	BS-27	Bordeaux Red
16185	BS-132	Amaranth [Acid Red 27]
16230	BS-28	Orange G
16255	BS-133	Cochineal Red A [Acid Red 18]
16570	BS-134	Chromotrope 2R
16575	BS-200	Chromotrope 2B
16680	BS-30	Mordant Blue 13
18050	BS-135	Amido Naphthol Red G [Acid Red 1]
19140	BS-31	Tartrazine
19540	BS-32	Clayton Yellow
20170	BS-136	Resorcin Brown [Acid Orange 24]
20470	BS-33	Aniline Blue Black
21000	BS-34	Bismark Brown Y
22120	BS-35	Congo Red
23500	BS-36	Benzopurpurin 4B
23850	BS-137	Trypan Blue
23860	BS-37	Evans Blue
24410	BS-139	Chicago Blue [Direct Blue 1]
24890	BS-38	Brilliant Yellow
25380	BS-140	Benzo Fast Pink 2 BL
26100	BS-39	Sudan III
26105	BS-40	Sudan IV
26120	BS-141	Oil Red EGN [Solvent Red 26]
26125	BS-159	Oil Red O
26150	BS-41	Sudan Black B
26905	BS-142	Biebrich Scarlet
27195	BS-143	Ponceau S
30235	BS-42	Chlorazol Black E
37235	BS-144	Fast Blue Salt B
40000	BS-145	Stilbene Yellow
41000	BS-43	Auramine O
42000	BS-44	Malachite Green Oxalate
42040	BS-45	Brillant Green
42045	BS-112	Patent Blue
42053	BS-46	Fast Green FCF
42080	BS-128	Alphazurin A
42090	BS-113	Erioglaucine [Acid 14030 Blue 9]
42095	BS-47	Light Green SF
42500	BS-48	Pararosaniline Acetate
42500	BS-49	Basic fuchsin [Pararosaniline Hydrochloride]
42510	BS-50	Basic Fuchsin [Rosaniline]
42520	BS-146	New Fuchsin
42535	BS-52	Methyl Violet 2B
42555	BS-53	Gentian Violet [Crystal Violet]
42590	BS-54	Methyl Green
42600	BS-55	Ethyl Violet
42685	BS-56	Fuchsin Violet
42755	BS-57	Aniline Blue
42780	BS-138	Cotton Blue CVB
43535	BS-58	Xylene Cyanole FF
43800	BS-108	Rosolic Acid
43810	BS-59	Chrome Violet CG Aluminon
43820	BS-147	Eriochrome Cyanine R [Mordant Blue 3]
43825	BS-60	Mordant Blue 29
43830	BS-122	Mordant Blue 1
44040	BS-149	Victoria Blue R
44045	BS-148	Victoria Blue B
44090	BS-106	Wool Green S
45000	BS-61	Acridine Red
45170	BS-62	Rhodamine B
45350	BS-63	Fluoroscein
45370	BS-64	Dibromofluorescein
45380	BS-65	Eosin Y [Acid Red 87]
45386	BS-67	Ethyl Eosin
45400	BS-150	Eosin Bluish
45410	BS-68	Phloxine B
45430	BS-69	Erythrosin Bluish
45435	BS-70	Rose Bengal G
45445	BS-151	Gallien [Mordant Violet 25]
46005	BS-71	Acridine Orange Basic
46025	BS-152	Acridine Yellow
47005	BS-72	Quinoline Yellow
49000	BS-73	Primulin Yellow
50040	BS-75	Neutral Red
50085	BS-74	Azo Carmine G
50205	BS-160	Methylene Violet [Bernthsen]
50240	BS-84	Safranin O
50420	BS-78	Nigrosine
51010	BS-79	Brilliant Cresyl Blue
51030	BS-96	Gallocyanin
51180	BS-80	Nile Blue A
51400	BS-104	Iris Blue B [Lacmoid]
52000	BS-81	Thionin
52010	BS-161	Azure B Bromide
52015	BS-82	Methylene Blue
52020	BS-158	Methylene Green
52030	BS-153	New Methylene Blue
52040	BS-83	Toluidine Blue D
58000	BS-85	Alizarin
58005	BS-86	Alizarin Red S
58050	BS-87	Quinizarin
58205	BS-88	Purpurin
58500	BS-89	Quinalizarin
60505	BS-90	Disperse Red 9
61525	BS-111	Sudan Blue GA
61570	BS-154	Alizarin Cyanone Green B
63615	BS-155	Alizarin Blue Black B
73000	BS-92	Indigo Blue
73015	BS-93	Indigo Carmine [5,5-indigo disulfonic acid]
75100	BS-156	Saffron
75290	BS-94	Hematoxylin
75300	BS-95	Curcumin
75470	BS-157	Cochineal [Natural Red 4]
75470	BS-97	Carmine
75660	BS-99	Morin
75670	BS-100	Quercetin
77510	BS-163	Prussian blue
	BS-66	Eosin (Free Acid)
	BS-105	Azure C
	BS-109	Tetrachrome Stain
	BS-110	Wrights Stain
	BS-124	Luxol Fast Blue MBS
	BS-125	Rapidogen Black J
	BS-126	4', 5'-Dichlorofluorescein
	BS-162	Bromophenol blue

BS-100A Neat compounds of each of the above - (100 component kit - random selection)

The chemicals are listed in order by Color Index number (C.I. #).

This kit consists of 100 common and rare biological stains and dyes especially designed to meet the needs of routine and development labs as well as the researcher wanting the widest possible selection of stain compounds.

INORGANIC CHEMICALS KIT

I-1	Aluminum ammonium sulfate
I-2	Aluminum chloride
I-3	Aluminum nitrate
I-4	Aluminum potassium sulfate
I-5	Aluminum sulfate
I-6	Ammonium acetate
I-7	Ammonium bicarbonate
I-8	Ammonium chloride
I-9	Ammonium hydroxide
I-10	Ammonium iodide
I-11	Ammonium molybdate tetrahydrate
I-12	Ammonium nitrate
I-13	Ammonium phosphate-monobasic
I-14	Ammonium phosphate-dibasic
I-15	Ammonium sulfate
I-16	Ammonium sulfide (20% solution in H2O)
I-17	Ammonium thiocyanate
I-18	Ammonium-m-vanadate
I-19	Antimony trichloride
I-20	Barium acetate
I-21	Barium carbonate
I-22	Barium chloride
I-23	Barium hydroxide-octahydrate
I-24	Barium nitrate
I-25	Barium sulfate
I-26	Beryllium sulfate
I-27	Bismuth nitrate-pentahydrate
I-28	Cadmium acetate-dihydrate
I-29	Cadmium chloride
I-30	Cadmium nitrate
I-31	Calcium acetate monohydrate
I-32	Calcium carbonate
I-33	Calcium chloride anhydrous
I-34	Calcium hydroxide
I-35	Calcium nitrate
I-36	Calcium oxide
I-37	Calcium phosphate-tribasic
I-38	Calcium sulfate dihydrate
I-39	Cerium (IV) ammonium nitrate
I-40	Chromium (III) chloride
I-41	Chromium (III) nitrate
I-42	Chromium (VI) trioxide
I-43	Cobalt acetate
I-44	Cobalt (II) chloride
I-45	Cobalt nitrate
I-46	Copper (II) acetate monohydrate
I-47	Copper (II) bromide
I-48	Copper (II) chloride - dihydrate
I-49	Copper (II) nitrate trihydrate
I-50	Copper (II) sulfate - pentahydrate
I-51	Copper (I) chloride
I-52	Ferric ammonium sulfate
I-53	Ferric chloride-hexahydrate
I-54	Ferric nitrate
I-55	Ferrous ammonium sulfate
I-56	Ferrous chloride tetrahydrate
I-57	Ferrous sulfate-heptahydrate
I-58	Ferrous sulfide
I-59	Iodine reagent crystals
I-60	Lead acetate trihydrate
I-61	Lead chloride
I-62	Lead nitrate
I-63	Lead oxide yellow
I-64	Lithium carbonate-powder
I-65	Lithium chloride
I-66	Lithium fluoride
I-67	Lithium nitrate
I-68	Lithium sulfate
I-69	Magnesium acetate - tetrahydrate
I-70	Magnesium chloride hexahydrate
I-71	Magnesium nitrate hexahydrate
I-72	Magnesium sulfate heptahydrate
I-73	Manganese dioxide
I-74	Manganese (II) chloride tetrahydrate
I-75	Manganese (II) sulfate monohydrate
I-76	Mercuric acetate
I-77	Mercuric chloride
I-78	Mercuric nitrate monohydrate
I-79	Mercury (I) chloride
I-80	Mercury (I) nitrate
I-81	Nickel acetate
I-82	Nickel (II) chloride
I-83	Nickel (II) nitrate
I-84	Nickel (II) sulfate
I-85	Phosphomolybdic acid
I-86	Phosphorus pentachloride
I-87	Phosphotungstic acid
I-88	Potassium acetate
I-89	Potassium bicarbonate
I-90	Potassium bisulfate
I-91	Potassium bromate
I-92	Potassium bromide
I-93	Potassium carbonate
I-94	Potassium chlorate
I-95	Potassium chloride
I-96	Potassium chromate
I-97	Potassium cyanate
I-98	Potassium cyanide
I-99	Potassium dichromate
I-100	Potassium ferricyanide
I-101	Potassium ferrocyanide
I-102	Potassium fluoride
I-103	Potassium hydroxide
I-104	Potassium iodate
I-105	Potassium iodide
I-106	Potassium nitrate
I-107	Potassium nitrite
I-108	Potassium perchlorate
I-109	Potassium permanganate
I-110	Potassium persulfate
I-111	Potassium phosphate
I-112	Potassium phosphate dibasic
I-113	Potassium phosphate-tribasic
I-114	Potassium sulfate
I-115	Potassium thiocyanate
I-116	Silicotungstic acid
I-117	Silver nitrate
I-118	Sodium acetate
I-119	Sodium ammonium phosphate
I-120	Sodium arsenate-dibasic
I-121	Sodium arsenite
I-122	Sodium bicarbonate
I-123	Sodium bismuthate
I-124	Sodium bisulfate
I-125	Sodium bisulfite
I-126	Sodium borate
I-127	Sodium bromide
I-128	Sodium carbonate
I-129	Sodium chlorate
I-130	Sodium chloride
I-131	Sodium chromate
I-132	Sodium cyanide
I-133	Sodium dichromate
I-134	Sodium fluoride
I-135	Sodium fluosilicate
I-136	Sodium hydroxide
I-137	Sodium hypophosphite
I-138	Sodium iodide
I-139	Sodium molybdate (VI) dihydrate
I-140	Sodium nitrate
I-141	Sodium nitrite
I-142	Sodium perborate
I-143	Sodium phosphate-monobasic
I-144	Sodium phosphate-dibasic
I-145	Sodium phosphate-tribasic
I-146	Sodium selenite
I-147	Sodium stannate
I-148	Sodium sulfate-anhydrous
I-149	Sodium sulfide
I-150	Sodium sulfite
I-151	Sodium tellurite
I-152	Sodium thiocyanate
I-153	Sodium thiosulfate
I-154	Sodium tungstate
I-155	Tin (IV) chloride
I-156	Tin (II) chloride (dihydrate)
I-157	Strontium chloride
I-158	Strontium nitrate
I-159	Sulfur-sublimed
I-161	Titanium sulfate
I-162	Uranyl nitrate
I-163	Zinc acetate
I-164	Zinc chloride
I-165	Zinc nitrate
I-166	Zinc sulfate

I-155B Neat compounds of each of the above - (155 component kit - random selection

ORDERING INFORMATION - The inorganic kit is packaged in 10g quantities of each chemical. Certain chemicals may be supplied in lesser quantities due to high cost.

OXIDATION-ULTRAVIOLET INHIBITOR KIT

PHENOLS (Antioxidants)
Ou-1 2.2-Bis(4-hydroxyphenyl)butane
Ou-2 2.4-Bis(1-methylbutyl)phenol
Ou-3 4-tert-Butylcatechol
Ou-4 4-tert-Butylphenol
Ou-5 4.4′-Butylidene bis(6-tert-butyl-m-cresol)
Ou-6 2.5-Di-tert-amylhydroquinone
Ou-7 2.5-Di-tert-butylhydroquinone
Ou-8 2.6-Di-tert-butyl-4-methylphenol
Ou-9 2.6-Di-tert-butylphenol
Ou-10 Hydroquinone monobenzyl ether
Ou-11 Hydroquinone monomethyl ether
Ou-13 2.2′-Methylene bis(6-tert-butyl-4-methylphenol)
Ou-14 4.4′-Methylene bis-(2.6-di-tert-butylphenol)
Ou-15 4-Methoxy-2-6-di-tert-butylphenol
Ou-16 Octadecyl-3.5-di-tert-butyl-4-hydroxycinnamate
Ou-17 Pentaerythrityl tetrabis(3.5-di-tert-butyl-4-hydroxycinnamate)
Ou-18 Propyl gallate
Ou-19 2.4.6-Tris(3.5-di-tert-butyl-4-hydroxyphenyl)mesitylene
Ou-20 Tris(2-methyl-4-hydroxy-5-tert-butylphenyl)butane

PHENOLS, SULFUR CONTAINING (Antioxidants)
Ou-21 Thiobis(di-sec-amylphenol)
Ou-22 4.4′-Thiobis(2-tert-butyl-o-methylphenol)
Ou-23 4.4′-Thiobis(2.6-di-tert-butylphenol)

PHENOLS, NITROGEN CONTAINING (Antioxidants)
Ou-24 2.6-Di-tert-butyl-(a-dimethylamino)-p-cresol
Ou-25 Dimethylaminomethylphenol
Ou-26 N-Lauroyl-p-aminophenol
Ou-27 N-Stearoyl-p-aminophenol
Ou-28 2.4.6-Tris(dimethyl aminomethyl)phenol

AMINES (Antioxidants, antiozonates)
Ou-29 N.N′-Bis(1,4-dimethylpentyl)-p-phenylenediamine
Ou-30 N.N′-Bis(1-ethyl-3-methyl-pentyl)-p-phenylenediamine
Ou-31 N.N′-Bis(1-methylheptyl)-p-phenylenediamine
Ou-32 6-tert-Butyl-m-cresol & sulfur dichloride reaction product
Ou-33 Di-p-methoxydiphenylamine
Ou-34 Dioctyldiphenylamine
Ou-35 Diphenylethylenediamine
Ou-36 N.N′-Diphenyl-p-phenylenediamine
Ou-37 Diphenylpropylenediamine
Ou-38 Di-o-tolylethylenediamine
Ou-39 p-Isopropoxydiphenylamine
Ou-40 N-Isopropyl-N-phenyl-p-phenylene diamine
Ou-41 Di-B-naphthyl-p-phenylene diamine
Ou-42 N-Phenyl-N-cyclohexyl-p-phenylenediamine
Ou-43 N-Phenyl-2-naphthylamine
Ou-44 N-Phenyl-1-naphthylamine
Ou-45 p-(p-Toluenesulfonamide)-diphenylamine
Ou-46 m-Toluenediamine

CONDENSATES
Ou-47 Diphenylamine-acetone reaction product
Ou-48 Phenyl-B-naphthylamine-acetone reaction product
Ou-49 Diphenylamine-diisobutylene reaction product
Ou-50 Butyraldehyde-aniline reaction product

QUINOLINES (Antioxidants)
Ou-51 Polymerized-1.2-dihydro-2.2.4-trimethylquinoline
Ou-52 6-Dodecyl-1.2-dihydro-2.2.4-trimethylquinoline
Ou-53 6-Ethoxy-1.2-dihydro-2.2.4-trimethylquinoline

THIOESTERS (Secondary Antioxidants)
Ou-54 Dilaurylthiodipropionate
Ou-55 Distearylthiodipropionate

PHOSPHITES (Antioxidants)
Ou-56 Alkylated arylphosphite

THIOUREAS
Ou-57 1.3-Dibutyl-2-thiourea
Ou-58 1.3-Diethyl-2-thiourea

METAL SOAPS AND SALTS (Stabilizers, Copper inhibitors)
Ou-59 Barium stearate
Ou-60 Barium cadmium laurate
Ou-61 Cadmium diamyldithiocarbamate
Ou-62 Cadmium stearate
Ou-63 Calcium stearate
Ou-64 Dibutyltin dilaurate
Ou-65 Dibutyltin dioleate
Ou-66 Dibutyltin distearate
Ou-67 Dibutyltin maleate
Ou-68 Lead phthalate (dibasic)
Ou-69 Lead stearate (dibasic)
Ou-70 lead maleate tribasic
Ou-72 Nickel dibutyl dithiocarbamate
Ou-73 Strontium-zinc laurate
Ou-74 Zinc diamyldithiocarbamate
Ou-75 Zinc dibenzyl dithiocarbamate
Ou-76 Zinc dibutyldithiocarbamate
Ou-77 2-Mercaptobenzimidazole zinc salt

EPOXY COMPOUNDS
Ou-78 Butyl epoxystearate
Ou-79 Epoxidized soybean oil
Ou-80 3.4-Epoxy-6-methylcyclohexylmethyl-3.4-epoxy-6-methyl-cyclohexane carboxylate

MISCELLANEOUS
Ou-81 Oxanilide (copper inhibitor)
Ou-82 N-N′-Disalicylal propylene diamine
Ou-83 Ethoxylated cocoamine (latex stabilizer)
Ou-84 Di-o-tolylguanidine salt of dicatecholborate
Ou-85 2-Mercaptobenzothiazole

UV STABILIZERS
Ou-86 2-(5-tert-Butyl-6-hydroxy-m-tolyl)-5-chlorobenzotriazole
Ou-87 p-tert-Butylphenyl salicylate
Ou-88 2-(3.5-Di-tert-butyl-2-hydroxyphenyl)-5-chlorobenzotriazole
Ou-89 2.4-Dihydroxybenzophenone
Ou-90 2.2′-Dihydroxy-4.4′-dimethoxybenzophenone
Ou-91 2.2′-Dihydroxy-4.4′-dimethoxy benzophenone-5-sulfonic acid sodium salt
Ou-92 2.2′-Dihydroxy-4-methoxy benzophenone
Ou-93 4-(Dodecyloxy)-2-hydroxy benzophenone
Ou-94 Ethyl 2-cyano-3.3-diphenylacrylate
Ou-95 2-Ethylhexyl-2-cyano-3.3-diphenylacrylate
Ou-96 Hexamethylphosphoric triamide
Ou-97 2-Hydroxy-4-[2-hydroxy-3-(methacryloyloxy)-propoxy]benzophen
Ou-98 2-Hydroxy-4-methoxy-benzophenone
Ou-99 2-Hydroxy-4-methoxy-benzophenone-2-carboxylic acid
Ou-100 2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid
Ou-101 2-Hydroxy-4-methoxy-benzophenone-5-sulfonic acid-trihydrate
Ou-102 2-Hydroxy-4-(octyloxyl)-benzophenone
Ou-103 2-(6-Hydroxy-m-tolyl)-benzotriazole
Ou-104 p-Octylphenyl salicylate
Ou-105 Phenyl salicylate
Ou-106 Resorcinol monobenzoate
Ou-107 2.2′.4.4′-Tetrahydroxybenzophenone
Ou-108 (2.2′-Thiobis(4-(1.1.3.3-tetramethylbutyl)phenol)ato(2.1))-(butylamine)nickel
Ou-109 2.2′-Thiobis[4-(1.1.3.3-tetramethylbutyl)phenol]nickel derivative

OU-100A Neat compounds of each of the above - (100 component kit - random selection)

This kit consists of 100 commercial and experimental antioxidants, antiozonates, stabilizers, copper inhibitors, corrosion inhibitors and ultraviolet inhibitors. Numerical, alphabetical and trade name listings are included with the kit.

COMMON PLASTICIZER KITS

MONOESTERS

ABIETATES
Pz-1 Methyl abietate
Pz-2 Methyl abietate (hydrogenated)

LACTATES
Pz-3 Butyl lactate
Pz-4 Butyl laurate

MYRISTATES
Pz-5 Isopropyl myristate

OLEATES
Pz-6 Methyl oleate
Pz-7 Ethyl oleate
Pz-8 Butyl oleate
Pz-9 2-Butoxyethyl oleate
Pz-10 Tetrahydrofurfuryl oleate

PALMITATES
Pz-11 Isopropyl palmitate
Pz-12 Isooctyl palmitate

RICINOLEATES
Pz-13 Methyl acetyl ricinoleate
Pz-14 Butyl acetyl ricinoleate
Pz-15 Methoxyethyl acetyl ricinoleate

STEARATES
Pz-16 Methyl stearate
Pz-17 Butyl stearate
Pz-18 2-Butoxyethyl stearate

TALLATES
Pz-19 Butyl tallate

DIESTERS

ABIETATES
Pz-20 Dimethyl adipate
Pz-21 Diethyl adipate
Pz-22 Dipropyl adipate
Pz-23 Dibutyl adipate
Pz-24 Diisobutyl adipate
Pz-25 Bis(2-ethylhexyl)adipate
Pz-26 Di-n-decyl adipate
Pz-27 Diisodecyl adipate
Pz-28 Octyl decyl adipate
Pz-29 Bis(2-ethoxyethyl)adipate
Pz-30 Bis(butoxyethoxyethyl)adipate

AZELATES
Pz-31 Bis(2-ethylhexyl)azelate

CARBONATES
Pz-32 Dibutyl carbonate
Pz-33 Propylene carbonate

FUMARATES
Pz-34 Diethyl fumarate
Pz-35 Dibutyl fumarate
Pz-36 Bis(2-ethylhexyl)fumarate

ITACONATES
Pz-37 Dimethyl itaconate

MALEATES
Pz-38 Diethyl maleate
Pz-39 Dibutyl maleate
Pz-40 Bis(2-ethylhexyl)maleate

PHTHALATES
Pz-41 Dimethyl phthalate
Pz-42 Dimethyl isophthalate
Pz-43 Diethyl phthalate
Pz-44 Dibutyl phthalate
Pz-45 Diisobutyl phthalate
Pz-46 Diamyl phthalate
Pz-47 Bis(2-ethylhexyl)phthalate

PHTHALATES (cont'd)
Pz-48 Bis(2-ethylhexyl)isophthalate
Pz-49 Di-n-octyl phthalate
Pz-50 Butyl isodecyl phthalate
Pz-51 Isooctyl isodecyl phthalate
Pz-52 Diisodecyl phthalate
Pz-53 Butyl benzyl phthalate
Pz-54 Diphenyl phthalate
Pz-55 Dicyclohexyl phthalate
Pz-56 Bis(2-methoxyethyl)phthalate
Pz-57 Bis(2-ethoxyethyl)phthalate
Pz-58 Bis(2-n-butoxyethyl)phthalate

SEBACATES
Pz-59 Dimethyl sebacate
Pz-60 Diethyl sebacate
Pz-61 Dibutyl sebacate
Pz-62 Bis(2-ethylhexyl)sebacate
Pz-63 Dibenzyl sebacate
Pz-64 Butyl benzyl sebacate
Pz-65 Bis(2-ethoxyethyl)sebacate
Pz-66 Bis(2-n-butoxyethyl)sebacate

SUCCINATES
Pz-67 Diethyl succinate
Pz-68 Dipropyl succinate
Pz-69 Dibutyl succinate

TARTRATES
Pz-70 Dibutyl tartrate

TRIESTERS

CITRATES
Pz-72 Triethyl citrate
Pz-73 Tributyl citrate
Pz-74 Acetyl triethyl citrate
Pz-75 Acetyl tributyl citrate
Pz-76 Acetyl tris(2-ethylhexyl)citrate

GLYCOLATE-PHTHALATES
Pz-77 Methylphthalyl ethylglycolate
Pz-78 Ethyl phthalylethylglycolate
Pz-79 Butyl phthalyl butylglycolate

PHOSPHATES
Pz-80 Triethyl phosphate
Pz-81 Tributyl phosphate
Pz-82 Tris(2-ethylhexyl)phosphate
Pz-83 Tris(2-chloroethyl)phosphate
Pz-84 Tributoxyethyl phosphate
Pz-85 Triphenyl phosphate
Pz-86 Tricresyl phosphate
Pz-87 Monocresyl diphenyl phosphate

TRIMELLITATES
Pz-88 Tris(2-ethylhexyl)trimellitate

GLYCOL ESTERS
Pz-89 Ethylene glycol monolaurate
Pz-90 Ethylene glycol monooleate
Pz-91 Propylene glycol monolaurate
Pz-92 Propylene glycol monooleate
Pz-93 Propylene glycol dilaurate
Pz-94 Diethyleneglycol dipelargonate
Pz-95 Diethyleneglycol dibenzoate
Pz-96 Dipropyleneglycol dibenzoate
Pz-97 Triethylene glycol di(2-ethylbutyrate)
Pz-98 Triethylene glycol di(2-ethylhexoate)
Pz-99 Triethylene glycol dipelargonate
Pz-100 Polyethyleneglycol di-2-ethylhexoate
Pz-101 Polyethyleneglycol-200-dibenzoate
Pz-102 Polyethyleneglycol-600-dibenzoate
Pz-103 Polypropyleneglycol sebacate

GLYCEROL ESTERS
Pz-104 Glyceryl diacetate
Pz-105 Glyceryl triacetate
Pz-106 Glyceryl tributyrate

VEGTABLE OILS
Pz-107 Castor oil
Pz-108 Corn oil
Pz-109 Linseed oil
Pz-110 Soybean oil

POLYESERS
Pz-111 Polyester-MW 850
Pz-112 Polyester-MW 2200
Pz-113 Polyester-MW 3380
Pz-114 Polyester-MW 6000
Pz-115 Polyester viscosity 16520 cP.

EPOXY PLASTICIZERS
Pz-116 Epoxidized soybean oil

ETHERS
Pz-119 Bis(butoxyethyl)ether

HYDOCARBONS AND MINERAL OLIS
Pz-122 Mineral spirits (BP range 130-145C)
Pz-123 Coal tar oil
Pz-124 Paraffinic base oil
Pz-125 Naphthenic base oil
Pz-126 Aromatic base oil

CHLORINATED HYDROCARBONS
Pz-127 Chloroparaffin 40% Cl
Pz-128 Chloroparaffin 50% Cl

ALCOHOLS
Pz-134 Hydroabietyl alcohol
Pz-135 Oleyl alcohol
Pz-136 Benzyl alcohol
Pz-137 Phenoxyethanol

AMIDES
Pz-138 Oleamide
Pz-139 Erucylamide
Pz-140 Diethyldiphenylurea
Pz-142 Di-o-benzamidodiphenyldisulfide

TOLUENESULFONAMIDES
Pz-143 N-Ethyl-p-toluenesulfonamide
Pz-144 N-Ethyl-toluenesulfonamide (o&p)
Pz-145 Toluenesulfonamide (o&p)
Pz-146 N-Cyclohexyl-p-toluenesulfonamide

NITRO COMPOUNDS
Pz-148 2-Nitrobiphenyl

POLYMERS AND POLYMER OILS
Pz-150 Polyisobutylene medium viscosity
Pz-151 Polyisobutylene high viscosity
Pz-152 Polypropylene-amorphous
Pz-153 a-Methylstyrene polymer
Pz-154 Isomerized terphenyl
Pz-155 Coumarone-indend resin
Pz-156 Formaldehyde-dimethyl naphthalene resin
Pz-157 Polybutadiene-low mw

METAL CONTAINING PLASTICIZERS
Pz-158 Dibutyltin maleate
Pz-159 Dibutyltin diethylhexoate
Pz-160 Dibutyltin dilaurate

MISCELLANEOUS
Pz-161 Benzophenone
Pz-162 Camphor
Pz-163 Rosin oil - low viscosity
Pz-164 Rosin oil - medium viscosity
Pz-165 Rosin oil - high viscosity
Pz-166 Triphenylguanidine

PZ-150 Neat compounds of each of the above - (150 component kit - random selection)

This kit consists of 150 Industrial Plasticizers most frequently used in additive identification and small scale formulation or screening research.

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

SUPPLEMENTAL PLASTICIZER KIT

MONO ESTERS
Pz-205 Isohexyl laurate
Pz-210 Butyl myristate
Pz-215 Isobutyl oleate
Pz-220 Isopropyl oleate
Pz-225 n-Propyl oleate
Pz-230 Isobutyl palmitate
Pz-235 Isodecyl nonanoate
Pz-240 2-Butoxyethyl nonanoate
Pz-245 Butyl ricinoleate
Pz-250 Butyl acetoxystearate
Pz-255 2-Methoxyethyl stearate
Pz-260 2-Ethylhexyl stearate
Pz-262 Isooctyl stearate
Pz-265 Isobutyl stearate
Pz-270 Isopropyl stearate
Pz-272 Isocetyl stearate
Pz-274 Isostearyl neopentylate
Pz-278 Methyl octadecadienoate

DIESTERS
Pz-300 n-Butyl cyclohexyl adipate
Pz-304 Butanediol adipate
Pz-305 Bis(2-butoxyethyl)adipate
Pz-306 Dicyclohexyl adipate
Pz-307 Diethylene glycol adipate
Pz-308 Di-n-hexyl adipate
Pz-310 Diisononyl adipate
Pz-315 Diisooctyl adipate
Pz-318 Diisopropyl adipate
Pz-320 Dinonyl adipate
Pz-325 Di-n-octyl adipate
Pz-330 Polyethylene glycol adipate
Pz-335 Isooctyl isodecyl adipate
Pz-340 Dialkyl adipate (mixed linear C7&C9)
Pz-342 Dibutyl oxalate

AZELATES
Pz-350 Bis(2-hydroxyethyl)azelate
Pz-355 Dicyclohexyl azelate
Pz-360 Bis(2-ethylbutyl)azelate
Pz-365 Di-n-hexyl azelate
Pz-370 Diisobutyl azelate
Pz-372 Diisodecyl azelate
Pz-374 Diisooctyl azelate
Pz-375 Dimethyl azelate

DIMERATES
Pz-390 Bis(2-hydroxyethyl)dimerate

GLYCOLATES
Pz-400 Bis(2-ethylhexyl)glycolate
Pz-405 Diisooctyl diglycolate

MALEATES
Pz-407 Di-n-hexyl maleate
Pz-408 Diisodecyl maleate

PHTHALATES
Pz-409 Benzyl isohexyl phthalate
Pz-410 Butyl cyclohexyl phthalate

PHTHALATES (cont'd)
Pz-411 Bis(4-methylcyclohexyl)phthalate
Pz-415 Butyl-n-decyl phthalate
Pz-420 Butyl-2-ethylhexyl phthalate
Pz-425 n-Butyl-n-octyl phthalate
Pz-430 Di-n-decyl phthalate
Pz-435 Bis[2-(2-ethoxyethoxy)ethyl]phthalate
Pz-440 Bis(2-ethylhexyl)hexahydro phthalate
Pz-442 Dialkyl phthalate linear C7-C9-C11
Pz-445 Di-n-hexyl phthalate
Pz-450 Diisohexyl phthalate
Pz-455 Diisononyl phthalate
Pz-460 Diisooctyl isophthalate
Pz-462 Diisooctyl phthalate
Pz-465 Dioctyl isophthalate
Pz-470 Ditridecyl phthalate
Pz-475 Diundecyl phthalate
Pz-478 2-Ethylhexyl isodecyl phthalate
Pz-480 n-Hexyl decyl phthalate
Pz-485 Hexyl isodecyl phthalate
Pz-490 Hexyl isooctyl phthalate
Pz-492 Isobutyl cyclohexyl phthalate
Pz-495 Isodecyl tridecyl phthalate
Pz-500 Isooctyl benzyl phthalate
Pz-505 n-Octyl-n-decyl phthalate
Pz-510 Octyl isodecyl phthalate

SEBECATES
Pz-540 Diisooctyl sebacate
Pz-550 Ditridecyl sebacate
Pz-560 Glutaric acid based monomeric ester
Pz-565 Glutaric acid based monomeric diester

TRIESTERS
Pz-600 Tricyclohexyl citrate
Pz-605 Tris(2-ethylhexyl)citrate
Pz-606 Tri-isooctyl citrate
Pz-607 Trimethylolpropane tribenzoate
Pz-608 Trimethylolethane tribenzoate
Pz-609 Trimethylolpropane trinonanoate
Pz-610 Tri(n-octyldecyl)acetyl citrate
Pz-612 Tristearyl citrate

PHOSPHATES
Pz-655 2-Ethylhexyl diphenyl phosphate
Pz-660 Methyl diphenyl phosphate
Pz-662 tert-Butylphenyl phenyl phosphate (mixed)
Pz-665 Tris(isopropylphenyl)phosphate-1M Alkyl
Pz-666 Tris(isopropylphenyl)phosphate-1.5M Alkyl
Pz-668 Tris(2.3-dibromopropyl)phosphate
Pz-670 Tris(2.3-dichloropropyl)phosphate

TRIMELLITATES
Pz-700 Diisooctyl isodecyl trimellitate
Pz-705 n-Octyl-n-decyl trimellitate
Pz-707 Tri-n-hexyltrimellitate
Pz-710 Triisodecyl trimellitate
Pz-715 Triisononyl trimellitate

TRIMELLITATES (cont'd.)
Pz-717 Triisooctyl trimellitate
Pz-720 Tri-n-octyl trimellitate
Pz-725 Trimellitate plasticizer (R=C7&C9)

GLYCOL ESTERS
Pz-750 1.4-Butanediol dicaprylate
Pz-755 1.4-Butanediol dinonanoate
Pz-760 Dipropylene glycol dinonanoate
Pz-765 Ethylene glycol monostearate
Pz-770 Ethylene glycol monoricinoleate
Pz-775 Octylene glycol diglycolate
Pz-778 Neopentyl glycol dibenzoate
Pz-780 Pentaerythritol monoricinoleate
Pz-785 Pentaerythritol tetraricinoleate
Pz-790 Propylene glycol monoricinoleate
Pz-795 Propylene glycol monostearate
Pz-796 Propylene glycol distearate
Pz-805 Tetraethylene glycol di(2-ethylhexanoate)
Pz-810 Triethylene glycol dibenzoate
Pz-815 Triethylene glycol dicaprylate
Pz-820 Triethylene glycol di[caprylate caprate]
Pz-825 2.2.4-Trimethyl-1.3-pentanediol diisobutyrate

GLYCERYL ESTERS
Pz-850 Glyceryl monooleate
Pz-855 Glyceryl monoricinoleate
Pz-860 Glyceryl monostearate
Pz-870 Glyceryl tri[acetylricinoleate]
Pz-875 Glyceryl triacetylstearate
Pz-880 Glyceryl trioleate
Pz-885 Glyceryl tripropionate

EPOXY PLASTICIZERS
Pz-900 Epoxidized linseed oil
Pz-905 Butyl epoxystearate
Pz-925 Isooctyl epoxystearate
Pz-930 Glyceryl tri[9-epoxy-12-acetoxystearate]
Pz-939 2-Ethylhexyl epoxystearate
Pz-940 n-Octyl epoxystearate

MISCELLANEOUS
Pz-950 Di-tert-octyl diphenyl oxide
Pz-955 Chlorinated paraffin (45% chlorine)
Pz-960 Naphthalene-alkylated
Pz-975 Bis[2-(2-butoxyethoxy)ethoxy]methane
Pz-976 Polyester plasticizer-acetylate
Pz-980 Castor oil maleate
Pz-990 Sucrose diacetate hexaisobutyrate
Pz-996 Polymeric plasticizer (Santicizer 411)
Pz-997 Polymeric plasticizer (Santicizer 412)
Pz-998 Adipic 1.3-butylene glycol polymer
Pz-999 Polymeric plasticizer (Santicizer 429)

PZ-100 Neat compounds of each of the above - (100 component kit - random selection)

COMPLETE PLASTICIZER KIT

PZ-250 Neat compounds of each combined listing from PZ-150 and PZ-100 - (250 component kit - random selection)

SURFACTANT ATLAB† HLB KIT
AN EXCLUSIVE IN THE FIELD "HYDROPHILE-LIPOPHILE BALANCE"

To help you narrow down your choice of emulsifiers, CHEM SERVICE is now exclusively making and marketing the widely accepted ATLAB† HLB KIT developed by ICI Specialty, a business unit of ICI Americas Inc. The kit consists of nine test surfactants numbered 2,4,6,8,10,12,14,16 & 18 with complete instructions on how to use the kit. The chemicals are especially blended for HLB testing and are not sold in bulk.

THE WHY & WHAT OF HLB - When you're faced with the problem of making an emulsion, you have your choice of hundreds upon hundreds of emulsifying agents. Out of this welter of products, you have the unenviable task of selecting one or two which will satisfactorily emulsify your chosen ingredients.

To help save time in emulsifier selection, ICI Specialty introduced in the late 1940's a systematic scheme of centering down on the relatively few emulsifiers suitable for any given application. This is called the Atlas HLB System - the letters HLB standing for "Hydrophile-Lipophile Balance."

Briefly, the HLB System enables you to assign a number to the ingredient or combinations of ingredients you want to emulsify, and then to choose an emulsifier or blend of emulsifiers having this same number.

When you want to emulsify an oil or a wax, or a combination of oils and waxes; what emulsifier, or blend of emulsifiers, will give you a reasonably stable emulsion?

Your ATLAB† HLB Kit gives you a quick and reliable guide to help you answer this question. A few minutes with the Kit can save you days of time you might otherwise waste in checking the thousands of surfactants on the market.

† Trademark of ICI Specialty

ORDERING INFORMATION - All HLB Surfactant Chemicals are packaged in a single standard size, containing 6oz. of test surfactant. Complete refills are also available.

ATLAB HLB KIT
9 Surfactant chemicals with pump, stand and complete instructions.

ATLAB RF-HLB KIT
9 Surfactant chemicals for refills only.

SURFACTANT CHEMICALS KIT

The individual chemicals of the Surfactant kit are classified according to chemical type and are arranged in the following functional groups according to molecular structure and size of hydrophilic and hydrophobic portions of the molecule:

Nonionics - Esters of polyhydric alcohols; alkoxylated amides; esters of polyoxyalkylene, polyoxypropylene and of polyoxyethylene-polyoxypropylene glycols; ethers of polyoxyalkylene glycols; tertiary acetylenic glycols; and polyoxyethylated alkyl phosphates.

Anionics - Carboxylic acids and soaps; sulfated esters, amides, alcohols, ethers and carboxylic acids (all salts); sulfonated petroleum, aromatic hydrocarbons, aliphatic hydrocarbons, esters, amides, amines, ethers, carboxylic acids, phenols and lignins (all salts); acylated polypeptides (salts); and phosphates.

Cationics - Amines; amine salts, trialkylamine oxides; n-polyethoxylated long chain amines; quaternary ammonium salts; heterocyclic amines (salts); alkylolamine-fatty acid condensates (oxazolines); alkyl phosphonamides; amphoterics; perfluoro compounds, sequestrants, ilicones and inorganic cationics.

The abbreviation in the names P.O.E. refers to Polyoxyethylene (Polyethylene glycol) and P.O.P. is Polyoxypropylene. Under the class designation N is non-ionic, A is anionic, C is cationic and X designates no classification. HLB refers to the "Hydrophile-Lipophile Balance", –n indicates no values available, the * designates that no assigned value is possible.

A list of trademarks and sources is included with the kits. All chemicals are "Commercial" grade.

NOTE: All kits are a random selection from available stock.

SU-550 KIT
550 Surfactants including nonionics, anionics and cationics, with hard copy MSDS.

SU-550D KIT
550 Surfactants including nonionics, anionics and cationics, with MSDS on a CD-ROM.

SU-150 KIT
150 nonionic surfactant chemicals.

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
FATTY ACIDS			
S-1	Caprylic acid	X/n	10g
S-2	Pelargonic acid	N/<1	10g
S-3	Capric acid	N/<1	10g
S-4	Lauric acid	N/<1	10g
S-5	Myristic acid	N/<1	10g
S-6	Palmitic acid	N/<1	10g
S-7	Stearic acid	N/<1	10g
S-8	Behenic acid	N/<1	10g
S-9	Undecylenic acid	N/<1	10g
S-10	Oleic acid	N/<1	10g
S-11	Erucic acid	N/<1	10g
S-12	Linoleic acid	N/<1	10g
S-13	Ricinoleic acid	N/<1	10g
S-14	Naphthenic acid	N/<1	10g
S-15	Abietic acid	N/<1	10g
S-16	Coconut oil fatty acids	N/<1	10g
S-17	Corn oil fatty acids	N/<1	10g
S-18	Cottonseed oil fatty acids	N/<1	10g
S-19	Soya oil fatty acids	N/<1	10g
S-20	Tallow fatty acids	N/<1	10g
S-21	Hydrogenated fish oil fatty acids	N/<1	10g
S-22	Tall oil (fatty acids)	N/<1	10g
S-23	Dimer acids	X/n	10g
S-24	Trimer acids	X/n	10g
S-25	Castor oil	X/n	10g
S-26	Hydrogenated castor oil	X/n	10g
S-27	Lanolin	N/2-3	10g
S-28	Lanolin fatty acids	X/n	10g
FATTY ACID SALTS			
S-29	Lithium stearate	A/*	5g
S-31	Sodium laurate	A/*	10g
S-32	Sodium myristate	A/*	10g
S-33	Sodium palmitate	A/*	10g
S-34	Sodium stearate	A/*	5g
S-35	Sodium undecylenate	A/*	5g
S-36	Sodium oleate	A/18	10g
S-37	Sodium linoleate	A/*	10g
S-38	Sodium ricinoleate	A/*	5g
S-39	Sodium naphthenate	A/*	10g
S-40	Sodium abietate	A/*	10g
S-41	Sodium polymerized carboxylates	A/*	10g
S-42	Sodium salt of tall oil	A/*	10g
S-43	Potassium caprate	A/*	10g
S-44	Potassium laurate	A/*	10g
S-45	Potassium myristate	A/*	10g
S-46	Potassium palmitate	A/*	10g
S-47	Potassium stearate	A/*	10g
S-48	Potassium undecylenate	A/*	10g
S-50	Potassium linoleate	A/*	10g
S-51	Potassium ricinoleate	A/*	10g
S-52	Potassium naphthenate	A/*	10g
S-53	Potassium abietate	A/*	10g
S-54	Ammonium caprate	A/*	10g
S-55	Ammonium laurate	A/*	10g
S-56	Ammonium myristate	A/*	10g
S-57	Ammonium palmitate	A/*	10g
S-58	Ammonium stearate	A/*	10g
S-59	Ammonium undecylenate	A/*	10g
S-60	Ammonium oleate	A/*	10g
S-61	Ammonium linoleate	A/*	10g
S-62	Ammonium ricinoleate	A/*	10g
S-63	Ammonium naphthenate	A/*	10g
S-64	Ammonium abietate	A/*	10g
S-65	Morpholine laurate	A/*	10g
S-66	Morpholine myristate	A/*	10g
S-67	Morpholine palmitate	A/*	10g
S-68	Morpholine stearate	A/*	10g
S-69	Morpholine undecylenate	A/*	10g
S-70	Morpholine oleate	A/*	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
FATTY ACID SALTS (cont'd)			
S-71	Morpholine linoleate	A/*	10g
S-72	Morpholine ricinoleate	A/*	10g
S-73	Morpholine naphthenate	A/*	10g
S-74	Morpholine abietate	A/*	10g
S-75	Triethanolamine caprate	A/*	10g
S-76	Triethanolamine laurate	A/*	10g
S-77	Triethanolamine myristate	A/*	10g
S-78	Triethanolamine palmitate	A/*	10g
S-79	Triethanolamine stearate	A/*	10g
S-80	Triethanolamine undecylenate	A/*	10g
S-81	Triethanolamine oleate	A/12	10g
S-82	Triethanolamine linoleate	A/*	10g
S-83	Triethanolamine ricinoleate	A/*	10g
S-84	Triethanolamine naphthenate	A/*	10g
S-85	Triethanolamine abietate	A/*	10g
S-86	Aluminum palmitate	A/**	10g
S-87	Aluminum stearate	A/**	5g
S-88	Aluminum oleate	A/**	10g
S-89	Barium stearate	A/**	10g
S-90	Barium naphthenate	A/**	10g
S-91	Cadmium stearate	A/**	5g
S-92	Calcium stearate	A/**	5g
S-93	Calcium oleate	A/**	10g
S-95	Calcium ricinoleate	A/**	10g
S-96	Calcium naphthenate	A/**	10g
S-97	Cobalt stearate	A/**	10g
S-98	Cobalt naphthenate	A/**	10g
S-99	Copper stearate	A/**	10g
S-100	Copper oleate	A/**	10g
S-101	Copper naphthenate	A/**	10g
S-102	Iron stearate	A/**	10g
S-103	Iron naphthenate	A/**	10g
S-104	Lead stearate	A/**	10g
S-105	Lead oleate	A/**	10g
S-106	Lead naphthenate	A/**	10g
S-107	Magnesium stearate	A/**	5g
S-108	Magnesium oleate	A/**	10g
S-109	Manganese stearate	A/**	5g
S-110	Manganese naphthenate	A/**	10g
S-111	Nickel oleate	A/**	10g
S-112	Strontium stearate	A/**	5g
S-113	Tin oleate	A/**	10g
S-114	Zinc laurate	A/**	10g
S-115	Zinc palmitate	A/**	10g
S-116	Zinc stearate	A/**	5g
S-117	Zinc oleate	A/**	10g
S-118	Zinc linoleate	A/**	10g
S-119	Zinc naphthenate	A/**	10g
S-120	Zinc resinate	A/**	5g
POLYETHYLENE AND PROPYLENE GLYCOL ESTERS			
S-121	Hydroxyethyl laurate	N/n	10g
S-122	Hydroxyethoxyethyl laurate	N/6.5	10g
S-123	Hydroxyethoxyethoxy ethyl laurate	N/n	10g
S-124	PEG 200 monolaurate	N/9.8	10g
S-125	PEG 300 monolaurate	N/n	10g
S-126	PEG 400 monolaurate	N/13.1	10g
S-127	PEG 600 monolaurate	N/14.9	10g
S-128	PEG 1000 monolaurate	N/16.5	10g
S-129	PEG 1540 monolaurate	N/n	10g
S-130	PEG 4000 monolaurate	N/18.8	10g
S-131	PEG 6000 monolaurate	N/n	10g
S-132	PEG 200 dilaurate	N/5.9	10g
S-133	PEG 300 dilaurate	N/6.3	10g
S-134	PEG 400 dilaurate	N/9.8	10g
S-135	PEG 600 dilaurate	N/12.2	10g
S-136	PEG 1000 dilaurate	N/n	10g
S-137	PEG 1540 dilaurate	N/n	10g
S-138	PEG 6000 dilaurate	N/18.7	10g
S-139	Ethylene glycol monostearate	N/2.9	10g
S-140	Diethylene glycol monostearate	N/4.3	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
POLYETHYLENE AND PROPYLENE GLYCOL ESTERS (cont'd)			
S-141	Triethylene glycol monostearate	N/n	10g
S-142	PEG 200 monostearate	N/7.9	10g
S-143	PEG 300 monostearate	N/n	10g
S-144	PEG 400 monostearate	N/11.6	10g
S-145	PEG 600 monostearate	N/13.6	10g
S-146	PEG 1000 monostearate	N/15.6	10g
S-147	PEG 1540 monostearate	N/17.3	10g
S-148	PEG 4000 monostearate	N/18.6	10g
S-149	PEG 6000 monostearate	N/18.8	10g
S-150	Ethylene glycol distearate	N/1.3	10g
S-151	PEG 200 distearate	N/5.0	10g
S-152	PEG 300 distearate	N/n	10g
S-153	PEG 400 distearate	N/8.0	10g
S-154	PEG 600 distearate	N/10.6	10g
S-155	PEG 1000 distearate	N/12.3	10g
S-156	PEG 1540 distearate	N/14.8	10g
S-157	PEG 4000 distearate	N/17.3	10g
S-158	PEG 6000 distearate	N/18.4	10g
S-159	PEG 200 monoisostearate	N/n	10g
S-160	PEG 400 monoisostearate	N/n	10g
S-161	PEG 600 monoisostearate	N/n	10g
S-162	PEG 200 diisostearate	N/n	10g
S-163	PEG 400 diisostearate	N/n	10g
S-164	Hydroxyethyl oleate	N/n	10g
S-165	Hydroxyethoxyethyl oleate	N/4.7	10g
S-166	Hydroxyethoxyethoxy ethyl oleate	N/n	10g
S-167	PEG 200 monooleate	N/8.0	10g
S-168	PEG 300 monooleate	N/9.2	10g
S-169	PEG 400 monooleate	N/11.0	10g
S-170	PEG 600 monooleate	N/13.5	10g
S-171	PEG 1000 monooleate	N/15.4	10g
S-172	PEG 1540 monooleate	N/17.0	10g
S-173	PEG 4000 monooleate	N/18.3	10g
S-174	PEG 6000 monooleate	N/19.0	10g
S-175	PEG 200 dioleate	N/6.0	10g
S-176	PEG 400 dioleate	N/8.4	10g
S-177	PEG 600 dioleate	N/10.5	10g
S-178	PEG 1000 dioleate	N/n	10g
S-179	PEG 1540 dioleate	N/15.0	10g
S-180	PEG 4000 dioleate	N/17.8	10g
S-181	PEG 6000 dioleate	N/n	10g
S-182	Ethylene glycol monoricinoleate	N/n	10g
S-183	Diethylene glycol monoricinoleate	N/n	10g
S-184	PEG 200 monoricinoleate	N/5.0	10g
S-185	PEG 400 monoricinoleate	N/11.6	10g
S-186	PEG 600 monoricinoleate	N/13.5	10g
S-187	PEG 1000 monoricinoleate	N/n	10g
S-188	PEG 1200 monoricinoleate	N/16.0	10g
S-189	Diethylene glycol coconate	N/n	10g
S-190	POE (5) coco fatty acids ester	N/n	10g
S-191	POE (15) coco fatty acids ester	N/n	10g
S-193	POE (10) red oil (oleic acid) ester	N/n	10g
S-194	PEG (400) di and tri ricinoleate	N/1.8	10g
S-195	POE (5) castor oil	N/4.9	10g
S-196	POE (16) castor oil	N/9.7	10g
S-197	POE (20) castor oil	N/n	10g
S-198	POE (30) castor oil	N/11.7	10g
S-199	POE (40) castor oil	N/13.1	10g
S-200	POE (80) castor oil	N/15.8	10g
S-201	POE (200) castor oil	N/18.1	10g
S-202	Ethylene glycol hydroxy stearate	N/n	10g
S-203	PEG (200) trihydroxy stearate	N/n	10g
S-204	POE (5) hydrogenated castor oil	N/3.8	10g
S-205	POE (16) hydrogenated castor oil	N/8.4	10g
S-206	POE (25) hydrogenated castor oil	N/10.8	10g
S-207	POE (12) tall oil	N/n	10g
S-208	POE (16) tall oil	N/13.8	10g
S-209	POE abietic acid	N/n	10g
S-211	POE (20) lanolin	N/11.0	10g
S-212	POE (50) lanolin	N/17.0	10g
S-213	POE (75) lanolin	N/15.0	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
POLYETHYLENE AND PROPYLENE GLYCOL ESTERS (cont'd)			
S-214	Acetylated lanolin	N/10	10g
S-217	Propylene glycol monolaurate	N/4.0	10g
S-218	Propylene glycol monostearate	N/3.4	10g
S-218-1	Propylene glycol dilaurate	X/n	10g
S-219	Propylene glycol distearate	N/n	10g
S-220	Dipropylene glycol monostearate	N/n	10g
S-221	Propylene glycol monooleate	N/n	10g
S-222	Propylene glycol monoricinoleate	N/n	10g
S-223	Propylene glycol monoisostearate	N/3.1	10g
S-224	Propylene glycol monohydroxystearate	N/n	10g
S-225	Propylene glycol dipelargonate	N/n	10g
S-226-1	Isopropylester of lanolin fatty acids	N/9.0	10g
S-227	POE propylene glycol monostearate	N/16.0	10g
S-652	PEG 6000 palmitate		5g
S-653	PEG 6000 dipalmitate		5g
S-654	PEG 6000 linolenate		1g
S-655	PEG 6000 monolinoleate		1g
S-656	PEG 6000 monomyristate		5g
GLYCEROL ESTERS			
S-228	Glycerol monocaprylate	N/n	10g
S-229	Glycerol monolaurate	N/5.2	10g
S-230-1	Glycerol mono/dicocoate	N/6.8	10g
S-231	Glycerol dilaurate	N/n	10g
S-232	Glycerol monostearate	N/3.8	10g
S-234	Glycerol distearate	N/*	10g
S-235	Glycerol monooleate	N/*	10g
S-236	Glycerol dioleate	N/1.8	10g
S-237	Glycerol trioleate	N/1	10g
S-238	Glycerol monoisostearate	N/2.9	10g
S-239	Glycerol monoricinoleate	N/3.1	10g
S-240	Glycerol monohydroxystearate	N/n	10g
S-241	POE (20) glycerol monostearate	N/13.1	10g
S-242	Acetylated glycerol monostearate	N/1.5	10g
S-243	Succinylated glycerol monostearate	N/n	10g
S-244	Diacetylated glycerol monostearate tartrate	N/8.0	10g
S-245	Modified glycerol phthalate resin	N/n	10g
S-246	Triglycerol monostearate	N/7	10g
S-247	Triglycerol monooleate	N/8.2	10g
S-248	Triglycerol monoisostearate	N/4.7	10g
S-249	Decaglycerol tetraoleate	N/6	10g
S-250	Decaglycerol decastearate	N/3	10g
POLYHYDROXY ALCOHOLS AND SUGAR ESTERS			
S-251	Pentaerythritol monolaurate	N/n	10g
S-252	Pentaerythritol monostearate	N/n	10g
S-253	Pentaerythritol distearate	N/n	10g
S-254	Pentaerythritol tetrastearate	N/n	10g
S-255	Pentaerythritol monooleate	N/n	10g
S-257	Pentaerythritol trioleate	N/n	10g
S-258	Pentaerythritol tetraricinoleate	N/n	10g
S-259	Sorbitan monolaurate	N/8.6	10g
S-260	POE (4) sorbitan monolaurate	N/13.3	10g
S-261	POE (20) sorbitan monolaurate	N/16.7	10g
S-262	Sorbitan monopalmitate	N/6.7	10g
S-263	POE (20) sorbitan monopalmitate	N/15.6	10g
S-264	Sorbitan monostearate	N/4.7	10g
S-265	POE (4) sorbitan monostearate	N/9.6	10g
S-266	POE (20) sorbitan monostearate	N/14.9	10g
S-267	Sorbitan tristearate	N/2.1	10g
S-268	POE (20) sorbitan tristearate	N/10.5	10g
S-269	Sorbitan monooleate	N/4.3	10g
S-270	POE (5) sorbitan monooleate	N/10	10g
S-271	POE (20) sorbitan monooleate	N/15	10g
S-272	Sorbitan sesquioleate	N/1.8	10g
S-273	Sorbitan trioleate	N/1.8	10g
S-274	POE (20) sorbitan trioleate	N/11	10g
S-278	POE (40) sorbitol hexaoleate	N/10.2	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
POLYHYDROXY ALCOHOLS AND SUGAR ESTERS			
S-279	POE (50) sorbitol hexaoleate	N/11.4	10g
S-280	POE sorbitol oleate laurate	N/13.2	10g
S-281-1	POE sorbitol polyoleate	N/9.6	10g
S-282	POE (6) sorbitol beeswax ester	N/5	10g
S-283	POE (20) sorbitol beeswax ester	N/5	10g
S-284	Sucrose monolaurate	N/15	10g
S-284-1	Sucrose cocoate	N/15	5g
S-285	Sucrose monomyristate	N/n	5g
S-286	Sucrose monopalmitate	N/16	5g
S-287	Sucrose dipalmitate	N/n	10g
S-288	Sucrose monostearate	N/9	5g
S-289	Sucrose distearate	N/3	10g
S-290	Sucrose monooleate	N/15	10g
S-291	Sucrose dioleate	N/n	10g
S-293	Lauryl lactate	N/n	10g
S-294	Cetyl lactate	N/n	10g
S-295	Sodium lauryl lactate	A/n	10g
S-296	Sodium stearoyl lactate	A/5.7	10g
S-297-1	Sodium isostearoyl-2-lactylate	A/8.3	10g
S-298	Sodium stearoyl-2-lactylate	A/6.5	10g
S-299	Calcium stearoyl-2-lactylate	A/5.1	10g
S-300-1	Sodium capryl lactylate	A/7.7	10g
S-650	POE (16) tall oil fatty acid ester	N/13.4	5g
ALCOHOLS, PHENOLS & POLYOXYETHYLENE DERIVATIVES			
S-301	Lauryl alcohol	N/1	10g
S-302	Cetyl alcohol	N/1	10g
S-303	Stearyl alcohol	N/1	10g
S-304	Oleyl alcohol	N/1	10g
F2937	Octyl phenol	N/1	250mg
F2938	p-tert-Octy	N/n	5g
S-306	Nonyl phenol	N/1	10g
S-307-1	p-Dodecyl phenol	N/1	10g
S-308	Dinonyl phenol	X/n	10g
S-309	Tridecyl alcohol	N/1	10g
S-310	Tetradecyl alcohol	N/1	10g
S-311	Lanolin alcohols	N/1	10g
S-312	Cholesterol	X/n	5g
S-313	POE (4) lauryl alcohol ether	N/9.7	10g
S-314	POE (23) lauryl alcohol ether	N/16.9	10g
S-315	POE (2) cetyl alcohol ether	N/5.3	10g
S-316	POE (10) cetyl alcohol ether	N/12.9	10g
S-317	POE (20) cetyl alcohol ether	N/15.7	10g
S-318	POE (2) stearyl alcohol ether	N/4.9	10g
S-319	POE (10) stearyl alcohol ether	N/12.4	10g
S-320	POE (20) stearyl alcohol ether	N/15.3	10g
S-321	POE (100) stearyl alcohol ether	N/18.8	10g
S-322	POE (2) oleyl alcohol ether	N/4.9	10g
S-323	POE (10) oleyl alcohol ether	N/12.4	10g
S-324	POE (20) oleyl alcohol ether	N/15.3	10g
S-325	POE (20) isohexadecyl alcohol ether	N/n	10g
S-326	2,6,8-Trimethyl-4-nonyloxy polyethyleneoxyethanol	N/n	10g
S-327	POE (12) tridecyl alcohol ether	N/8	10g
S-328	POE (6) tridecyl alcohol ether	N/11.4	10g
S-329	POE (9) tridecyl alcohol ether	N/n	10g
S-331	POE (18) tridecyl alcohol ether	N/n	10g
S-333	POE (5) lanolin alcohol ether	N/n	10g
S-334	POE (16) lanolin alcohol ether	N/n	10g
S-335-1	POE (25) lanolin alcohol ether	N/16.0	5g
S-336	POE (24) cholesterol	N/14	10g
S-337	tert-Octylphenoxy ethanol	N/n	10g
S-338	POE (3) tert-octylphenol	N/7.8	10g
S-339	POE (5) tert-octylphenol	N/10.4	10g
S-340	POE (7 to 8) tert-octylphenol	N/12.4	10g
S-341	POE (9 to 10) tert-octylphenol	N/13.5	10g
S-342	POE (12 to 13) tert-octylphenol	N/14.6	10g
S-343	POE (16) tert-octylphenol	N/15.8	10g
S-344	POE (30) tert-octylphenol	N/17.3	10g
S-345	POE (40) tert-octylphenol	N/17.9	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
ALCOHOLS, PHENOLS & POLYOXYETHYLENE DERIVATIVES (cont'd)			
S-346	POE (1 to 2) nonylphenol	N/4.6	10g
S-347	POE (4) nonylphenol	N/8.9	10g
S-349	POE (8) nonylphenol	N/12.3	10g
S-350	POE (9 to 10) nonylphenol	N/13	10g
S-351	POE (10 to 11) nonylphenol	N/13.6	10g
S-352	POE (12) nonylphenol	N/14.1	10g
S-353	POE (15) nonylphenol	N/15	10g
S-354	POE (20) nonylphenol	N/16	10g
S-355	POE (30) nonylphenol	N/17	10g
S-356	POE (50) nonylphenol	N/18	10g
S-357	POE (70) dinonyl phenol	N/18	10g
S-358	POE (150) dinonyl phenol	N/19	10g
S-359	POE (5) dodecyl phenol	N/9.6	10g
S-360	POE (9) dodecyl phenol	N/12	10g
S-361	Dimethyl hexynol	N/n	10g
S-362	Dimethyl octynediol	N/n	10g
S-363	Tetramethyl decynediol	N/<1	10g
S-364	POE (3.5) tetramethyldecynediol	N/8	10g
S-365	POE (10) tetramethyldecynediol	N/13	10g
S-366	POE (30) tetramethyldecynediol	N/17	10g
S-367	POP 1200/ 40% EtO	N/n	10g
S-368	POP 1750/ 10% EtO	N/9.5	10g
S-369	POP 1750/ 20% EtO	N/10.6	10g
S-370	POP 1750/ 40% EtO	N/12.7	10g
S-371	POP 1750/ 80% EtO	N/18.7	10g
S-372	POP 2000/ 50% EtO	N/13.8	10g
S-373-1	Polyoxypropylene-polyoxyethylene blockcopolymer	N/24	1g
S-374-1	C11-C15 secondary Alkyl ether of POE/POP	N/n	5g
SULFATES			
S-375	Sodium n-octyl sulfate	A/n	10g
S-376	Sodium 2-ethylhexyl sulfate	A/n	10g
S-377	Sodium decyl sulfate	A/n	10g
S-378	Sodium lauryl sulfate	A/40	5g
S-379	Sodium tridecyl sulfate	A/n	10g
S-380	Sodium sec-tetradecyl sulfate	A/n	10g
S-381	Sodium cetyl sulfate	A/n	10g
S-382	Sodium sec-heptadecyl sulfate	A/n	10g
S-383	Sodium oleyl sulfate	A/42	10g
S-384	Sodium oleyl stearate sulfate	A/n	10g
S-385	Sodium tridecyl ether sulfate	A/n	10g
S-386	Potassium lauryl sulfate	A/n	5g
S-387	Magnesium lauryl sulfate	A/n	10g
S-388	Triethanolamine lauryl sulfate	A/34	10g
S-389	Ammonium lauryl sulfate	A/31	10g
S-390-1	Diethanolamine lauryl sulfate	A/n	10g
S-392	POE octylphenol sodium salt	A/n	10g
S-392-1	Alkylaryl polyether sulfate, sodium salt	A/n	10g
S-393	Sulfated POE nonylphenol sodium salt	A/n	10g
S-394	Sulfated nonylphenyl ether of tetraethyleneglycol ammonium salt	A/n	10g
S-395	Sulfated lauryl ether of tetraethyleneglycol sodium salt	A/n	10g
S-396	POE (1) sodium lauryl monoether sulfate	A/n	10g
S-397	POE (2) sodium lauryl ether sulfate	A/n	10g
S-398	POE (3.5) sodium lauryl ether sulfate	A/n	10g
S-399	POE (30) ammonium lauryl sulfate	A/n	10g
S-400-1	Sulfated oleic acid sodium salt	A/n	10g
S-401	Sulfated castor oil-fatty acids sodium salt	A/n	10g
S-402	Sulfated propyloleate sodium salt	A/n	10g
S-403	Sulfated isopropyloleate sodium salt	A/n	10g
S-404	Sulfated butyloleate sodium salt	A/n	10g
S-405	Sulfated glycerol monolaurate sodium salt	A/n	10g
S-406	Sulfated glycerol trioleate sodium salt	A/n	10g
S-407	Sulfated castor oil sodium salt (2.0% org. SO3)	A/n	10g
S-408	Sulfated castor oil sodium salt (3.5% org. SO3)	A/n	10g
S-409-1	Sulfonated marine oil	A/n	10g
S-410	Sulfated neatsfoot oil sodium salt	A/n	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
SULFATES (cont'd)			
S-411	Sulfated rice bean oil sodium salt	A/n	10g
S-412	Sulfated soya bean oil sodium salt	A/n	10g
S-413-1	Sulfated synthetic sperm oil	A/n	1g
S-414	Sulfated tallow sodium salt	A/n	10g
OLEFINS			
S-415-1	Linear alpha olefin C14	N/<1	10g
S-416-1	Linear alpha olefin C16	N/<1	10g
SULFONATES			
S-417	Sodium toluene sulfonate	A/n	10g
S-418	Sodium xylene sulfonate	A/n	10g
S-420	Sodium dodecylbenzene sulfonate (linearalkyl chain)	A/n	5g
S-420A	Sodium dodecylbenzene sulfonate (branchedalkyl chain)	A/n	5g
S-423	Calcium dodecylbenzene sulfonate	A/9	10g
S-424	Ammonium xylene sulfonate	A/n	10g
S-425	Triethanolammonium dodecylbenzene sulfonate A/n	10g	
S-426	Alkylammonium dodecyl-benzene sulfonate	A/n	10g
S-428	Aliphatic hydrocarbons-sulfonic acid	A/n	10g
S-429-1	Sodium petroleum sulfonate - (MW 415-440)	A/n	10g
S-430	Sodium petroleum sulfonate - (MW 440-450)	A/n	10g
S-431	Sodium petroleum sulfonate - (MW 513)	A/n	10g
S-432	Calcium petroleum sulfonate - (MW 900)	A/n	10g
S-433-1	Bryton barium sulfonate	A/n	10g
S-434	Magnesium petroleum sulfonate	A/n	10g
S-435	Ammonium petroleum sulfonate - (MW 445)	X/n	10g
S-436	Isopropylamine petroleum sulfonate	X/n	10g
S-437	Ethylenediamine petroleum sulfonate	X/n	10g
S-438	Triethanolamine petroleum sulfonate	X/n	10g
S-439	Sulfonated naphthalene	X/n	10g
S-441	Sodium dibutyl naphthalene sulfonate	X/n	10g
S-442	Sodium benzyl naphthalene sulfonate	X/n	10g
S-443	Sodium naphthalene formaldehyde condensate sulfonate	X/n	10g
S-444	Sodium polymerized alkyl-naphthalene sulfonate	X/n	10g
S-445	Potassium polymerized alkyl-naphthalene sulfonate	X/n	10g
S-447	Ethanolamine dibutyl naphthalene sulfonate	X/n	5g
S-452	Ammonium monoethylphenyl-phenol monosulfonate	A/n	10g
S-453	Guanidinium monoethyl-phenylphenol monosulfonate	A/n	10g
S-454	Sodium decyl diphenyl ether disulfonate	A/n	10g
S-455	Sodium dodecyl diphenyl ether disulfonate	A/n	10g
S-456	Calcium polymerized alkyl-benzene sulfonate	A/n	10g
S-457	Sulfonated polystyrene	X/n	10g
S-458-1	Sulfonated aliphatic polyester	A/n	10g
S-463	Sodium lauryl sulfoacetate	A/n	10g
S-464	Sodium diisobutyl sulfosuccinate	A/n	10g
S-465	Sodium diamyl sulfosuccinate	A/n	10g
S-466	Sodium dihexyl sulfosuccinate	A/n	10g
S-467	Sodium dioctyl sulfosuccinate	A/n	10g
S-468	Sodium ditridecyl sulfosuccinate	A/n	10g
S-469	Sodium akylarylpolyether sulfonate	A/n	10g
S-470	Sodium akylarylpolyether sulfonate	A/n	10g
S-471	Sodium lignosulfonate 5.4%	A/n	10g
S-472	Sodium lignosulfonate 1 mole	A/n	10g
S-473	Sodium lignosulfonate 14.3%	A/n	10g
S-474	Sodium lignosulfonate 2 moles	A/n	10g
S-475	Sodium lignosulfonate 3 moles	A/n	10g
S-476	Calcium lignosulfonate 12.2%	A/n	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
PHOSPHOROUS COMPOUNDS AND MERCAPTANS			
S-477	POE (12) octyl phosphate	N/n	10g
S-479	Ammonium phosphated castor oil	X/n	10g
S-480	2-Ethylhexyl polyphosphate sodium salt	A/n	10g
S-481	Capryl polyphosphate sodium salt	A/n	10g
S-482	Sodium di(2-ethylhexyl)phosphate	X/n	10g
S-485	Lecithin (Soy Phosphatides)	X/n	10g
S-487	POE (12) tert-dodecylmercaptoethanol	X/n	10g
AMINES AND AMINE DERIVATIVES			
S-488	tert-C 11-14 Amine	C/n	10g
S-489	n-Dodecylamine	C/n	10g
S-490	n-Tetradecylamine	C/n	10g
S-491	n-Hexadecylamine	C/n	10g
S-492	n-Octadecylamine	C/n	10g
S-494	Oleylamine	C/n	10g
S-495	Cocoamine	C/n	10g
S-496	Hydrogenated tallow amine	C/n	10g
S-497	Tallow amine	C/n	10g
S-498	Soya amine	C/n	10g
S-499	Dicoco amine	C/n	10g
S-500	Dihydrogenated tallow amine	C/n	10g
S-501	Dimethyl hexadecylamine	C/n	10g
S-502	Dimethyl octadecylamine	C/n	10g
S-503	Dimethyl cocoamine	C/n	10g
S-504	Dimethyl soya amine	C/n	10g
S-505	N-Coco-1,3-diaminopropane	C/n	10g
S-506	N-Soya-1,3-diaminopropane	C/n	10g
S-507	N-Tallow-1,3-diaminopropane	C/n	10g
S-508	POE (1) C 12-14 tert-amine	Y/n	10g
S-510	POE (15) C 12-14 tert-amine	Y/n	10g
S-511	POE (2) stearyl amine	Y/n	10g
S-512	POE (5) stearyl amine	Y/n	10g
S-514	POE (15) stearyl amine	Y/n	10g
S-515	POE (50) stearyl amine	Y/n	10g
S-516	POE (2) oleyl amine	Y/n	10g
S-517	POE (5) oleyl amine	Y/n	10g
S-518	POE (1) C 18-24 tert-amine	Y/n	10g
S-519	POE (5) C 18-24 tert-amine	Y/n	10g
S-519-1	POE (10) C 18-24 tert-amine	X/n	5g
S-520	POE (15) C 18-24 tert-amine	Y/n	10g
S-522	POE (2) coco amine	Y/n	10g
S-523	POE (5) coco amine	Y/n	10g
S-525	POE (15) coco amine	Y/n	10g
S-526	POE (2) tallow amine	Y/n	10g
S-527	POE (5) tallow amine	Y/n	10g
S-528	POE (15) tallow amine	Y/n	10g
S-529	POE (2) soya amine	Y/n	10g
S-530	POE (5) soya amine	Y/n	10g
S-531	POE (10) soya amine	Y/n	10g
S-532	POE (15) soya amine	Y/n	10g
S-533	POE octadecylamine	Y/n	10g
S-534	N-b-Hydroxyethyl stearyl imidazoline	Y/n	10g
S-535	POE (3) N-tallow trimethylene diamine	Y/n	10g
S-536	N-b-Hydroxyethyl coco imidazoline	Y/n	10g
S-537	N-b-Hydroxyethyl oleyl imidazoline	Y/n	10g
S-538	n-Dodecylamine acetate	X/n	1g
S-539	Hexadecylamine acetate	X/n	10g
S-541	Oleylamine acetate	X/n	10g
S-543	Hydrogenated tallow amine acetate	C/n	10g
S-544	Tallow amine acetate	X/n	10g
S-545	Soya amine acetate	X/n	10g
S-546	N-Stearyl-N'.N'-diethylethylenediamine acetate	C/n	10g
S-551-1	Cocoamidopropyl dimethyl amine oxide	N/n	10g
S-552-1	Lauryl dimethylamine oxide	N/n	5g
S-552-2	Myristyl dimethylamine oxide	N/n	5g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
AMINES AND AMINE DERIVATIVES (cont'd)			
S-553	N-Coco-b-aminobutyric acid	A/n	10g
S-554-1	Stearamidoethyl diethylamine	A/n	10g
S-556	Sodium carboxymethylundecylhydroxy-ethyl imidazolinium hydroxide	A/n	10g
S-557	Sodium carboxymethylcocohydroxy-ethyl imidazolinium hydroxide	A/n	10g
S-559	Sodium carboxymethylstearylhydroxy-ethylimidazolinium hydroxide	A/n	10g
S-560	Sodium carboxymethylsodiumcarboxy-ethyl cocoether imidazolinium	A/n	10g
S-561	Sodium-N-coco-b-amino propionate	A/n	10g
S-562-1	N-Tallow trimethylene diamine diacetate	A/n	10g
S-563	Disodium-N-tallow-b-imino dipropionate	A/n	5g
S-564	Disodium-N-lauryl-b-imino dipropionate	A/n	5g
S-565	Cetyl betaine	A/n	10g
S-566	Coco betaine	A/n	10g
S-567	Myristamidopropyl betaine	A/n	10g
S-569	Coconut amido betaine	A/n	10g
S-570	Oleyl amido betaine	A/n	10g
S-571	Coconut oil acid ester of sodium isethionate	A/n	10g
S-572	Coco amido alkyl dimethylamine	C/n	10g
S-573	Behenic amido alkyl dimethylamine	C/n	10g
S-574	Isostearic amido alkyl dimethylamine	C/n	10g
S-575	Oleic amido alkyl dimethylamine	C/n	10g
S-576	Sodium-N-methyl-N-palmitoyl taurate	A/n	10g
S-578	Sodium-N-methyl-N-oleyl taurate	A/n	10g
S-579	Sodium-N-coconut acid N-methyl taurate	A/n	10g
S-580	Sodium-N-methyl-N-tall oil taurate	A/n	10g
S-584	N-Lauryl sarcosine	X/n	10g
S-585	Cocoyl sarcosine	X/n	10g
S-586	N-Oleyl sarcosine	X/n	10g
S-587	Sodium-N-lauryl sarcosinate	A/n	10g
S-588	Stearamide	X/n	10g
S-589	Oleamide	X/n	10g
S-590	Erucamide	X/n	10g
S-591	Behenamide	X/n	10g
S-592	Lauric acid monoethanolamide	X/n	10g
S-593	Tallow monoethanolamide (5 Moles EtO)	X/n	10g
S-595	Myristic acid diethanolamide	X/n	10g
S-596	Stearic acid diethanolamide	X/n	10g
S-597	Oleic acid diethanolamide	X/n	10g
S-657	Linoleic acid diethanolamide	N/n	5g
S-598	POE oleic amide	X/n	10g
S-599	Coco acid diethanolamide	X/n	10g
S-601	POE hydrogenated tallow amide (5 Moles EtO)	X/n	10g
S-602	POE hydrogenated tallow amide (50 Moles EtO)	X/n	10g
S-604	Oleic acid monoisopropanolamide	X/n	10g
QUATERNARY AMINE SALTS			
S-605	Dodecyltrimethyl ammonium chloride	X/n	10g
S-606	Hexadecyltrimethyl ammonium chloride	X/n	10g
S-607	Octadecyltrimethyl ammonium chloride	X/n	10g

CAT NO.	CHEMICAL NAME	CLASS/ HLB	SIZE
QUATERNARY AMINE SALTS (cont'd)			
S-608	Cetyltrimethyl ammonium bromide	X/n	10g
S-609	Cetyldimethylethyl ammonium bromide	X/n	10g
S-610	Coco trimethyl ammonium chloride	X/n	10g
S-611	Tallow trimethyl ammonium chloride	X/n	10g
S-612-1	Dimethyl 80% behenyl benzyl ammonium chloride	X/n	10g
S-613	Soya trimethyl ammonium chloride	X/n	10g
S-614-1	Methyl bis(2-hydroxyethyl)coco ammonium chloride	C/n	10g
S-615	Dicoco dimethyl ammonium chloride	X/n	10g
S-616	Dihydrogenated tallow dimethyl ammonium chloride	C/n	10g
S-617	Methyldodecylbenzyl trimethyl ammonium chloride	X/n	10g
S-618	Lauryldimethylbenzyl ammonium chloride	X/n	10g
S-618-1	n-Alkyl (60% C11) dimethyl benzyl ammonium chloride	X/n	5g
S-619	Stearyldimethylbenzyl ammonium chloride	X/n	10g
S-620	Alkyldimethyl-3.4-dichloro-benzyl ammonium chloride	X/n	10g
S-621	Octylphenoxyethoxyethyl dimethyl-benzyl ammonium chloride	X/n	10g
S-623-1	Cocoamidopropyl PG-dimonium chloride phosphate	X/n	10g
S-625	2-Hydroxyethylbenzyl coco imidazolinium chloride	X/n	10g
S-626-1	Ethyl bis(polyethoxyethanol)alkyl ammonium chloride	X/n	10g
S-627	Diethyl heptadecyl imidazolinium ethylsulfate	X/n	10g
S-628	Laurylpyridinium chloride	X/n	10g
S-629-1	1-Hexadecylpyridinium chloride monohydrate	X/n	10g
S-631	Lauryl isoquinolinium bromide	X/n	10g
S-634	Substituted oxazoline	X/n	10g
S-635	Substituted oxazoline	X/n	10g
MISCELLANEOUS COMPOUNDS			
S-637	Perfluoro surfactant - cationic	X/n	10g
S-638	Ethylenediamine tetraacetic acid disodium salt	X/n	10g
S-639	Ethylenediaminetetraacetic acid tetrasodium salt	X/n	10g
S-640	Sodium dihydroxyethyl glycinate	X/n	10g
S-641	Trisodium nitrilotriacetate	X/n	10g
S-642	Sodium citrate	X/n	10g
S-643	Silicone defoamer - oil	X/n	10g
S-644	Silicone defoamer - water dispersible	X/n	10g
S-645	Sodium tetraborate	X/n	10g
S-646	Sodium carbonate	X/n	10g
S-647	Sodium phosphate - tribasic	X/n	10g
S-648	Sodium silicate	X/n	10g
S-649	Alkyl benzene sulfonic acid (propylene tetramer)	X/n	1g
S-651	PEG 1000		1g

BUSINESS HOURS

Chem Service's normal business hours are: **MONDAY-THURSDAY 8 A.M. - 6 P.M. ET** **FRIDAY 8 A.M. - 5 P.M. ET**

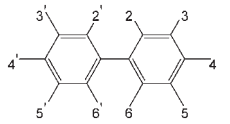
Place any rush order by 4 P.M. ET and have guaranteed same day shipment of any in-stock Chem Service product at no extra cost to you. With our extensive inventory of materials, Chem Service provides the products you need, when you need them.

(Prices subject to change without notice.)

PCB CONGENERS - 99% PURE STANDARDS

The PCB isomers, brominated biphenyl isomers and chlorinated dibenzo-p-dioxins are also available as solutions. Use the catalog number with a suffix of "S" to designate a solution order (except for items marked with "+", which need an "AS" to designate a solution). The chemicals listed below are also available in 2mL quantity solutions at a concentration of 100ug/mL in hexane, in ampules. 3621GS is available in Isooctane only.
For ease of reference, the numbering system for the PCB structure is illustrated below.

NUMBERING SYSTEM



CAT#	DESCRIPTION	* QUANTITY	BZ#
F1062	Biphenyl	5g	
2800G	2-Chlorobiphenyl	50mg	1
2801G	3-Chlorobiphenyl	10mg	2
F2164	4-Chlorobiphenyl	50mg	3
3620G	2.2'-Dichlorobiphenyl	25mg	4
3621G **	2.3-Dichlorobiphenyl	25mg	5
9000G	2,3'-Dichlorobiphenyl	5mg	6
3622G	2.4-Dichlorobiphenyl	25mg	7
3623G	2.4'-Dichlorobiphenyl	25mg	8
3624G	2.5-Dichlorobiphenyl	50mg	9
3625G	2.6-Dichlorobiphenyl	25mg	10
3626G	3.3'-Dichlorobiphenyl	50mg	11
3627G	3.4-Dichlorobiphenyl	50mg	12
9001G	3,4'-Dichlorobiphenyl	5mg	13
3628G	3.5-Dichlorobiphenyl	50mg	14
F2174 +	4,4'-Dichlorobiphenyl	10mg	15
9002G	2,2',3-Trichlorobiphenyl	5mg	16
8230G	2.2'.5-Trichlorobiphenyl	25mg	18
9003G	2,2',6-Trichlorobiphenyl	5mg	19
9004G	2,3,3'-Trichlorobiphenyl	5mg	20
8231G	2.3.4-Trichlorobiphenyl	25mg	21
9005G	2,3,4'-Trichlorobiphenyl	5mg	22
8234G	2.3.6-Trichlorobiphenyl	10mg	24
9006G	2,3',4-Trichlorobiphenyl	5mg	25
8233G	2.3'.5-Trichlorobiphenyl	25mg	26
9008G	2,3',6-Trichlorobiphenyl	5mg	27
8235G	2.4.4'-Trichlorobiphenyl	10mg	28
8236G	2.4.5-Trichlorobiphenyl	50mg	29
8238G	2.4.6-Trichlorobiphenyl	50mg	30
8237G	2.4'.5-Trichlorobiphenyl	25mg	31
8232G	2'.3.4-Trichlorobiphenyl	10mg	33
9007G	2',3,5-Trichlorobiphenyl	5mg	34
9009G	3,3',4-Trichlorobiphenyl	5mg	35
9010G	3,3',5-Trichlorobiphenyl	5mg	36
9011G	3,4,4'-Trichlorobiphenyl	5mg	37
9012G	3,4,5-Trichlorobiphenyl	5mg	38
9013G	3,4',5-Trichlorobiphenyl	5mg	39
7820G	2.2'.3.3'-Tetrachlorobiphenyl	50mg	40
9014G	2,2',3,4'-Tetrachlorobiphenyl	5mg	42
7821G	2.2'.3.5'-Tetrachlorobiphenyl	25mg	44
7822G	2.2'.4.4'-Tetrachlorobiphenyl	50mg	47
9015G	2,2',4,5-Tetrachlorobiphenyl	5mg	48
7823G	2.2'.4.5'-Tetrachlorobiphenyl	50mg	49
7824G	2.2'.4.6-Tetrachlorobiphenyl	10mg	50
7825G	2.2'.5.5'-Tetrachlorobiphenyl	10mg	52
7826G	2.2'.5.6'-Tetrachlorobiphenyl	25mg	53
7827G	2.2'.6.6'-Tetrachlorobiphenyl	50mg	54
9016G	2,3,3',4-Tetrachlorobiphenyl	5mg	55
9017G	2,3,3',5'-Tetrachlorobiphenyl	5mg	58
9018G	2,3,4,4'-Tetrachlorobiphenyl	5mg	60
7829G	2.3.4.5-Tetrachlorobiphenyl	50mg	61
9052G	2.3.4.6-Tetrachlorobiphenyl	50mg	62
7833G	2.3.5.6-Tetrachlorobiphenyl	25mg	65
7828G	2.3'.4.4'-Tetrachlorobiphenyl	20mg	66
7831G	2.3'.4.6-Tetrachlorobiphenyl	10mg	69
7830G	2.3'.4'.5-Tetrachlorobiphenyl	10mg	70
7832G	2.3'.5.5'-Tetrachlorobiphenyl	25mg	72
9019G	2,4,4',5-Tetrachlorobiphenyl	5mg	74
7834G	2.4.4'.6-Tetrachlorobiphenyl	10mg	75
7835G	3.3'.4.4'-Tetrachlorobiphenyl	25mg	77
9020G	3,3',4,5-Tetrachlorobiphenyl	5mg	78
9021G	3,3',4,5'-Tetrachlorobiphenyl	5mg	79
9022G	3,3',5,5'-Tetrachlorobiphenyl	5mg	80
9023G	3,4,4',5-Tetrachlorobiphenyl	5mg	81
9024G	2,2',3,3',4-Pentachlorobiphenyl	5mg	82
9025G	2,2',3,4,5-Pentachlorobiphenyl	10mg	86
6785G	2.2'.3.4.5'-Pentachlorobiphenyl	10mg	87
6787G	2.2'.3.4.6-Pentachlorobiphenyl	5mg	88
6788G	2.2'.3.5.6-Pentachlorobiphenyl	5mg	93
9026G	2,2',3,5',6-Pentachlorobiphenyl	5mg	95
6786G	2.2'.3'.4.5-Pentachlorobiphenyl	10mg	97
9027G	2,2',3',4,6-Pentachlorobiphenyl	5mg	98
9053G	2,2',4,4',5-Pentachlorobiphenyl	5mg	99
6791G	2.2'.4.4'.6-Pentachlorobiphenyl	5mg	100
6789G	2.2'.4.5.5'-Pentachlorobiphenyl	10mg	101
9054G	2.2'.4.5.6'-Pentachlorobiphenyl	50mg	102
6790G	2.2'.4.5'.6-Pentachlorobiphenyl	10mg	103
6792G	2.2'.4.6.6'-Pentachlorobiphenyl	5mg	104
9028G	2,3,3',4,4'-Pentachlorobiphenyl	5mg	105
9055G	2,3,3',4,5-Pentachlorobiphenyl	5mg	106
9029G	2,3,3',4,5'-Pentachlorobiphenyl	5mg	108
9056G	2,3,3',4,6-Pentachlorobiphenyl	5mg	109
9030G	2,3,3',4',6-Pentachlorobiphenyl	5mg	110
6793G	2.3.3'.5.6-Pentachlorobiphenyl	5mg	112
9031G	2,3,4,4',5-Pentachlorobiphenyl	5mg	114
6794G	2.3.4.4'.6-Pentachlorobiphenyl	5mg	115
6795G	2.3.4.5.6-Pentachlorobiphenyl	10mg	116
9057G	2.3.4'.5.6-Pentachlorobiphenyl	5mg	117
9032G	2,3',4,4',5-Pentachlorobiphenyl	5mg	118
6796G	2.3'.4.4'.6-Pentachlorobiphenyl	5mg	119
6797G	2.3'.4.5'.6-Pentachlorobiphenyl	5mg	121
9033G	2',3,3',4,5-Pentachlorobiphenyl	5mg	122
9058G	2'.3.4.4'.5-Pentachlorobiphenyl	5mg	123
9034G	2',3,4,5,5'-Pentachlorobiphenyl	5mg	124
9035G	3,3',4,4',5-Pentachlorobiphenyl	5mg	126
9036G	3,3',4,5,5'-Pentachlorobiphenyl	5mg	127
5010G	2.2'.3.3'.4.4'-Hexachlorobiphenyl	20mg	128
5011G	2.2'.3.3'.4.5-Hexachlorobiphenyl	5mg	129
9059G	2.2'.3.3'.4.6-Hexachlorobiphenyl	5mg	131
9060G	2.2'.3.3'.4.6'-Hexachlorobiphenyl	5mg	132
9037G	2,2',3,3',5,5'-Hexachlorobiphenyl	5mg	133
9061G	2.2'.3.3'.5.6-Hexachlorobiphenyl	5mg	134
5012G	2.2'.3.3'.6.6'-Hexachlorobiphenyl	20mg	136
5013G	2.2'.3.4.4'.5-Hexachlorobiphenyl	5mg	137
5014G	2.2'.3.4.4'.5'-Hexachlorobiphenyl	5mg	138
5018G	2.2'.3.4.4'.6-Hexachlorobiphenyl	5mg	139
9062G	2.2'.3.4.4'.6'-Hexachlorobiphenyl	5mg	140
5015G	2.2'.3.4.5.5'-Hexachlorobiphenyl	5mg	141
9063G	2.2'.3.4.5.6-Hexachlorobiphenyl	5mg	142
5016G	2.2'.3.4.5.6'-Hexachlorobiphenyl	5mg	143
9064G	2.2'.3.4.5'.6-Hexachlorobiphenyl	5mg	144
9065G	2.2'.3.4.6.6'-Hexachlorobiphenyl	5mg	145
9066G	2.2'.3.4'.5.6-Hexachlorobiphenyl	5mg	147
9067G	2.2'.3.4'.5'.6-Hexachlorobiphenyl	5mg	149
5017G	2.2'.3.5.5'.6-Hexachlorobiphenyl	5mg	151
9068G	2.2'.3.5.6.6'-Hexachlorobiphenyl	5mg	152
5019G	2.2'.4.4'.5.5'-Hexachlorobiphenyl	10mg	153
5020G	2.2'.4.4'.5.6'-Hexachlorobiphenyl	5mg	154
5021G	2.2'.4.4'.6.6'-Hexachlorobiphenyl	50mg	155
5022G	2.3.3'.4.4'.5-Hexachlorobiphenyl	5mg	156
9069G	2.3.3'.4.4'.5'-Hexachlorobiphenyl	5mg	157
9038G	2,3,3',4,4',6-Hexachlorobiphenyl	5mg	158
9039G	2,3,3',4,5,5'-Hexachlorobiphenyl	5mg	159
9070G	2.3.3'.4.5.6-Hexachlorobiphenyl	5mg	160
9071G	2.3.3'.4.5'.6-Hexachlorobiphenyl	5mg	161
9072G	2,3,3',4',5,6-Hexachlorobiphenyl	5mg	163
9073G	2,3,3',5,5',6-Hexachlorobiphenyl	5mg	165
9040G	2,3,4,4',5,6-Hexachlorobiphenyl	5mg	166
9041G	2,3',4,4',5,5'-Hexachlorobiphenyl	10mg	167
9074G	2,3',4,4',5',6-Hexachlorobiphenyl	5mg	168
9042G	3,3',4,4',5,5'-Hexachlorobiphenyl	5mg	169
9043G	2,2',3,3',4,4',5-Heptachlorobiphenyl	5mg	170
5000G	2.2'.3.3'.4.4'.6-Heptachlorobiphenyl	5mg	171
9075G	2,2',3,3',4,5,6-Heptachlorobiphenyl	5mg	173
9044G	2,2',3,4,4',5,5'-Heptachlorobiphenyl	5mg	180
5003G	2.2'.3.4.4'.5.6-Heptachlorobiphenyl	5mg	181
9076G	2,2',3,4,4',5,6'-Heptachlorobiphenyl	5mg	182
5001G	2.2'.3.4.4'.5'.6-Heptachlorobiphenyl	5mg	183
9077G	2,2',3,4,4',6,6'-Heptachlorobiphenyl	5mg	184
5002G	2.2'.3.4.5.5'.6-Heptachlorobiphenyl	5mg	185
9045G	2,2',3,4,5,6,6'-Heptachlorobiphenyl	5mg	186
9046G	2,2',3,4',5,5',6-Heptachlorobiphenyl	5mg	187
9047G	2,2',3,4',5,6,6'-Heptachlorobiphenyl	5mg	188
9048G	2,3,3',4,4',5,5'-Heptachlorobiphenyl	5mg	189
9049G	2,3,3',4,4',5,6-Heptachlorobiphenyl	5mg	190
9078G	2,3,3',4,4',5',6-Heptachlorobiphenyl	5mg	191
9079G	2,3,3',4,5,5',6-Heptachlorobiphenyl	5mg	192
9080G	2,3,3',4',5,5',6-Heptachlorobiphenyl	5mg	193
6680G	2.2'.3.3'.4.4'.5.5'-Octachlorobiphenyl	5mg	194
6681G	2.2'.3.3'.4.4'.5.6-Octachlorobiphenyl	5mg	195
9081G	2.2'.3.3'.4.4'.5.6'-Octachlorobiphenyl	5mg	196
6682G	2.2'.3.3'.4.5.5'.6-Octachlorobiphenyl	5mg	198
9082G	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	5mg	199
9050G	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	5mg	200
6683G	2.2'.3.3'.4.5'.6.6'-Octachlorobiphenyl	5mg	201
6684G	2.2'.3.3'.5.5'.6.6'-Octachloraobiphenyl	5mg	202
6685G	2.2'.3.4.4'.5.6.6'-Octachlorobiphenyl	5mg	204
9051G	2,3,3',4,4',5,5',6-Octachlorobiphenyl	5mg	205
6700G	2.2'.3.3'.4.4'.5.5'.6-Nonachlorobiphenyl	5mg	206
6701G	2.2'.3.3'.4.4'.5.6.6'-Nonachlorobiphenyl	5mg	207
6702G	2.2'.3.3'.4.5.5'.6.6'-Nonachlorobiphenyl	5mg	208
F2170 +	Decachlorobiphenyl	10mg	209

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

HYDROXYLATED BIPHENYLS AND CHLOROBIPHENYLS

PCB Metabolites & Hydroxylated Chlorobiphenyls, 95-99% Pure

CAT#	DESCRIPTION	QTY
2803G	2-Chloro-4-biphenylol	5mg
2804G	3-Chloro-2-biphenylol	10mg
2805G	3-Chloro-4-biphenylol	10mg
2806G	4′-Chloro-4-biphenylol	10mg
2807G	5-Chloro-2-biphenylol	10mg
2808G	2-Chloro-5-biphenylol	10mg
3640G	2′.5′-Dichloro-2-biphenylol	10mg
3641G	2′.5′-Dichloro-4-biphenylol	10mg
3642G	2′.5′-Dichloro-3-biphenylol	10mg
3643G	3.5-Dichloro-2-biphenylol	10mg
3645G	4.4′-Dichloro-3-biphenylol	10mg
3635G	4.4′-Dichloro-3.3′-biphenyldiol	5mg
8240G	2.2′.5′-Trichloro-4-biphenylol	10mg
8241G	2′.3.5′-Trichloro-2-biphenylol	10mg
8242G	2′.4′.6′-Trichloro-4-biphenylol	10mg
8243G	2′.5.5′-Trichloro-2-biphenylol	10mg
8244G	3.4′.5-Trichloro-4-biphenylol	5mg
7840G	2′.3′.4′-5′-Tetrachloro-4-biphenylol	10mg
7841G	2′.3′.4′.5′-Tetrachloro-3-biphenylol	10mg
7839G	3.3′.5.5′-Tetrachloro-4.4′-biphenyldiol	10mg
6800G	2′.3′.4′.5.5′-Pentachloro-2-biphenylol	5mg

CHLORINATED DIBENZO-p-DIOXINS & DIBENZOFURANS, 95-99% PURE

CAT#	DESCRIPTION	QTY
3505G	Dibenzo-p-dioxin	25mg
2860G	1-Chlorodibenzo-p-dioxin	25mg
2861G	2-Chlorodibenzo-p-dioxin	25mg
3655G	2.7-Dichlorodibenzo-p-dioxin	5mg
8225G	1.2.4-Trichlorodibenzo-p-dioxin	5mg
7860G	1.2.3.4-Tetrachlorodibenzo-p-dioxin	25mg
F114S +	2,3,7,8-Tetrachloro-p-dioxin	5mL
6690G	Octachlorodibenzo-p-dioxin	50mg
F707	Dibenzofuran	2g
3650G	2.8-Dichlorodibenzofuran	10mg
6695G	Octachlorodibenzofuran	50mg

NOTE: All of the above chemicals are available as solutions.

+ F114S is only available in solution at 10ug/mL in Toluene.

HYDROXYLATED BIPHENYLS 95-99% Pure

CAT#	DESCRIPTION	QTY
F2225	2-Biphenylol	1g
2169G	3-Biphenylol	100mg
O-880	4-Biphenylol	5g
2160G	2.2′-Biphenyldiol	100mg
F2166	2.5′-Biphenyldiol	100mg
2161G	3.3′-Biphenyldiol	100mg
2164G	3.4-Biphenyldiol	100mg
F2165	4.4′-Biphenyldiol	100mg

SPECIAL PCB MIXTURE

8235G	2.4.4′-Trichlorobiphenyl
7825G	2.2′.5.5′-Tetrachlorobiphenyl
6789G	2.2′.4.5.5′-Pentachlorobiphenyl
9032G	2,3′,4,4′,5-Pentachlorobiphenyl
5014G	2.2′.3.4.4′.5′-Hexachlorobiphenyl
5019G	2.2′.4.4′.5.5′-Hexachlorobiphenyl
9044G	2,2′,3,4,4′,5,5′-Heptachlorobiphenyl

100ug/mL in Isooctane - (7 components)
CRPCB-1JM 1mL Ampule

BROMINATED BIPHENYL ISOMERS, 99% PURE

CAT#	DESCRIPTION	QTY
2320G	2-Bromobiphenyl	50mg
2321G	3-Bromobiphenyl	50mg
2322G	4-Bromobiphenyl	50mg
3542G	2.2′-Dibromobiphenyl	50mg
3543G	2.4-Dibromobiphenyl	15mg
3544G	2.5-Dibromobiphenyl	15mg
3540G	2.6-Dibromobiphenyl	10mg
F2172+	4,4′-Dibromobiphenyl	500mg
8162G	2.2′.5-Tribromobiphenyl	10mg
8163G	2.3′.5-Tribromobiphenyl	10mg
8165G	2.4.5-Tribromobiphenyl	10mg
8164G	2.4′.5-Tribromobiphenyl	10mg
8166G	3.4.5-Tribromobiphenyl	10mg
8160G	2.4.6-Tribromobiphenyl	15mg
7770G	2.2′.4.5′-Tetrabromobiphenyl	20mg
7771G	2.2′.5.5′-Tetrabromobiphenyl	20mg
7773G	2.2′.5′.6-Tetrabromobiphenyl	20mg
7772G	3.3′.5.5′-Tetrabromobiphenyl	20mg
6752G	2.2′.4.5.5′-Pentabromobiphenyl	5mg
6750G	2.2′.4.5′.6-Pentabromobiphenyl	10mg
5008G***	2.2′.4.4′.5.5′-Hexabromobiphenyl	5mg
5004G***	3.3′.4.4′.5.5′-Hexabromobiphenyl	5mg
6751G	2.2′.4.4′.6.6′-Hexabromobiphenyl	5mg
O-2027++	Decabromobiphenyl	500mg

NOTE: The above chemicals are also available at 100ug/mL in Hexane(2mL Ampule).

+ Please add a suffix of "AS" to designate a solution for this item only.
++ Minimum Purity 98%.
**** Minimum Purity 95%.*

AROCHLORS IN PCB FREE TRANSFORMER OIL

F107BS	5mL	Arochlor 1016	100ug/mL	Transformer Oil
F108BS	5mL	Arochlor 1221	100ug/mL	Transformer Oil
F109BS	5mL	Arochlor 1242	100ug/mL	Transformer Oil
F110BS	5mL	Arochlor 1248	100ug/mL	Transformer Oil
F111BS	5mL	Arochlor 1254	100ug/mL	Transformer Oil
F112CS	5mL	Arochlor 1260	100ug/mL	Transformer Oil
F113BS	5mL	Arochlor 1232	100ug/mL	Transformer Oil
F293AS	5mL	Arochlor 1262	100ug/mL	Transformer Oil
F295AS	5mL	Arochlor 1268	100ug/mL	Transformer Oil

PCB MIXTURE

- 2-Chlorobiphenyl
- 2.3-Dichlorobiphenyl
- 2.4.5-Trichlorobiphenyl
- 2.2′.4.4′-Tetrachlorobiphenyl
- 2,2′,3′,4,6-Pentachlorobiphenyl
- 2.2′.4.4′.5.6′-Hexachlorobiphenyl
- 2.2′.3.3′.4.4′.6-Heptachlorobiphenyl
- 2.2′.3.3′.4.5′.6.6′-Octachlorobiphenyl

100ug/mL in Acetone - (8 components)
PCB525-1M 5mL Ampule
PCB525-1JM 1mL Ampule

PCB FREE TRANSFORMER OIL STANDARD

F2442	5g	Transformer Oil

CAT#	DESCRIPTION	QTY
F1	Acenaphthene	1g
F77	Acenaphthylene	100mg
F911	2-Acetamidofluorene	100mg
O-2348	b-Acetamidonaphthalene	100mg
F951	Adamantane	1g
O-2373	1-Aminoanthracene	100mg
O-2374	2-Aminoanthracene	100mg
2357K	1-Aminoanthraquinone	10g
F2087	2-Aminoanthraquinone	1g
O-2377	6-Aminochrysene	50mg
O-2378	2-Aminofluorene	1g
O-2379	1-Amino-4-nitronaphthalene	100mg
O-2380	1-Amino-5.6.7.8-tetrahydro-naphthalene	100mg
F78	Anthracene	1g
F1000	Azulene	10mg
F72	1.2-Benzanthracene	100mg
F74	Benzo(b)fluoranthene	100mg
F952	Benzo(j)fluoranthene	50mg
F75	Benzo(k)fluoranthene	100mg
F1001	1.2-Benzofluorene	10mg
F1002	2.3-Benzofluorene	10mg
F79	1.12-Benzoperylene	10mg
F73	Benzo(a)pyrene	10mg
F1003	Benzo(e)pyrene	10mg
F1061	Bibenzyl	500mg
F1004	1.1′-Binaphthyl	100mg
F1062	Biphenyl	5g
F1005	Biphenylene	10mg
O-2391	1.8-Bis(dimethylamino)-naphthalene	100mg
O-2349	1-(2-Bromoethyl)naphthalene	1g
O-2350	1-Bromo-2-methylnaphthalene	1g
O-2351	1-Bromonaphthalene	10g
F1006	2-tert-Butylanthracene	100mg
O-2352	1-(Chloromethyl)naphthalene	10g
F76	Chrysene	100mg
F1007	Coronene	10mg
O-2353	1-Cyanonaphthalene	1g
O-2354	9-Cyanophenanthrene	10mg
F1008	Decacyclene	1g
O-2381	2,7-Diacetamidofluorene	100mg
O-2382	2.6-Diaminoanthraquinone	5g
O-2384	2,7-Diaminofluorene	50mg
O-2386	1,5-Diaminonaphthalene	1g
O-2387	1.8-Diaminonaphthalene	10g
O-2388	2.3-Diaminonaphthalene	100mg
O-2389	9,10-Diaminophenanthrene	100mg
F1009	1.2:3.4-Dibenzanthracene	10mg
F82	1.2:5.6-Dibenzanthracene	10mg
F1010	1.2:4.5-Dibenzpyrene	10mg
F1011	1.2:7.8-Dibenzpyrene	10mg
O-2372	1.2:6.7-Dibenzpyrene	10mg
O-2355	9,10-Dibenzylanthracene	10mg
O-2356	9,10-Dibromoanthracene	1g
O-2358	2.6-Di-tert-butylnaphthalene	100mg
F1012	9,10-Dihydroanthracene	1g
F1013	9,10-Dihydrophenanthrene	1g
F1014	1.2-Dihydro-4-phenylnaphthalene	100mg
O-2359	1,2-Dihydroxynaphthalene	25mg
O-2360	1.3-Dihydroxynaphthalene	100mg
O-2361	1,6-Dihydroxynaphthalene	1g
O-2362	1.7-Dihydroxynaphthalene	1g
O-2363	2,3-Dihydroxynaphthalene	1g
O-2364	2.6-Dihydroxynaphthalene	500mg
O-2365	2.7-Dihydroxynaphthalene	1g
F1015	9,10-Dimethylanthracene	100mg
F918	7.12-Dimethylbenz(a)anthracene	100mg
F1016	2.2′-Dimethyl biphenyl	10mg
F1017	3.3′-Dimethyl biphenyl	100mg
F1018	4.4′-Dimethyl biphenyl	100mg
F1022	1.2-Dimethylnaphthalene	100mg
F1019	1.3-Dimethylnaphthalene	100mg
F1020	1.4-Dimethylnaphthalene	100mg
F1021	1.5-Dimethylnaphthalene	10mg
F1025	1.8-Dimethyl naphthalene	100mg
F1023	2.3-Dimethylnaphthalene	1g
F1024	2.6-Dimethylnaphthalene	100mg
F1026	2.7-Dimethylnaphthalene	100mg
F1027	2.2′-Dinaphthyl	100mg
F1028	9,10 -Diphenyl anthracene	100mg
F1063	Durene	5g
F1029	1-Ethyl naphthalene	100mg
F1030	2-Ethyl naphthalene	100mg
F39	Fluoranthene	1g
F80	Fluorene	1g
F1031	Guaiazulene	1g
O-2103	Guaiene	1g
F1032	1.2.3.6.7.8-Hexahydropyrene	100mg
F1033	Indan	1g
F1034	Indene	1g
F83	Indeno(1.2.3-C.D)pyrene	10mg
O-2366	1-Iodonaphthalene	1g
O-2367	9-Isothiocyanatoacridine	100mg
F1035	2-Methylanthracene	100mg
F1036	9-Methylanthracene	100mg
F1037	2-Methyl biphenyl	100mg
F1038	3-Methyl biphenyl	100mg
F1039	4-Methyl biphenyl	100mg
F924	3-Methyl cholanthrene	10mg
F1040	1-Methyl fluorene	100mg
F2469	1-Methylindene	10mg
F1041	3-Methyl indene	10mg
F1066	1-Methylnaphthalene	2g
F709	2-Methylnaphthalene	2g
F1042	1-Methylphenanthrene	100m
F2470	2-Methyl phenanthrene	50mg
F1043	Naphthacene	50mg
F55	Naphthalene	5g
F928	a-Naphthylamine	100mg
F927	b-Naphthylamine	100m
F1046	Pentacene	10mg
F1044	Perhydrofluorene	1g
F1047	Perylene	100mg
F81	Phenanthrene	1g
F1048	9-Phenylanthracene	100mg
F1049	1-Phenylnaphthalene	100mg
O-2368	2-Phenylnaphthalene	25mg
O-2393	N-Phenyl-1-naphthylamine	5g
O-2394	N-Phenyl-2-naphthylamine	5g
F84	Pyrene	1g
O-2370	Pyrrole	5g
F1050	p-Quater phenyl	100mg
F1051	m-Quinquephenyl	10mg
F1052	Retene	100mg
F1053	Rubrene	10mg
F1054	o-Terphenyl	500mg
F1055	m-Terphenyl	1g
F1064	p-Terphenyl	500mg
F1065	1,2,3,4-Tetrahydronaphthalene	5g
F1056	1.3.6.8-Tetraphenylpyrene	100mg
F1057	2.3.5-Trimethylnaphthalene	10mg
F1058	Triphenylene	100mg
F1059	Triptycene	100mg
F1060	Truxene	1g
O-2369	2-Vinylnaphthalene	10

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

Chem Service, in this Environmental Catalog, provides only an abridged offering of the high purity inorganic solution standards as well as high purity inorganic metal, salt and oxide standards available. We are including a short selection from the extensive listing of available standards following a representative table of contents compendium.

These high purity single and multielement standards produced by High Purity Standards are of the same high quality as those produced at NIST. Accuracy for single element solutions is certified to be within 0.3% and for the multielement solutions within 0.5%.

We welcome requests for multielement special mixtures designed by our customers. Call us today to discuss your special mix needs. All the standards are certified accurate for one year from the day of shipment. A Certificate of Analysis and a Material Safety Data Sheet are included with each standard.

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Order Placement

Ordering High Purity standards from Chem Service is now easier and faster! Complete the order form on page X. Keep additional copies of the form on hand for future orders. There are now four methods available for ordering:

By Fax (24 hours): **1-610-692-8729**

By Telephone: **1-610-692-3026 or 1-800-452-9994**

By Mail: **Chem Service, Inc**
PO Box 599
West Chester, PA 19381-0599

By INTERNET: **http://www.chemservice.com**

Pricing and Terms of Sale

Prices are quoted FOB Charleston, SC, and are subject to change without notice. Invoices are payable Net 30 Days in US currency. We also accept payment by **VISA**, **MASTERCARD** and **AMERICAN EXPRESS**. All orders must be authorized with a purchase order number. Any confirming paperwork MUST BE marked "confirming" to avoid duplication. HPS cannot assume responsibility for duplication as a result of improperly marked paperwork, and will assess a restocking fee to be returned.

Return Policy

We will accept any unopened catalog item back for any reason within 30 days of purchase and you will receive full credit. Any items returned after 30 days, will assess a restocking fee of 20% per item returned. Any catalog item or custom mix can be returned for replacement if the item is found to be erroneous. ALL returns must be authorized. Please call 1-610-692-3026 to receive a return authorization number (RA#).

Shipping

Orders for catalog items are generally shipped within 24 hours of receiving the order. Custom blends are shipped within three days. Our standard method of shipment is UPS ground service. Expedited delivery services are available. Please specify your choice on the order form. Shipping charges are prepaid and added to the invoice. Any additional charges incurred by hazardous shipping regulations and COD requests will be paid by the customer.

Laboratory Use

High Purity Chem Service products are intended for laboratory use only. They are not intended for medical, food, drug, or household use. All products should be handled and used by trained professional personnel only. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user.

Certificate of Analysis

All High Purity Chem Service single-element and multielement standard solutions are certified against the National Institute of Standards and Technology (NIST), Office of Standard Reference Materials (OSRM) 3100 Series, Spectrometric Standard Solutions. A Certificate of Analysis (C of A) is included with each standard. All standard solutions are certified accurate for a period of one year (unless otherwise stated in C of A) from the date of shipment.

Preparation & Certification

At HPS we use only those methods developed at NIST for the preparation and certification of OSRM Spectrometric Standard Solutions, and use only the highest-purity metals, salts, or oxides to prepare these solutions. For preparation of alkali, alkaline earth, or rare earth metals, we use the metal, salt, or oxide. For this material, the stoichiometry of each salt or oxide is first checked. The purity of each material is checked by optical emission spectrometry. If any impurities are found, atomic absorption (AAS), inductive coupled plasma (ICP) or inductive coupled plasma mass spectrometry (ICP-MS) is used to determine the exact concentration of the impurity. Only after this rigid testing is the material declared suitable for the production of HPS standard solutions.

Single-Element Standards 1000ug/mL

For the following standards, all concentrations are 1000 ± 3ug/mL in aqueous solution unless noted otherwise. Most standards are packaged in 100mL, 250mL, and 500mL high-density DOT-2E bottles. Please state a specific volume when ordering.

The accuracy of all standards is certified against NIST Spectrometric Standard Solutions. A Certificate of Analysis and Material Safety Data Sheet are included with each standard. All standards are certified accurate for a period of one year from the date of shipment. ***Please add to the catalog number -A for 100mL, -B for 250mL and -C for 500mL.***

CATALOG NO.	ELEMENT	SOURCE	PURITY	MATRIX	100 mL	250 mL	500 mL
X10001-1	Aluminum	Al metal	99.999%	2% HNO_3			
X10001-2				2% HCl			
X10002-2	Antimony	Sb metal	99.999%	20% HCl			
X10002-3				5% HNO_3 + 0.1% HF			
X10002-6		Sb metal as b^{+3}		20% HCl			
X10002-7		Sb metal as b^{+5}		2% KOH			
X10002-8		Sb metal		5% Tartaric Acid			
X10003-1	Arsenic	As metal	99.999%	2% HNO_3			
X10003-2		As metal		2% HCl			
X10003-6		As_2O_3 as As^{+3}		2% HCl			
X10003-7		As_2O_3 as As^{+5}		2% NaOH			
X10004-1	Barium	$BaCO_3$	99.99%	2% HNO_3			
X10004-2				2% HCl			
X10005-1	Beryllium	Be acetate	99.99+%	2% HNO_3			
X10005-2				2% HCl			
X10006-1	Bismuth	Bi metal	99.999%	2% HNO_3			
X10006-2				2% HCl			
X10007-4	Boron	H_3BO_3	99.99%	H_2O			
X10008-1	Cadmium	Cd metal	99.999%	2% HNO_3			
X10008-2				2% HCl			
X10009-1	Calcium	$CaCO_3$	99.997%	2% HNO_3			
X10009-2				2% HCl			
X100071-4	Carbon	$Na_2C_2O_4$	99.9+%	H_2O			
X100010-1	Cerium	CeO_2	99.99+%	2% HNO_3			
X100010-2				2% HCl			
X100011-1	Cesium	Cs_2CO_3	99.99+%	1% HNO_3			
X100011-2				1% HCl			
X100012-1	Chromium	Cr metal	99.999%	2% HNO_3			
X100012-2		Cr metal	99.999%	2% HCl			
X100012-6		Cr metal as Cr^{+3}	99.999%	2% HCl			
X100012-7		$K_2Cr_2O_7$ as Cr^{+6}	99.998%	H_2O			
X100013-1	Cobalt	Co metal	99.998%	2% HNO_3			
X100013-2				2% HCl			
X100014-1	Copper	Cu metal	99.999%	2% HNO_3			
X100014-2				2% HCl			
X100015-1	Dysprosium	Dy_2O_3	99.99%	2% HNO_3			
X100015-2				2% HCl			
X100016-1	Erbium	Er_2O_3	99.99%	2% HNO_3			
X100016-2				2% HCl			
X100017-1	Europium	Eu_2O_3	99.99%	2% HNO_3			
X100017-2				2% HCl			
X100018-1	Gadolinium	Gd_2O_3	99.99%	2% HNO_3			
X100018-2				2% HCl			
X100019-1	Gallium	Ga metal	99.999%	2% HNO_3			
X100019-2				2% HCl			
X100020-1	Germanium	$(NH_4)_2GeF_5$	99.99%	1% HNO_3			
X100020-5		Ge metal	99.999%	5% Oxalic Acid			
X100021-2	Gold	Au metal	99.999%	2% HCl			
X100022-3	Hafnium	Hf metal	99.9+%	2% HNO_3 + 0.5% HF			
X100023-1	Holmium	Ho_2O_3	99.99%	2% HNO_3			
X100023-2				2% HCl			
X100024-1	Indium	In metal	99.999%	2% HNO_3			
X100024-2				2% HCl			
X100025-2	Iridium	$(NH_4)_3IrCl_6$	99.998%	10% HCl			
X100026-1	Iron	Fe metal	99.999%	2% HNO_3			
X100026-2				2% HCl			
X100026-6		as Fe^{+2}		2% HCl			
X100026-7		as Fe^{+3}		2% HNO_3			
X100027-1	Lanthanum	La_2O_3	99.99%	2% HNO_3			
X100027-2				2% HCl			
X100028-1	Lead	Pb metal	99.995%	2% HNO_3			
X100028-2				2% HCl			

CATALOG NO.	ELEMENT	SOURCE	PURITY	MATRIX	100 mL	250 mL	500 mL
X100029-1	Lithium	Li_2CO_3	99.999%	1% HNO_3			
X100029-2		LiCl	99.99%	1% HCl			
X100029-6I		$^6Li_2CO_3$	95.5%	1% HNO_3			
X100030-1	Lutetium	Lu_2O_3	99.99%	2% HNO_3			
X100030-2				2% HCl			
X100031-1	Magnesium	Mg metal	99.99%	2% HNO_3			
X100031-2				2% HCl			
X100032-1	Manganese	Mn metal	99.99%	2% HNO_3			
X100032-2				2% HCl			
X100033-1	Mercury	Hg metal	99.998%	2% HNO_3			
X100033-1D		Diphenylmercury	97%	2% HNO_3			
X100034-2	Molybdenum	Mo metal	99.999%	2% HCl			
X100034-3				2% HNO_3 + 0.1% HF			
X100034-4		$(NH_4)MoO_4$		H_2O			
X100035-1	Neodymium	Nd_2O_3	99.99%	2% HNO_3			
X100035-2				2% HCl			
X100036-1	Nickel	Ni metal	99.999%	2% HNO_3			
X100036-2				2% HCl			
X100037-3	Niobium	Nb metal	99.99%	2% HNO_3 + 0.5% HF			
X100070-2	Osmium	$(NH_4)_2OsCl_6$	99.996%	10% HCl			
X100038-1	Palladium	Pd metal	99.99%	10% HNO_3			
X100038-2				5% HCl			
X100039-1	Phosphorus	$NH_4H_2PO_4$	99.99+%	0.05% HNO_3			
X100040-2	Platinum	Pt metal	99.99%	5% HCl			
X100041-1	Potassium	KNO_3	99.999%	1% HNO_3			
X100041-2		KCl	99.99%	1% HCl			
X100042-1	Praseodymium	Pr_6O_{11}	99.99%	2% HNO_3			
X100042-2				2% HCl			
X100043-1	Rhenium	Re metal	99.99%	2% HNO_3			
X100043-2				2% HCl			
X100044-2	Rhodium	$(NH_4)_3RhCl_6$	99.99%	10% HCl			
X100045-1	Rubidium	Rb_2CO_3	99.975%	1% HNO_3			
X100045-2				1% HCl			
X100046-2	Ruthenium	$(NH_4)_2RuCl_6$	99.99%	10% HCl			
X100047-1	Samarium	Sm_2O_3	99.99%	2% HNO_3			
X100047-2				2% HCl			
X100048-1	Scandium	Sc_2O_3	99.99%	2% HNO_3			
X100048-2				2% HCl			
X100049-1	Selenium	Se metal	99.99%	2% HNO_3			
X100049-2				2% HCl			
X100050-4	Silicon	Na_2SiO_3	99.99%	H_2O			
X100050-4F		$(NH_4)_2SiF_6$	99.99%	H_2O			
X100051-1	Silver	Ag metal	99.999%	2% HNO_3			
X100052-1	Sodium	$NaNO_3$	99.99+%	1% HNO_3			
X100052-2		NaCl	99.99+%	1% HCl			
X100053-1	Strontium	$SrCO_3$	99.999%	2% HNO_3			
X100053-2				2% HCl			
X100054-5	Sulfur	H_2SO_4	99.999%	H_2O			
X100055-3	Tantalum	Ta metal	99.99%	2% HNO_3 + 0.5% HF			
X100056-2	Tellurium	Te metal	99.99%	2% HCl			
X100056-3				2% HNO_3 + 0.2% HF			
X100057-1	Terbium	Tb_4O_7	99.99%	2% HNO_3			
X100057-2				2% HCl			
X100058-1	Thallium	Tl metal	99.999%	2% HNO_3			
X100059-1	Thorium	ThO_2	99.99%	2% HNO_3			
X100059-2				2% HCl			
X100060-1	Thulium	Tm_2O_3	99.99%	2% HNO_3			
X100060-2				2% HCl			
X100061-2	Tin	Sn metal	99.998%	20% HCl			
X100061-3				2% HNO_3 + 0.5% HF			
X100062-2	Titanium	Ti metal	99.99%	20% HCl			
X100062-3				2% HNO_3 + 0.1% HF			
X100063-3	Tungsten	W metal	99.99%	2% HNO_3 + 1% HF			
X100064-1	Uranium	U_3O_8	99.968%	2% HNO_3			
X100065-1	Vanadium	NH_4VO_3	99.99%	2% HNO_3			
X100065-2				2% HCl			

Please add to the catalog number -A for 100mL, -B for 250mL and -C for 500mL.

CATALOG NO.	ELEMENT	SOURCE	PURITY	MATRIX	100 mL	250 mL	500 mL
X100066-1 X100066-2	Ytterbium	Yb_2O_3	99.99%	2% HNO_3 2% HCl			
X100067-1 X100067-2	Yttrium	Y_2O_3	99.99%	2% HNO_3 2% HCl			
X100068-1 X100068-2	Zinc	Zn metal	99.999%	2% HNO_3 2% HCl			
X100069-3	Zirconium	Zr metal	99.99%	2% HNO_3 + 0.5% HF			

These standards are not stock items and will be available for shipment within 48 hours.

Single-Element Standards 10.00 mg/mL

For the following standards, all concentrations are 10.00 ± 0.03 mg/mL (10,000 µg/mL) in aqueous solution unless noted otherwise. Most standards are packaged in 100, 250, and 500 mL HDPE laboratory grade bottles. The density is provided on the Certificate of Analysis as additional information for the user. Please state a specific volume when ordering.

The accuracy of all standards is certified against NIST Spectrometric Standard Solutions. A Certificate of Analysis and Material Safety Data Sheet are included with each standard. All standards are certified accurate for a period of one year from the date of shipment. ***Please add to the catalog number -100 for 100mL, -250 for 250mL and -500 for 500mL.***

CATALOG NO.	ELEMENT	SOURCE	PURITY	MATRIX	100 mL	250 mL	500 mL
X10M 1-1 X10M 1-2	Aluminum	Al metal	99.999%	4% HNO_3 10% HCl			
X10M 2-2 X10M 2-3	Antimony	Sb metal	99.999%	50% HCl 10% HNO_3 + 2% HF			
X10M 3-1 X10M 3-2	Arsenic	As metal	99.999%	4% HNO_3 15% HCl			
X10M 4-1 X10M 4-2	Barium	$BaCO_3$	99.99%	4% HNO_3 5%HCl			
X10M 5-1 X10M 5-2	Beryllium	Be acetate	99.99+%	4% HNO_3 10% HCl			
X10M 6-1	Bismuth	Bi metal	99.999%	4% HNO_3			
*X5M 7-4	Boron	H_3BO_3	99.99%	H_2O			
X10M 8-1 X10M 8-2	Cadmium	Cd metal	99.999%	4% HNO_3 10% HCl			
X10M 9-1 X10M 9-2	Calcium	$CaCO_3$	99.99+%	4% HNO_3 5% HCl			
X10M 10-1 X10M 10-2	Cerium	CeO_2	99.99+%	4% HNO_3 10% HCl			
X10M 11-1 X10M 11-2	Cesium	Cs_2CO_3	99.99+%	1% HNO_3 1% HCl			
X10M 12-1 X10M 12-2 X10M 12-7	Chromium	Cr metal Cr metal $K_2Cr_2O_7$ as Cr^{+6}	99.999% 99.999% 99.998%	4% HNO_3 10% HCl H_2O			
X10M 13-1 X10M 13-2	Cobalt	Co metal	99.998%	4% HNO_3 10% HCl			
X10M 14-1 X10M 14-2	Copper	Cu metal	99.999%	4% HNO_3 10% HCl			
X10M 15-1 X10M 15-2	Dysprosium	Dy_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 16-1 X10M 16-2	Erbium	Er_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 17-1 X10M 17-2	Europium	Eu_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 18-1 X10M 18-2	Gadolinium	Gd_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 19-1 X10M 19-2	Gallium	Ga metal	99.999%	4% HNO_3 10% HCl			
X10M 20-5	Germanium	Ge metal	99.999%	15% Oxalic acid			
X10M 21-2	Gold	Au metal	99.999%	10% HCl			
X10M 22-3	Hafnium	Hf metal	99.9+%	10% HNO_3 + 2% HF			
X10M 23-1 X10M 23-2	Holmium	Ho_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 24-1 X10M 24-2	Indium	In metal	99.999%	4% HNO_3 10% HCl			
X10M 26-1	Iron	Fe metal	99.999%	4% HNO_3			

CATALOG NO.	ELEMENT	SOURCE	PURITY	MATRIX	100 mL	250 mL	500 mL
X10M 26-2				10% HCl			
X10M 27-1 X10M 27-2	Lanthanum	La_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 28-1	Lead	Pb metal	99.995%	4% HNO_3			
X10M 29-1 X10M 29-2	Lithium	Li_2CO_3 LiCl	99.999%	1% HNO_3 1% HCl			
X10M 30-1 X10M 30-2	Lutetium	Lu_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 31-1 X10M 31-2	Magnesium	Mg metal	99.99%	4% HNO_3 10% HCl			
X10M 32-1 X10M 32-2	Manganese	Mn metal	99.99%	4% HNO_3 10% HCl			
X10M 33-1	Mercury	Hg metal	99.998%	4% HNO_3			
X10M 34-2 X10M 34-3	Molybdenum	Mo metal	99.999%	10% HCl 4% HNO_3 + 2% HF			
X10M 35-1 X10M 35-2	Neodymium	Nd_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 36-1 X10M 36-2	Nickel	Ni metal	99.999%	4% HNO_3 10% HCl			
X10M 37-3	Niobium	Nb metal	99.99%	4% HNO_3 + 1% HF			
X10M 38-1 X10M 38-2	Palladium	Pd metal	99.99%	4% HNO_3 10% HCl			
X10M 39-1	Phosphorus	$NH_4H_2PO_4$	99.99+%	0.05% HNO_3			
X10M 40-2	Platinum	Pt metal	99.99%	10% HCl			
X10M 41-1 X10M 41-2	Potassium	KNO_3 KCl	99.999% 99.99%	1% HNO_3 1% HCl			
X10M 42-1 X10M 42-2	Praseodymium	Pr_6O_{11}	99.99%	4% HNO_3 10% HCl			
X10M 43-1	Rhenium	Re metal	99.99%	4% HNO_3			
X10M 45-1 X10M 45-2	Rubidium	$RbNO_3$ RbCl	99.95%	1% HNO_3 1% HCl			
X10M 47-1 X10M 47-2	Samarium	Sm_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 48-1 X10M 48-2	Scandium	Sc_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 49-1 X10M 49-2	Selenium	Se metal	99.99%	5% HNO_3 10% HCl			
X10M 50-4 X10M 50-4F	Silicon	Na_2SiO_3 $(NH_4)_2SiF_6$	99.99% 99.98%	H_2O H_2O			
X10M 51-1	Silver	Ag metal	99.999%	4% HNO_3			
X10M 52-1 X10M 52-2	Sodium	$NaNO_3$ NaCl	99.99+% 99.99+%	1% HNO_3 1% HCl			
X10M 53-1 X10M 53-2	Strontium	$SrCO_3$	99.999%	4% HNO_3 10% HCl			
X10M 54-5	Sulfur	H_2SO_4	99.999%	H_2O			
X10M 55-3	Tantalum	Ta metal	99.99%	5% HNO_3 + 2% HF			
X10M 56-2	Tellurium	Te metal	99.99%	40% HCl			
X10M 57-1 X10M 57-2	Terbium	Tb_4O_7	99.99%	4% HNO_3 10% HCl			
X10M 58-1	Thallium	Tl metal	99.999%	4% HNO_3			
X10M 59-1	Thorium	ThO_2	99.99%	4% HNO_3			
X10M 60-1 X10M 60-2	Thulium	Tm_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 61-2 X10M 61-3	Tin	Sn metal	99.998%	60% HCl 5% HNO_3 + 2% HF			
X10M 62-2 X10M 62-3	Titanium	Ti metal	99.99%	40% HCl 5% HNO_3 + 2% HF			
X10M 63-3	Tungsten	W metal	99.99%	5% HNO_3 + 2% HF			
X10M 64-1	Uranium	U_3O_8	99.968%	4% HNO_3			
*X5M 65-1	Vanadium	NH_4VO_3	99.99%	5% HNO_3			
X10M 66-1 X10M 66-2	Ytterbium	Yb_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 67-1 X10M 67-2	Yttrium	Y_2O_3	99.99%	4% HNO_3 10% HCl			
X10M 68-1 X10M 68-2	Zinc	Zn metal	99.999%	4% HNO_3 10% HCl			
X10M 69-3	Zirconium	Zr metal	99.998%	5% HNO_3 + 2% HF			

*Available in concentrations of 5,000ug/mL only.

ICP MULTI-ELEMENT STANDARDS - EPA METHOD 200.7 CALIBRATION STANDARDS

Catalog No.	Element	Concentration	Element	Concentration	Matrix	Volume
XICP-200.7-6	Al	20 µg/mL	Mn	20 µg/mL	2% HNO_3	100 mL
	Sb	20	Hg*	20	+ Tr HF	250 mL
	As	20	Mo	20		500 mL
	Ba	20	Ni	20		
	Be	20	P	100		
	B	20	K	100		
	Cd	20	Se	20		
	Ca	20	Si	100		
	Cr	20	Ag	5		
	Co	20	Na	20		
	Cu	20	Sr	20		
	Fe	20	Tl	20		
	Pb	20	Sn	20	*Shipped Separately	
	Li	20	V	20		
	Mg	20	Zn	20		
XICP-200.7-7	Ba	100 µg/mL	Fe	X1000 µg/mL	2% HNO_3	100 mL
	Co	100	V	100		250 mL
	Cu	100				500 mL
XICP-200.7-8	Al	200 µg/mL	Mn	50 µg/mL		100 mL
	Ba	50	Mo	50		250 mL
	Be	50	Ni	50		500 mL
	Cd	50	Sn	50		
	Ca	50	SiO_2	50		
	Co	50	Ti	50		
	Cr	50	Tl	50		
	Cu	50	V	50		
	Fe	300				

Please add to the catalog number -A for 100mL, -B for 250mL and -C for 500mL.

ICP MULTI-ELEMENT STANDARDS - QUALITY CONTROL STANDARDS

Catalog No.	Element	Concentration	Element	Concentration	Element	Concentration	Matrix	Volume
XQCS-1	Al	100 µg/mL	Co	100 µg/mL	K	100 µg/mL	5% HNO_3	100 mL
	As	100	Fe	100	Se	100	+ Tr HF	250 mL
	Ba	100	Li	100	Si	100		500 mL
	Be	100	Mg	100	S *	100		
	B	100	Mn	100	U	100		
	Cd	100	Mo	100	V	100		
	Ca	100	Ni	100	Y	500		
	Cr	100	P	100	Zn	100	*Shipped Separately	
XQCS-2	Sb	100 µg/mL	Sn	100 µg/mL			5% HCl	100 mL
	Na	100	Y	500				250 mL
								500 mL
XQCS-3	Cu	100 µg/mL	Ag	100 µg/mL	Y	500 µg/mL	5% HNO_3	100 mL
	Pb	100	Tl	100				250 mL
								500 mL
XQCS-7	Al	100 µg/mL	K	1000 µg/mL	Ag	100 µg/mL	5% HNO_3	100 mL
	Ba	100	Si	50	Na	100		250 mL
	B	100						500 mL
XQCS-7-M	Al	100 µg/mL	K	1000 µg/mL	Ag	50 µg/mL	5% HNO_3	100 mL
	Ba	100	Si	100	Na	100		250 mL
	B	100						500 mL
XQCS-19	Sb	100 µg/mL	Cu	100 µg/mL	Ni	100 µg/mL	5% HNO_3	100 mL
	As	100	Fe	100	Se	100	+ Tr HF	250 mL
	Be	100	Pb	100	Tl	100		500 mL
	Cd	100	Mg	100	Ti	100		
	Ca	100	Mn	100	V	100		
	Cr	100	Mo	100	Zn	100		
	Co	100						
XQCS-26	Al	100 µg/mL	Cr	100 µg/mL	Pb	100 µg/mL	5% HNO_3	100 mL
	Ag	100	Cu	100	Sb	100	+ Tr HF	250 mL
	As	100	Fe	100	Se	100		500 mL
	B	100	K	X1000	Si	50		
	Ba	100	Mg	100	Ti	100		
	Be	100	Mn	100	Tl	100		
	Ca	100	Mo	100	V	100		
	Cd	100	Na	100	Zn	100		
	Co	100	Ni	100				

Please add to the catalog number -A for 100mL, -B for 250mL and -C for 500mL.

ICP MULTI-ELEMENT STANDARDS – SPIKING SOLUTIONS FOR WATER & SOIL SAMPLES

Catalog No.	Matrix	Volume
XICP-SSWS	5% HNO_3 + Tr HF Al 200 µg/mL Sb 50 As 200 Ba 200 Be 5 Cd 5 Cr 20 Co 50 Cu 25 Pb 100 µg/mL Mn 50 Ni 50 Se 50 Ag 200 Tl 5 V 200 Zn 50	100 mL 250 mL 500 mL
XICP-SSWS-M	5% HNO_3 + Tr HF Al 200 µg/mL Sb 50 As 4 Ba 200 Be 5 Cd 5 Cr 20 Co 50 Cu 25 Fe 2 Pb 50 Mn 50 Ni 1 Se 5 Ag 5 Tl 50 V 50 Zn 100µg/mL	100 mL 250 mL 500 mL
XAAS-SSWS	5% HNO_3 + Tr HF Sb 10.0 ug/mL As 4.0 Cd 0.5 Pb 2.0 Se 1.0 Tl 5.0	100 mL 250 mL 500 mL

Please add to the catalog number -A for 100mL, -B for 250mL and -C for 500mL.

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ICP MULTI-ELEMENT STANDARDS – PRIMARY DRINKING WATER METALS

Catalog No.	Matrix	Volume
XDWPS	2% HNO_3 As 100 µg/mL Ba 50 Cd 50 Cr 100 Pb 100 µg/mL Hg* 20 Se 50 Ag 10 *Shipped Separately	100 mL 250 mL 500 mL

ICP MULTI-ELEMENT STANDARDS – SECONDARY DRINKING WATER METALS

Catalog No.	Matrix	Volume
XDWSS	2% HNO_3 Cu 50 µg/mL Fe 100 Mn 50 Zn 50	100 mL 250 mL 500 mL

ICP MULTI-ELEMENT STANDARDS – SIMULATED RAINWATER

The following Simulated Rainwater Standards are available in 250 mL, packaged as 5 x 50 mL bottles. The concentrations shown below are the targeted values for each level.

Catalog No.	XSR LEVEL I	XSR LEVEL II
pH, 25°C	4.3	3.6
Specific Conductance (µs/cm, 25°C)	26	130
Components:_____	mg/L	mg/L
Fluoride	0.05	0.10
Chloride	0.20	1.00
Nitrate	0.50	7.0
Sulfate	2.00	11.00
Sodium	0.20	0.40
Potassium	0.05	0.10
Ammonium	0.50	1.00
Calcium	0.01	0.05
Magnesium	0.02	0.05
Volume	250mL	250mL
(shipped as)	5x50mL	5x50mL

ICP MULTI-ELEMENT STANDARDS - INITIAL CHECK VERIFICATION STANDARDS

All of the following standards are prepared from high-purity metals or salts in subboiling distilled acids and packaged in 100, 250, and 500 mL HDPE laboratory grade bottles.

The accuracy of all standards is certified to ± 0.5% of the stated concentrations against NIST SRM Spectrometric Standard Solutions. The NIST SRM 3100 series is referenced on each Certificate of Analysis. Each standard is accompanied by a Certificate of Analysis and a Material Safety Data Sheet. ***Please add to the catalog number -A for 100mL, -B for 250mL and -C for 500mL.***

Catalog No.	Elements	Concentration	Elements	Concentration	Elements	Concentration	Matrix
		µg/mL		µg/mL		µg/mL	5% HNO_3 + Tr HF
XICV-I	Al	100	Cu	100	Se	200	
	As	100	Fe	100	Si*	100	**Volume**
	Ba	50	Pb	100	Na*	162	100mL
	Be	50	Li	100	S*	200	250mL
	Bi	100	Mg	100	Sr	100	500mL
	B	100	Mn	50	Tl	100	
	Cd	50	Mo	100	V	50	
	Ca	100	Ni	100	Zn	50	
	Cr	50	P	200	*Shipped Separately		
	Co	50	K	200			
XICV-II	Sb	100			**Matrix**		**Volume**
	Sn	100			15% HCl		100mL
	Ti	100					250mL
							500mL
XICV-III	Au	50			**Matrix**		**Volume**
	Pd	50			5% HCl		100mL
	Pt	50					250mL
							500mL

CERTIFIED REFERENCE MATERIALS - CERTIFIED WASTE WATER - TRACE METALS SOLUTIONS

HPS is offering a series of certified reference solutions which simulate the concentrations found in a variety of materials. These solutions, which are directly traceable to NIST, may be used in laboratory performance evaluation, quality control, and method development. All of the following solutions are certified to ± 0.5% and are ideally suited for AAS, ICP, and ICP-MS.

Listed below are the concentrations that will be found when each sample is diluted to **one liter**.

CATALOG NO.	XCWW-TM-A	XCWW-TM-B	XCWW-TM-C	XCWW-TM-D	XCWW-TM-E	XCWW-TM-F	XCWW-TM-G	XCWW-TM-H
MATRIX	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF	10% HNO_3 + Tr HF
ELEMENTS:_____	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Aluminum	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.100
Antimony	0.010	0.050	0.150	0.250	0.005	0.250	0.005	0.200
Arsenic	0.010	0.050	0.150	0.250	0.005	0.005	0.250	0.100
Barium	0.050	0.200	0.500	1.00	0.025	1.00	0.025	0.100
Beryllium	0.010	0.050	0.150	0.250	0.005	0.005	0.250	0.020
Boron	0.050	0.200	0.500	1.00	0.025	1.00	0.025	0.250
Cadmium	0.010	0.050	0.150	0.250	0.025	0.005	0.250	0.100
Chromium	0.050	0.200	0.500	1.00	0.025	1.00	0.025	0.50
Cobalt	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.500
Copper	0.050	0.200	0.500	1.00	0.025	1.00	0.025	0.500
Iron	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.250
Lead	0.050	0.200	0.500	1.00	0.025	1.00	0.025	0.500
Manganese	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.100
Mercury*	0.0010	0.0050	0.010	0.02	0.001	0.020	0.005	0.0010
Molybdenum	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.100
Nickel	0.050	0.200	0.500	1.00	0.025	1.00	0.250	0.500
Selenium	0.010	0.050	0.150	0.250	0.005	0.005	0.250	0.050
Silver	0.010	0.050	0.150	0.250	0.005	0.250	0.005	0.020
Strontium	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.100
Thallium	0.010	0.050	0.150	0.250	0.005	0.025	0.005	0.250
Vanadium	0.050	0.200	0.500	1.00	0.025	0.025	1.00	0.500
Zinc	0.050	0.200	0.500	1.00	0.025	1.000	0.025	0.500
VOLUME PRICE	10mL	10mL	10mL	10mL	10mL	10mL	10mL	10mL

*The concentration of Mercury cannot be guaranteed for any extended period of time due to the nature of the element.

CERTIFIED REFERENCE MATERIALS - CERTIFIED WASTE WATER - CYANIDE SOLUTIONS

Listed below are the concentrations that will be found when each 10 mL sample is diluted to **two liters**.

CATALOG NO.	XCWW-CN-A	XCWW-CN-B	XCWW-CN-C	XCWW-CN-D	XCWW-CN-E	XCWW-CN-F
COMPONENTS:_____	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Complexed Cyanide	0.025	0.100	0.500	0.020	0.200	0.350
Free Cyanide	0.025	0.100	0.500	0.020	0.200	0.350
Total Cyanide	0.050	0.200	1.000	0.040	0.400	0.700
VOLUME PRICE	10mL	10mL	10mL	10mL	10mL	10mL

CERTIFIED REFERENCE MATERIALS - CERTIFIED WASTE WATER - NUTRIENTS SOLUTIONS

Listed below are the concentrations that will be found when each 10 mL sample is diluted to **one liter**.

CATALOG NO.	XCWW-N-A	XCWW-N-B	XCWW-N-C
COMPONENTS:_____	µg/mL	µg/mL	µg/mL
Nitrogen from NH_4Cl + $NH_4H_2PO_4$	1	15	25
Nitrogen from $NaNO_2$ + $NaNO_3$	1	15	25
Phosphorus from $NH_4H_2PO_4$	1	5	10
VOLUME PRICE	10mL	10mL	10mL

CERTIFIED REFERENCE MATERIALS - CERTIFIED WASTE WATER - DEMAND SOLUTIONS

Listed below are the concentrations that will be found when each 5 mL sample is diluted to **one liter**.

CATALOG NO.	XCWW-TOC-A	XCWW-TOC-B	XCWW-TOC-C	XCWW-TOC-D	XCWWTOC-E
COMPONENTS:_____	µg/mL	µg/mL	µg/mL	µg/mL	µg/mL
Table of Contents	1	10	20	3	40
VOLUME PRICE	5mL	5mL	5mL	5mL	5mL

ISOTOPE LABELED COMPOUNDS

Chem Service is proud to announce the addition of over 700 stable isotope labeled compounds to our offering.

All Standards: A Certificate of Analysis (COA) and a Material Safety Data Sheet (MSDS) are supplied with each domestic shipment. A COA is supplied with each international shipment. Additional information may be available upon request.

Solution Standards: Concentration is guaranteed to be within +/- 10% of the stated value, unless otherwise stated.

Crystalline/Neat Standards: Vials contain approximately the stated amount. Stated weights should not be used to prepare quantitative standards. Material should be weighed by the customer before standard formation.

Labeled standards: Isotopic enrichments are 99% for Carbon-13, 98% for deuterium and 96% for Chlorine-37, unless otherwise specified. Chemical purities are 95-99%, unless otherwise specified.

FC1S	Acenaphthene ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC77S	Acenaphthylene ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD77-A	Acenaphthylene (d_8)	0.1g
FD77S	Acenaphthylene (d_8) Solution (200ug/mL in-Isooctane)	1.2mL
O-D2001-A	Acridine (d_9)	0.1g
O-D2001-B	Acridine (d_9)	0.5g
FC3-A	Acrylonitrile ($^{13}C_3$)	0.1g
FD3-1	Acrylonitrile (d_3)	1g
FD3-5	Acrylonitrile (d_3)	5g
FC2072S	Alachlor (ring ^{13}C) Solution (100ug/mL in n—Nonane)	1.2mL
FC89S	Aldrin ® (random-$^{13}C_4$) Solution (100ug/mL in n—Nonane)	1.2mL
FC701-A	Aniline ($^{13}C_6$)	0.1g
FC701-C	Aniline ($^{13}C_6$)	0.25g
FC78S	Anthracene ($^{13}C_6$) Solution (100ug/mL in-n—Nonane)	1.2mL
FC2208S	Atrazine ($^{13}C_3$) Solution (100ug/mL in-n-Nonane)	1.2mL
FD2208S	Atrazine (ethylamine-d5) Solution (100ug/mL in-n—Nonane)	1.2mL
FD2208-5	Atrazine (ethylamine-d_5)	5mg
FC72S	Benz[a]anthracene ($^{13}C_6$) Solution (100ug/mL in-n—Nonane)	1.2mL
FD72-1	Benz[a]anthracene (d_{12})	1g
FD72-A	Benz[a]anthracene (d_{12})	0.1g
FD72S	1.2-Benzanthracene (d_{12}) Solution (200ug/mL in-Isooctane)	1.2mL
FC4-A	Benzene ($^{13}C_6$)	0.1g
FC4-B	Benzene ($^{13}C_6$)	0.5g
FD4-5	Benzene (d_1)	5g
FC74S	Benzo(b)fluoranthene ($^{13}C_6$) Solution (100ug/mL in-n-Nonane)	1.2mL
FD74S	Benzo(b)fluoranthene (d_{12})Solution (200ug/mL in-Isooctane)	1.2mL
FD74-E	Benzo(b)fluoranthene (d_{12})	0.01g
FC75S	Benzo(k)fluoranthene ($^{13}C_6$) Solution (100ug/mL in-n-Nonane)	1.2mL
FD75S	Benzo(k)fluoranthene (d_{12}) Solution (200ug/mL in-Isooctane)	1.2mL
FD75-E	Benzo(k)fluoranthene (d_{12})	0.01g
FD702-1	Benzoic acid (d_5)	1g
FD702-5	Benzoic acid (d_5)	5g
FC79S	1.12-Benzoperylene ($^{13}C_{12}$) Solution (100ug/mL in-n-Nonane)	1.2mL
FD79S	Benzo[g,h,i]perylene Solution (d_{12}) (200ug/mL in-Isooctane)	1.2mL
FD79-E	Benzo[g,h,i]perylene (d_{12})	0.01g
FD2277S	Benzophenone (d_{10}) Solution (100ug/mL in n-Nonane)-	1.2mL
FD73S	Benzo(a)pyrene (d_{12}) Solution (200ug/mL in-Isooctane)	1.2mL
FD73-E	Benzo(a)pyrene (d_{12})	0.01g
FD73-D	Benzo(a)pyrene (d_{12})	0.05g
FD73-A	Benzo(a)pyrene (d_{12})	0.1g
FD1003S	Benzo(e)pyrene (d_{12}) Solution (200ug/mL in-Isooctane)	1.2mL
FD1003-E	Benzo(e)pyrene (d_{12})	0.01g
FC102S	BHC (alpha isomer) ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC103S	BHC (beta isomer) ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC105S	BHC (delta isomer) ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC1062S	Biphenyl ($^{13}C_{12}$) Solution (100ug/mL in n-Nonane)	1.2mL
FD1062-1	Biphenyl (d_{10})	1g
FD1062-5	Biphenyl (d_{10})	5g
FC2225S	2-Biphenylol (phenyl-$^{13}C_6$) Solution (100ug/mL in-n-Nonane)	1.2mL
FD43-A	Bis(2-chloroethoxy)methane (chloroethoxy-d_8)	0.1g
FD18-D	Bis(2-chloroethyl)ether (d_8)	0.05g
FD18-A	Bis(2-chloroethyl)ether (d_8)	0.1g
FD18S	Bis(2-chloroethyl)ether (d_8) Solution(100mg/L)- (100ug/mL in De-ionized water)	POR
FC2074S	Bis(2-ethylhexyl)adipate (adipate-$^{13}C_6$) Solution- (100ug/mL in n-Nonane)	1.2mL
FD66S	Bis(2-ethylhexyl)phthalate (ring-d_4) Solution- (100ug/mL in n-Nonane)	1.2mL
FD66-A	Bis(2-ethylhexyl)phthalate (ring-d_4)	0.1g
FD66-C	Bis(2-ethylhexyl)phthalate (ring-d_4)	0.25g
FC802-B	Bromobenzene ($^{13}C_6$)	0.5g
FD$_8$02-5	Bromobenzene (d_5)	5g
FD$_8$02-10	Bromobenzene (d_5)	10g
FD206-A	Bromochloromethane (d_2)	0.1g
O-D640-10	Bromoethane (d_5)	10g
O-C2406-C	2-Bromoethanol (1,2-$^{13}C_2$)	0.25g
O-D2406-1	2-Bromoethanol (1,1,2,2-d_4)	1g

O-D2406-5	2-Bromoethanol (1,1,2,2-d_4)	5g
FC47-A	Bromoform (^{13}C)	0.1g
FC47-B	Bromoform (^{13}C)	0.5g
FD47-B	Bromoform (d)	10g
FD41-A	4-Bromophenyl phenyl ether (phenyl-d_5)	0.1g
FD41-B	4-Bromophenyl phenyl ether (phenyl-d_5)	0.1g
FC2093S	Bromoxynil (ring $^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD704-A	2-Butanone (4,4,4-d_3)	0.1g
FD704-1	2-Butanone (4,4,4-d_3)	1g
FC815S	n-Butylbenzene (ring-$^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD67S	Butyl benzyl phthalate (ring-d_4) Solution- (100ug/mL in n-Nonane)	1.2mL
FC2005S	Carbaryl (ring-$^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD2001-A	Carbazole (ring-d_8)	0.1g
FC2006S	Carbofuran (ring $^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC6-A	Carbon tetrachloride (^{13}C)	0.1g
FC6-B	Carbon tetrachloride (^{13}C)	0.5g
FC6-1	Carbon tetrachloride (^{13}C)	1g
O-C902-1	Catechol ($^{13}C_6$)	1g
O-C902-5	Catechol ($^{13}C_6$)	5g
FC91S	Chlordane (random-$^{13}C1$) Solution (100ug/mL in n—Nonane)	1.2mL
FC91S	Chlordane (random-$^{13}C1$) Solution (100ug/mL in n—Nonane)	1.2mL
FC908S	trans-Chlordane ($^{13}C_{10}$) Solution (100ug/mL in n—Nonane)	1.2mL
FD2012-B	2-Chloroethanol (1,1,2,2-d_4)	0.5g
FD2012S	2-Chloroethanol (1,1,2,2-d_4) Solution (100mg/L)-(100ug/mL in De-ionized water)	POR
FC23-A	Chloroform (^{13}C)	0.1g
FC23-B	Chloroform (^{13}C)	0.5g
FC23-1	Chloroform (^{13}C)	1g
FD22-E	4-Chloro-3-methylphenol (ring-2,6-d_2)	0.01g
FD22-A	4-Chloro-3-methylphenol (ring-2,6-d2)	0.1g
FD20-E	2-Chloronaphthalene (d_7)	0.01g
FD20-A	2-Chloronaphthalene (d_7)	0.1g
FD24-E	2-Chlorophenol (ring-d_4)	0.01g
FD24-C	2-Chlorophenol (ring-d_4)	0.25g
FD40-A	4-Chlorophenyl phenyl ether (phenyl-d5)	0.1g
FD2057S	Chlorpyrifos (diethyl-d_{10}) Solution (100ug/mL in-n-Nonane)	1.2mL
FC76S	Chrysene ($^{13}C_6$) (100ug/mL in n-Nonane)	1.2mL
FD1007S	Coronene (d_{12}) Solution (200ug/mL in Isooctane)	1.2mL
FD1007-A	Coronene (d_{12})	0.1g
O-$D_8$70-5	o-Cresol (d_8)	5g
O-$D_8$72-5	p-Cresol (d_8)	5g
O-C695-A	Cyanuric acid ($^{13}C3$)	0.1g
FD94S	4.4′-DDD (ring-d_8) Solution (100ug/mL in n-Nonane)	1.2mL
FC2306S	o.p′-DDE ($^{13}C_{12}$) Solution (100ug/mL in n-Nonane)	1.2mL
FC93S	4.4′-DDE ($^{13}C_{12}$) Solution (100ug/mL in n-Nonane)	1.2mL
FC93-5	4.4′-DDE ($^{13}C_{12}$)	5mg
FC2307S	o.p′-DDT ($^{13}C_{12}$) Solution (100ug/mL in n-Nonane)	1.2mL
FC92S	4.4′-DDT ($^{13}C_{12}$) Solution (100ug/mL in n-Nonane)	1.2mL
FC92-5	4.4′-DDT ($^{13}C_{12}$)	5mg
O-D744-1	Decalin (d_{18})	1g
O-D744-5	Decalin (d_{18})	5g
FD2182-1	n-Decane (d_{22})	1g
FD2182-5	n-Decane (d_{22})	5g
FD2060S	Diazinon (diethyl-d_{10}) Solution (100ug/mL in n—Nonane)	1.2mL
FD2247S	Dibenz(a,j)acridine (d^{13}) Solution (50ug/mL in-Toluene)	1.2mL
FC82S	Dibenz[a,h]anthracene ($^{13}C_6$) Solution (100ug/mL-in n-Nonane)	1.2mL
$FD_8$2S	Dibenz[a,h]anthracene (d_{14}) Solution (200ug/mL-in Toluene)	1.2mL
$FD_8$2-A	Dibenz[a,h]anthracene (d_{14})	0.1g
FC7003S	Dibenzo-p-dioxane ($^{13}C_{12}$) Solution (50ug/mL in n—Nonane)	1.2mL
FC707S	Dibenzofuran ($^{13}C_{12}$) Solution (50ug/mL in n—Nonane)	1.2mL
FD707-D	Dibenzofuran (d_8)	0.05g
FD2171-A	Dibenzothiophene (d_8)	0.1g
FC1010S	1.2:4.5-Dibenzpyrene ($^{13}C_6$) Solution (100ug/mL-in n-Nonane)	1.2mL
FC1011S	Dibenzo[a,i]pyrene ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC820-A	1.2-Dibromoethane (1,2-$^{13}C_2$)	0.1g
FC820-1	1.2-Dibromoethane (1,2-$^{13}C_2$)	1g
$FD_8$20-10	1.2-Dibromoethane (d_4)	10g
FD68S	Di-n-butyl phthalate (ring-d_4) Solution (100ug/mL-in n-Nonane)	1.2mL
FD68-A	Di-n-butyl phthalate (ring-d_4)	0.1g
FD68-C	Di-n-butyl phthalate (ring-d_4)	0.25g
FC2506-1	3,4-Dichloroaniline ($^{13}C_6$)	1g
FD28S	3.3′-Dichlorobenzidine (ring-d_6) Solution-(1000ug/mL in Benzene)	1.2mL
FD^{13}-A	1.1-Dichloroethane (2,2,2-d_3)	0.1g
FD31-A	2.4-Dichlorophenol (ring-d_3)	0.1g
FC31S	2.4-Dichlorophenol ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD31-C	2.4-Dichlorophenol (ring-d_3)	0.25g
FD31A	2.4-Dichlorophenol (ring-d_3)	0.1g
FC7000S	2.4-Dichlorophenoxyacetic acid (ring-$^{13}C_6$)- Solution (100ug/mL in Methylene chloride)	1.2mL
FD700-5	2.4-Dichlorophenoxyacetic acid (ring-d_3)	5mg
FD32-A	1.2-Dichloropropane (d_6)	0.1g
FC962S	Dichlorprop (ring-$^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD2061-E	Dichlorvos (dimethyl-d_6)	0.01g
FC2262S	Dicyclohexyl phthalate (ring-1,2-$^{13}C_2$,dicarboxyl—$^{13}C_2$) Solution (100ug/mL in n-Nonane) [ampu	1.2mL
FC90S	Dieldrin (random-$^{13}C4$) Solution	

	(100ug/mL in n—Nonane)	1.2mL
FD70S	Diethyl phthalate (ring-d_4) Solution (100ug/mL-in n-Nonane)	1.2mL
FD70-A	Diethyl phthalate (ring-d_4)	0.1g
FD70-C	Diethyl phthalate (ring-d_4)	0.25g
FC2314S	Di-n-hexyl phthalate (ring-1,2-$^{13}C_2$, dicarboxyl—$^{13}C_2$) Solution (100ug/mL in n-Nonane)	1.2mL
FD1015S	9.10-Dimethylanthracene(d_{14}) (50ug/mL in Toluene)	1.2mL
FD918S	7.12-Dimethylbenz(a)anthracene (d_{16}) Solution-(50ug/mL in Methylene chloride)	1.2mL
FC2532-B	N.N-Dimethylformamide (carbonyl-$^{13}C_1$)	0.5g
FC2532-1	N.N-Dimethylformamide (carbonyl-$^{13}C_1$)	1g
FD1025S	1.8-Dimethyl naphthalene (d_{12}) Solution (50ug/mL-in Toluene)	1.2mL
FD1024S	2.6-Dimethylnaphthalene (d_{12}) Solution (50ug/mL-in Toluene)	1.2mL
FD34-A	2.4-Dimethylphenol (ring-d_3)	0.1g
FD34-C	2.4-Dimethylphenol (ring-d_3)	0.25g
FD71S	Dimethyl phthalate (ring-d_4) Solution (100ug/mL-in n-Nonane)	1.2mL
FD71-A	Dimethyl phthalate (ring-d_4)	0.1g
FD59-A	2.4-Dinitrophenol (ring-d_3)	0.1g
FC35S	2.4-Dinitrotoluene ($^{13}C_4$) Solution (100ug/mL in n—Nonane)	1.2mL
FD35S	2.4-Dinitrotoluene (ring-d_3) Solution (100ug/mL-in n-Nonane)	1.2mL
FD36S	2.6-Dinitrotoluene (methyl-d_3) Solution (100ug/mL-in n-Nonane)	1.2mL
FC2109S	Dinocap (ring-$^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FD69S	Di-n-octyl phthalate (ring-d_4) Solution-(100ug/mL in n-Nonane)	1.2mL
FD69-A	Di-n-octyl phthalate (ring-d_4)	0.1g
FD978-5	1.4-Dioxane (d_8)	5g
FD978-10	1.4-Dioxane (d_8)	10g
FC2263S	Di-n-pentyl phthalate (ring-1,2-$^{13}C_2$, dicarboxyl—^{13}C2) Solution (100ug/mL in n-Nonane)	1.2mL
FD992-A	Diphenylamine (diphenyl-d_{10})	0.1g
FC2158S	Di-n-propyl phthalate (ring-1,2-$^{13}C_2$, dicarboxyl—^{13}C2) Solution (100ug/mL in n-Nonane)	1.2mL
FD2000-1	n-Dodecane (d_{26})	1g
FD2000-5	n-Dodecane (d_{26})	5g
O-D2095-1	n-Dotriacontane (d_{66})	1g
FD1063-5	Durene (d_{14})	5g
FD2183-B	n-Eicosane (d_{42})	0.5g
FD2183-1	n-Eicosane (d_{42})	1g
FC202S	a-Endosulfan ($^{13}C_9$) Solution (100ug/mL in n—Nonane)	1.2mL
FD202S	a-Endosulfan (d_4) Solution (100ug/mL in n-Nonane)	1.2mL
FD202-E	a-Endosulfan (d_4)	0.01g
FC203S	b-Endosulfan ($^{13}C_9$) Solution (100ug/mL in n—Nonane)	1.2mL
FD203S	b-Endosulfan (d_4) Solution (100ug/mL in n-Nonane)	1.2mL
FD203-5	b-Endosulfan (d_4)	5mg
FC2016S	Epichlorohydrin ($^{13}C_3$) Solution (100ug/mL in-Acetonitrile)	1.2mL
FD2016-1	Epichlorohydrin (d5)	1g
FD38-5	Ethylbenzene (ring-d_5)	5g
FD977-1	Ethyl ether (d_{10})	1g
FD9977-5	Ethyl ether (d_{10})	5g
FD2423S	Fenitrothion (o,o-dimethyl-d_6) Solution (100ug/mL-in n-Nonane)	1.2mL
FC39S	Fluoranthene ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC80S	Fluorene ($^{13}C_6$) Solution (100ug/mL in n-Nonane)	1.2mL
$FD_8$0S	Fluorene (d_{10}) Solution (200ug/mL in Isooctane)	1.2mL
$FD_8$0-A	Fluorene (d_{10})	0.1g
$FD_8$0-1	Fluorene (d_{10})	1g
FCN1104S	Glyphosate (2-^{13}C, ^{15}N) Solution (115ug/mL in De—ionized water)	1.2mL
FC7004-1	Guaiacol (ring-$^{13}C_6$)	1g
FC100S	Heptachlor ($^{13}C_1$) Solution (100ug/mL in n-Nonane)	1.2mL
FC100AS	Heptachlor ($^{13}C_4$) Solution (100ug/mL in n-Nonane)	1.2mL
FC101S	Heptachlor epoxide (Isomer B) (^{13}C1) Solution- (100ug/mL in n-Nonane)	1.2mL
O-D2110-5	n-Heptadecane (d_{36})	5g
FC9S	Hexachlorobenzene ($^{13}C_6$) Solution (100ug/mL in n—Nonane)	1.2mL
FC9-E	Hexachlorobenzene ($^{13}C_6$)	0.01g
FC53-5	Hexachlorocyclopentadiene ($^{13}C_4$)	5g
FC53-10	Hexachlorocyclopentadiene ($^{13}C_4$)	10g
FC12-A	Hexachloroethane (1-^{13}C)	0.1g
FC12-B	Hexachloroethane (1-^{13}C)	0.5g
FD2185-A	n-Hexadecane (d_{34})	0.1g
FD2185-5	n-Hexadecane (d_{34})	5g
FC2471S	Hexahydro-1,3,5-trinitro-1,3,5-triazine ($^{13}C_3$)-Solution (100ug/mL in n-Nonane)	1.2mL
O-D7-A	Hexanoic acid (d_{11})	0.1g
O-D7-1	Hexanoic acid (d_{11})	1g
O-D2128-1	n-Hexatriacontane (d_{74})	1g
FC2597	$^{13}C_{12}$ -1,2,3,4,6,7,8-HpCDF	POR
FC2585	$^{13}C_{12}$ -1,2,3,6,7,8-HxCDD	POR

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
50-00-0	PS-2031	56-49-5	F924	60-35-5	O-248	69-72-7	F2266	75-64-9	O-276	78-59-1	F54	81-21-0	3733F
50-00-0	O-229	56-54-2	7386F	60-51-5	PS-659	69-89-6	8774F	75-65-0	O-145	78-66-0	S-362	81-23-2	3396F
50-00-0	F2328	56-55-3	F72	60-51-5	F989	69-93-2	O-990	75-65-0	F2535	78-67-1	O-384	81-25-4	1405L
50-01-1	O-600	56-57-5	F929	60-56-0	5925K	70-11-1	2290	75-66-1	O-2013	78-70-6	4126F	81-30-1	6087A
50-14-6	V-17	56-72-4	PS-656	60-57-1	PS-76	70-18-8	4955	75-69-4	F49	78-75-1	O-634	81-33-4	6820H
50-21-5	O-51	56-72-4	F2058	60-57-1	F90	70-23-5	4268K	75-75-2	O-957	78-75-1	F2562	81-54-9	BS-88
50-28-2	4440E	56-81-5	O-195	60-80-0	2021F	70-25-7	O-2392	75-80-9	8985K	78-76-2	O-602	81-61-8	BS-89
50-29-3	PS-699	56-84-8	2028F	61-73-4	BS-82	70-30-4	PS-1035	75-81-0	O-632	78-77-3	O-613	81-64-1	BS-87
50-29-3	F92	56-85-9	4981H	61-78-9	1739D	70-30-4	F995	75-83-2	O-738	78-78-4	O-2144	81-81-2	PS-104
50-30-6	MET-392A	56-86-0	O-74	61-80-3	1720K	70-34-8	4240	75-84-3	6155F	78-79-5	O-1011	81-83-4	2266L
50-31-7	PS-330	56-86-0	AA-9	61-82-5	PS-382	70-49-5	O-80	75-85-4	O-141	78-81-9	O-274	81-84-5	PS-1048
50-32-8	F73	56-89-3	O-36	61-90-5	AA-13	70-53-1	5500J	75-86-5	F2393	78-82-0	O-837	81-88-9	BS-62
50-45-3	3509K	56-89-3	AA-6	62-23-7	O-119	70-55-3	8080	75-89-8	8305A	78-83-1	O-143	82-07-5	9175K
50-50-0	4449F	56-92-8	5129B	62-38-4	PS-14	70-69-9	1075L	75-96-7	F2510	78-83-1	F980	82-45-1	2357K
50-65-7	PS-1207	56-93-9	2160E	62-44-2	F912	70-70-2	5335F	75-97-8	O-2255	78-84-2	O-2014	82-66-6	PS-288
50-69-1	CARB-17	57-00-1	MET-250A	62-50-0	F919	71-00-1	5130	75-98-9	7145F	78-84-2	F2395	82-68-8	PS-150
50-70-4	O-206	57-09-0	5034F	62-53-3	O-335	71-23-8	O-167	75-99-0	PS-32	78-86-4	O-622	82-68-8	F999
50-70-4	CARB-31	57-10-3	S-6	62-53-3	F701	71-23-8	F2557	75-99-0	F956	78-87-5	PS-153	82-75-7	1849B
50-78-2	O-111	57-10-3	O-24	62-54-4	I-31	71-30-7	3320K	76-00-6	O-2319	78-87-5	O-638	82-76-8	1968F
50-79-3	3682F	57-11-4	S-7	62-55-5	O-261	71-36-3	O-142	76-01-7	F937	78-87-5	F32	83-05-6	MET-698A
50-81-7	V-16	57-11-4	O-27	62-56-6	O-988	71-36-3	O-142	76-03-9	PS-34	78-88-6	O-661	83-07-8	1659F
50-81-7	O-933	57-11-4	O-27	62-57-7	1752J	71-36-3	F2451	76-03-9	PS-34	78-89-7	3110F	83-13-6	O-524
50-84-0	3665B	57-11-4	F2568	62-73-7	PS-89	71-41-0	O-139	76-03-9	O-46	78-90-0	O-332	83-26-1	PS-905
50-85-1	5360K	57-13-6	O-989	62-73-7	FD2061-E	71-41-0	F2534	76-03-9	F2084	78-92-2	O-144	83-28-3	PS-911
50-89-5	2593L	57-14-7	O-723	62-73-7	F2061	71-43-2	O-760	76-04-0	2970B	78-93-3	O-810	83-32-9	O-782
50-99-7	O-935	57-15-8	8245B	62-74-8	PS-105	71-43-2	F4	76-05-1	O-47	78-93-3	F704	83-32-9	F1
50-99-7	CARB-8	57-24-9	F2135	62-75-9	F61	71-55-6	O-652	76-06-2	PS-4	78-94-4	6025	83-33-0	5370
51-03-6	PS-100	57-41-0	F2111	62-76-0	I-5680	71-55-6	F11	76-06-2	F2023	78-95-5	O-814	83-38-5	3671F
51-05-8	7240	57-48-7	O-937	63-25-2	PS-84	71-91-0	7820	76-09-5	O-203	78-96-6	O-302	83-40-9	5357K
51-17-2	O-693	57-48-7	CARB-10	63-25-2	F2005	72-14-0	PS-2332	76-13-1	O-2269	78-97-7	F2017	83-41-0	6594K
51-28-5	F59	57-50-1	O-939	63-68-3	5615F	72-17-3	7650F	76-13-1	F2564	79-00-5	O-653	83-42-1	3057C
51-35-4	5330H	57-50-1	CARB-20	63-74-1	O-968	72-18-4	8750H	76-22-2	Pz-162	79-00-5	F14	83-44-3	3405J
51-36-5	PS-1107	57-55-6	O-205	63-84-3	AA-7	72-19-5	2734L	76-24-4	1607F	79-01-6	O-664	83-46-5	7100F
51-36-5	F2034	57-57-8	F947	64-02-8	S-639	72-20-8	PS-77	76-39-1	6319K	79-01-6	F87	83-53-4	F2251
51-43-4	4422F	57-67-0	7750F	64-04-0	O-350	72-20-8	F98	76-44-8	PS-78	79-04-9	2855A	83-55-6	1150L
51-44-5	3678F	57-68-1	PS-2328	64-10-8	O-987	72-33-3	F2145	76-44-8	F100	79-05-0	O-256	83-56-7	O-907
51-52-5	F2133	57-71-6	2488B	64-17-5	O-151	72-43-5	PS-83	76-54-0	3683H	79-06-1	O-1000	83-72-7	5416K
51-55-8	2872L	57-74-9	PS-75	64-17-5	F979	72-43-5	F910	76-59-5	2875L	79-06-1	F2193	83-79-4	PS-99
51-56-9	1684L	57-74-9	F91	64-18-6	O-16	72-48-0	BS-85	76-60-8	2305E	79-07-2	O-258	83-79-4	F2382
51-66-1	1525F	57-88-5	S-312	64-19-7	O-4	72-54-8	PS-72	76-61-9	8037F	79-08-3	O-40	83-88-5	V-9
51-67-2	8627F	57-88-5	O-147	64-67-5	O-943	72-54-8	F94	76-83-5	3176E	79-08-3	F2085	84-11-7	6902K
51-78-5	1880B	57-97-6	F918	64-67-5	F2106	72-55-9	PS-696	76-84-6	8540	79-09-4	O-25	84-15-1	F1054
51-79-6	O-391	58-08-2	F2428	64-69-7	5357E	72-55-9	PS-696	76-87-9	PS-1031	79-10-7	O-1001	84-47-9	2599F
51-79-6	F2114	58-22-0	7785S	64-75-5	7820H	72-55-9	F93	76-89-1	6120K	79-11-8	PS-31	84-54-8	5708A
52-51-7	PS-2128	58-27-5	V-23	64-77-7	8047F	72-56-0	PS-73	76-93-7	O-102	79-11-8	O-42	84-61-7	Pz-55
52-52-8	1027L	58-36-6	6757F	65-22-5	V-2	72-56-0	F2295	77-06-5	PS-49	79-11-8	F2082	84-61-7	Pt-19
52-66-4	6765F	58-56-0	V-13	65-23-6	V-12	72-57-1	BS-137	77-09-8	6837	79-14-1	O-49	84-61-7	O-523
52-67-5	6879K	58-85-5	V-21	65-45-2	O-269	73-22-3	AA-22	77-25-8	O-479	79-16-3	O-254	84-61-7	F2262
52-68-6	PS-608	58-86-6	CARB-22	65-49-6	1895E	73-24-5	1550K	77-40-7	Ou-1	79-19-6	O-393	84-62-8	Pz-54
52-68-6	F2215	58-89-9	PS-71	65-71-4	2539L	73-40-5	4975K	77-47-4	F53	79-20-9	O-421	84-62-8	Pt-30
52-85-7	PS-671	58-89-9	F104	65-85-0	O-81	74-11-3	O-98	77-58-7	Pz-160	79-24-3	O-853	84-62-8	O-530
52-85-7	F994	58-90-2	PS-8	65-85-0	F702	74-31-7	Ou-36	77-58-7	Ou-64	79-27-6	O-2260	84-62-8	F1091
52-88-0	2031F	58-90-2	F1086	65-86-1	6800K	74-31-7	O-345	77-71-4	4085E	79-29-8	O-730	84-64-0	Pz-410
52-89-1	AA-5	59-00-7	2296L	66-22-8	2902L	74-39-5	6430F	77-73-6	PS-2033	79-31-2	O-6	84-64-0	Pt-11
52-90-4	3270H	59-23-4	O-934	66-23-9	1550	74-39-5	6430F	77-73-6	O-1007	79-34-5	O-651	84-65-1	PS-926
53-19-0	PS-694	59-23-4	CARB-7	66-25-1	O-2119	74-39-5	6394J	77-74-7	O-2188	79-34-5	F15	84-65-1	O-926
53-19-0	F2305	59-30-3	V-24	66-25-1	F2330	74-83-9	PS-155	77-75-8	O-163	79-39-0	O-1012	84-66-2	Pz-43
53-70-3	F82	59-40-5	PS-2056	66-27-3	F925	74-88-4	O-649	77-76-9	3976B	79-40-3	4400	84-66-2	Pt-20
53-96-3	F911	59-40-5	F2258	66-77-3	6070	74-88-4	F981	77-77-0	8760H	79-41-4	5590F	84-66-2	O-525
54-11-5	PS-85	59-40-5	F2258	66-81-9	PS-1002	74-95-3	O-633	77-78-1	O-941	79-42-5	5582E	84-66-2	F70
54-11-5	F2123	59-47-2	8081F	66-84-2	CARB-42	74-95-3	F808	77-79-2	2480	79-43-6	O-45	84-69-5	Pz-45
54-12-6	8630	59-48-3	6749F	66-99-9	6125F	74-96-4	O-640	77-85-0	O-198	79-43-6	F2083	84-69-5	Pt-22
54-21-7	I-5780	59-49-4	2220K	67-03-8	V-7	74-97-5	O-604	77-86-1	O-299	79-46-9	O-857	84-69-5	O-522
54-64-8	5539F	59-50-7	O-888	67-21-0	4463F	74-97-5	F206	77-89-4	Pz-74	79-46-9	F2435	84-69-5	F2264
54-71-7	2944L	59-50-7	F22	67-43-6	3671K	75-03-6	O-643	77-90-7	Pz-75	79-74-3	Ou-6	84-74-2	Pz-44
54-85-3	5440	59-51-8	O-39	67-47-0	O-2402	75-05-8	O-834	77-92-9	O-75	79-74-3	O-903	84-74-2	Pt-17
54-95-5	6805	59-51-8	AA-15	67-48-1	O-320	75-05-8	F974	77-93-0	Pz-72	79-81-2	V-6	84-74-2	PS-900
54-96-6	3396K	59-52-9	3930F	67-51-6	O-696	75-07-0	O-2000	77-93-0	O-512	79-92-5	O-747	84-74-2	O-518
55-18-5	F931	59-67-6	V-1	67-52-7	2100K	75-07-0	F2322	77-94-1	Pz-73	79-92-5	F2475	84-74-2	F68
55-21-0	O-263	59-67-6	O-121	67-56-1	O-157	75-08-1	O-2098	77-94-1	O-511	79-94-7	7791C	84-75-3	Pz-445
55-22-1	O-120	59-85-8	3035H	67-56-1	F2453	75-09-2	O-648	77-95-2	2752L	79-97-0	2273E	84-75-3	Pt-21
55-27-6	2635L	59-88-1	O-728	67-63-0	O-168	75-09-2	F44	77-98-5	7830	80-07-9	2234F	84-75-3	F2314
55-38-9	PS-655	59-89-2	F933	67-63-0	F2539	75-11-6	3934B	77-99-6	4639C	80-08-0	3455J	84-76-4	Pt-42
55-38-9	F2064	60-00-4	O-73	67-64-1	O-798	75-12-7	O-253	78-04-6	Pz-158	80-09-1	5333A	84-76-4	F2317
55-55-0	5711F	60-01-5	Pz-106	67-64-1	F700	75-15-0	O-948	78-04-6	Ou-67	80-11-5	5877A	84-77-5	Pz-430
55-68-5	PS-202	60-01-5	O-500	67-66-3	O-623	75-15-0	F705	78-07-9	O-998	80-18-2	O-970	84-78-6	Pz-425
55-86-7	5574H	60-02-6	5419F	67-66-3	F23	75-18-3	O-2314	78-10-4	O-995	80-26-2	7764F	84-78-6	Pt-15
55-97-0	3034L	60-09-3	O-386	67-68-5	O-976	75-20-7	I-2196	78-19-3	4405B	80-32-0	PS-2333	84-80-0	V-22
56-04-2	5960J	60-09-3	O-386	67-71-0	1873L	75-25-2	O-610	78-23-9	S-252	80-33-1	PS-855	84-86-6	1850
56-05-3	1785K	60-09-3	F2088	67-72-1	O-644	75-25-2	F47	78-24-0	8527A	80-39-7	Pz-143	84-88-8	5340F
56-06-4	1786L	60-09-3	BS-5	67-72-1	F12	75-26-3	O-618	78-27-3	4760A	80-40-0	O-969	84-89-9	1465L
56-10-0	3151L	60-10-6	6355A	67-97-0	V-18	75-27-4	F48	78-30-8	O-918	80-41-1	3007F	85-01-8	O-790
56-12-2	1738L	60-11-7	F917	67-97-0	V-18	75-29-6	O-2016	78-30-8	F2425	80-46-6	1958F	85-01-8	F81
56-17-7	4386F	60-11-7	BS-6	67-97-0	PS-2289	75-30-9	O-647	78-34-2	PS-658	80-48-8	O-971	85-34-7	PS-308
56-18-8	O-323	60-12-8	O-218	67-97-0	PS-2289	75-31-0	O-2135	78-34-2	F2110	80-56-8	O-2315	85-41-6	O-793
56-23-5	O-620	60-18-4	O-110	67-97-0	PS-2289	75-33-2	O-2137	78-38-6	O-914	80-58-0	O-41	85-42-7	O-126
56-23-5	F6	60-18-4	AA-23	68-04-2	S-642	75-34-3	F13	78-39-7	O-556	80-59-1	8044F	85-43-8	O-127
56-34-8	7837F	60-19-5	8640	68-11-1	O-58	75-35-4	F29	78-40-0	Pz-80	80-62-6	O-1016	85-44-9	O-131
56-35-9	PS-282	60-24-2	O-188	68-12-2	O-252	75-47-8	O-645	78-40-0	O-919	80-62-6	F982	85-44-9	F2131
56-36-0	8210F	60-27-5	3200E	68-12-2	F2532	75-50-3	8432	78-40-0	F2192	80-63-7	5721H	85-52-9	2140
56-38-2	PS-95	60-29-7	O-569	68-19-9	V-14	75-52-5	O-854	78-42-2	Pz-82	80-68-2	AA-21	85-60-9	Ou-5
56-38-2	F998	60-29-7	F977	68-41-7	1300L	75-56-9	O-572	78-43-3	Pz-670	81-07-2	O-795	85-68-7	Pz-53
56-40-6	O-37	60-32-2	1738C	68-94-0	5380F	75-57-0	O-380	78-48-8	PS-562	81-08-3	7766B	85-68-7	Pt-10
56-40-6	O-37	60-33-3	S-12	69-53-4	1459L	75-58-1	7928E	78-48-8	F2214	81-11-8	3497H	85-68-7	F67
56-40-6	AA-10	60-33-3	O-19	69-65-8	O-200	75-59-2	7927C	78-50-2	8520	81-16-3	1842F	85-69-8	Pz-420
56-45-1	7510H	60-33-3	O-19	69-65-8	CARB-29	75-60-5	PS-51	78-51-3	Pz-84	81-19-6	8905K	85-69-8	Pt-13
56-47-3	1558L	60-34-4	O-2176	69-72-7	O-107	75-62-7	O-619	78-59-1	O-807	81-20-9	F2051	85-70-1	Pz-79

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
85-72-3	PS-50	88-68-6	2015F	91-21-4	8911K	94-09-7	2107F	95-99-8	2223A	98-28-2	MET-607A	100-16-3	6450
85-73-4	7099F	88-69-7	5450H	91-22-5	O-707	94-11-1	PS-43	96-09-3	O-591	98-29-3	Ou-3	100-17-4	F2175
85-83-6	BS-40	88-72-2	O-858	91-22-5	F2567	94-13-3	7310F	96-11-7	8190	98-29-3	O-901	100-19-6	6287F
85-85-8	6759F	88-72-2	F2287	91-23-6	6244	94-26-8	O-2426	96-12-8	PS-1	98-47-5	6400H	100-21-0	O-91
85-86-9	BS-39	88-73-3	O-861	91-40-7	6854A	94-28-0	Pz-98	96-12-8	F819	98-50-0	O-992	100-22-1	2785L
85-91-6	3866K	88-74-4	O-371	91-49-6	2500	94-36-0	O-2007	96-13-9	O-183	98-51-1	O-2320	100-23-2	3073L
85-98-3	Pz-140	88-74-4	F713	91-52-1	3968	94-41-7	2814E	96-14-0	O-737	98-52-2	2613K	100-25-4	F2108
85-98-3	O-389	88-75-5	O-895	91-53-2	PS-432	94-46-2	5640K	96-14-0	F2187	98-53-3	2588F	100-28-7	6455B
86-00-0	Pz-148	88-75-5	F57	91-53-2	Ou-53	94-47-3	6932H	96-18-4	O-654	98-54-4	Ou-4	100-29-8	6414F
86-26-0	5625	88-82-4	PS-561	91-55-4	3935K	94-51-9	Pz-96	96-18-4	O-654	98-54-4	O-869	100-32-3	6568K
86-28-2	4542C	88-84-6	O-2103	91-56-5	O-377	94-53-1	7039K	96-18-4	F814	98-55-5	7789B	100-36-7	O-325
86-29-3	PS-64	88-85-7	PS-56	91-57-6	O-788	94-59-7	F939	96-19-5	8245F	98-56-6	2794K	100-37-8	O-306
86-30-6	O-374	88-85-7	F964	91-57-6	F709	94-60-0	O-488	96-21-9	3471F	98-57-7	3126K	100-39-0	2440
86-30-6	F62	88-89-1	O-2300	91-58-7	F20	94-62-2	7139F	96-22-0	O-813	98-59-9	O-974	100-40-3	O-759
86-38-4	1816L	88-89-1	BS-2	91-59-8	F927	94-67-7	7334F	96-23-1	O-184	98-66-8	O-956	100-41-4	O-770
86-40-8	1573F	88-95-9	O-137	91-63-4	7395B	94-68-8	4750	96-23-1	F2014	98-73-7	O-82	100-41-4	F38
86-48-6	O-105	88-96-0	O-267	91-64-5	O-829	94-74-6	PS-40	96-24-2	O-211	98-80-6	6875A	100-42-5	O-1018
86-50-0	PS-666	88-97-1	MET-26A	91-66-7	O-339	94-74-6	F966	96-27-5	5533F	98-82-8	PS-2179	100-42-5	F716
86-50-0	F2055	88-99-3	O-89	91-68-9	O-885	94-75-7	PS-41	96-29-7	2493A	98-82-8	O-764	100-43-6	8758C
86-52-2	O-2352	89-00-9	2404L	91-76-9	2099B	94-75-7	O-100	96-31-1	O-986	98-82-8	F825	100-44-7	O-665
86-53-3	O-2353	89-05-4	O-90	91-77-0	3429F	94-75-7	F954	96-32-2	F2081	98-83-9	O-1017	100-44-7	F801
86-55-5	6104B	89-19-0	Pz-415	91-88-3	1804L	94-80-4	PS-42	96-33-3	O-1015	98-83-9	F2392	100-46-9	O-337
86-56-6	4114F	89-19-0	Pt-12	91-94-1	F28	94-81-5	PS-307	96-33-3	F2434	98-85-1	O-216	100-47-0	O-836
86-57-7	O-855	89-20-3	1390L	91-95-2	O-2383	94-82-6	PS-306	96-34-4	F2079	98-86-2	O-821	100-48-1	3246F
86-65-7	O-952	89-21-4	3202L	91-99-6	8139B	94-82-6	F958	96-37-7	O-746	98-86-2	F985	100-49-2	3294K
86-73-7	O-786	89-25-8	5895F	92-04-6	3102F	94-85-9	O-360	96-41-3	3215H	98-87-3	O-680	100-50-5	7871F
86-73-7	F80	89-32-7	2081B	92-05-7	2164G	94-91-7	Ou-82	96-45-7	PS-2180	98-87-3	F2046	100-51-6	Pz-136
86-74-8	O-694	89-39-4	3976	92-06-8	F1055	94-96-2	PS-102	96-45-7	O-714	98-88-4	O-134	100-51-6	O-213
86-74-8	F2001	89-40-7	6515B	92-24-0	F1043	94-96-2	PS-102	96-45-7	F2430	98-89-5	O-10	100-51-6	O-213
86-81-7	8377F	89-41-8	6040K	92-31-9	BS-83	94-96-2	O-194	96-47-9	O-575	98-92-0	V-10	100-51-6	F703
86-84-0	6138F	89-51-0	5135C	92-39-7	3059F	94-96-2	F2283	96-48-0	O-827	98-92-0	O-271	100-52-7	O-239
86-86-2	PS-28	89-55-4	2412B	92-44-4	O-2363	94-99-5	8258B	96-49-1	O-398	98-94-2	4048E	100-52-7	F2323
86-87-3	PS-29	89-56-5	5962E	92-48-8	6200K	95-00-1	3548K	96-50-4	O-710	98-95-3	O-852	100-54-9	3244H
86-87-3	O-87	89-57-6	1744L	92-50-2	5260	95-01-2	3883B	96-53-7	7970F	98-95-3	F56	100-55-0	8036K
86-88-4	PS-106	89-58-7	3088L	92-52-4	PS-2032	95-06-7	PS-19	96-54-8	5948F	98-96-4	7084K	100-56-1	PS-214
86-95-3	8116K	89-60-1	3057F	92-52-4	O-762	95-06-7	F2136	96-56-0	S-565	98-98-6	7010K	100-57-2	PS-215
86-96-4	2142E	89-61-2	PS-2269	92-52-4	F1062	95-08-9	Pz-97	96-66-2	Ou-22	99-02-5	2728K	100-60-7	O-291
87-02-5	1870	89-61-2	F2903	92-53-5	2779L	95-12-5	6600	96-69-5	8943K	99-03-6	1656F	100-61-8	O-348
87-13-8	3674K	89-63-4	O-375	92-66-0	2322G	95-13-6	F1034	96-80-0	2285F	99-04-7	8110	100-63-0	O-2254
87-17-2	8800K	89-63-4	F2504	92-67-1	F913	95-14-7	2129H	96-96-8	5676F	99-06-9	5220	100-64-1	3300
87-18-3	Ou-87	89-64-5	O-899	92-69-3	O-880	95-16-9	O-711	96-97-9	6521A	99-08-1	O-859	100-66-3	O-581
87-20-7	1980	89-65-6	1975H	92-70-6	5315E	95-20-5	5838D	96-99-1	3044B	99-08-1	F2484	100-68-5	5892F
87-25-2	4247K	89-68-9	3163F	92-71-7	4288F	95-38-5	S-537	97-00-7	F2169	99-09-2	O-372	100-70-9	7115F
87-39-8	8752E	89-69-0	8250	92-84-2	PS-733	95-45-4	O-867	97-02-9	O-369	99-09-2	F714	100-74-3	O-316
87-40-1	F2078	89-73-6	8806K	92-84-2	O-717	95-46-5	2450	97-02-9	F2507	99-10-5	3884F	100-75-4	F936
87-41-2	7070	89-74-7	3995F	92-86-4	O-676	95-47-6	O-779	97-16-5	PS-856	99-11-6	3190	100-79-8	1535B
87-42-3	3147K	89-77-0	1705K	92-86-4	F2172	95-47-6	F719	97-17-6	PS-103	99-20-7	CARB-21	100-82-3	4705K
87-48-9	1222L	89-82-7	7340F	92-87-5	F5	95-48-7	O-870	97-17-6	F2422	99-27-4	4020	100-83-4	5213F
87-51-4	PS-320	89-83-8	8040	92-88-6	F2165	95-48-7	F711	97-23-4	PS-6	99-30-9	PS-293	100-84-5	6105K
87-56-9	6050	89-84-9	3882F	92-91-1	6845C	95-48-7	F711	97-23-4	F2288	99-30-9	O-376	100-85-6	2160B
87-59-2	O-2052	89-86-1	3887E	92-92-2	2190	95-49-8	O-672	97-30-3	CARB-44	99-30-9	F2290	100-88-9	3327A
87-60-5	3037F	89-91-8	5784F	92-93-3	F949	95-49-8	F807	97-39-2	O-599	99-30-9	F2290	100-97-0	O-329
87-61-6	F831	89-92-9	2461B	92-94-4	O-773	95-50-1	PS-2	97-41-6	4280K	99-30-9	F2290	101-00-8	8335
87-62-7	O-2054	89-95-2	6136K	92-94-4	F1064	95-50-1	O-677	97-50-7	3211L	99-31-0	1780	101-01-9	Pz-166
87-63-8	3036F	89-97-4	2809K	93-00-5	1848B	95-50-1	F25	97-51-8	6530	99-33-2	O-135	101-02-0	O-922
87-65-0	F915	89-98-5	2895C	93-02-7	3963F	95-51-2	O-361	97-52-9	6210	99-34-3	4220	101-05-3	PS-388
87-66-1	O-908	90-00-6	4701H	93-03-8	3973F	95-51-2	F2500	97-53-0	PS-940	99-35-4	F942	101-05-3	F2089
87-67-2	2824L	90-01-7	5233F	93-04-9	O-594	95-53-4	O-354	97-54-1	5410H	99-48-9	2710K	101-10-0	PS-317
87-68-3	O-662	90-02-8	O-247	93-08-3	O-820	95-53-4	F1087	97-56-3	O-2397	99-52-5	6240	101-14-4	F950
87-68-3	F52	90-03-9	1354L	93-09-4	6105B	95-54-5	O-351	97-56-3	BS-8	99-54-7	PS-2270	101-17-7	2887K
87-69-4	O-78	90-04-0	O-358	93-10-7	8100K	95-55-6	O-881	97-59-6	1598F	99-54-7	F2904	101-21-3	PS-52
87-72-9	CARB-2	90-04-0	F2090	93-15-2	1630	95-56-7	F2467	97-61-0	6455K	99-55-8	F934	101-21-3	F2199
87-79-6	CARB-19	90-05-1	4975B	93-17-4	1477L	95-57-8	O-889	97-63-2	O-1009	99-56-9	6433F	101-27-9	PS-540
87-82-1	F840	90-11-9	O-2351	93-18-5	O-593	95-57-8	F24	97-63-2	F984	99-57-0	O-898	101-27-9	F2091
87-85-4	5059F	90-12-0	O-787	93-21-0	6146F	95-62-5	6920H	97-64-3	O-457	99-59-2	F2125	101-38-2	3232L
87-86-5	PS-7	90-12-0	F1066	93-23-2	S-631	95-63-6	O-777	97-65-4	O-66	99-60-5	3043B	101-39-3	5750
87-86-5	O-892	90-13-1	O-671	93-25-4	5635C	95-63-6	F832	97-67-6	2119L	99-61-6	6260	101-42-8	PS-61
87-86-5	F64	90-13-1	F2021	93-35-6	MET-104A	95-64-7	4039F	97-74-5	7968F	99-62-7	O-768	101-42-8	F2372
87-87-6	MET-690A	90-14-2	O-2366	93-40-3	3977F	95-65-8	O-875	97-77-8	8908K	99-64-9	1495L	101-42-8	F2372
87-89-8	O-199	90-15-3	O-877	93-42-5	2131L	95-68-1	O-342	97-84-7	7927F	99-65-0	O-851	101-43-9	3312F
87-89-8	CARB-28	90-27-7	6890	93-44-7	O-536	95-69-2	MET-840A	97-86-9	5647K	99-65-0	F990	101-55-3	F41
87-92-3	Pz-70	90-30-2	Ou-44	93-46-9	Ou-41	95-71-6	6256K	97-88-1	O-1005	99-73-0	3540	101-61-1	F2120
87-92-3	O-510	90-30-2	O-2393	93-51-6	5660	95-73-8	O-683	97-90-5	4571J	99-75-2	5981F	101-67-7	Ou-34
87-99-0	CARB-32	90-33-5	5364K	93-53-8	7036F	95-74-9	3038F	97-95-0	O-152	99-76-3	O-551	101-68-8	O-2162
88-04-0	2749L	90-41-5	O-2376	93-55-0	F2256	95-76-1	O-366	97-97-2	2902F	99-76-3	F2279	101-72-4	Ou-40
88-06-2	PS-10	90-42-6	3312E	93-56-1	O-217	95-76-1	MET-372A	97-99-4	O-181	99-77-4	4654F	101-77-9	O-349
88-06-2	O-894	90-43-7	PS-420	93-58-3	O-534	95-76-1	F2506	98-00-0	O-2102	99-87-6	O-765	101-80-4	F2127
88-06-2	F21	90-43-7	F2225	93-58-3	F2271	95-77-2	O-2310	98-01-1	O-235	99-87-6	F826	101-81-5	O-767
88-09-5	O-14	90-44-8	1991A	93-60-7	5849F	95-78-3	O-2053	98-01-1	O-235	99-90-1	2289F	101-82-6	2156C
88-12-0	8748	90-46-0	8777A	93-61-8	5901F	95-79-4	O-364	98-01-1	F2394	99-92-3	1657B	101-83-7	O-280
88-13-1	8957K	90-51-7	1857A	93-71-0	PS-351	95-79-4	F2153	98-02-2	4875C	99-93-4	O-224	101-84-8	O-596
88-14-2	O-53	90-72-2	Ou-28	93-72-1	PS-47	95-80-7	Ou-46	98-03-3	8035H	99-94-5	O-92	101-84-8	F2477
88-15-3	5969F	90-80-2	O-830	93-72-1	F970	95-80-7	F2102	98-04-4	O-382	99-96-7	O-104	101-87-1	Ou-42
88-17-5	1640K	90-94-8	2250B	93-76-5	PS-45	95-82-9	O-365	98-05-5	6846F	99-97-8	F2396	101-97-3	O-533
88-18-6	2606F	90-97-1	MET-854A	93-76-5	O-101	95-83-0	F2099	98-06-6	O-763	99-99-0	O-860	102-01-2	O-270
88-19-7	8000J	90-98-2	MET-854B	93-76-5	F972	95-84-1	1755K	98-06-6	F817	99-99-0	F2485	102-04-5	M-491-2
88-21-1	2044L	90-99-3	O-670	93-78-7	PS-46	95-85-2	2923K	98-07-7	O-690	100-00-5	O-863	102-06-7	4309F
88-24-4	Ou-12	91-00-9	4279F	93-79-8	PS-303	95-87-4	O-2312	98-07-7	F2047	100-01-6	O-373	102-07-8	O-388
88-26-6	3570H	91-01-0	O-212	93-83-4	S-597	95-88-5	3180K	98-08-8	O-691	100-01-6	F715	102-08-9	4360
88-42-6	3668E	91-09-8	CARB-47	93-89-0	O-531	95-92-1	O-484	98-08-8	F450	100-02-7	O-896	102-09-0	O-397
88-45-9	1792L	91-10-1	3980	93-90-3	6098K	95-93-2	O-769	98-09-9	O-972	100-02-7	F58	102-25-0	O-776
88-51-7	O-950	91-13-4	3559A	93-91-4	2126A	95-93-2	F1063	98-10-2	O-966	100-06-1	5624F	102-27-2	4525K
88-53-9	O-951	91-15-6	O-839	93-96-9	O-583	95-94-3	O-688	98-11-3	O-955	100-09-4	O-113	102-29-4	O-554
88-58-4	Ou-7	91-16-7	3965	93-97-0	2105	95-94-3	F1085	98-14-6	2689L	100-10-7	O-244	102-46-5	4043F
88-58-4	O-904	91-17-8	O-744	93-98-1	O-264	95-95-4	PS-9	98-15-7	3217L	100-11-8	2375B	102-47-6	8259B
88-65-3	2291C	91-20-3	O-789	93-99-2	O-538	95-95-4	O-893	98-16-8	1645K	100-14-1	6331F	102-48-7	3875K
88-67-5	5360	91-20-3	F55	94-02-0	O-555	95-95-4	F717	98-27-1	2610F	100-15-2	6298K	102-49-8	3551K

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
102-50-1	5650	105-08-8	3270	107-03-9	O-2256	108-44-1	O-355	110-00-9	O-2298	111-43-3	7380J	112-73-2	Pz-119
102-52-3	5900K	105-09-9	8789F	107-04-0	O-603	108-45-2	O-352	110-01-0	O-720	111-44-4	O-577	112-75-4	4226F
102-54-5	M-32AB-1	105-13-5	O-220	107-05-1	O-656	108-46-3	O-909	110-02-1	O-721	111-44-4	F18	112-80-1	S-10
102-56-7	3960	105-14-6	3740F	107-05-1	F975	108-46-3	F2134	110-02-1	F2466	111-46-6	O-208	112-80-1	O-23
102-60-3	7965C	105-30-6	O-2186	107-06-2	O-642	108-47-4	O-699	110-03-2	4080E	111-47-7	O-2079	112-82-3	2465K
102-69-2	O-2289	105-34-0	5755B	107-06-2	F10	108-48-5	O-700	110-06-5	O-947	111-48-8	7980	112-84-5	S-590
102-70-5	O-295	105-36-2	O-449	107-07-3	O-182	108-52-1	1923K	110-12-3	O-2165	111-49-9	5075C	112-84-5	Pz-139
102-71-6	O-314	105-37-3	O-418	107-07-3	F2012	108-55-4	4920	110-13-4	O-817	111-50-2	O-133	112-85-6	S-8
102-76-1	Pz-105	105-38-4	O-1021	107-08-4	O-646	108-58-7	O-539	110-14-5	O-257	111-55-7	O-492	112-85-6	O-12
102-76-1	O-498	105-39-5	O-452	107-10-8	F2020	108-59-8	4135B	110-15-6	O-71	111-60-4	S-139	112-85-6	O-12
102-81-8	O-304	105-40-8	4334K	107-11-9	O-272	108-60-1	F42	110-16-7	O-67	111-60-4	Pz-765	112-86-7	S-11
102-82-9	O-296	105-42-0	O-2166	107-12-0	O-840	108-67-8	O-771	110-17-8	O-64	111-62-6	Pz-7	112-86-7	O-13
102-85-2	O-917	105-45-3	6068K	107-12-0	F983	108-67-8	F828	110-18-9	7950	111-62-6	O-417	112-88-9	O-2219
102-86-3	O-2275	105-46-4	O-2008	107-13-1	O-1002	108-68-9	O-876	110-19-0	O-2133	111-65-9	O-740	112-89-0	2380
102-96-5	6580	105-50-0	3751E	107-13-1	F3	108-69-0	3863K	110-20-3	1490K	111-65-9	F2413	112-90-3	S-494
102-97-6	5464F	105-53-3	O-483	107-14-2	F2432	108-70-3	F2050	110-21-4	O-983	111-66-0	O-756	112-92-5	S-303
102-98-7	PS-203	105-54-4	O-413	107-15-3	O-328	108-75-8	O-708	110-26-9	5775F	111-67-1	O-757	112-92-5	O-164
103-01-5	O-95	105-55-5	Ou-58	107-18-6	O-138	108-77-0	3250	110-27-0	Pz-5	111-68-2	O-2105	112-95-8	O-732
103-04-8	6990F	105-56-6	O-463	107-18-6	F2010	108-78-1	O-701	110-29-2	Pz-28	111-69-3	O-835	112-95-8	F2183
103-09-3	O-416	105-57-7	O-1	107-19-7	O-169	108-79-2	3932K	110-36-1	Pz-210	111-70-6	O-154	112-96-9	6640
103-11-7	4638C	105-58-8	O-395	107-19-7	F2019	108-80-5	O-695	110-38-3	4570H	111-71-7	O-231	112-99-2	1528L
103-14-0	2265K	105-59-9	5762C	107-20-0	F803	108-83-8	O-802	110-40-7	Pz-60	111-71-7	F2329	113-24-6	7632H
103-16-2	Ou-10	105-60-2	O-828	107-21-1	O-193	108-83-8	F2402	110-40-7	O-485	111-75-1	4461F	113-48-4	PS-962
103-17-3	PS-853	105-67-9	F34	107-21-1	O-193	108-85-0	O-607	110-42-9	O-423	111-76-2	O-176	113-48-4	F2239
103-19-5	8070F	105-75-9	Pz-35	107-21-1	F2556	108-86-1	O-666	110-43-0	O-804	111-77-3	O-174	114-26-1	PS-551
103-23-1	Pz-25	105-75-9	O-472	107-22-2	O-230	108-86-1	F802	110-43-0	F2407	111-78-4	O-2024	114-26-1	F2045
103-23-1	O-467	105-76-0	Pz-39	107-27-7	PS-209	108-87-2	O-745	110-44-1	O-26	111-81-9	O-434	114-76-1	6981K
103-23-1	F2074	105-76-0	O-473	107-29-9	1410K	108-87-2	F2412	110-46-3	O-831	111-81-9	6452K	114-83-0	1588F
103-24-2	Pz-31	105-83-9	5837A	107-30-2	F806	108-88-3	O-775	110-49-6	O-446	111-82-0	O-426	115-18-4	6160K
103-26-4	O-535	105-99-7	Pz-23	107-31-3	O-424	108-88-3	F86	110-51-0	2503L	111-83-1	2385	115-19-5	O-158
103-29-7	O-761	105-99-7	O-471	107-31-3	F2537	108-89-4	O-705	110-52-1	O-631	111-84-2	F1099	115-20-8	8235C
103-29-7	F1061	106-11-6	S-140	107-35-7	O-964	108-90-7	O-669	110-53-2	O-615	111-85-3	F2517	115-24-2	7773B
103-30-0	O-792	106-14-9	O-50	107-36-8	5420E	108-90-7	F7	110-54-3	O-735	111-86-4	O-2223	115-27-5	2825
103-31-1	7737F	106-18-3	Pz-4	107-39-1	O-749	108-91-8	O-277	110-54-3	F2274	111-87-5	O-166	115-28-6	2820
103-33-3	PS-851	106-19-4	Pz-22	107-40-4	O-2287	108-93-0	O-148	110-56-5	O-636	111-87-5	F2273	115-29-7	PS-81
103-33-3	O-383	106-23-0	O-227	107-41-5	5880	108-94-1	O-800	110-56-5	F204	111-88-6	O-981	115-29-7	F95
103-33-3	F2007	106-24-1	4125F	107-47-1	2628E	108-94-1	F2326	110-57-6	F2923	111-90-0	O-173	115-31-1	PS-731
103-34-4	O-322	106-27-4	1965B	107-49-3	PS-601	108-95-2	O-879	110-58-7	O-2004	111-91-1	F43	115-32-2	PS-82
103-36-6	O-532	106-30-9	4615F	107-49-3	F2138	108-95-2	F65	110-59-8	9148K	111-92-2	O-279	115-32-2	F2281
103-43-5	O-521	106-31-0	O-124	107-58-4	O-1003	108-98-5	O-978	110-60-1	3451A	111-94-4	O-843	115-39-9	BS-162
103-45-7	O-541	106-32-1	4660F	107-66-4	F2397	108-98-5	F2071	110-61-2	7751A	111-95-5	2330K	115-69-5	O-300
103-45-7	6904K	106-33-2	4640H	107-80-2	3490H	108-99-6	O-704	110-62-3	O-234	111-96-6	O-564	115-70-8	1860K
103-49-1	O-338	106-34-3	O-928	107-81-3	O-616	109-00-2	5480K	110-62-3	O-234	111-97-7	7995B	115-76-4	O-192
103-50-4	O-582	106-35-4	O-805	107-82-4	O-612	109-01-3	5910	110-62-3	F2334	112-00-5	S-605	115-77-5	O-201
103-63-9	2440K	106-35-4	F2408	107-83-5	O-736	109-02-4	O-318	110-63-4	O-190	112-02-7	S-606	115-78-6	PS-67
103-65-1	F827	106-36-5	O-440	107-83-5	F2186	109-04-6	2538K	110-64-5	2496A	112-05-0	S-2	115-80-0	8309F
103-67-3	2163F	106-37-6	O-675	107-84-6	O-625	109-05-7	O-292	110-65-6	2645B	112-05-0	O-21	115-83-3	S-254
103-69-5	O-346	106-38-7	O-668	107-85-7	O-2132	109-06-8	O-703	110-66-7	O-2005	112-07-2	O-2297	115-83-3	O-494
103-70-8	4826F	106-39-8	O-667	107-87-9	O-812	109-06-8	F1082	110-67-8	O-845	112-11-8	Pz-220	115-84-4	PS-101
103-71-9	O-403	106-39-8	F1089	107-87-9	F2403	109-08-0	O-702	110-69-0	2643K	112-12-9	PS-951	115-86-6	Pz-85
103-72-0	6986C	106-40-1	MET-374B	107-88-0	O-189	109-09-1	3153K	110-70-3	4065B	112-14-1	6695F	115-86-6	O-921
103-73-1	O-595	106-40-1	F2497	107-89-1	O-236	109-12-6	1895H	110-71-4	O-567	112-15-2	O-442	115-86-6	F2052
103-81-1	O-266	106-41-2	O-2407	107-91-5	O-259	109-21-7	O-408	110-73-6	O-312	112-16-3	O-136	115-90-2	PS-667
103-82-2	O-88	106-42-3	O-781	107-92-6	O-5	109-31-9	Pz-365	110-74-7	O-439	112-18-5	O-283	115-90-2	F2063
103-83-3	4045	106-42-3	F830	107-94-8	O-44	109-31-9	Pz-360	110-75-8	F19	112-24-3	O-333	115-93-5	PS-1025
103-84-4	O-262	106-43-4	O-674	107-95-9	O-32	109-38-6	Pz-18	110-76-9	4226K	112-26-5	O-576	115-96-8	Pz-83
103-84-4	F2275	106-43-4	F818	107-96-0	O-57	109-43-3	Pz-61	110-80-5	O-177	112-27-6	O-210	116-02-9	O-171
103-85-5	PS-801	106-44-5	O-872	107-97-1	7339F	109-43-3	O-475	110-80-5	F2565	112-29-8	O-608	116-06-3	PS-734
103-88-8	O-268	106-44-5	F712	107-98-2	O-180	109-43-3	F2267	110-82-7	O-742	112-30-1	O-149	116-06-3	F2002
103-90-2	1440K	106-45-6	8949K	108-00-9	4065D	109-44-4	Pz-29	110-82-7	F2410	112-31-2	O-2034	116-09-6	1480K
104-01-8	2152L	106-46-7	PS-3	108-01-0	O-307	109-44-4	O-502	110-83-8	O-748	112-31-2	F2327	116-16-5	PS-272
104-03-0	6420	106-46-7	PS-3	108-03-2	O-856	109-46-6	Ou-57	110-83-8	F2411	112-34-5	O-172	116-29-0	PS-80
104-04-1	6154B	106-46-7	O-679	108-05-4	O-1019	109-46-6	O-985	110-85-0	O-331	112-36-7	O-561	116-29-0	F2282
104-10-9	O-367	106-46-7	F27	108-05-4	F718	109-49-9	5113F	110-86-1	O-706	112-37-8	O-2322	116-54-1	F2080
104-12-1	3098F	106-47-8	O-363	108-08-7	O-2076	109-52-4	O-29	110-86-1	F1084	112-38-9	S-9	116-63-2	1855
104-36-9	O-586	106-47-8	F706	108-09-8	3884K	109-53-5	O-1006	110-87-2	3875F	112-38-9	O-28	117-08-8	O-132
104-38-1	6968C	106-48-9	O-890	108-10-1	O-809	109-55-7	O-327	110-88-3	9084K	112-39-0	O-431	117-10-2	3754K
104-43-8	S-307-1	106-48-9	F2190	108-10-1	F710	109-57-9	8038B	110-89-4	O-293	112-40-3	O-731	117-12-4	3751K
104-50-7	6643F	106-49-0	O-356	108-11-2	O-162	109-60-4	O-437	110-91-8	O-319	112-40-3	F2000	117-18-0	PS-151
104-51-8	F815	106-50-3	O-353	108-13-4	5550	109-63-7	I-2000	110-94-1	O-65	112-41-4	O-2094	117-34-0	O-84
104-53-0	O-241	106-50-3	F1081	108-16-7	O-308	109-64-8	O-635	110-96-3	O-2043	112-42-5	O-2291	117-39-5	BS-100
104-54-1	O-214	106-51-4	O-929	108-18-9	O-2049	109-65-9	O-601	110-97-4	O-310	112-43-6	8673F	117-62-4	1841F
104-55-2	PS-2266	106-51-4	F2092	108-19-0	O-984	109-66-0	O-2240	110-98-5	O-209	112-44-7	O-2292	117-79-3	O-930
104-57-4	2145B	106-52-5	5300F	108-20-3	O-573	109-66-0	F2414	110-99-6	O-79	112-44-7	F2927	117-79-3	F2087
104-60-9	PS-199	106-53-6	2550K	108-20-3	F2540	109-67-1	O-2241	111-03-5	Pz-850	112-47-0	O-191	117-80-6	PS-12
104-66-5	O-590	106-54-7	3168A	108-21-4	O-438	109-68-2	O-2242	111-05-7	S-604	112-49-2	O-562	117-80-6	F2103
104-72-3	O-2035	106-57-0	4950	108-21-4	F2536	109-69-3	O-621	111-06-8	2625H	112-50-5	4500J	117-81-7	Pz-47
104-72-3	F2278	106-65-0	4212B	108-22-5	O-436	109-69-3	F2433	111-11-5	O-429	112-52-7	2986A	117-81-7	Pt-7
104-75-6	O-287	106-68-3	O-2222	108-24-7	O-122	109-70-6	O-605	111-13-7	O-811	112-53-8	S-301	117-81-7	O-516
104-76-7	O-153	106-69-4	O-197	108-26-9	6386K	109-73-9	O-273	111-14-8	O-17	112-53-8	O-150	117-81-7	F66
104-78-9	O-326	106-70-7	O-425	108-27-0	6403K	109-76-2	3472J	111-15-9	O-443	112-54-9	O-2092	117-82-8	Pz-56
104-81-4	2571K	106-73-0	O-2332	108-30-5	O-130	109-77-3	F2018	111-16-0	7118C	112-55-0	O-979	117-82-8	Pt-8
104-82-5	3159F	106-79-6	Pz-59	108-31-6	O-128	109-78-4	O-849	111-17-1	7994B	112-56-1	PS-730	117-82-8	O-547
104-83-6	O-682	106-79-6	O-491	108-31-6	F2119	109-79-5	O-2011	111-20-6	O-70	112-56-1	PS-730	117-82-8	F2268
104-84-7	6140K	106-83-2	Pz-905	108-32-7	Pz-33	109-80-8	7255C	111-21-7	O-508	112-56-1	F2390	117-83-9	Pt-2
104-85-8	8125E	106-83-2	Ou-78	108-32-7	O-399	109-81-9	3103L	111-24-0	3555B	112-57-2	7860	117-83-9	O-545
104-86-9	2920	106-87-6	8732E	108-33-8	1825F	109-83-1	O-313	111-25-1	O-611	112-58-3	O-570	117-83-9	F2315
104-87-0	O-243	106-89-8	O-578	108-36-1	3543F	109-85-3	6024K	111-26-2	O-289	112-60-7	O-2317	117-84-0	Pz-49
104-87-0	F2181	106-89-8	O-578	108-37-2	2305B	109-86-4	O-178	111-27-3	O-155	112-61-8	Pz-16	117-84-0	Pt-29
104-88-1	2911B	106-89-8	F2016	108-38-3	O-780	109-87-5	O-3	111-29-5	O-202	112-61-8	O-433	117-84-0	O-529
104-90-5	4651F	106-92-3	O-2002	108-38-3	F829	109-88-6	I-4020	111-30-8	F2400	112-62-9	Pz-6	117-84-0	F69
104-91-6	6567B	106-93-4	PS-154	108-39-4	O-871	109-89-7	O-2046	111-31-9	O-980	112-62-9	O-430	118-00-3	5011F
104-92-7	2297B	106-93-4	O-641	108-39-4	F987	109-92-2	O-1010	111-34-2	2619F	112-69-6	S-501	118-10-5	3187F
104-94-9	O-359	106-93-4	F820	108-41-8	O-673	109-94-4	O-414	111-36-4	O-2419	112-70-9	O-2301	118-31-0	6504K
104-98-3	2287L	106-94-5	O-617	108-42-9	O-362	109-97-7	O-2370	111-40-0	O-324	112-71-0	6060	118-41-2	8370
105-04-4	8285H	106-95-6	O-655	108-42-9	F2501	109-99-9	O-574	111-41-1	O-334	112-72-1	S-310	118-44-5	4680
105-05-5	O-2296	107-02-8	F2	108-43-0	O-2344	109-99-9	F2436	111-42-2	O-305	112-72-1	O-170	118-48-9	5625K

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
118-55-8	Ou-105	121-25-5	1943F	123-46-6	2748E	128-08-5	O-796	136-32-3	7715D	141-90-2	8025H	150-76-5	O-887
118-55-8	O-553	121-33-5	8680	123-51-3	O-140	128-09-6	O-797	136-35-6	4361F	141-91-3	4150	150-78-7	O-589
118-58-1	1450L	121-34-6	5349K	123-54-6	O-815	128-37-0	Ou-8	136-36-7	Ou-106	141-93-5	O-766	150-90-3	7635H
118-60-5	4638E	121-39-1	4700	123-56-8	O-794	128-37-0	O-873	136-45-8	PS-906	141-97-9	O-465	151-10-0	3964
118-61-6	O-550	121-43-7	O-999	123-62-6	O-129	128-39-2	Ou-9	136-45-8	F2381	142-03-0	I-1020	151-13-3	Pz-245
118-69-4	3626K	121-44-8	O-297	123-63-7	6750	128-53-0	4648F	136-60-7	O-517	142-04-1	O-336	151-21-3	S-378
118-71-8	5398K	121-45-9	8511C	123-66-0	O-415	128-56-3	2007B	136-64-1	2572L	142-08-5	5476K	151-50-8	I-98
118-74-1	PS-690	121-46-0	2180	123-72-8	O-225	128-97-2	6090F	136-77-6	5126B	142-16-5	Pz-40	151-56-4	F948
118-74-1	O-685	121-50-6	1715K	123-72-8	O-225	129-00-0	O-791	136-95-8	1676B	142-17-6	S-93	152-16-9	PS-2338
118-74-1	F9	121-54-0	S-621	123-72-8	F2324	129-00-0	F84	137-06-4	8951K	142-18-7	S-229	152-18-1	F2570
118-75-2	PS-11	121-57-3	PS-2330	123-75-1	O-294	129-17-9	BS-112	137-07-5	O-378	142-25-6	9075K	153-78-6	O-2378
118-78-5	2290L	121-57-3	O-961	123-76-2	O-55	129-43-1	O-931	137-08-6	V-11	142-26-7	5255B	153-94-6	8561H
118-79-6	F844	121-61-9	1572F	123-77-3	1168L	129-66-8	O-2318	137-09-7	3470	142-28-9	O-639	154-17-6	CARB-4
118-82-1	Ou-14	121-66-4	1875B	123-81-9	4970	130-15-4	O-927	137-16-6	S-587	142-28-9	F822	154-41-6	2653L
118-90-1	8110A	121-69-7	O-341	123-82-0	1735B	130-15-4	F997	137-17-7	F2146	142-29-0	O-2025	155-04-4	Ou-77
118-91-2	O-97	121-69-7	F2531	123-83-1	3914K	130-22-3	BS-86	137-19-9	3701E	142-30-3	4082F	156-10-5	6187J
118-92-3	O-94	121-71-1	5189F	123-86-4	O-407	130-35-8	4428E	137-20-2	S-578	142-31-4	S-375	156-38-7	5329F
118-93-4	O-223	121-72-2	3962K	123-86-4	F2538	130-40-5	3238L	137-26-8	PS-24	142-45-0	1568F	156-43-4	6835
118-96-7	O-2288	121-73-3	O-862	123-91-1	O-568	130-80-3	3835S	137-26-8	O-387	142-59-6	PS-220	156-57-0	1705B
118-96-7	F2486	121-73-3	F2495	123-91-1	F978	130-85-8	2347L	137-30-4	PS-21	142-62-1	O-7	156-59-2	O-659
118-97-8	2875K	121-75-5	PS-86	123-92-2	O-406	131-08-8	O-953	137-30-4	F2368	142-63-2	7122B	156-59-2	F821
119-06-2	Pz-470	121-75-5	F2118	123-93-3	7991A	131-09-9	1273L	137-32-6	O-2142	142-68-7	7799E	156-60-5	O-660
119-06-2	Pt-31	121-79-9	Ou-18	123-95-5	Pz-17	131-11-3	Pz-41	137-40-6	7265B	142-77-8	Pz-8	156-60-5	F30
119-07-3	Pz-505	121-81-3	3965K	123-95-5	O-410	131-11-3	Pt-27	137-89-3	Pz-48	142-77-8	O-409	156-62-7	I-2205
119-07-3	Pt-38	121-86-8	3056F	123-96-6	O-165	131-11-3	PS-901	137-89-3	Pz-465	142-78-9	S-592	156-87-6	O-303
119-12-0	PS-2155	121-87-9	F2503	123-99-9	O-61	131-11-3	O-526	137-89-3	Pt-6	142-82-5	O-733	189-64-0	O-2372
119-26-6	O-724	121-88-0	1087L	124-02-7	O-278	131-11-3	F71	137-89-3	Pt-28	142-82-5	F2184	191-07-1	F1007
119-32-4	5876E	121-89-1	6155	124-03-8	O-379	131-14-6	O-2382	138-15-8	4910B	142-83-6	5041F	191-24-2	F79
119-36-8	O-552	121-91-5	O-86	124-04-9	O-60	131-16-8	F2158	138-22-7	Pz-3	142-84-7	O-285	191-48-0	F1008
119-47-1	Ou-13	121-92-6	O-118	124-06-1	4660H	131-17-9	O-519	138-22-7	O-456	142-87-0	S-377	192-65-4	F1010
119-53-9	O-222	121-97-1	6052K	124-07-2	S-1	131-18-0	Pz-46	138-24-9	8490	142-91-6	Pz-11	192-97-2	F1003
119-56-2	2782K	122-00-9	O-824	124-07-2	O-22	131-18-0	Pt-16	138-41-0	2760	142-92-7	O-419	193-39-5	F83
119-58-4	2758L	122-08-7	2175F	124-07-2	O-22	131-18-0	O-520	138-52-3	CARB-50	142-96-1	O-565	198-55-0	F1047
119-61-9	Pz-161	122-11-2	PS-2278	124-09-4	O-330	131-18-0	F2263	138-85-2	5309H	143-00-0	S-390-1	205-82-3	F952
119-61-9	O-823	122-14-5	PS-678	124-10-7	O-427	131-22-6	BS-10	138-86-3	O-750	143-07-7	S-4	205-99-2	F74
119-61-9	O-823	122-14-5	F2423	124-10-7	F2265	131-53-3	Ou-92	138-89-6	6550	143-07-7	O-18	206-44-0	O-785
119-61-9	F2277	122-20-3	O-315	124-11-8	O-2205	131-54-4	Ou-90	139-02-6	I-5730	143-08-8	O-2210	206-44-0	F39
119-64-2	O-774	122-25-8	5803F	124-12-9	6697F	131-55-5	Ou-107	139-13-9	8440	143-10-2	3390	207-08-9	F75
119-64-2	F1065	122-32-7	S-237	124-13-0	O-2235	131-55-5	O-910	139-40-2	PS-385	143-13-5	6608F	208-96-8	F77
119-65-3	O-698	122-32-7	Pz-880	124-13-0	F2333	131-56-6	Ou-89	139-40-2	F2236	143-15-7	O-609	215-58-7	F1009
119-67-5	2698K	122-34-9	PS-58	124-17-4	O-441	131-57-7	Ou-98	139-45-7	O-501	143-16-8	O-2048	217-59-4	F1058
119-68-6	6112K	122-34-9	F2073	124-18-5	O-729	131-70-4	O-112	139-59-3	6912K	143-18-0	S-49	218-01-9	F76
119-75-5	6367	122-37-2	O-884	124-18-5	F2182	131-89-5	F2468	139-65-1	O-2400	143-19-1	S-36	224-42-0	F2247
119-79-9	1408L	122-39-4	PS-427	124-19-6	O-2211	131-91-9	O-897	139-66-2	O-949	143-24-8	O-563	226-36-8	F2490
119-80-2	O-116	122-39-4	O-344	124-19-6	F2332	131-91-9	BS-123	139-85-5	3757K	143-27-1	S-491	238-84-6	F1001
119-84-6	3745K	122-39-4	F992	124-20-9	8830K	132-31-0	4024F	139-96-8	S-388	143-27-1	O-288	243-17-4	F1002
119-90-4	F2154	122-42-9	PS-53	124-22-1	S-489	132-32-1	F2143	140-07-8	CDF-7	143-28-2	S-304	253-52-1	6999K
119-91-5	2226F	122-42-9	F2376	124-22-1	O-2302	132-33-2	8029F	140-10-3	O-83	143-28-2	Pz-135	256-96-2	1924L
119-93-7	F991	122-43-0	2614F	124-40-3	O-2411	132-53-6	6565B	140-11-4	O-514	143-29-3	Pz-975	259-79-0	F1005
120-07-0	6940K	122-46-3	O-543	124-42-5	1420K	132-54-7	6960K	140-22-7	4284	143-33-9	I-132	260-94-6	O-2001
120-12-7	O-783	122-51-0	O-557	124-43-6	8679F	132-60-5	6984K	140-24-9	Pz-63	143-50-0	PS-701	262-12-4	3505G
120-12-7	F78	122-52-1	O-920	124-48-1	F51	132-64-9	O-585	140-29-4	O-838	143-50-0	F2441	262-20-4	O-718
120-14-9	3962	122-57-6	O-825	124-68-5	O-301	132-64-9	F707	140-31-8	1720F	143-66-8	7711F	271-63-6	2041B
120-18-3	O-958	122-59-8	PS-36	124-83-4	O-63	132-65-0	F2171	140-38-5	MET-1028A	144-02-5	7632	271-89-6	F2285
120-20-7	3967H	122-59-8	O-115	125-02-0	7709F	132-66-1	PS-343	140-39-6	O-544	144-19-4	O-207	273-53-0	O-709
120-23-0	PS-35	122-60-1	O-592	125-20-2	8041F	132-75-2	2140L	140-41-0	PS-371	144-21-8	PS-281	274-09-9	2117F
120-25-2	4486F	122-62-3	Pz-62	125-46-2	8700J	132-86-5	O-2360	140-41-0	F2560	144-48-9	1966L	275-51-4	F1000
120-32-1	PS-170	122-65-6	3510	126-11-4	8591F	133-06-2	PS-25	140-50-1	3426J	144-55-8	I-122	280-57-9	3506J
120-34-3	I-5880	122-66-7	F37	126-13-6	Pz-990	133-06-2	F2095	140-53-4	O-847	144-82-1	PS-2335	281-23-2	F951
120-36-5	PS-44	122-73-6	O-579	126-14-7	O-507	133-07-3	PS-26	140-56-7	PS-262	144-83-2	PS-2331	283-24-9	2040
120-36-5	F962	122-78-1	O-242	126-30-7	4196A	133-08-4	3759B	140-57-8	PS-850	145-42-6	I-5840	286-28-2	3308A
120-40-1	S-674	122-79-2	O-537	126-33-0	7964B	133-13-1	O-480	140-66-9	F2938	145-50-6	6110	287-92-3	O-743
120-43-4	4662F	122-80-5	1524F	126-54-5	6776E	133-32-4	PS-48	140-75-0	4710K	146-50-9	Pt-9	288-13-1	7088K
120-46-7	4335B	122-85-0	4850	126-58-9	4278A	133-37-9	7786C	140-77-2	3322F	146-50-9	F2309	288-14-2	5729K
120-47-8	O-549	122-87-2	O-96	126-63-6	2270	133-49-3	MET-690B	140-87-4	3234K	146-68-9	5407H	288-32-4	5362A
120-51-4	PS-904	122-88-3	PS-39	126-68-1	F941	133-90-4	PS-314	140-88-5	O-1008	147-61-5	5378K	288-88-0	MET-1075A
120-51-4	O-515	122-88-3	O-99	126-72-7	F2142	133-90-4	F2039	140-89-6	7225C	147-82-0	8183E	290-37-9	2422L
120-51-4	F1093	122-94-1	O-886	126-73-8	Pz-81	133-91-5	3940	140-92-1	7230F	147-85-3	AA-19	291-21-4	O-722
120-55-8	Pz-95	122-95-2	O-588	126-73-8	O-916	134-03-2	V-4	140-95-4	2274F	147-93-3	O-117	292-64-8	O-2022
120-55-8	O-548	122-96-3	2325K	126-73-8	F2191	134-20-3	PS-2055	141-00-4	PS-280	148-24-3	PS-18	294-62-2	O-2020
120-57-0	7130	122-97-4	O-219	126-75-0	PS-662	134-29-2	1987F	141-02-6	Pz-36	148-24-3	O-697	297-78-9	PS-704
120-58-1	F922	122-98-5	O-368	126-75-0	F2059	134-32-7	F928	141-03-7	Pz-69	148-53-8	9151K	297-97-2	PS-668
120-61-6	O-528	122-99-6	Pz-137	126-81-8	4211F	134-62-3	PS-902	141-03-7	PS-903	148-79-8	PS-1057	297-97-2	F2152
120-62-7	PS-976	122-99-6	O-221	126-86-3	S-363	134-62-3	F2284	141-03-7	O-476	148-79-8	F2389	297-97-2	F2152
120-62-7	F2132	123-04-6	O-627	126-92-1	S-376	134-72-5	4435	141-04-8	Pz-24	149-26-8	PS-313	298-00-0	PS-94
120-67-2	3690	123-05-7	4623F	126-98-7	F923	134-81-6	O-822	141-05-9	Pz-38	149-30-4	Ou-85	298-00-0	F996
120-71-8	F2100	123-06-8	4480	126-99-8	F914	134-84-9	5709F	141-05-9	O-482	149-30-4	O-715	298-02-2	PS-654
120-72-9	O-347	123-07-9	4690	127-00-4	3111F	134-96-3	2530L	141-18-4	Pz-305	149-30-4	F2388	298-02-2	F1080
120-72-9	O-347	123-08-0	O-246	127-06-0	O-866	135-00-2	2260K	141-22-0	S-13	149-32-6	CARB-26	298-03-3	PS-661
120-72-9	F2476	123-11-5	O-245	127-07-1	5492K	135-01-3	3741F	141-28-6	Pz-21	149-44-0	7636B	298-04-4	PS-652
120-75-2	O-716	123-19-3	O-806	127-08-2	I-88	135-19-3	O-878	141-28-6	O-478	149-45-1	3883F	298-04-4	F993
120-78-5	O-713	123-20-6	O-1020	127-17-3	O-56	135-20-6	O-865	141-30-0	3719F	149-57-5	O-15	298-07-7	2271B
120-78-5	F2384	123-25-1	Pz-67	127-18-4	O-663	135-23-9	F926	141-32-2	O-1004	149-73-5	O-558	298-14-6	I-89
120-79-6	4060	123-25-1	O-486	127-18-4	F85	135-48-8	F1046	141-38-8	Pz-939	149-87-1	1639F	298-95-3	6168F
120-80-9	O-902	123-28-4	Ou-54	127-19-5	O-251	135-49-9	BS-152	141-43-5	O-311	150-13-0	V-15	298-96-4	9091K
120-82-1	O-689	123-29-5	4695H	127-19-5	F2530	135-51-3	O-960	141-52-6	I-5535	150-13-0	O-93	299-11-6	6898H
120-82-1	F8	123-30-8	O-883	127-20-8	PS-2236	135-53-5	1480L	141-53-7	I-5542	150-25-4	2851L	299-27-4	7228F
120-83-2	O-891	123-31-9	O-905	127-25-3	Pz-1	135-57-9	Pz-142	141-66-2	PS-602	150-30-1	AA-18	299-28-5	2676F
120-83-2	F31	123-31-9	F2116	127-25-3	O-420	135-70-6	F1050	141-66-2	F2104	150-38-9	S-641	299-42-3	4434H
120-86-5	2225A	123-33-1	PS-65	127-63-9	O-977	135-73-9	2400F	141-76-4	5412F	150-39-0	5261E	299-84-3	PS-657
120-88-7	3735	123-33-1	O-727	127-63-9	F2272	135-76-2	6116B	141-78-6	O-412	150-50-5	PS-68	299-84-3	F2068
120-89-8	6744B	123-38-6	O-233	127-68-4	6275B	135-88-6	Ou-43	141-78-6	F2452	150-50-5	F2065	299-86-5	PS-607
120-92-3	O-801	123-38-6	O-233	127-71-9	PS-2326	135-88-6	O-2394	141-79-7	O-808	150-60-7	O-945	300-39-0	AA-8
120-93-4	1609L	123-38-6	F2335	127-79-7	PS-2327	135-98-8	F816	141-79-7	F2405	150-61-8	Ou-35	300-57-2	1610
120-94-5	6391K	123-39-7	5810	127-91-3	O-2316	136-17-4	3460	141-82-2	O-68	150-68-5	PS-59	300-76-5	PS-605
121-14-2	F35	123-42-2	O-187	127-95-7	I-4930	136-23-2	Ou-76	141-84-4	M-191-1	150-68-5	F2374	300-76-5	F2067
121-17-5	F2320	123-44-4	8480	128-03-0	PS-2020	136-30-1	7630	141-86-6	3478A	150-76-5	Ou-11	301-02-0	S-589

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
301-02-0	Pz-138	356-27-4	4685E	469-90-9	CARB-18	504-03-0	O-284	531-91-9	4293H	543-49-7	O-2115	562-54-9	O-944
301-04-2	I-3390	357-57-3	2465B	470-82-6	4750H	504-15-4	5953F	532-02-5	6506K	543-59-9	O-630	563-04-2	8609B
301-12-2	PS-641	358-23-6	9032K	470-90-6	PS-1087	504-17-6	3772K	532-27-4	O-2015	543-80-6	I-20	563-12-2	PS-92
302-15-8	2062L	361-09-1	2500L	470-90-6	F2097	504-24-5	PS-1010	532-28-5	2170K	544-10-5	O-624	563-12-2	F2113
302-72-7	O-31	362-75-4	7295F	471-25-0	7262B	504-29-0	O-692	532-32-1	2200K	544-10-5	F805	563-41-7	O-392
302-72-7	AA-1	363-03-1	6932K	471-34-1	I-32	504-53-0	7732F	532-34-3	PS-907	544-13-8	4925B	563-45-1	O-2141
302-84-1	AA-20	363-72-4	F841	471-46-5	O-255	504-63-2	O-204	532-43-4	V-8	544-16-1	O-832	563-46-2	O-2143
302-95-4	7622F	364-31-8	3731K	471-47-6	6730	504-78-9	7972F	532-54-7	3085L	544-25-2	O-2017	563-47-3	O-657
303-04-8	3689F	366-18-7	2229F	471-53-4	4980F	505-23-7	4380F	532-63-8	1756L	544-40-1	O-2044	563-58-6	F824
303-07-1	3760K	367-12-4	F430	473-72-3	7120	505-48-6	7748C	532-82-1	BS-9	544-60-5	S-60	563-63-3	I-5260
303-26-4	1387L	367-21-5	2902K	474-45-3	4865S	505-52-2	2719L	533-18-6	O-542	544-63-8	S-5	563-68-8	7976F
303-38-8	3886A	367-25-9	3701K	476-60-8	2698L	505-66-8	5165F	533-23-3	PS-304	544-63-8	O-20	563-78-0	O-2058
303-43-5	1336L	367-29-3	4730K	476-66-4	1768L	505-70-4	6055B	533-28-8	5999F	544-76-3	O-734	563-79-1	O-2057
304-20-1	1918L	367-30-6	3710K	477-73-6	BS-84	506-12-7	O-2325	533-31-3	7550	544-76-3	F2185	563-80-4	O-2145
304-28-9	O-2381	367-51-1	5603J	477-75-8	F1059	506-30-9	O-2327	533-67-5	CARB-5	544-85-4	O-2095	563-83-7	5649K
305-33-9	5418F	367-81-7	1783L	479-27-6	O-2387	506-50-3	2722L	533-73-3	5321K	544-92-3	I-2960	565-59-3	O-2077
305-53-3	5369D	368-77-4	9056K	479-33-4	7967E	506-59-2	O-282	533-74-4	PS-17	545-06-2	F2076	565-67-3	O-2187
305-84-0	2750H	369-07-3	2134L	480-16-0	BS-99	506-64-9	I-5310	534-07-6	3470K	546-68-9	7912F	565-69-5	O-2192
306-31-0	1855L	371-40-4	F838	480-41-1	2170L	506-93-4	5010E	534-13-4	4232F	546-88-3	1460K	565-74-2	2355B
306-37-6	4155J	371-41-5	4760K	480-63-7	2017L	507-09-5	7976B	534-15-6	O-2	546-89-4	I-3660	565-75-3	O-2286
309-00-2	PS-69	371-42-6	4755K	480-66-0	8343F	507-19-7	O-614	534-16-7	I-5270	546-93-0	I-3960	565-80-0	O-2073
309-00-2	F89	371-62-0	4720K	480-68-2	6250	507-20-0	O-628	534-22-5	O-571	547-57-9	BS-20	569-41-5	F1025
311-28-4	7796B	372-09-8	O-52	481-39-0	1942L	507-70-0	2280E	534-52-1	PS-57	547-58-0	BS-15	569-58-4	BS-59
311-45-5	PS-610	372-19-0	4682K	482-05-3	4280B	509-14-8	O-2265	534-52-1	F60	547-63-7	5830H	569-58-4	2035C
311-89-7	F2163	372-31-6	4535K	482-89-3	BS-92	510-15-6	PS-854	534-52-1	F60	547-91-1	3040L	569-61-9	BS-49
312-30-1	3833F	372-47-4	4805F	483-65-8	F1052	510-15-6	F986	534-85-0	7028F	548-24-3	BS-150	570-22-9	5371B
313-72-4	O-2295	372-75-8	3190H	483-84-1	4264B	512-42-5	5955F	535-11-5	O-450	548-26-5	BS-65	570-24-1	6398C
314-13-6	BS-37	373-44-4	N-250	484-11-7	6222E	512-56-1	F2141	535-80-8	F2257	548-35-6	F1060	571-58-4	F1020
314-40-9	PS-62	373-88-6	9030K	484-47-9	5540C	513-35-9	O-2146	535-87-5	3440	548-39-0	6817F	571-60-8	O-906
314-40-9	F2200	375-22-4	6820	485-31-4	PS-2087	513-36-0	3040	536-17-4	4014F	548-62-9	BS-53	571-61-9	F1021
315-18-4	PS-756	381-73-7	3695K	485-47-2	6154A	513-38-2	5420F	536-38-9	2983L	548-80-1	BS-200	573-58-0	BS-35
315-18-4	F2559	383-63-1	4530K	485-71-2	3186F	513-42-8	5931F	536-46-9	O-343	550-74-3	7117E	573-97-7	2367A
318-98-9	5460F	385-00-2	3725K	486-25-9	4775	513-44-0	O-2134	536-60-7	5681K	550-82-3	7490H	573-98-8	F1022
319-84-6	PS-692	388-82-9	F400	486-56-6	1294L	513-48-4	5362E	536-66-3	3205	551-06-4	6139F	574-25-4	2080L
319-84-6	F102	392-12-1	1948L	487-68-3	5587C	513-53-1	O-2012	536-74-3	4723F	551-93-9	1096L	574-93-6	7078F
319-85-7	PS-691	393-75-9	2981H	487-88-7	6399F	513-77-9	I-21	536-75-4	4715	552-16-9	6282B	574-98-1	2337F
319-85-7	F103	398-23-2	F2157	487-89-8	5376E	513-78-0	I-2050	536-78-7	4515K	552-30-7	F2416	575-38-2	O-2362
319-86-8	PS-693	400-98-6	1875F	488-11-9	6049F	513-79-1	I-2730	536-90-3	2002E	552-45-4	3204K	575-41-7	F1019
319-86-8	F105	401-78-5	2293F	488-17-5	5733F	513-80-4	2293L	537-45-1	3440K	552-89-6	6262E	575-44-0	O-2361
319-89-1	O-932	402-49-3	9048K	488-47-1	7792C	513-81-5	O-2056	537-47-3	7041F	553-17-3	O-400	576-24-9	O-2309
320-60-5	3680F	404-71-7	4783K	488-81-3	CARB-30	513-85-9	2580	537-91-7	6432F	553-24-2	BS-75	576-26-1	O-874
320-72-9	3702C	404-72-8	4788K	488-82-4	CARB-24	513-86-0	O-186	538-23-8	8427H	553-26-4	3992K	577-11-7	S-467
321-14-2	3160	407-25-0	8300A	488-93-7	4890K	513-88-2	F2026	538-24-9	8351F	553-54-8	I-3730	577-19-5	F2319
321-38-0	F420	408-35-5	S-33	489-01-0	Ou-19	514-10-3	S-15	538-28-3	2159F	553-82-2	F2032	577-56-0	1545F
321-54-0	MET-656D	421-50-1	8311F	489-01-0	Ou-15	515-30-0	2020	538-58-9	4281F	553-86-6	3222K	577-85-5	1690L
321-60-8	F410	422-64-0	6895K	489-84-9	F1031	515-42-4	2078A	538-62-5	4289F	553-90-2	O-490	578-54-1	4504F
326-91-0	9054K	431-03-8	O-816	490-11-9	8013K	515-83-3	8244B	538-74-9	O-946	553-94-6	2330	578-57-4	O-2396
327-92-4	2761L	431-35-6	2559K	490-78-8	1600J	515-84-4	O-455	538-75-0	3743H	553-97-9	6124K	578-66-5	1042L
327-98-0	PS-2007	433-27-2	8312F	490-79-9	3888A	516-05-2	5848E	538-93-2	2603F	554-00-7	MET-2243A	578-67-6	1909L
327-98-0	F2222	433-97-6	O-2417	491-30-5	1963L	516-06-3	AA-24	539-03-7	2840	554-12-1	O-432	578-95-0	1580B
328-38-1	2032L	433-97-6	MET-2057B	491-35-0	5800K	516-91-6	1324L	539-43-5	8090F	554-13-2	I-64	579-10-2	5700
328-50-7	5480F	434-13-9	5533H	491-36-1	2650L	517-21-5	5005	539-47-9	PS-341	554-73-4	BS-17	579-18-0	2240K
328-75-6	4002K	434-45-7	8305B	492-22-8	M-16A1-1	517-28-2	BS-94	539-74-2	O-451	554-84-7	6559K	579-66-8	MET-357C
328-84-7	3524K	434-90-2	F904	492-37-5	7039F	517-51-1	F1053	539-82-2	4697F	554-95-0	8365A	579-75-9	O-114
329-01-1	8323F	438-22-2	F2516	492-86-4	PS-310	519-73-3	O-778	539-93-5	S-231	555-03-3	6243B	580-13-2	F2437
329-65-7	1864L	440-17-5	2695L	492-99-9	3279F	519-73-3	F2270	540-08-9	O-2109	555-16-8	6261E	580-51-8	2169G
329-89-5	1102L	441-38-3	2125F	493-05-0	5431F	520-45-6	O-59	540-23-8	8122B	555-21-5	O-850	581-40-8	F1023
330-54-1	PS-60	443-48-1	6460K	493-52-7	BS-14	521-11-9	M-21D1-3	540-36-3	F837	555-31-7	O-991	581-42-0	F1024
330-54-1	F2371	443-79-8	AA-12	493-77-6	8558F	521-24-4	6132F	540-37-4	5374F	555-35-1	S-86	581-43-1	O-2364
330-55-2	PS-372	443-86-7	4725K	494-19-9	2974L	521-31-3	1689J	540-38-5	5605K	555-37-3	PS-377	581-64-6	BS-81
330-55-2	F2280	444-30-4	9027K	494-38-2	BS-71	523-21-7	7481J	540-49-8	3417K	555-37-3	F2375	581-97-5	O-2348
330-95-0	PS-2313	446-35-5	3835F	495-40-9	F2250	523-27-3	O-2356	540-51-2	O-2406	555-43-1	O-499	582-16-1	F1026
332-77-4	3861F	446-36-6	4754K	495-48-7	O-385	523-31-9	F1092	540-54-5	3100	555-44-2	8528F	582-17-2	O-2365
333-18-6	4566E	446-51-5	4692K	495-69-2	O-109	524-36-7	V-3	540-63-6	4460B	555-45-3	8543F	582-52-5	1486L
333-20-0	I-115	446-52-6	4688K	495-76-1	M-47A1-1	524-38-9	5444K	540-69-2	1916C	555-57-7	5926F	583-06-2	2130
333-41-5	PS-90	451-40-1	3400B	496-11-7	F1033	524-42-5	F2301	540-72-7	I-152	555-59-9	6963K	583-39-1	5550J
333-41-5	F2060	451-82-1	4765K	496-15-1	5580K	525-05-3	6546J	540-84-1	O-741	555-68-0	2206L	583-48-2	O-2068
333-93-7	3450	452-58-4	3393K	496-72-0	O-2390	525-64-4	O-2384	540-84-1	F2189	555-75-9	I-1085	583-59-5	O-159
334-48-5	S-3	452-73-3	3015F	497-03-0	8039F	525-79-1	PS-2314	540-88-5	O-2009	555-90-8	2410L	583-60-8	O-2150
334-48-5	O-11	452-86-8	6168K	497-18-7	2707F	525-82-6	4774F	540-92-1	1542F	556-08-1	1518F	583-68-6	2294B
334-48-5	O-11	453-13-4	3729K	497-19-8	S-646	526-55-6	2971L	541-35-5	2656B	556-22-9	PS-261	583-69-7	2348B
335-67-1	6825C	453-20-3	5488K	497-19-8	I-5490	526-73-8	O-2304	541-41-3	O-453	556-24-1	5831H	583-75-5	2295B
336-59-4	5012E	455-14-1	8320F	497-25-6	6745F	526-75-0	O-2412	541-47-9	3998D	556-48-9	3275A	583-78-8	O-2345
338-45-4	PS-87-2	455-18-5	8313F	497-37-0	2230L	526-78-3	3558B	541-59-3	5535H	556-52-5	O-175	584-02-1	O-2245
338-69-2	1586F	455-36-7	4675K	497-38-1	2233L	526-95-4	O-48	541-69-5	6960	556-56-9	5413F	584-03-2	2480H
343-94-2	1066L	456-47-3	4693K	498-21-5	5951F	526-99-8	O-77	541-73-1	O-678	556-61-6	MET-221A	584-13-4	1927F
344-04-7	2295F	458-37-7	BS-95	498-40-8	3264H	527-17-3	4416F	541-73-1	F26	556-64-9	5975E	584-42-9	BS-18
344-07-0	3058F	459-56-3	4697K	498-66-8	6618F	527-20-8	MET-150A	541-85-5	O-2154	556-82-1	5729F	584-48-5	2200J
344-96-7	MET-2057A	459-72-3	4600	498-94-2	5382A	527-60-6	8485B	541-85-5	F2406	556-88-7	6380	584-79-2	PS-96
345-35-7	4715K	460-00-4	F833	499-81-0	7341F	527-72-0	8020	541-88-8	2845B	556-90-1	2566L	584-84-9	O-404
345-92-6	3831F	461-58-5	O-260	499-83-2	8010K	528-29-0	F2107	542-02-9	1530	556-91-2	1650E	584-84-9	F2139
346-06-5	9044K	461-72-3	5260K	500-05-0	3193F	528-44-9	8348E	542-10-9	O-493	557-04-0	S-107	584-93-0	2456B
348-51-6	F2168	461-98-3	1830K	501-30-4	5300	528-50-7	CARB-3	542-18-7	2950	557-05-1	S-116	585-70-6	2455K
348-54-9	4680K	462-06-6	O-684	501-52-0	O-85	528-75-6	1537L	542-52-9	Pz-32	557-07-3	S-117	585-71-7	2435K
349-75-7	9045K	462-06-6	F839	501-65-5	M-511-2	528-94-9	1939F	542-52-9	O-394	557-11-9	1640	585-76-2	2293E
349-76-8	8310	462-08-8	1890	502-42-1	3259F	529-20-4	F2176	542-58-5	3000	557-21-1	I-6560	585-99-9	CARB-14
349-95-1	9046K	462-10-2	1912L	502-44-3	2691F	529-34-0	3882B	542-59-6	O-459	557-25-5	O-461	586-37-8	2302L
350-03-8	1850F	462-94-2	3482H	502-49-8	3319F	529-35-1	8917K	542-69-8	5375F	557-30-2	PS-412	586-38-9	5620
350-30-1	2911K	464-06-2	O-2277	502-55-6	PS-66	529-64-6	8602F	542-75-6	PS-152	557-35-7	2392H	586-76-5	2292B
350-46-9	4750K	464-07-3	O-2055	502-56-7	O-2214	530-47-2	4332B	542-75-6	F33	557-40-4	O-559	586-77-6	2327B
351-35-9	9058K	464-48-2	1282L	502-72-7	1306L	530-57-4	7790B	542-76-7	O-848	557-42-6	I-6780	586-78-7	2384H
352-11-4	4794F	464-49-3	O-799	502-85-2	1708L	530-59-6	1444L	542-76-7	F2013	557-59-5	O-2330	586-89-0	1547F
352-21-6	1099L	464-49-3	F2404	503-38-8	9005K	530-62-1	1267L	542-83-6	I-2060	557-66-4	O-286	586-95-8	8038K
352-33-0	F2167	464-72-2	2215K	503-45-7	O-2283	531-55-5	BS-161	542-85-8	4645B	558-13-4	2758E	587-02-0	4256K
352-93-2	O-2047	465-73-6	PS-2103	503-66-2	1954L	531-57-7	BS-105	542-88-1	F17	558-32-7	7965E	587-03-1	6134K
353-83-3	5610K	465-73-6	F921	503-74-2	O-30	531-75-9	CARB-43	543-24-8	1573B	558-42-9	3042E	587-04-2	2890
354-38-1	9024K	467-55-0	1915L	503-87-7	2584L	531-85-1	F946	543-27-1	2559B	562-49-2	4254H	587-98-4	BS-16

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
588-07-8	2905F	595-91-5	8518A	609-99-4	4265F	616-05-7	2470K	622-78-6	2162F	628-76-2	0-637	638-68-6	0-2268		
588-64-7	1240L	596-03-2	BS-64	610-09-3	3266L	616-06-8	AA-16	622-96-8	0-2413	628-77-3	3935	638-68-6	F2297		
588-68-1	2160F	596-09-8	4789F	610-27-5	6500	616-12-6	0-2196	622-97-9	F2427	628-81-9	2589F	639-58-7	8556F		
589-10-6	2393E	596-43-0	8525A	610-28-6	3091L	616-20-6	3085B	623-03-0	2788K	628-87-5	5555K	640-15-3	PS-2233		
589-15-1	2395K	597-43-3	4268H	610-29-7	6480	616-23-9	0-185	623-05-2	5215E	628-94-4	0-249	640-19-7	PS-2029		
589-18-4	2151F	597-49-9	4665F	610-30-0	4246F	616-24-0	4510K	623-08-5	6446K	628-97-7	4690H	640-61-9	6000		
589-29-7	2073E	597-71-7	6777B	610-39-9	F2519	616-29-5	3390K	623-12-1	2870	628-99-9	6540H	641-70-3	6510		
589-34-4	0-2168	598-02-7	MET-90C	610-39-9	4267F	616-30-8	1885F	623-17-6	0-444	629-03-8	3550B	642-31-9	1051L		
589-38-8	5091H	598-03-8	7330F	610-40-2	2866K	616-38-6	0-396	623-24-5	3557	629-04-9	2345D	643-43-6	4260F		
589-41-3	5355E	598-04-9	2618F	610-49-1	0-2373	616-42-2	4197H	623-25-6	3705	629-05-0	0-2231	643-58-3	F1037		
589-43-5	0-2066	598-21-0	PS-273	610-67-3	6412B	616-44-4	5974F	623-26-7	7762H	629-06-1	3015	643-79-8	7071F		
589-53-7	0-2158	598-25-4	0-2140	610-71-9	3544F	616-45-5	0-321	623-27-8	8880K	629-11-8	0-196	643-93-6	F1038		
589-55-9	5022H	598-31-2	F2011	610-96-8	5742F	616-75-1	2280K	623-33-6	0-462	629-25-4	S-31	644-08-6	F1039		
589-62-8	6675J	598-32-3	2493F	610-99-1	5472K	616-82-0	1930L	623-37-0	0-2127	629-27-6	5406F	644-35-9	7145H		
589-75-3	2605H	598-38-9	3566K	611-01-8	4040F	616-86-4	4490F	623-42-7	0-422	629-30-1	5005F	644-36-0	8976K		
589-81-1	0-2157	598-50-5	6010	611-06-3	PS-2268	616-91-1	1618L	623-43-8	5747F	629-50-5	0-2273	644-97-3	0-923		
589-91-3	0-161	598-52-7	6001C	611-06-3	PS-2268	617-04-9	CARB-46	623-46-1	F2398	629-54-9	2827L	645-00-1	6390		
589-92-4	0-2151	598-55-0	1999L	611-06-3	F2902	617-27-6	1012L	623-47-2	4500K	629-59-4	0-2262	645-09-0	6517K		
589-93-5	5510	598-62-9	I-4163	611-08-5	6595B	617-33-4	4565F	623-49-4	4545B	629-59-4	F2197	645-31-8	2878L		
590-01-2	0-2408	598-63-0	I-3430	611-09-6	6352F	617-35-6	4669F	623-50-7	4298K	629-62-9	0-2238	645-35-2	AA-11		
590-14-7	2402B	598-64-1	4059B	611-10-9	4550	617-36-7	4661J	623-51-8	0-466	629-66-3	0-2209	645-36-3	1642F		
590-17-0	2375K	598-72-1	F2444	611-14-3	0-2306	617-45-8	0-72	623-57-4	4035B	629-73-2	0-2107	645-49-8	7741F		
590-28-3	PS-289	598-75-4	5722F	611-15-4	F2426	617-45-8	AA-4	623-71-2	4538F	629-76-5	0-2239	645-78-3	PS-2181		
590-28-3	I-97	598-78-7	0-43	611-17-6	2815K	617-48-1	0-76	623-76-7	3842E	629-78-7	0-2110	645-92-1	MET-380E		
590-35-2	0-2276	598-92-5	3084K	611-19-8	0-681	617-52-7	Pz-37	623-81-4	3860	629-82-3	4285F	646-04-8	0-2249		
590-46-5	0-35	598-98-1	5985F	611-21-2	6442K	617-52-7	0-489	623-91-6	Pz-34	629-92-5	0-2203	646-06-0	4275E		
590-67-0	5749F	598-99-2	F2028	611-35-8	1327L	617-84-5	3807A	623-91-6	0-481	629-92-5	F2269	646-19-5	3477H		
590-73-8	4080H	599-04-2	6873K	611-70-1	5423F	617-89-0	4883A	623-96-1	4272F	629-94-7	0-2108	646-24-2	N-220		
590-86-3	0-2136	599-61-1	3461A	611-72-3	0-106	617-94-7	0-215	624-10-2	Pz-65	629-96-9	0-2096	646-25-3	3472H		
590-86-3	F2331	599-64-4	6972K	611-73-4	2131F	618-36-0	5705H	624-10-2	0-503	629-97-0	0-2089	646-30-0	0-2326		
590-92-1	2403F	599-69-9	0-967	611-74-5	F2259	618-45-1	5705K	624-18-0	6930F	629-97-0	F2194	646-31-1	0-2264		
591-01-5	1840L	600-00-0	4534E	611-95-0	2235K	618-48-4	2764K	624-24-8	0-2331	629-99-2	0-2246	646-31-1	F2198		
591-08-2	0-982	600-05-5	F2286	611-97-2	4041E	618-56-4	3439F	624-28-2	3437K	630-01-3	0-2120	652-29-9	6771F		
591-08-2	F2086	600-07-7	6164K	611-99-4	3885	618-62-2	PS-2271	624-31-7	0-687	630-01-3	F2195	652-36-8	7857A		
591-12-8	1999E	600-14-6	0-818	612-05-5	CARB-48	618-62-2	F2905	624-41-9	1525J	630-02-4	0-2227	653-14-5	5508F		
591-17-3	2452B	600-18-0	1960L	612-16-8	5994K	618-80-4	1759L	624-48-6	4130	630-02-4	F2196	657-27-2	0-38		
591-19-5	2296B	600-22-6	6397K	612-23-7	6330	618-83-7	5282F	624-49-7	4100J	630-06-8	0-2128	657-27-2	AA-14		
591-20-8	3265L	600-25-9	0-864	612-24-8	6284	618-88-2	6393A	624-73-7	3800K	630-17-1	2315H	657-84-1	8050H		
591-22-0	5531D	600-36-2	3999H	612-25-9	6532K	618-94-0	6280	624-75-9	5371F	630-18-2	9071K	658-78-6	2257L		
591-23-1	0-160	601-34-3	1333L	612-28-2	6301K	618-95-1	5872E	624-83-9	0-2179	630-20-6	F813	660-60-6	S-99		
591-24-2	0-2153	601-77-4	F2009	612-41-9	2374L	619-05-6	3437F	624-84-0	4860	630-60-4	6737F	660-68-4	0-281		
591-27-5	0-882	601-89-8	6520	612-60-2	5955B	619-08-9	MET-669A	624-92-0	0-2311	630-88-6	3680E	661-19-8	0-2090		
591-35-5	0-2346	602-01-7	4268F	612-75-9	F1017	619-14-7	5318F	625-27-4	0-2182	631-40-3	2596L	661-36-9	7932C		
591-47-9	0-755	602-55-1	F1048	612-78-2	F1027	619-17-0	2215L	625-30-9	1955K	631-57-2	7385F	665-46-3	7825A		
591-49-1	0-2152	602-87-9	F2124	612-82-8	8043F	619-23-8	3053F	625-45-6	0-54	631-61-8	I-6	665-66-7	1580		
591-50-4	0-686	603-11-2	6490	612-83-9	F945	619-24-9	6283	625-52-5	4753E	631-64-1	F2033	666-52-4	1535E		
591-68-4	2650H	603-32-7	8530	612-94-2	0-2368	619-31-8	1543L	625-53-6	1582L	632-22-4	7961A	670-54-2	7799B		
591-76-4	0-2167	603-34-9	F2260	613-12-7	F1035	619-33-0	3656F	625-65-0	0-2086	632-69-9	BS-70	670-80-4	6040		
591-78-6	F708	603-35-0	8550	613-13-8	0-2374	619-42-1	5730	625-69-4	6806H	632-79-1	7797A	671-04-5	PS-1085		
591-80-0	6790	603-45-2	BS-108	613-31-0	F1012	619-44-3	5841B	625-80-9	5456B	632-93-9	3785A	671-51-2	4503F		
591-87-7	0-405	603-48-5	5830F	613-33-2	F1018	619-45-4	5708B	625-84-3	3956K	632-99-5	BS-50	673-22-3	1825L		
592-01-8	I-2210	603-51-0	1471L	613-40-1	7015B	619-55-6	8971K	625-98-9	0-2409	633-03-4	BS-45	675-10-5	5404K		
592-04-1	I-4400	603-62-3	6514B	613-45-6	3961B	619-56-7	2767K	626-03-9	3794K	633-31-8	1330L	680-31-9	Ou-96		
592-13-2	0-2067	603-76-9	5840F	613-46-7	6120	619-66-9	2755B	626-05-1	3434K	633-96-5	BS-24	680-31-9	F2115		
592-20-1	0-464	603-83-8	5870E	613-50-3	6516B	619-67-0	5270K	626-15-3	F1096	634-35-5	4730	683-18-1	0-994		
592-27-8	0-2156	604-32-0	3064L	613-54-7	2286F	619-72-7	2980L	626-16-4	3702H	634-36-6	9063K	683-72-7	3659F		
592-31-4	2640K	604-35-3	2740L	613-73-0	6970J	619-73-8	6310	626-17-5	3632K	634-66-2	F2048	684-93-5	5878C		
592-34-7	0-448	604-44-4	3027K	613-91-2	1505K	619-80-7	6270	626-18-6	8783F	634-67-3	8997K	685-73-4	4897E		
592-35-8	0-2404	604-53-5	F1004	613-93-4	6116K	619-82-9	5051E	626-19-7	5669K	634-90-2	F2049	685-87-0	0-513		
592-41-6	0-752	604-69-3	1858L	613-94-5	2190K	619-84-1	3848K	626-35-7	4655H	634-91-3	8999K	685-91-6	3743A		
592-42-7	0-2113	605-02-7	F1049	614-00-6	0-370	619-89-6	6350	626-39-1	F1095	634-93-5	F2508	688-12-0	2740K		
592-43-8	0-753	605-39-0	F1016	614-16-4	2225K	619-99-8	4520J	626-43-7	MET-1052B	634-97-9	8050K	688-37-9	S-88		
592-48-3	0-2121	605-54-9	Pt-4	614-18-6	4660	620-02-0	6245K	626-48-2	3775K	635-21-2	1680F	688-74-4	8200E		
592-55-2	2332F	605-54-9	0-546	614-19-7	1960K	620-14-4	0-2307	626-55-1	2410F	635-22-3	3039K	690-08-4	0-2279		
592-57-4	0-2019	605-54-9	F2312	614-48-2	6265B	620-17-7	4702H	626-56-2	6361K	635-39-2	1849L	691-37-2	0-2183		
592-65-4	2617F	605-69-6	BS-3	614-60-8	1831L	620-20-2	2824K	626-58-4	6364K	635-46-1	8929K	691-38-3	5928H		
592-76-7	0-2116	606-20-2	F36	614-61-9	PS-38	620-23-5	F2177	626-60-8	3150K	636-09-9	F2249	692-24-0	0-2171		
592-77-8	0-751	606-23-5	5365	614-68-6	8077F	620-24-6	5221E	626-64-2	8025K	636-13-5	I-4140	692-70-6	4089H		
592-78-9	0-2104	606-45-1	5847F	614-94-8	2380L	620-40-6	0-357	626-67-5	MET-1047A	636-21-5	8050J	693-05-0	5702F		
592-82-5	2600	606-83-7	4300F	614-96-0	5839B	620-42-8	8611B	626-82-4	2603H	636-28-2	7791E	693-13-0	2283F		
592-84-7	2592A	606-93-9	4564F	614-97-1	5710F	620-45-1	3686E	626-88-0	2357H	636-30-6	F2509	693-23-2	4390H		
592-85-8	I-4470	607-00-1	4332E	615-05-4	0-2416	620-79-1	4517F	626-93-7	0-2126	636-46-4	5301C	693-54-9	0-2032		
592-87-0	I-3650	607-24-9	2254L	615-13-4	5371E	620-81-5	Ou-81	626-97-1	9140K	636-87-3	6623F	693-58-3	2388H		
592-88-1	0-2037	607-32-9	2236L	615-15-6	5714F	620-81-5	0-265	627-00-9	2930F	636-98-6	5598K	693-65-2	6810		
593-08-8	0-2271	607-34-1	6586K	615-16-7	5214J	620-88-2	6365	627-13-4	0-833	637-03-6	2482L	693-67-4	2568K		
593-26-0	S-57	607-35-2	6517B	615-18-9	2910F	621-14-7	4336B	627-18-9	2400	637-12-7	S-87	693-98-1	5835		
593-45-3	0-739	607-81-8	3742F	615-20-3	2791K	621-29-4	8140B	627-19-0	0-2250	637-27-4	7035F	694-05-3	8926K		
593-45-3	F2188	607-85-2	5713K	615-21-4	5143B	621-33-0	6833B	627-20-3	0-2243	637-44-5	2569L	694-80-4	2304B		
593-51-1	0-290	607-97-6	4587A	615-22-5	3079L	621-36-3	8975K	627-21-4	0-2251	637-50-3	6409K	694-85-9	5944F		
593-56-6	5973K	608-25-3	5965E	615-28-1	6962B	621-42-1	1430K	627-27-0	2494F	637-55-8	7043B	695-12-5	8743F		
593-81-7	0-298	608-27-5	3476K	615-35-0	4137F	621-59-0	1933L	627-30-5	8470	637-56-9	2407L	695-34-1	1819B		
594-14-9	5000	608-31-1	3658D	615-36-1	2298A	621-62-5	2903F	627-35-0	6382K	637-59-2	2520K	696-23-1	5865F		
594-20-7	F823	608-33-3	3431K	615-37-2	5415F	621-64-7	F63	627-42-9	2899K	637-61-6	7210H	696-44-6	6444K		
594-36-5	0-626	608-66-2	CARB-27	615-43-0	5372F	621-77-2	8200F	627-45-2	4610	637-64-9	0-447	696-54-8	8004K		
594-39-8	2013K	608-71-9	6801A	615-47-4	2080	621-79-4	1360L	627-58-7	0-2065	637-69-4	8710F	696-59-3	3977E		
594-42-3	PS-224	608-73-1	PS-70	615-50-9	3492E	621-95-4	1612L	627-91-8	6027A	637-87-6	2935K	696-63-9	5989K		
594-44-5	0-973	608-93-5	F938	615-57-6	3542C	622-03-7	0-725	627-93-0	Pz-20	637-92-3	F2462	697-82-5	8530F		
594-45-6	4453F	609-06-3	CARB-23	615-58-7	F2496	622-21-9	4334E	627-93-0	0-487	637-97-8	1954F	697-91-6	3521K		
594-56-9	0-2280	609-08-5	3680K	615-59-8	F1094	622-22-0	3530	627-97-4	0-2160	638-03-9	8120	698-31-7	6521		
594-61-6	5280F	609-14-3	4650H	615-60-1	3160F	622-24-2	3010	628-02-4	2685F	638-16-4	9097K	699-02-5	6331K		
594-65-0	8220	609-15-4	4271K	615-65-6	2962K	622-40-2	5253F	628-17-1	2014K	638-36-8	F2526	699-98-9	7343F		
594-72-9	PS-5	609-19-8	0-2347	615-67-8	2920K	622-45-7	0-411	628-20-6	2930	638-38-0	I-4100	700-12-9	6776F		
595-30-2	2709A	609-22-3	0-2410	615-74-7	3268L	622-46-8	2455L	628-61-5	3072E	638-39-1	I-5940	701-82-6	5440K		
595-37-9	3887K	609-23-4	2581L	615-93-0	3518K	622-47-9	8133D	628-63-7	0-2003	638-45-9	5381F	703-80-0	1525K		
595-46-0	4145E	609-54-1	8760	615-94-1	3887B	622-59-3	6346K	628-63-7	F2533	638-53-9	0-2323	704-13-2	1969L		
595-89-1	7850H	609-66-5	2770K	616-02-4	0-125	622-60-6	5729J	628-68-2	0-506	638-65-3	7734F	707-07-3	9081K		
595-90-4	0-997	609-72-3	4236F	616-04-6	6253K	622-61-7	0-598	628-73-9	5090F	638-67-5	0-2270	708-06-5	5412K		

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
709-50-2	CARB-45	822-38-8	1615L	923-06-8	2430	1004-76-8	3381K	1123-40-6	4081F	1306-23-6	I-2160	1401-55-4	O-108
709-63-7	8312	822-87-7	2845K	923-32-0	1393L	1005-38-5	1015L	1124-05-6	3704E	1306-38-3	RE-20	1405-10-3	PS-2201
709-98-8	PS-356	823-40-5	F2417	924-16-3	F930	1006-94-6	5632B	1124-33-0	6583K	1308-06-1	I-2790	1405-10-3	6151F
709-98-8	F2379	824-11-3	4690F	924-41-4	5043F	1007-28-9	MET-58A	1125-78-6	8918K	1308-38-9	I-2670	1421-49-4	3600
711-79-5	5190	824-35-1	I-2385	925-15-5	Pz-68	1008-72-6	4855	1126-09-6	4319K	1309-37-1	I-3150	1437-15-6	2273C
712-50-5	2132F	824-40-8	7106F	925-83-7	7538	1009-14-9	F2254	1126-78-9	2520	1309-42-8	I-4005	1438-16-0	1993K
712-97-0	2227L	824-45-3	3878K	926-39-6	O-940	1009-61-6	3422F	1126-79-0	2616F	1309-48-4	I-4030	1439-07-2	8850K
717-74-8	F2464	824-69-1	3673E	926-82-9	4068H	1014-70-6	PS-381	1127-76-0	F1029	1309-60-0	I-3490	1443-80-7	1546F
719-59-5	1677F	824-72-6	O-924	927-68-4	2340	1014-70-6	F2234	1128-67-2	2041L	1309-64-4	I-1620	1444-65-1	6924F
722-27-0	1882E	824-78-2	6416F	928-04-1	1565B	1019-57-4	F2338	1129-41-5	PS-2096	1310-53-8	RE-90	1445-69-8	7065F
723-46-6	PS-2329	824-79-3	8060	928-51-8	2921F	1022-22-6	MET-699B	1132-21-4	3973	1310-58-3	I-103	1445-73-4	5912F
725-00-8	F2354	825-51-4	3363K	929-06-6	1845K	1024-57-3	PS-700	1134-23-2	PS-502	1310-65-2	I-3820	1446-61-3	3852A
726-42-1	4405E	825-90-1	6843B	929-77-1	O-2340	1024-57-3	F101	1134-23-2	F2227	1310-66-3	I-3825	1447-14-9	3575K
731-27-1	PS-2060	826-62-0	O-123	930-22-3	2468E	1031-07-8	PS-81-3	1135-24-6	5310	1310-73-2	I-136	1448-98-2	3240K
732-11-6	PS-653	826-81-3	5338F	930-55-2	F935	1031-07-8	F97	1136-45-4	6349K	1310-82-3	I-5200	1450-85-7	5948K
732-11-6	F2129	827-21-4	4036F	930-68-7	3306F	1058-92-0	BS-30	1137-41-3	1630K	1311-10-0	I-6070	1453-82-3	5657K
733-44-8	7840	827-27-0	I-5745	930-87-0	8531F	1064-48-8	BS-33	1138-80-3	2692K	1311-11-1	I-3520	1455-77-2	1846L
741-58-2	PS-425	827-52-1	O-772	930-88-1	6277K	1066-33-7	I-7	1140-14-3	4040	1312-43-2	RE-120	1457-46-1	7040F
741-58-2	F2383	827-54-3	O-2369	931-17-9	MET-858B	1066-51-9	MET-1051A	1141-88-4	1881F	1312-73-8	I-5130	1459-00-3	2485K
754-10-9	9067K	827-94-1	F2505	931-88-4	3318H	1067-33-0	O-993	1142-20-7	2689K	1312-76-1	I-5105	1459-10-5	F2465
756-79-6	4138A	828-51-3	1575F	932-52-5	2012K	1067-52-3	8219F	1144-74-7	6526K	1312-81-8	I-3380	1459-93-4	Pz-42
758-96-3	5498A	830-03-5	6407H	932-90-1	2175K	1068-22-0	3668K	1145-56-8	2752K	1313-13-9	I-73	1459-93-4	Pt-26
759-73-9	6397J	830-09-1	6016K	932-96-7	2959K	1068-57-1	1520	1146-65-2	F310	1313-27-5	I-4510	1459-93-4	O-527
759-94-4	PS-54	830-13-7	3253F	933-52-8	7940	1068-90-2	3750	1153-05-5	8538F	1313-84-4	I-149	1460-02-2	8987K
759-94-4	F2229	830-81-9	6000H	933-67-5	5840	1069-31-4	2800L	1155-00-6	6571K	1313-96-8	RE-60	1460-57-7	3274E
760-20-3	O-2194	830-96-6	PS-321	933-75-5	F2300	1070-83-3	2595F	1155-62-0	1366L	1313-99-1	I-4675	1461-22-9	F2909
760-21-4	O-2100	831-59-4	O-954	933-78-8	F2299	1071-83-6	PS-1051	1157-84-2	F2341	1314-06-3	I-4670	1461-25-2	7793F
760-78-1	AA-17	832-64-4	F2572	934-32-7	MET-222A	1072-35-1	S-104	1160-54-9	1651L	1314-11-0	RE-210	1462-03-9	5759F
762-04-9	3832B	832-69-9	F1042	934-34-9	O-712	1072-43-1	7320F	1162-06-7	2599L	1314-13-2	I-6640	1464-44-4	CARB-49
762-42-5	3996B	834-12-8	PS-383	935-30-8	2034F	1072-63-5	8741F	1163-19-5	3371C	1314-23-4	RE-290	1464-53-5	F2015
762-62-9	O-2087	834-12-8	F2209	935-95-5	F1098	1072-67-9	1907K	1182-66-7	3031L	1314-32-5	I-6155	1465-25-4	6141C
762-63-0	O-2278	835-11-0	3758K	936-02-7	8803K	1072-71-5	2950L	1185-57-5	I-3102	1314-34-7	I-6465	1466-76-8	3970
762-75-4	F2916	835-64-3	5335J	936-52-7	3350	1072-85-1	O-2308	1185-57-5	I-3100	1314-41-6	I-3555	1467-79-4	3890K
763-29-1	O-2181	838-88-0	O-2399	937-30-4	4244K	1072-97-5	1057L	1187-03-7	7849F	1314-56-3	I-4830	1470-94-6	5429F
763-30-4	O-2190	841-06-5	PS-2122	937-39-3	2476L	1072-98-6	1740K	1187-42-4	3384K	1314-60-9	I-1530	1475-13-4	3572K
763-32-6	5730F	842-18-2	6115B	938-42-1	1600L	1073-23-0	5530	1187-58-2	5930	1314-61-0	RE-220	1476-11-5	F2922
764-13-6	O-2063	844-51-9	4283E	938-55-6	4025J	1073-29-6	5839H	1187-84-4	2059L	1314-80-3	I-4820	1477-50-5	5342F
764-35-2	O-2131	845-10-3	6406K	938-73-8	4210K	1073-67-2	3141F	1190-22-3	F2480	1314-85-8	I-4840	1477-55-0	8778A
764-41-0	O-658	846-70-8	BS-4	939-23-1	2416L	1073-70-7	3098B	1191-08-8	2477F	1314-87-0	I-3620	1482-97-9	3473F
764-41-0	F976	853-35-0	2005	939-27-5	F1030	1073-72-9	5980	1191-43-1	5116C	1314-95-0	I-6055	1484-13-5	8730
764-93-2	O-2038	860-22-0	BS-93	940-31-8	PS-37	1074-12-0	6949F	1191-50-0	S-380	1314-98-3	I-6740	1484-26-0	2164F
765-09-3	2415H	865-47-4	I-4965	941-98-0	O-819	1074-24-4	3558E	1192-28-5	3297K	1315-01-1	I-6050	1484-50-0	2401F
765-30-0	3305K	865-49-6	3020E	942-01-8	7876A	1075-76-9	1111L	1192-30-9	7905F	1315-04-4	I-1520	1493-27-2	4740K
765-69-5	5758F	865-50-9	M-361-3	943-15-7	6547K	1076-38-6	MET-104B	1192-58-1	5949F	1317-33-5	RE-150	1498-64-2	4283K
765-70-8	6196K	867-13-0	8295C	943-37-3	1585L	1076-43-3	F900	1192-62-7	O-2401	1317-36-8	I-63	1499-10-1	F1028
766-09-6	4712E	867-44-7	3115L	944-22-9	PS-664	1076-74-0	5633B	1193-02-8	1913A	1317-37-9	I-58	1499-55-4	4900K
766-39-2	4102A	867-55-0	5482A	944-22-9	F2424	1076-98-8	4402A	1193-10-8	5439F	1317-38-0	I-7029	1501-82-2	O-2021
766-51-8	2870C	868-14-4	I-4960	944-22-9	F2424	1077-16-3	O-2253	1193-12-0	O-2422	1317-39-1	I-2980	1513-65-1	3730K
766-80-3	2812K	868-16-6	I-3740	945-51-7	6935H	1077-28-7	V-5	1193-24-4	3928B	1317-40-4	I-3020	1515-14-6	F2555
766-93-8	3314E	868-17-7	I-3910	947-02-4	PS-842	1078-71-3	F2934	1193-55-1	2050L	1317-42-6	I-2870	1516-32-1	1453L
767-00-0	3243F	868-59-7	3351B	947-04-6	2035F	1078-71-3	6950F	1193-65-3	7409F	1320-06-5	BS-159	1517-22-2	F208
767-15-7	1825K	868-85-9	4195B	947-42-2	4340	1079-21-6	F2166	1193-92-6	8002K	1321-74-0	3950K	1519-36-4	3869K
767-59-9	F2469	869-19-2	1660L	947-91-1	3974K	1079-66-9	4334B	1194-02-1	4792F	1323-38-2	S-239	1520-96-3	F750
767-60-2	F1041	869-24-9	3175A	950-10-7	PS-1026	1080-32-6	3750A	1194-65-6	PS-392	1323-38-2	S-184	1521-38-6	3967
768-52-5	F2419	869-29-4	O-495	950-35-6	PS-613	1081-15-8	F2347	1195-16-0	1566F	1323-38-2	Pz-855	1522-22-1	5050F
768-66-1	7952F	870-46-2	2570	950-35-6	F2245	1085-98-9	PS-2047	1195-42-2	5452C	1323-39-3	S-218	1527-89-5	5659H
769-78-8	8713F	870-72-4	7635B	950-35-6	F2245	1095-66-5	S-70	1195-45-5	4803F	1323-39-3	Pz-795	1527-96-4	F2343
769-92-6	2595K	871-83-0	O-2177	950-37-8	PS-679	1099-45-2	2753C	1195-59-1	2479L	1323-65-5	S-308	1527-97-5	F2349
770-71-8	1577F	871-84-1	O-2230	952-23-8	3431F	1100-88-5	2161E	1195-79-5	O-803	1323-83-7	S-234	1527-98-6	F2342
771-61-9	F440	872-05-9	O-2033	953-17-3	MET-88A	1113-02-6	PS-2017	1197-55-3	1126L	1324-21-6	BS-155	1528-49-0	Pz-707
771-90-4	5850E	872-50-4	O-2313	953-26-4	1579L	1113-41-3	6877K	1198-27-2	1853F	1325-37-7	BS-145	1528-74-1	4248F
771-97-1	O-2388	872-85-5	7096K	957-51-7	PS-350	1113-59-3	2541K	1199-46-8	1690K	1327-53-3	I-1690	1529-68-6	O-650
771-99-3	O-2414	873-32-5	MET-2015A	957-51-7	F2228	1114-34-7	CARB-11	1199-77-5	6184K	1328-51-4	BS-124	1532-72-5	5721K
776-34-1	O-2379	873-49-4	3365J	959-28-4	M-1A1-2	1114-71-2	PS-55	1200-03-9	6920K	1330-20-7	O-2294	1534-08-3	F2939
776-35-2	F1013	873-62-1	3264K	959-98-8	PS-81-1	1114-71-2	F2233	1200-14-2	2600F	1330-43-4	I-1960	1534-27-6	4412F
777-37-7	3069K	873-63-2	2915	959-98-8	F202	1115-08-8	O-2191	1201-38-3	3959E	1330-78-5	Pz-86	1539-04-4	4345C
778-28-9	2630	873-66-5	6412K	960-25-8	MET-671A	1115-20-4	6153	1202-34-2	4373F	1330-78-5	Pz-86	1541-23-7	O-2111
779-02-2	F1036	873-69-8	8000K	961-11-5	PS-611	1115-59-9	1560K	1202-39-7	3557K	1330-78-5	F2147	1546-79-8	3187L
781-35-1	4282F	873-74-5	1279L	961-11-5	F2069	1115-69-1	M-451-1	1205-02-3	2136F	1330-86-5	Pz-315	1548-00-1	2668L
781-43-1	F1015	873-83-6	1800K	962-58-3	MET-90A	1116-24-1	3986K	1205-91-0	O-540	1332-65-6	PS-292	1555-53-9	S-108
781-73-7	1003L	873-94-9	8450	975-17-7	8310H	1116-54-7	F2008	1210-35-1	3503F	1332-81-6	I-1580	1559-02-0	3770
784-14-5	F2162	874-23-7	1560	981-87-3	8258C	1116-76-3	8525F	1214-39-7	PS-2206	1333-82-0	I-42	1562-85-2	BS-96
786-19-6	PS-88	874-42-0	3660	992-59-6	BS-36	1117-71-1	5715F	1219-99-4	MET-59A	1333-83-1	I-5440	1562-94-3	2025K
786-19-6	F2096	874-90-8	2003F	992-98-3	I-6154	1118-12-3	2640	1226-46-6	1231L	1335-32-6	I-3395	1563-38-8	MET-754B
787-84-8	3530H	875-79-6	4122B	994-05-8	F2461	1119-34-2	AA-3	1239-45-8	3463H	1335-86-0	5755F	1563-66-2	PS-754
789-02-6	PS-698	877-09-8	F903	996-19-0	1730	1119-40-0	4120H	1241-94-7	Pz-655	1336-21-6	I-9	1563-66-2	F2006
789-02-6	F2307	877-11-2	F2149	996-23-6	4955B	1119-46-6	3174C	1260-17-9	BS-97	1336-93-2	S-110	1563-90-2	1555B
789-47-9	1732L	877-24-7	7096H	998-40-3	8210B	1119-49-9	2587F	1271-28-9	3734F	1338-14-3	S-103	1565-81-7	3383F
791-28-6	8542F	877-43-0	4210	999-21-3	O-469	1119-85-3	3725	1271-42-7	4760	1338-23-4	F2409	1567-89-1	F2339
804-63-7	2989L	879-39-0	8895K	999-64-4	2393H	1120-06-5	3381F	1271-55-2	1562F	1338-24-5	S-14	1569-69-3	3291K
814-89-1	I-2785	882-09-7	3090K	999-81-5	PS-363	1120-21-4	O-2290	1271-86-9	2332L	1338-39-2	S-259	1570-64-5	MET-40A
814-94-8	I-6010	882-33-7	6930	999-81-5	1348L	1120-21-4	F2415	1291-32-3	3730C	1338-41-6	S-264	1570-65-6	3578K
817-09-4	2575L	886-50-0	PS-379	999-97-3	5045B	1120-28-1	O-2338	1300-35-2	I-1150	1338-43-8	S-269	1571-13-7	7803E
818-08-6	3640	886-50-0	F2207	1000-86-8	O-2082	1120-36-1	O-2263	1300-72-7	S-418	1341-49-7	I-1230	1571-33-1	O-911
818-23-5	6786J	886-65-7	4278E	1000-87-9	7919F	1120-46-3	S-105	1302-42-7	I-5380	1343-98-2	M-8A1-5	1572-52-7	5825
818-38-2	3763F	897-06-3	1986	1001-53-2	1615H	1120-99-6	2005K	1302-78-9	I-1840	1344-09-8	I-5795	1576-35-8	8070
818-61-1	5252F	900-95-8	PS-1021	1002-33-1	O-2228	1121-37-5	3732F	1302-81-4	I-1190	1344-28-1	M-47C1-7	1582-09-8	PS-393
821-06-7	3500F	910-31-6	1321L	1002-62-6	S-30	1121-47-7	4870K	1303-33-9	I-1695	1344-28-1	M-32AB-9	1582-09-8	F2140
821-38-5	4392H	915-67-3	BS-132	1002-84-2	O-2324	1121-60-4	2395L	1303-86-2	I-1974	1344-28-1	I-1140	1585-16-6	3030H
821-48-7	1201L	918-00-3	F2027	1002-89-7	S-58	1121-76-2	3162K	1303-96-4	S-645	1344-28-1	I-1010	1588-83-6	1081L
821-55-6	O-2213	919-86-8	PS-1096	1003-03-8	3327F	1121-89-7	4910K	1303-96-4	I-126	1344-40-7	I-3560	1589-62-4	F2344
821-95-4	O-2293	920-37-6	F2553	1003-09-4	2435C	1122-17-4	3677B	1304-28-5	I-1780	1344-43-0	I-4250	1591-30-6	1189L
822-06-0	F2418	920-66-1	F2554	1003-29-8	7369F	1122-58-3	3857K	1304-29-6	I-1740	1345-04-6	I-1630	1592-23-0	S-92
822-12-8	S-32	921-53-9	I-5150	1003-73-2	7102F	1122-60-7	6342F	1304-56-9	RE-15	1393-92-6	5530H	1592-23-0	Ou-63
822-16-2	S-34	922-28-1	4067H	1003-78-7	O-2080	1122-91-4	2294F	1305-62-0	I-34	1398-61-4	CARB-34	1593-77-7	PS-1086
822-23-1	O-435	922-62-3	O-2195	1004-38-2	8175E	1122-96-9	5689B	1305-78-8	I-36	1399-80-0	S-617	1596-84-5	PS-391
822-36-6	2341L	922-67-8	6379K	1004-39-3	3387K	1123-00-8	3326F	1306-19-0	I-2120	1400-62-0	6723J	1599-67-3	O-2091

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
1600-27-7	I-76	1746-81-2	PS-2210	1928-38-7	F955	2110-78-3	5844F	2315-36-8	2960	2545-59-7	PS-309	2921-88-2	PS-674
1603-40-3	1975K	1757-18-2	PS-675	1928-43-4	PS-319-1	2113-57-7	2321G	2316-26-9	3975F	2545-59-7	F2362	2921-88-2	F2057
1603-41-4	1825B	1760-24-3	2557L	1928-43-4	F2363	2113-68-0	4281H	2321-07-5	BS-63	2547-61-7	O-975	2923-18-4	8300
1603-79-8	4262K	1761-61-1	2410	1928-47-8	PS-297-1	2114-00-3	1564L	2338-05-8	I-3110	2549-93-1	3260	2924-16-5	4775K
1603-91-4	1929K	1762-95-4	I-17	1929-73-3	PS-315	2114-39-8	2398H	2345-28-0	O-2244	2550-73-4	2437L	2935-44-6	5115C
1608-26-0	5100B	1765-40-8	F2303	1929-73-3	F2360	2122-70-5	PS-335	2346-00-1	5972F	2553-19-7	4284F	2937-53-3	1726L
1610-17-9	PS-395	1766-76-3	3355K	1929-77-7	PS-504	2131-55-7	3105K	2349-58-8	1504L	2564-95-6	PS-340	2944-49-2	4038F
1610-17-9	F2211	1770-80-5	F850	1929-77-7	F2213	2131-61-5	6577K	2349-67-9	1045L	2570-63-0	I-6150	2958-36-3	1084L
1610-18-0	PS-386	1772-03-8	CARB-41	1929-82-4	PS-419	2133-34-8	1129L	2353-45-9	BS-46	2571-00-8	F2357	2969-81-5	4520E
1610-18-0	F2210	1772-43-6	8497F	1929-88-0	PS-1201	2136-79-0	MET-33B	2361-27-5	8959K	2571-88-2	S-663	2973-19-5	1339L
1615-02-7	2843K	1773-44-0	F2356	1930-72-9	2878K	2136-79-0	F2178	2362-10-9	2235E	2576-47-8	2331A	2974-90-5	9001G
1617-17-0	3144K	1774-35-2	8143B	1934-16-3	BS-153	2136-89-2	3043L	2363-71-5	O-2328	2578-45-2	2884K	2974-92-7	3627G
1619-34-7	7445B	1777-82-8	3533K	1934-21-0	BS-31	2136-99-4	6684G	2364-54-7	6570	2580-56-5	BS-148	2976-75-2	6129F
1619-62-1	3662K	1779-48-2	O-912	1934-75-4	8815K	2138-48-9	5693K	2365-48-2	6430K	2581-34-2	MET-678B	2980-59-8	S-102
1620-14-0	3736F	1779-49-3	6005B	1936-15-8	BS-28	2141-62-0	O-844	2371-19-9	O-2155	2582-30-1	1735E	2984-50-1	6690
1632-16-2	O-2101	1779-81-3	1063L	1937-19-5	1863K	2142-63-4	2380K	2373-51-5	3009K	2588-03-6	MET-654C	2985-59-3	Ou-93
1633-05-2	I-6065	1783-81-9	5843C	1937-37-7	BS-42	2142-73-6	3996F	2379-55-7	4215E	2588-04-7	MET-654B	2986-17-6	3980J
1634-04-4	F909	1784-03-8	2590L	1940-42-7	MET-677B	2150-44-9	6239K	2381-85-3	BS-80	2593-15-9	PS-264	2987-53-3	6280K
1634-78-2	MET-86C	1787-61-7	BS-22	1940-42-7	MET-2009A	2150-47-2	5760H	2382-96-9	5920K	2593-15-9	F2202	2996-92-1	7043F
1634-82-8	5211J	1792-17-2	O-2420	1940-42-7	F2926	2154-67-8	2794L	2384-70-5	O-2039	2593-15-9	F2202	2998-04-1	O-468
1637-73-6	1984L	1795-48-8	5701K	1942-45-6	O-2232	2157-01-9	6711J	2384-85-2	O-2040	2595-54-2	PS-2283	2998-08-5	2400J
1639-09-4	O-2124	1798-09-0	5634B	1942-46-7	O-2042	2157-19-9	MET-81A	2384-86-3	O-2041	2597-03-7	PS-2025	3007-31-6	O-2045
1639-66-3	S-458-1	1798-11-4	6562K	1942-52-5	1567L	2160-93-2	2575C	2385-85-5	PS-702	2599-11-3	MET-58B	3010-04-6	2592K
1641-17-4	5345K	1801-42-9	1555L	1942-71-8	MET-858A	2160-94-3	1342L	2385-85-5	F2121	2610-05-1	BS-139	3010-96-6	7957C
1643-19-2	7791F	1805-32-9	3506K	1948-33-0	O-900	2163-68-0	MET-380F	2386-54-1	2484F	2611-82-7	BS-133	3011-34-5	1693L
1646-75-9	MET-734A	1806-26-4	F2937	1953-99-7	F2931	2163-80-6	PS-429	2387-23-7	3729J	2612-02-4	5305B	3012-37-1	PS-98
1646-87-3	PS-1054	1806-29-7	2160G	1965-09-9	6743B	2164-08-1	PS-415	2390-59-2	BS-55	2622-26-6	8243F	3012-37-1	O-402
1646-87-3	F2004	1806-34-4	2310F	1974-05-6	2326H	2164-09-2	PS-63	2393-23-9	5629F	2627-86-3	5712F	3012-65-5	I-1270
1646-88-4	PS-1055	1809-19-4	O-913	1982-47-4	PS-376	2164-17-2	PS-369	2396-63-6	O-2114	2631-37-0	PS-2027	3017-95-6	O-606
1646-88-4	F2003	1809-20-7	3950B	1982-49-6	PS-373	2164-17-2	F2373	2396-68-1	2634K	2631-37-0	F2358	3017-95-6	F205
1647-16-1	O-2026	1817-57-8	6936K	1982-49-6	F2377	2168-13-0	4021F	2396-84-1	4738A	2631-40-5	PS-2070	3018-12-0	F2025
1655-07-8	4537F	1817-73-8	F2499	1983-10-4	8214F	2168-95-8	3732A	2398-37-0	2291F	2635-26-9	1216L	3027-38-1	2248L
1655-29-4	6085B	1820-80-0	1891F	1984-65-2	3485K	2169-69-9	4533F	2398-81-4	2365L	2636-26-2	PS-2034	3029-19-4	2431L
1655-35-2	6085F	1821-12-1	6913E	1986-81-8	2224L	2169-87-1	2137L	2402-77-9	3614K	2642-63-9	3661F	3030-47-5	6780
1655-45-4	6086C	1823-91-2	6144K	1987-50-4	F2935	2170-03-8	5342A	2402-78-0	3720F	2642-71-9	PS-673	3032-11-9	1195L
1656-48-0	O-846	1824-81-3	1820	1989-33-9	4670K	2175-90-8	4331B	2404-35-5	3261F	2642-71-9	F2421	3034-22-8	1665K
1656-63-9	8340	1825-19-0	O-2415	2001-93-6	1474L	2176-62-7	6887K	2406-25-9	2338L	2642-98-0	O-2377	3034-48-8	2507K
1658-42-0	5945F	1825-21-4	PS-1109	2004-70-8	O-2247	2185-86-6	BS-149	2409-55-4	4024L	2644-70-4	I-3270	3034-53-5	2405F
1662-01-7	4269F	1825-21-4	F2156	2008-39-1	PS-337	2189-60-8	O-2224	2421-28-5	2110E	2645-07-0	2260L	3038-48-0	9059K
1663-45-2	4565B	1825-31-6	F2151	2008-41-5	PS-503	2190-04-7	S-540	2421-99-0	I-4880	2650-17-1	BS-58	3040-44-6	7026K
1664-40-0	6948K	1829-00-1	BS-32	2008-41-5	F2212	2191-10-8	I-2110	2425-06-1	PS-260	2655-15-4	PS-541	3048-64-4	9157K
1665-00-5	FD44-5	1830-54-2	3997B	2008-75-5	3005F	2198-23-4	O-2216	2425-06-1	F2094	2664-63-3	7985B	3051-09-0	6052F
1665-00-5	FD44-10	1836-75-5	PS-394	2012-74-0	MET-1032A	2198-58-5	O-340	2426-02-0	8923K	2666-14-0	CDF-20	3051-11-4	BS-38
1667-99-8	BS-60	1836-75-5	F2126	2012-74-0	3123K	2198-59-6	7029F	2426-54-2	3757	2672-58-4	8385F	3054-95-3	1574F
1668-08-2	1837L	1837-91-8	5020F	2014-83-7	F2150	2199-69-1	F835	2433-96-7	O-2329	2675-77-6	PS-255	3058-39-7	1987L
1668-10-6	4930K	1839-63-0	O-2282	2016-42-4	S-490	2207-01-4	F2463	2433-97-8	O-2341	2675-77-6	F2201	3060-50-2	4331H
1670-81-1	5576K	1843-03-4	Ou-20	2016-42-4	O-2303	2208-07-3	4499F	2435-53-2	2917L	2679-01-8	BS-158	3060-89-7	PS-374
1674-37-9	F2253	1843-05-6	Ou-102	2016-56-0	S-538	2210-25-5	7260	2436-73-9	PS-1105	2680-03-7	3997A	3068-00-6	2580K
1679-09-0	O-2006	1861-32-1	PS-33	2016-57-1	O-2036	2212-67-1	PS-501	2436-73-9	F967	2686-99-9	PS-542	3070-53-9	O-2112
1689-64-1	M-40A1-1	1861-32-1	F2040	2024-83-1	1546L	2212-67-1	F2242	2436-96-6	F2261	2687-12-9	3187E	3073-66-3	O-2281
1689-82-3	6858A	1861-40-1	PS-389	2032-35-1	2278F	2213-32-3	O-2085	2437-29-8	BS-44	2687-43-6	2150F	3073-87-8	2276B
1689-83-4	PS-397	1861-40-1	F2364	2032-59-9	PS-751	2213-43-6	1884A	2437-49-2	8204H	2695-37-6	7747B	3074-78-0	O-2060
1689-84-5	PS-426	1863-63-4	2104E	2032-59-9	F2370	2216-30-0	4064H	2437-56-1	O-2274	2706-56-1	1723A	3081-14-9	Ou-29
1689-84-5	F2093	1865-01-6	2182L	2032-65-7	PS-543	2216-33-3	O-2184	2437-79-8	7822G	2719-32-6	3270K	3083-25-8	8240J
1689-99-2	PS-434	1866-15-5	1156L	2032-65-7	F2042	2216-34-4	O-2185	2439-01-2	PS-860	2719-52-0	1957E	3085-42-5	F2252
1689-99-2	F2439	1866-39-3	5745F	2033-24-1	3902K	2217-41-6	O-2380	2439-04-5	1702L	2720-76-5	7229F	3087-16-9	BS-106
1693-74-9	F2546	1877-73-2	2146L	2034-22-2	8184C	2217-79-0	1573L	2439-10-3	PS-250	2738-18-3	O-2061	3097-08-3	S-387
1694-31-1	2502B	1877-75-4	5632A	2037-26-5	F843	2219-82-1	2613F	2439-55-6	2107L	2738-19-4	O-2170	3112-85-4	5899F
1698-60-8	PS-430	1877-77-6	1650K	2037-31-2	3192K	2223-93-0	S-91	2439-77-2	5981K	2756-85-6	1147L	3113-71-1	6310K
1700-10-3	O-2023	1878-65-5	3108K	2038-03-1	1710	2223-93-0	Ou-62	2439-99-8	PS-2164	2758-06-7	PS-361	3113-72-2	5871E
1701-93-5	I-5360	1878-66-6	3093K	2039-87-4	3142J	2225-40-3	PS-1112	2442-49-1	O-2342	2759-28-6	2153B	3114-55-4	F1088
1702-17-6	PS-1069	1878-68-8	2397F	2044-64-6	3993F	2225-40-3	F2244	2444-36-2	3061F	2760-98-7	2029L	3115-68-2	8886K
1703-58-8	2492B	1878-84-8	5320	2049-67-4	3810	2227-17-0	PS-862	2457-47-8	3620K	2768-31-2	2139F	3119-15-1	1711L
1705-85-7	F2566	1878-87-1	6565K	2049-70-9	5453E	2227-79-4	7981F	2457-76-3	1672F	2781-10-4	Pz-159	3120-74-9	5970
1707-03-5	4338B	1885-14-9	6915E	2049-73-2	3740	2231-57-4	8947K	2459-07-6	3250L	2783-17-7	3467E	3121-61-7	O-1014
1708-29-8	O-566	1885-29-6	2020K	2050-46-6	O-587	2234-26-6	2263L	2463-84-5	PS-669	2787-43-1	O-2189	3123-93-1	O-2069
1708-39-0	6926F	1885-35-4	8380	2050-47-7	O-597	2235-46-3	3638K	2465-27-2	BS-43	2807-30-9	O-2299	3124-01-4	5096F
1713-15-1	PS-2282	1885-38-7	3187B	2050-60-4	Pz-342	2237-30-1	1625K	2473-01-0	3060	2809-21-4	CDF-18	3130-87-8	O-34
1715-33-9	7246F	1888-71-7	F920	2050-60-4	O-474	2243-27-8	6600F	2476-37-1	3473K	2809-67-8	O-2236	3132-64-7	4436E
1716-09-2	PS-2275	1891-95-8	PS-2090	2050-67-1	3626G	2243-56-3	2191L	2487-40-3	2611L	2814-20-2	MET-90B	3141-27-3	O-719
1718-51-0	F842	1895-39-2	2963E	2050-68-2	F2174	2243-62-1	O-2386	2491-15-8	4820K	2815-34-1	O-2427	3147-55-5	3557B
1718-53-2	F902	1897-41-2	F2932	2050-76-2	3681A	2243-76-7	BS-19	2494-56-6	2908L	2834-05-1	2454B	3148-73-0	1510L
1719-03-5	F730	1897-45-6	PS-1020	2050-77-3	5373F	2243-83-6	2194L	2495-37-6	2161F	2835-06-5	1717L	3153-26-2	8703F
1719-06-8	F207	1897-45-6	F2220	2051-04-9	6802F	2245-38-7	F1057	2495-39-8	7260C	2835-81-6	O-33	3153-37-5	5743F
1720-32-7	2704L	1897-52-5	3728K	2051-24-3	F2170	2254-94-6	6128K	2497-06-5	MET-652A	2835-81-6	AA-2	3158-85-8	1501L
1722-12-9	3119F	1898-66-4	4336E	2051-30-1	4245H	2255-17-6	MET-678A	2497-07-6	MET-652B	2835-82-7	1695K	3164-29-2	1940F
1724-39-6	3273K	1910-42-5	PS-366	2051-31-2	3384F	2256-01-1	F2350	2497-91-8	1258L	2835-98-5	1760K	3167-63-3	3656K
1729-67-5	F2446	1912-24-9	PS-380	2051-49-2	5125B	2269-22-9	1580K	2499-59-4	6696F	2835-99-6	1021L	3171-45-7	4189B
1730-37-6	F1040	1912-24-9	F2208	2051-60-7	2800G	2270-20-4	7046F	2499-95-8	5142F	2836-32-0	4978F	3172-52-9	3722F
1731-84-6	O-428	1912-26-1	PS-2107	2051-61-8	2801G	2274-42-2	6421K	2508-29-4	1878F	2845-89-8	2909F	3173-53-3	3321A
1731-86-8	O-2333	1912-83-0	I-6000	2051-62-9	F2164	2275-23-2	PS-2187	2510-55-6	O-2354	2847-72-5	O-2149	3179-63-3	O-309
1731-88-0	O-2334	1916-07-0	5989J	2051-79-8	1700B	2279-16-5	2755K	2514-53-6	PS-328	2859-67-8	7255	3184-13-2	6732H
1731-92-6	O-2336	1918-00-9	PS-346	2051-95-8	1198L	2283-08-1	5316F	2516-05-4	BS-160	2869-83-2	BS-7	3209-22-1	PS-2267
1731-94-8	O-2337	1918-00-9	PS-346	2052-01-9	2347B	2295-31-0	8941K	2516-95-2	3054K	2872-54-0	I-5685	3209-22-1	F2901
1732-08-7	4285H	1918-00-9	F960	2052-07-5	2320G	2298-07-9	1243L	2516-96-3	3045B	2876-78-0	PS-30	3215-64-3	3704F
1732-09-8	4211C	1918-02-1	PS-274	2055-46-1	F2448	2302-88-7	1105L	2517-43-3	O-179	2880-05-9	F2355	3217-15-0	O-2405
1732-10-1	Pz-375	1918-02-1	F2041	2057-84-3	F2353	2303-16-4	PS-507	2518-24-3	1120L	2885-00-9	6620	3218-02-8	3283F
1732-13-4	F1032	1918-11-2	PS-550	2058-46-0	PS-2200	2303-16-4	F988	2524-03-0	PS-91	2899-37-8	2068L	3218-36-8	1552L
1735-17-7	F2542	1918-16-7	PS-355	2078-54-8	3208L	2303-17-5	PS-506	2524-04-1	PS-670	2905-65-9	6178K	3222-05-7	F2511
1738-25-6	O-842	1918-16-7	F2205	2079-89-2	1114L	2305-26-2	3287B	2524-52-9	4666F	2905-67-1	PS-1114	3229-00-3	6806A
1738-36-9	3166L	1918-18-9	PS-1098	2079-95-0	7823F	2307-68-8	PS-2281	2528-61-2	5012B	2905-67-1	F2223	3234-02-4	3543B
1738-76-7	1669L	1918-18-9	F2378	2082-59-9	9145K	2308-18-1	5632K	2531-84-2	F2470	2906-12-9	5677K	3244-90-4	PS-663
1738-86-9	1852L	1921-70-6	F2525	2103-64-2	BS-151	2310-17-0	PS-682	2533-69-9	6449K	2909-38-8	3117K	3244-90-4	F2420
1740-19-8	3366K	1928-37-6	PS-339	2104-64-5	PS-93	2310-17-0	F2128	2536-31-4	PS-1022	2916-31-6	3899K	3248-91-7	BS-146
1742-95-6	1072L	1928-37-6	PS-339	2104-64-5	F2112	2312-23-4	3114K	2536-91-6	1801J	2917-94-4	S-470	3248-93-9	BS-56
1745-81-9	1634E	1928-37-6	F973	2104-96-3	PS-2009	2312-35-8	PS-858	2538-85-4	BS-25	2920-38-9	2230F	3251-23-8	I-49
1746-13-0	1635B	1928-38-7	PS-41-1	2107-70-2	3839K	2313-87-3	4232K	2540-82-1	PS-2036	2921-14-4	2701K	3252-43-5	F2024

Chem Service's Quality Management System is Certified to the Internationally Recognized ISO 9001 & ISO 17025 Quality Standards.

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
3264-82-2	I-4560	3731-51-9	1920K	4253-89-8	5470F	5103-73-1	MET-75B	5589-96-8	F2031	6147-53-1	I-43	6636-78-8	3168K
3268-49-3	5990	3731-52-0	1809H	4253-91-2	4271F	5103-73-1	F2179	5593-70-4	8969K	6152-67-6	7631F	6638-79-5	3923K
3268-79-9	3015K	3731-53-1	1810H	4254-29-9	5572K	5103-74-2	PS-75-2	5598-13-0	PS-418	6153-39-5	6726F	6639-30-1	F2488
3279-76-3	5394K	3734-33-6	PS-2084	4263-52-9	2333B	5103-74-2	F908	5598-13-0	F2296	6153-56-6	O-69	6640-22-8	5787F
3289-28-9	4535F	3734-48-3	MET-75D	4272-77-9	2680L	5106-98-9	3183K	5598-15-2	MET-674B	6155-83-5	O-962	6641-64-1	3584K
3302-10-1	9077K	3734-67-6	BS-135	4316-65-8	O-2285	5111-70-6	6028K	5598-52-7	MET-418B	6159-05-3	3739K	6683-19-8	Ou-111
3312-60-5	1886H	3739-38-6	MET-758C	4316-93-2	1420L	5116-77-8	I-4750	5600-21-5	1676F	6160-65-2	7975H	6696-41-9	CARB-6
3315-16-0	I-5300	3740-52-1	6421E	4319-49-7	1932K	5116-94-9	8265C	5614-64-2	1795K	6164-98-3	PS-840	6707-12-6	6630K
3316-09-4	2122L	3747-74-8	3006K	4333-56-6	3350H	5131-24-8	PS-2127	5619-04-5	2527L	6168-72-5	1985K	6711-48-4	MET-2164A
3317-67-7	2881L	3752-25-8	1375L	4338-98-1	2797L	5131-24-8	PS-1208	5638-76-6	6084K	6175-49-1	O-2093	6734-80-1	PS-221
3320-83-0	3096B	3761-41-9	MET-655D	4345-03-3	V-20	5131-60-2	F2144	5657-17-0	1867L	6190-33-6	2344L	6781-42-6	3372K
3320-86-3	6435F	3761-41-9	MET-655B	4354-56-4	6994F	5141-20-8	BS-47	5661-71-2	6644F	6190-65-4	MET-380B	6789-94-2	1855K
3333-67-3	I-4610	3761-42-0	MET-655A	4363-93-3	8112K	5144-89-8	6833F	5675-25-2	O-2229	6192-52-5	O-965	6834-92-0	S-648
3336-41-2	3672A	3761-53-3	BS-26	4389-45-1	1790	5150-42-5	3836K	5683-33-0	4026F	6197-30-4	Ou-95	6843-66-9	3976F
3337-71-1	PS-1009	3766-81-2	PS-1046	4392-24-9	3095H	5182-30-9	6092F	5705-15-7	2167F	6203-18-5	4018H	6846-50-0	Pz-825
3337-71-1	F2217	3769-23-1	O-2173	4397-53-9	2290K	5194-50-3	O-2122	5717-37-3	1399L	6211-16-1	6732F	6859-99-0	7032K
3342-67-4	F2908	3779-29-1	3771	4403-90-1	BS-154	5194-51-4	O-2123	5743-04-4	I-28	6211-24-1	2046F	6865-35-6	S-89
3344-12-5	MET-86A	3786-91-2	3323H	4408-64-4	5836A	5205-34-5	3385F	5744-03-6	F1044	6214-45-5	2586K	6865-35-6	Ou-59
3347-22-6	PS-2035	3810-74-0	PS-2263	4418-61-5	1919K	5216-25-1	2915F	5779-94-2	F2337	6219-73-4	4190B	6865-39-5	S-560
3352-87-2	O-250	3811-04-9	I-94	4435-53-4	O-445	5217-47-0	3683K	5785-44-4	I-2200	6223-83-2	4790F	6892-68-8	2947L
3353-05-7	S-109	3811-73-2	5944K	4436-74-2	O-62	5234-68-4	PS-294	5808-22-0	4021L	6226-79-5	BS-143	6898-97-1	F2105
3369-52-6	MET-81B	3829-86-5	6834F	4439-20-7	3160L	5234-68-4	F2203	5808-22-0	4021L	6232-88-8	2460E	6914-76-7	6225K
3377-86-4	2335H	3840-31-1	9065K	4445-07-2	2392L	5259-88-1	PS-295	5808-22-0	3925B	6258-66-8	2830K	6920-22-5	5240K
3377-87-5	2336H	3844-45-9	BS-113	4453-82-1	3737F	5259-98-3	6777F	5813-86-5	5983K	6266-23-5	2800	6923-22-4	PS-609
3377-92-2	8741J	3850-30-4	9083K	4454-05-1	3748K	5278-95-5	F2514	5824-40-8	2551L	6270-16-2	6541K	6923-22-4	F2122
3378-71-0	3959K	3853-88-1	2782L	4457-71-0	5885B	5290-62-0	6289F	5836-10-2	PS-857	6271-78-9	3030K	6923-52-0	I-1420
3378-72-1	2135F	3855-82-1	F740	4461-48-7	O-2193	5292-21-7	O-9	5836-10-2	F2289	6276-54-6	1303L	6928-68-3	1435L
3379-38-2	F2255	3861-47-0	PS-2250	4472-41-7	F2551	5292-43-3	2604K	5836-10-2	F2289	6280-87-1	3175B	6938-94-9	Pz-318
3383-21-9	2674L	3861-73-2	2001E	4477-79-6	BS-141	5303-65-1	4250K	5836-29-3	PS-2093	6280-88-2	3051K	6939-83-9	8592F
3383-96-8	PS-665	3863-11-4	3716K	4482-55-7	PS-364	5306-85-4	5725K	5847-55-2	Ou-66	6283-24-5	1543F	6939-93-1	2345E
3386-33-2	O-629	3868-61-9	MET-81C	4482-55-7	F2558	5307-14-2	6355	5856-63-3	1680K	6283-25-6	3033K	6940-50-7	2340H
3386-33-2	F2518	3871-20-3	9093K	4499-86-9	7966E	5323-87-5	4478F	5858-17-3	3500K	6283-92-7	S-293	6945-92-2	4625H
3395-91-3	6156K	3874-54-2	3011F	4506-66-5	1246L	5323-95-5	S-38	5858-33-3	BS-27	6284-40-8	6249K	6959-48-4	F2098
3397-62-4	MET-58C	3878-19-1	PS-2059	4506-71-2	4253K	5324-30-1	3752A	5872-08-2	2730	6285-57-0	1141L	6959-66-6	5930K
3398-16-1	2288F	3878-45-3	9087K	4510-76-3	8118K	5324-84-5	2389L	5875-24-1	3130B	6287-20-3	3939E	6971-51-3	5996K
3400-45-1	3333F	3886-69-9	5713F	4519-40-8	3698K	5326-47-6	1770	5892-10-4	I-1900	6287-38-3	3661B	6971-57-9	5908F
3400-45-1	3321F	3888-44-6	3916F	4535-90-4	2209L	5329-12-4	9014K	5892-21-7	I-2440	6290-49-9	5632C	6973-60-0	5950F
3404-61-3	O-2172	3891-07-4	5312K	4548-45-2	3087K	5329-14-6	7760	5902-51-2	PS-375	6291-85-6	4235K	6974-32-9	7504F
3404-72-6	O-2083	3891-59-6	O-505	4553-07-5	4699E	5332-73-0	O-317	5902-51-2	F2206	6294-89-9	5828C	6975-71-9	3313F
3404-78-2	O-2071	3905-64-4	O-2358	4556-23-4	2056L	5334-23-6	2083L	5906-35-4	1750L	6298-19-7	1674H	6981-18-6	PS-2277
3405-45-6	5752H	3926-62-3	2830	4559-96-0	2304F	5335-91-1	3425F	5909-24-0	4560H	6303-21-5	I-3330	6988-21-2	PS-2022
3424-82-6	PS-695	3934-20-1	3721F	4584-46-7	4017F	5339-26-4	2269L	5911-04-6	5841H	6305-38-0	1670F	6988-21-2	F2359
3424-82-6	F2306	3937-56-2	6597B	4584-49-0	1423L	5341-61-7	O-726	5915-41-3	PS-413	6313-37-7	1426L	6994-25-8	1054L
3424-93-9	5985K	3938-96-3	4322K	4588-18-5	O-2197	5344-82-1	F2429	5915-41-3	F2291	6319-96-6	2734K	7003-32-9	6215K
3425-08-9	4980	3953-10-4	4520F	4597-87-9	6092K	5345-42-6	6305K	5922-60-1	1710K	6320-01-0	2553K	7005-72-3	F40
3433-37-2	2359L	3958-19-8	8532F	4606-65-9	7029K	5345-47-1	1872F	5927-18-4	8447A	6320-02-1	2556K	7011-98-5	2152C
3452-07-1	O-2097	3958-60-9	6538K	4620-70-6	2507B	5350-57-2	1213L	5943-30-6	2619K	6320-03-2	3189K	7012-37-5	8235G
3452-09-3	O-2215	3964-56-5	MET-1024A	4637-24-5	4066E	5351-04-2	O-841	5957-17-5	5255F	6320-15-6	2854K	7085-19-0	PS-324
3452-97-9	8471B	3964-56-5	2415K	4652-27-1	5621F	5351-17-7	1132L	5959-56-8	1030L	6321-23-9	6188K	7085-19-0	F968
3453-83-6	2161L	3964-58-7	2926K	4684-12-2	1725K	5351-23-5	5289K	5961-55-7	2185L	6326-44-9	1414L	7087-68-5	3121L
3454-07-7	F2907	3965-55-7	4286H	4702-13-0	7005K	5351-69-9	6990K	5961-59-1	6102K	6342-56-9	8060K	7098-22-8	O-2266
3458-28-4	CARB-13	3970-35-2	1255L	4702-32-3	1978L	5382-16-1	5448K	5965-83-3	O-963	6344-60-1	5317K	7132-64-1	O-2335
3473-11-8	1861L	3977-29-5	3049L	4704-31-8	8734J	5390-04-5	6804F	5968-11-6	I-128	6346-09-4	1669F	7145-20-2	O-2064
3473-63-0	4805E	3978-81-2	2620	4707-71-5	2371L	5392-28-9	2578L	5970-45-6	I-163	6351-10-6	5570K	7146-60-3	4242H
3478-94-2	PS-409	4005-51-0	1916F	4712-55-4	O-915	5392-40-5	O-226	5970-47-8	I-6530	6358-07-2	1730K	7147-34-4	Pz-605
3481-02-5	3355H	4008-48-4	5432K	4719-04-4	S-675	5394-18-3	1237L	5978-75-6	1657L	6358-69-6	1945L	7147-89-9	1315L
3481-20-7	PS-2228	4016-14-2	O-2321	4726-14-1	PS-358	5394-63-8	9073K	5989-27-5	O-754	6359-05-3	BS-67	7149-10-2	5369K
3486-30-4	BS-128	4020-99-9	Pz-660	4727-29-1	PS-2114	5395-70-0	2014L	5989-81-1	2005L	6361-21-3	1288L	7152-15-0	4316K
3497-00-5	O-925	4023-65-8	3244L	4733-39-5	4212F	5398-27-6	3803K	5990-32-9	I-6550	6362-79-4	7768H	7153-22-2	1777L
3522-94-9	O-2284	4032-86-4	4066H	4736-60-1	1780L	5399-63-3	7765B	5995-86-8	O-103	6363-53-7	O-938	7154-26-9	7797E
3524-62-7	2127F	4043-87-2	7020K	4743-17-3	3028B	5407-04-5	2976B	6001-64-5	9007K	6363-53-7	CARB-12	7154-73-6	1725F
3524-73-0	O-2175	4044-65-9	2491L	4744-08-5	7065K	5407-87-4	1820K	6004-24-6	S-629-1	6369-04-6	3465	7194-85-6	O-2233
3528-17-4	7985F	4049-81-4	O-2163	4753-59-7	2302B	5414-21-1	2455B	6004-24-6	2833L	6381-59-5	I-5110	7203-96-5	8945K
3529-82-6	6574K	4065-45-6	Ou-100	4755-81-1	6172K	5417-63-0	1069L	6009-70-7	I-1350	6381-79-9	I-93	7208-47-1	7717F
3531-19-9	F2502	4070-75-1	4280F	4756-75-6	8535E	5418-51-9	5424K	6011-14-9	1600K	6381-92-6	S-638	7209-38-3	2222A
3542-44-7	5335E	4089-07-0	8635A	4767-03-7	2273B	5418-95-1	1834L	6018-19-5	2494L	6381-92-6	O-2423	7217-59-6	5627F
3547-33-9	PS-952	4100-80-5	5952F	4769-96-4	6389B	5419-55-6	8347F	6018-89-9	I-81	6385-62-2	PS-365	7223-38-3	4198F
3554-74-3	5390K	4101-68-2	3450F	4786-20-3	3200	5421-92-1	8046K	6032-29-7	O-2199	6419-19-8	CDF-16	7250-67-1	2820H
3564-09-8	BS-131	4104-45-4	3100L	4795-29-3	7903F	5423-07-4	BS-23	6035-94-5	BS-48	6419-19-8	6155B	7251-61-8	5960
3564-18-9	BS-147	4110-44-5	4246H	4801-58-5	5452K	5424-19-1	2255K	6038-19-3	1699L	6419-36-9	8029K	7252-83-7	2278B
3566-10-7	PS-228	4114-31-2	4528F	4824-78-6	PS-2008	5424-21-5	3581K	6046-93-1	I-46	6420-47-9	PS-436	7280-83-3	3474J
3570-80-7	1249L	4130-42-1	3214L	4839-46-7	3917K	5427-26-9	5265K	6051-87-2	2164L	6434-78-2	O-2206	7283-69-4	3570
3586-14-9	6924K	4131-74-2	4213E	4841-20-7	PS-342	5436-43-1	F2571	6055-19-2	3355J	6436-90-4	1177L	7286-84-2	PS-1113
3588-57-6	6850	4136-21-4	5341K	4841-20-7	F971	5437-25-2	1531L	6064-83-1	2801F	6482-24-2	2450K	7286-84-2	F2226
3599-58-4	PS-338	4146-04-7	1958K	4845-99-2	2466E	5437-38-7	2038L	6064-90-0	O-2339	6482-26-4	F2030	7287-19-6	PS-384
3612-20-2	2154C	4147-51-7	PS-411	4857-04-9	3040F	5440-00-6	3456B	6065-82-3	4566F	6484-52-2	I-12	7287-19-6	F2235
3618-58-4	BS-130	4156-16-5	4710	4870-65-9	2514K	5441-52-1	3893K	6066-82-6	5346E	6487-48-5	I-5070	7291-22-7	F340
3637-01-2	3842K	4160-82-1	4070	4901-51-3	F2478	5445-17-0	F2445	6080-56-4	I-60	6492-86-0	1171L	7296-20-0	4143F
3646-68-2	1672L	4165-60-0	F320	4904-61-4	O-2018	5446-18-4	3608K	6080-58-6	I-3780	6515-38-4	MET-674A	7307-55-3	8670F
3648-20-2	Pz-475	4165-61-1	F300	4916-57-8	1252L	5446-92-4	6044K	6092-54-2	5152F	6530-09-2	1897F	7314-44-5	3833K
3658-48-8	4273C	4170-30-3	O-228	4930-98-7	5144E	5447-02-9	1432L	6094-02-6	O-2169	6552-12-1	MET-655C	7318-00-5	4515E
3663-82-9	5299F	4170-30-3	O-228	4961-40-4	2815L	5450-96-4	2803L	6099-03-2	2101L	6556-12-3	4912F	7355-51-3	1351L
3674-09-7	6230K	4170-30-3	F2325	4977-62-2	4238K	5459-93-8	MET-502A	6099-04-3	2095L	6575-07-1	3063K	7360-53-4	I-1100
3674-13-3	O-454	4180-23-8	O-580	4991-47-3	S-115	5460-09-3	1636L	6099-57-6	2353L	6575-13-9	4041F	7379-35-3	3159K
3676-85-5	1078L	4181-95-7	O-2261	5003-71-4	2307F	5460-29-7	1186L	6099-79-2	PS-1104	6591-63-5	7380F	7397-43-5	8201F
3678-70-4	4337B	4187-87-5	7038F	5006-66-6	1936L	5464-78-8	6050K	6099-79-2	F965	6597-78-0	PS-1102	7400-08-0	5230
3682-14-2	1723L	4196-99-0	BS-142	5007-67-0	7787F	5469-26-1	2523K	6099-90-7	7055C	6597-78-0	F961	7400-27-3	2596F
3682-35-7	8559F	4197-07-3	BS-134	5015-38-3	1285L	5470-11-1	O-996	6100-05-6	I-4990	6609-56-9	5625F	7411-49-6	3435E
3689-24-5	PS-2024	4197-25-5	BS-41	5018-87-1	2245L	5470-18-8	3051F	6106-24-7	I-5830	6610-29-3	5978F	7414-83-7	CDF-19
3689-24-5	F940	4199-89-7	1297L	5049-61-6	1987K	5471-63-6	4275F	6107-83-1	I-3450	6622-92-0	3926K	7421-93-4	PS-77-1
3691-35-8	PS-2085	4214-74-8	1775K	5064-31-3	CDF-10	5500-21-0	3360E	6108-10-7	PS-2222	6626-15-9	2544K	7421-93-4	F99
3695-77-0	2629L	4214-76-0	1942K	5070-13-3	2335K	5505-63-5	2065L	6117-91-5	2494B	6627-38-9	3905K	7424-00-2	3090
3696-28-4	3995K	4214-79-3	3171K	5074-71-5	F834	5509-65-9	3713K	6119-47-7	2524L	6627-53-8	3042K	7429-37-0	3550
3710-30-3	O-2220	4224-70-8	2346B	5076-82-4	8812K	5536-61-8	O-1013	6131-90-4	I-118	6628-00-8	1565K	7429-90-5	I-1119
3710-84-7	3677K	4229-44-1	5826F	5103-42-4	5175F	5550-12-9	5009F	6132-04-3	I-5510	6628-77-9	1901K	7429-90-5	I-1118
3718-88-5	1921L	4248-19-5	2607F	5103-71-9	PS-75-1	5558-66-7	4286F	6137-26-4	4413F	6628-86-0	3045K	7429-90-5	I-1117
3724-65-0	O-8	4252-78-2	8995K	5103-71-9	F907	5587-42-8	5550K	6146-52-7	6388B	6629-04-5	3243K	7429-90-5	I-1116

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
7429-90-5	I-1114	7732-18-5	S-576	7790-21-8	I-5085	9004-34-6	CARB-33	10031-24-0	I-5960	10450-60-9	I-4730	13121-70-5	PS-107		
7429-90-5	I-1112	7755-92-2	7135F	7790-28-5	I-5630	9004-35-7	2811B	10031-30-8	I-2350	10453-86-8	PS-1000	13127-82-7	S-516		
7433-56-9	O-2031	7756-94-7	8330	7790-62-7	I-5100	9004-36-8	2812B	10031-37-5	I-2690	10453-86-8	F2293	13127-88-3	F330		
7439-89-6	I-3360	7757-79-1	I-106	7790-69-4	I-67	9004-57-3	3058L	10034-81-8	I-4040	10466-61-2	2026L	13151-34-3	O-2148		
7439-91-0	I-7020	7757-82-6	I-148	7790-79-6	I-2070	9004-62-0	1939L	10034-82-9	I-131	10478-42-9	F2918	13171-21-6	PS-606		
7439-92-1	I-3534	7757-83-7	I-150	7790-80-9	I-2080	9004-64-2	3007L	10034-85-2	I-3290	10486-00-7	I-142	13171-21-6	F2130		
7439-92-1	I-3532	7758-01-2	I-91	7790-84-3	I-2150	9004-65-3	1990L	10034-88-5	I-124	10486-19-8	O-2272	13194-48-4	PS-672		
7439-95-4	I-4014	7758-02-3	I-92	7790-99-0	5368A	9004-67-5	5737F	10034-93-2	I-3280	10517-21-2	2938K	13194-48-4	F2062		
7439-95-4	I-4012	7758-05-6	I-104	7791-03-9	I-3855	9004-70-0	3195B	10034-96-5	I-75	10538-51-9	3975C	13204-98-3	5280H		
7439-96-5	I-4230	7758-09-0	I-107	7791-07-3	I-5686	9004-83-5	S-487	10034-99-8	I-72	10541-83-0	5706E	13205-48-6	6427K		
7439-98-7	I-4500	7758-11-4	I-112	7791-08-4	I-1500	9004-95-9	S-325	10035-06-0	I-27	10553-85-2	4411F	13214-66-9	6896F		
7440-02-0	I-4686	7758-19-2	I-5505	7791-12-0	RE-240	9004-95-9	S-316	10035-10-6	I-3300	10557-44-5	O-2074	13220-33-2	6400K		
7440-05-3	RE-160	7758-87-4	I-37	7791-13-1	I-44	9004-95-9	S-315	10039-32-4	I-144	10569-72-9	1701H	13242-44-9	4016F		
7440-31-5	I-6190	7758-89-6	I-51	7791-18-6	I-70	9004-96-0	S-193	10039-54-0	5292F	10574-36-4	O-2174	13255-26-0	I-1810		
7440-33-7	I-6400	7758-95-4	I-61	7791-20-0	I-82	9004-96-0	S-174	10039-56-2	I-137	10595-80-9	7755F	13256-22-9	6210J		
7440-38-2	I-1650	7758-97-6	I-3440	7797-81-1	1705L	9004-96-0	S-173	10042-76-9	I-158	10595-95-6	F932	13266-83-6	I-2550		
7440-39-3	I-1700	7758-98-7	I-3010	7800-91-1	7768C	9004-96-0	S-172	10043-01-3	I-5	10605-21-7	PS-1077	13269-52-8	O-2129		
7440-41-7	RE-10	7758-99-8	I-50	7803-55-6	I-18	9004-96-0	S-171	10043-35-3	I-1972	10605-21-7	F2369	13283-01-7	I-6390		
7440-43-9	I-2090	7759-02-6	I-6080	7803-58-9	8869K	9004-96-0	S-170	10043-52-4	I-33	10606-46-9	MET-82A	13290-96-5	4158A		
7440-47-3	I-2601	7761-88-8	I-117	7803-63-6	I-1240	9004-96-0	S-169	10043-67-1	I-4	11024-24-1	3733K	13296-94-1	2505K		
7440-48-4	RE-40	7773-06-0	PS-344	8000-27-9	2311L	9004-96-0	S-168	10043-84-2	I-4220	11096-82-5	F112	13308-51-5	I-1980		
7440-50-8	I-2908	7774-29-0	I-4410	8001-22-7	S-19	9004-96-0	S-167	10048-95-0	I-120	11097-69-1	F111	13315-23-6	6388K		
7440-50-8	I-2906	7775-09-9	I-129	8001-22-7	Pz-110	9004-98-2	S-323	10049-08-8	RE-190	11099-34-6	I-2909	13323-62-1	Ou-65		
7440-50-8	I-2904	7775-14-6	I-5530	8001-26-1	Pz-109	9004-98-2	S-322	10060-12-5	I-40	11100-14-4	F295	13356-08-6	PS-1060		
7440-50-8	I-2902	7775-27-1	I-5720	8001-28-3	3025L	9004-99-3	S-149	10061-01-5	F200	11104-28-2	F108	13360-45-7	PS-368		
7440-55-3	RE-80	7778-43-0	PS-428	8001-29-4	S-18	9004-99-3	S-148	10061-02-6	F201	11126-42-4	F292	13360-63-9	4220K		
7440-56-4	I-7010	7778-44-1	I-2170	8001-30-7	S-17	9004-99-3	S-147	10075-50-0	2349B	11141-16-5	F113	13362-78-2	2345K		
7440-66-6	I-6618	7778-50-9	I-99	8001-30-7	Pz-108	9004-99-3	S-146	10090-54-7	I-4890	11141-17-6	PS-2075	13435-46-6	3675E		
7440-66-6	I-6616	7778-53-2	I-113	8001-30-7	O-2305	9004-99-3	S-145	10099-60-2	RE-140	12005-86-6	I-5550	13446-31-6	I-4120		
7440-66-6	I-6614	7778-54-3	I-2265	8001-35-2	PS-79	9004-99-3	S-144	10099-74-8	I-62	12013-46-6	I-2400	13446-34-9	I-74		
7440-69-9	I-1870	7778-74-7	I-108	8001-35-2	F106	9004-99-3	S-143	10101-39-0	I-2310	12013-69-3	I-2380	13446-49-6	I-5060		
7440-74-6	RE-110	7778-77-0	I-111	8001-50-1	PS-2023	9004-99-3	S-142	10101-41-4	I-38	12014-56-1	I-2500	13450-95-8	I-3210		
7446-08-4	I-5210	7778-80-5	I-114	8001-50-1	F2318	9005-00-9	S-321	10101-50-5	I-5700	12017-01-5	I-2890	13451-11-1	I-6110		
7446-10-8	I-3630	7781-98-8	4640E	8001-58-9	Pz-123	9005-00-9	S-320	10101-52-7	I-6870	12017-08-2	I-2810	13453-07-1	I-3220		
7446-14-2	I-3610	7782-42-5	I-3230	8001-58-9	3192F	9005-08-7	S-158	10101-63-0	I-3530	12021-68-0	I-2830	13453-58-2	I-3470		
7446-18-6	PS-804	7782-49-2	I-5220	8001-79-4	S-25	9005-08-7	S-157	10101-89-0	I-145	12026-66-3	I-1370	13453-66-2	I-3570		
7446-20-0	I-166	7782-61-8	I-54	8001-79-4	Pz-107	9005-08-7	S-156	10101-91-4	I-5850	12027-06-4	I-10	13455-24-8	I-4920		
7446-32-4	I-1560	7782-63-0	I-57	8003-34-7	PS-97	9005-08-7	S-155	10101-97-0	I-84	12027-38-2	I-116	13455-29-3	I-2780		
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7446-70-0	I-2	7782-68-5	I-3350	8004-92-0	BS-72	9005-08-7	S-153	10102-20-2	I-151	12030-97-6	I-5170	13462-91-4	I-1040		
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7487-94-7	I-77	7782-92-5	I-5390	8008-20-6	O-2138	9005-64-5	S-260	10102-45-1	I-6164	12036-31-6	I-3600	13466-78-9	3397		
7488-52-0	I-6750	7783-00-8	RE-200	8008-74-0	7530H	9005-65-6	S-271	10108-64-2	I-29	12036-43-0	I-6790	13472-00-9	1883F		
7488-55-3	I-6200	7783-03-1	I-6380	8013-07-8	Pz-116	9005-65-6	S-270	10114-58-6	BS-34	12036-46-3	I-1540	13472-35-0	I-143		
7512-17-6	CARB-40	7783-20-2	I-15	8016-11-3	Pz-900	9005-66-7	S-263	10117-38-1	I-5140	12037-65-9	I-6320	13472-36-1	I-5760		
7517-19-3	2035L	7783-28-0	I-14	8017-34-3	PS-74	9005-67-8	S-266	10124-43-3	I-2850	12039-13-3	I-6260	13476-99-8	8696F		
7545-23-5	S-595	7783-34-8	I-78	8018-01-7	PS-2095	9005-67-8	S-265	10124-65-9	S-44	12042-91-0	I-7021	13477-00-4	I-1730		
7546-30-7	I-79	7783-35-9	I-4450	8030-30-6	Pz-122	9005-70-3	S-274	10125-13-0	I-48	12045-78-2	I-4961	13477-19-5	I-2100		
7550-35-8	I-3770	7783-36-0	I-4460	8030-30-6	O-2257	9005-71-4	S-268	10127-36-3	BS-79	12049-50-2	I-2470	13477-34-4	I-35		
7550-45-0	I-6535	7783-39-3	I-4405	8030-30-6	M-21B1-5	9005-79-2	CARB-35	10151-02-7	6700	12053-18-8	I-2901	13478-00-7	I-83		
7553-56-2	I-59	7783-46-2	I-3510	8031-18-3	I-3190	9005-84-9	CARB-37	10191-41-0	V-19	12054-85-2	I-11	13478-10-9	I-56		
7568-93-6	1882F	7783-49-5	I-6570	8032-32-4	O-2252	9005-84-9	8040H	10196-04-0	I-1410	12055-23-1	I-3250	13478-14-3	I-3720		
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7631-46-1	2509L	7783-63-3	I-6340	8039-09-6	S-212	9008-02-0	5010B	10199-89-0	2920L	12060-00-3	I-3655	13494-80-9	RE-230		
7631-90-5	I-125	7783-64-4	I-6900	8047-15-2	7537	9008-72-4	6630F	10203-28-8	4409F	12067-99-1	I-87	13497-94-4	I-5365		
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7632-00-0	I-141	7783-85-9	I-55	8051-58-9	S-527	9010-66-6	8825B	10213-15-7	I-71	12069-69-1	I-2940	13506-76-8	6307K		
7643-75-6	CARB-25	7783-90-6	I-5280	8061-51-6	S-473	9010-69-9	S-120	10214-39-8	I-3420	12069-85-1	I-3240	13510-49-1	I-26		
7646-85-7	I-164	7784-01-2	I-5290	8061-51-6	S-471	9011-13-6	7744F	10215-25-5	2617L	12122-67-7	PS-23	13510-89-9	I-3400		
7646-93-7	I-90	7784-13-6	I-1075	8061-52-7	S-476	9012-09-3	2814B	10229-10-4	6803F	12124-97-9	I-1250	13515-97-4	1627L		
7647-14-5	I-130	7784-25-0	I-1	8065-48-3	PS-661/662	9012-36-6	1584D	10265-92-6	PS-676	12125-01-8	I-1290	13517-23-2	I-5740		
7647-15-6	I-127	7784-27-2	I-3			9013-34-7	1276L	10277-43-7	I-3370	12125-02-9	I-8	13517-24-3	I-5800		
7647-17-8	RE-30	7784-30-7	I-1170	8068-50-6	F294	9014-63-5	CARB-38	10293-06-8	1369L	12135-76-1	I-16	13520-72-4	I-1890		
7647-18-9	I-1510	7784-30-7	I-1160	8249-47-6	6759J	9014-85-1	S-365	10294-26-5	I-5350	12136-58-2	I-3900	13520-92-8	I-6830		
7664-38-2	I-4760	7784-40-9	PS-290	9000-01-5	4994H	9014-85-1	S-364	10294-33-4	I-1995	12141-20-7	I-4800	13537-24-1	I-3155		
7664-39-3	I-3310	7784-44-3	I-1220	9000-29-7	4980K	9014-90-8	S-393-1	10294-39-0	I-7030	12163-00-7	I-3830	13559-66-5	2683K		
7673-09-8	8248C	7784-46-5	I-121	9000-65-1	4995H	9014-90-8	S-393	10294-40-3	I-1736	12190-79-3	I-3790	13568-71-3	I-4340		
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7681-52-9	I-5600	7787-58-8	I-1920	9001-73-4	6760F	9014-92-0	S-359	10294-70-9	I-5990	12230-71-6	I-23	13590-82-4	I-2570		
7681-55-2	I-5610	7787-59-9	I-1880	9002-07-7	8609F	9016-45-9	S-352	10298-80-3	3044F	12232-99-4	I-123	13593-03-8	PS-2010		
7681-65-4	I-2970	7787-64-6	I-1940	9002-18-0	1584C	9016-72-2	PS-2062	10308-82-4	1733F	12255-33-3	I-1660	13596-35-5	I-5195		
7681-82-5	I-138	7787-70-4	I-2930	9002-86-2	6937H	9036-19-5	S-340	10310-21-1	1737K	12264-18-5	4583F	13598-36-2	I-4780		
7696-12-0	PS-1042	7788-98-9	I-1265	9002-89-5	7214E	9036-19-5	S-339	10326-24-6	I-6500	12273-51-7	I-5735	13600-98-1	I-5520		
7696-12-0	F2457	7788-99-0	I-2680	9002-91-9	PS-2030	9036-19-5	S-338	10357-84-3	3927B	12427-38-2	PS-22	13602-12-5	5653K		
7699-41-4	I-5230	7789-00-6	I-96	9002-92-0	S-314	9036-19-5	S-337	10361-03-2	I-5640	12627-33-7	I-6240	13669-42-6	8110K		
7699-45-8	I-6520	7789-02-8	I-41	9002-92-0	S-313	9036-66-2	2000H	10361-12-3	4884F	12627-38-2	S-392	13669-76-6	I-4770		
7700-17-6	PS-603	7789-09-5	I-1280	9002-93-1	S-345	9084-06-4	S-443	10361-29-2	I-1260	12635-27-7	I-4570	13674-87-8	8584F		
7700-17-6	F2101	7789-12-0	I-133	9002-93-1	S-344	10004-44-1	PS-2186	10361-37-2	I-22	12642-23-8	F860	13679-70-4	6433K		
7704-34-9	I-159	7789-23-3	I-102	9002-93-1	S-343	10022-31-8	I-24	10361-46-3	I-1910	12653-89-3	I-6445	13684-56-5	PS-1015		
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7719-09-7	I-6165	7789-29-9	I-4910	9002-98-6	2314L	10025-69-1	I-156	10378-47-9	I-2490	12674-11-2	F107	13701-59-2	I-1725		
7719-12-2	I-4860	7789-38-0	I-5470	9003-01-4	7170	10025-77-1	I-53	10380-28-6	PS-2091	12767-90-7	I-6510	13718-26-8	I-5650		
7720-83-4	I-6350	7789-41-5	I-2190	9003-11-6	S-373-1	10025-91-9	I-19	10386-84-2	F905	12771-68-5	PS-1008	13746-66-2	I-100		
7721-01-9	I-6120	7789-43-7	I-2720	9003-13-8	PS-908	10026-04-7	I-5240	10388-95-1	7080K	13007-92-6	I-2650	13755-29-8	I-5540		
7722-64-7	I-109	7789-45-9	I-47	9003-17-2	Pz-157	10026-06-9	I-155	10405-85-3	O-2208	13019-22-2	2914L	13755-38-9	I-5670		
7722-76-1	I-13	7789-47-1	I-4390	9003-20-7	2440L	10026-11-6	I-6890	10409-54-8	2282F	13020-57-0	5293K	13770-90-6	I-6730		
7722-84-1	I-3320	7789-60-8	I-4850	9003-27-4	Pz-151	10026-13-8	I-86	10416-59-8	2276A	13021-40-4	7482J	13770-92-8	I-2405		
7723-14-0	I-4790	7789-61-9	I-1590	9003-27-4	Pz-150	10026-18-3	I-2750	10419-79-1	3653K	13029-08-8	3620G	13777-25-8	I-6880		
7726-95-6	I-2020	7789-75-5	I-2220	9003-27-4	Pz-149	10026-22-9	I-45	10422-35-2	2345H	13029-09-9	3542G	13780-06-8	I-2320		
7727-21-1	I-110	7789-77-7	I-2360	9003-39-8	7215E	10026-24-1	I-2860	10433-06-4	I-1600	13054-87-0	2323L	13782-18-8	I-5080		
7727-43-7	I-25	7789-79-9	I-2270	9003-95-6	7220	10028-18-9	I-4640	10444-89-0	2010K	13071-79-9	PS-680	13810-83-8	7796C		
7727-54-0	I-1360	7789-92-6	4494F	9004-32-4	7595C	10030-85-0	CARB-16	10450-59-6	I-2590	13071-79-9	F2137	13811-71-7	3840		

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
13814-96-5	I-3500	15476-59-2	I-5950	17360-11-1	1483L	20661-21-6	I-3340	25013-16-5	O-1022	27605-76-1	PS-2082	33146-45-1	3625G
13817-37-3	I-2760	15484-44-3	2890K	17408-14-9	8311	20734-58-1	O-2391	25014-31-7	Pz-153	27757-85-3	8961K	33213-65-9	PS-81-2
13825-74-6	I-161	15532-75-9	8319F	17422-32-1	3021B	20740-98-1	I-5910	25014-41-9	7180	27813-21-4	MET-260A	33213-65-9	F203
13826-35-2	MET-758B	15545-48-9	PS-2078	17455-13-9	F2304	20893-30-5	8012F	25025-59-6	1009L	27858-07-7	O-2221	33245-39-5	PS-1012
13826-83-0	I-1416	15570-12-4	5988K	17467-15-1	1963K	20925-85-3	F2930	25038-54-4	6501E	27896-84-0	6295F	33245-39-5	F2391
13845-36-8	I-5190	15572-79-9	4895K	17476-04-9	I-3690	21041-93-0	I-2770	25057-89-0	PS-1011	28044-83-9	PS-700-1	33284-50-3	3622G
13852-51-2	2986K	15600-01-8	5220K	17499-48-8	I-6175	21087-64-9	PS-398	25057-89-0	F2038	28057-48-9	PS-791	33284-52-5	9022G
13881-91-9	1887K	15600-59-6	I-1710	17501-44-9	I-6815	21087-64-9	F2237	25059-80-7	PS-2193	28086-13-7	PS-205	33284-53-6	7829G
13927-77-0	Ou-72	15625-89-5	8473A	17524-05-9	2155L	21109-95-5	I-1820	25103-09-7	5445B	28159-98-0	PS-2279	33284-54-7	7833G
13952-84-6	O-275	15630-89-4	I-5500	17564-64-6	3047F	21302-90-9	3953B	25103-12-2	8327A	28167-49-9	PS-676-1	33444-88-1	9013G
13963-57-0	I-1030	15653-01-7	I-2520	17584-12-2	1840K	21368-68-3	2680K	25103-58-6	4420	28188-41-2	1180L	33588-54-4	2475K
13981-95-8	I-6100	15690-25-2	8955K	17606-31-4	PS-2106	21545-54-0	1381L	25134-21-8	6075F	28249-77-6	PS-1017	33629-47-9	PS-1004
13986-21-5	I-6650	15699-18-0	I-4580	17625-03-5	7757H	21564-17-0	PS-2021	25148-68-9	6337K	28292-43-5	3939K	33693-04-8	PS-2120
14002-80-3	6244K	15721-78-5	F2921	17629-30-0	CARB-15	21564-17-0	F2385	25152-52-7	I-1035	28300-74-5	I-1550	33770-60-4	I-4395
14003-34-0	2149L	15748-91-1	I-6540	17640-02-7	F957	21609-90-5	PS-677	25154-52-3	S-306	28348-53-0	S-419-1	33820-53-0	PS-406
14012-90-9	I-2820	15753-50-1	3282K	17647-74-4	FD978-5	21609-90-5	F2117	25155-30-0	S-420	28356-58-3	2443L	33820-53-0	F2366
14013-15-1	I-4240	15862-07-4	8236G	17696-11-6	1192L	21645-51-2	I-1105	25168-15-4	PS-297	28434-00-6	PS-790	33838-52-7	F2544
14024-18-1	I-3090	15869-93-9	4248H	17700-09-3	9009K	21666-38-6	F2545	25168-26-7	PS-319	28434-01-7	PS-2080	33884-43-4	2445K
14024-48-7	3189F	15869-95-1	4250H	17781-16-7	MET-754F	21715-90-2	2770L	25168-73-4	S-288	28519-06-4	2985B	33973-59-0	8935K
14024-56-7	I-3945	15870-10-7	O-2159	17804-35-2	PS-222	21725-46-2	PS-387	25173-37-9	5681E	28553-12-0	Pz-455	33979-03-2	5021G
14024-58-9	I-4110	15879-93-3	PS-2112	17814-85-6	2743F	21725-46-2	F2487	25265-77-4	7978H	28553-12-0	Pt-24	34014-18-1	PS-407
14038-43-8	BS-163	15968-05-5	7827G	17849-38-6	2806K	21725-46-2	F2487	25311-71-1	PS-1003	28631-66-5	BS-57	34014-18-1	F2243
14055-02-8	3046L	15972-60-8	PS-357	17929-90-7	1700K	21729-09-9	I-3810	25322-68-3	S-651	28772-56-7	PS-1038	34052-37-4	3066K
14064-10-9	3758A	15972-60-8	F2072	17976-43-1	Ou-68	21784-78-1	I-4680	25322-68-3	F2160	28804-88-8	O-784	34123-57-4	MET-2000A
14075-53-7	I-5000	15988-11-1	2446L	18063-03-1	3719K	21908-53-2	I-4420	25322-68-3	F2159	28928-97-4	6605F	34123-59-6	PS-2000
14143-55-6	PS-1108	16009-13-5	5006F	18162-48-6	2604H	22042-59-7	PS-2069	25322-68-3	2998L	28953-04-0	I-4440	34145-05-6	3539K
14143-55-6	F2155	16013-85-7	3596K	18181-70-9	PS-1206	22115-41-9	2413F	25338-55-0	Ou-25	28957-52-0	Ou-70	34256-82-1	PS-2040
14166-21-3	3268A	16045-92-4	3186K	18181-80-1	PS-1062	22175-22-0	MET-2078A	25339-99-5	S-284-1	28959-35-5	1819L	34289-60-6	3929K
14167-59-0	O-2267	16056-11-4	2521L	18259-05-7	6795G	22212-55-1	PS-2079	25340-17-4	7000L	28980-48-5	I-1460	34590-94-8	O-2088
14187-32-7	3501F	16079-88-2	PS-2089	18268-45-6	I-5325	22212-55-1	F2493	25383-99-7	S-298	28983-56-4	BS-138	34592-47-7	8939K
14205-39-1	1684F	16136-58-6	6268K	18268-70-7	Pz-805	22224-92-6	PS-612	25395-31-7	Pz-104	29059-00-5	Pz-760	34643-46-4	PS-1094
14215-68-0	CARB-39	16179-97-8	7355F	18282-10-5	I-6020	22224-92-6	F2246	25395-31-7	O-509	29091-21-2	PS-2133	34643-46-4	F2070
14221-01-3	7966J	16239-18-2	3555E	18282-59-2	2310	22325-27-5	3938K	25417-20-3	S-441	29096-75-1	1699F	34643-47-5	MET-1018C
14264-16-5	3679F	16357-59-8	1645L	18368-63-3	3132K	22457-55-2	7054F	25496-72-4	S-235	29232-93-7	PS-644	34662-31-2	3057K
14268-66-7	2077L	16369-05-4	1905K	18433-42-6	I-6700	22483-09-6	1595K	25513-64-8	8405F	29263-83-0	3759A	34722-90-2	1525L
14283-07-9	I-3916	16369-21-4	7069K	18467-77-1	PS-2190	22499-12-3	2320L	25569-80-6	9000G	29263-94-3	3650K	34803-66-2	O-2421
14284-89-0	2167L	16376-36-6	PS-2113	18472-87-2	BS-68	22570-08-7	I-6760	25606-41-1	PS-2167	29427-58-5	6274K	34822-90-7	3345C
14312-45-9	I-1300	16420-13-6	4229F	18530-56-8	PS-2288	22583-29-5	3920K	25637-84-7	S-236	29553-26-2	5959F	34850-66-3	2740
14320-04-8	2812L	16423-68-0	BS-69	18592-13-7	3024K	22625-57-6	2989K	25641-18-3	BS-74	29602-39-9	1705F	34883-39-1	3624G
14321-27-8	4265K	16484-77-8	PS-2116	18600-42-5	6535K	22699-70-3	4241K	25724-58-7	Pz-480	29720-92-1	5458F	34883-41-5	3628G
14325-24-7	3076L	16532-79-9	2517K	18625-12-2	PS-1101	22767-50-6	1681L	25724-58-7	Pt-34	29726-21-4	8048F	34883-43-7	3623G
14371-10-9	O-240	16533-71-4	3968K	18625-12-2	F959	22781-23-3	PS-739	25751-57-9	I-1430	29921-57-1	5689K	35013-90-2	3255K
14376-79-5	8931K	16588-02-6	3060K	18691-97-9	PS-2048	22781-23-3	F2387	25808-74-6	I-3590	29927-08-0	1810K	35065-27-1	5019G
14402-67-6	I-6330	16588-34-4	3048K	18698-97-0	2511K	22831-23-8	I-6475	25837-05-2	F901	29973-13-5	PS-2058	35065-28-2	5014G
14402-75-6	I-2130	16596-41-1	1989K	18708-70-8	9012K	22831-42-1	I-1050	25868-86-4	I-4320	30043-49-3	PS-2061	35065-29-3	9044G
14402-88-1	4588F	16605-91-7	3621G	18744-58-6	4574F	22936-86-3	PS-2104	25889-81-0	I-1545	30113-37-2	BS-73	35065-30-6	9043G
14432-12-3	1745K	16606-02-3	8237G	18801-00-8	F1006	22948-02-3	2001K	25895-60-7	I-7023	30125-63-4	MET-413A	35120-10-6	6424K
14458-05-0	F2936	16624-64-9	2731L	18829-56-6	F2929	22996-18-5	1291L	25932-11-0	I-5425	30251-10-6	2146F	35161-71-8	6376K
14459-95-1	I-101	16652-64-5	1174L	18880-00-7	2601K	23031-36-9	PS-2109	25952-53-8	1798L	30282-14-5	1555K	35205-54-0	6334K
14481-60-8	S-673	16655-82-6	F2053	18917-89-0	I-4060	23050-91-1	4030F	25954-13-6	PS-414	30399-84-9	5477J	35256-85-0	PS-2255
14484-64-1	PS-20	16672-87-0	PS-325	19044-88-3	PS-410	23074-42-2	1581B	26002-80-2	PS-1030	30525-89-4	O-232	35274-05-6	S-294
14485-28-0	I-6655	16674-78-5	I-69	19044-88-3	F2386	23103-98-2	PS-757	26002-80-2	F2458	30560-19-1	PS-738	35367-38-5	PS-1028
14531-56-7	4585F	16691-43-3	1093L	19150-21-1	O-2029	23135-22-0	PS-737	26027-37-2	S-598	30560-19-1	F2440	35400-43-2	PS-1018
14545-23-4	F2549	16703-52-9	4289K	19185-99-0	I-3675	23135-22-0	F2044	26087-47-8	PS-2065	30582-09-3	4281E	35400-43-2	F2056
14548-46-0	2257K	16716-13-5	F1051	19213-72-0	2695F	23184-66-9	PS-348	26093-31-2	2662L	30673-36-0	2602H	35400-43-2	F2056
14552-35-3	3204H	16721-80-5	I-5820	19305-07-8	7101F	23184-66-9	F2204	26177-43-5	2212L	30745-55-2	I-1120	35486-42-1	1770K
14610-37-8	2628K	16731-55-8	I-4950	19372-44-2	I-2165	23248-23-9	I-3800	26177-44-6	2390K	30864-28-9	PS-2218	35554-44-0	PS-2043
14634-91-4	6833J	16744-98-2	4780K	19381-50-1	BS-1	23250-73-9	I-4270	26225-79-6	PS-1045	31218-83-4	PS-1076	35572-78-2	F2492
14686-13-6	O-2117	16745-94-1	O-2072	19393-92-1	2420K	23297-93-0	5156F	26264-06-2	S-423	31252-42-3	2295K	35575-96-3	PS-1202
14686-14-7	O-2118	16747-26-5	8450H	19406-51-0	F2491	23319-39-3	I-1320	26266-77-3	Pz-134	31508-00-6	9032G	35602-69-8	1309L
14692-29-6	I-6060	16752-77-5	PS-775	19437-26-4	4374F	23363-14-6	I-6473	26292-31-9	I-2740	31566-31-1	S-232	35693-92-6	8238G
14698-29-4	PS-2297	16752-77-5	F2043	19438-61-0	5900F	23422-53-9	PS-400	26305-13-5	1468L	31566-31-1	Pz-860	35693-99-3	7825G
14708-13-5	I-3980	16774-21-3	I-39	19447-29-1	O-2217	23505-41-1	PS-643	26399-36-0	PS-399	31566-31-1	O-458	35694-04-3	9037G
14726-36-4	Ou-75	16812-54-7	I-4690	19482-05-4	1207L	23560-59-0	PS-2225	26399-36-0	F2367	31681-98-8	6147A	35694-06-5	5013G
14755-02-3	1810L	16836-95-6	8052F	19522-67-9	5697K	23564-05-8	PS-230	26402-31-3	S-222	31878-59-8	1580E	35694-08-7	6680G
14777-27-6	6064K	16840-96-3	I-6450	19524-06-2	2411F	23564-06-9	PS-223	26412-87-3	7348F	31949-21-0	1234L	35794-11-7	3953K
14806-50-9	2941L	16867-03-1	1880K	19550-75-5	O-2059	23586-53-0	7974F	26444-49-5	3197F	31972-43-7	MET-612A	35884-76-5	MET-86D
14807-75-1	1675L	16867-04-2	3791K	19666-30-9	PS-1050	23616-79-7	2305K	26446-35-5	O-460	31972-44-8	MET-612B	35884-76-5	MET-86B
14807-96-6	7787	16872-11-0	I-3180	19693-75-5	6020K	23730-94-1	I-4645	26472-00-4	6192K	32328-03-3	3825E	36062-19-8	3457F
14808-60-7	M-32AB-10	16879-02-0	3174K	19719-28-9	F2035	23844-56-6	PS-1106	26522-85-0	2011L	32360-05-7	7740B	36275-66-8	2884F
14816-18-3	PS-2100	16893-85-9	I-135	19727-83-4	6556K	23844-56-6	F969	26536-60-7	1513L	32449-92-6	4909H	36445-71-3	S-454
14850-23-8	O-2225	16919-19-0	PS-291	19805-75-5	7953F	23873-81-6	O-868	26544-17-2	Pz-374	32503-27-8	8883K	36536-46-6	2652K
14855-76-6	BS-54	16919-27-0	I-5180	19937-59-8	PS-2178	23876-13-3	6313K	26544-38-7	7973F	32598-10-0	7828G	36546-50-6	1135L
14919-01-8	O-2234	16919-31-6	I-1337	19947-75-2	1747L	23945-44-0	3797K	26570-85-4	3315F	32598-11-1	7830G	36559-22-5	9014G
14938-35-3	1957F	16923-95-8	I-5040	19952-47-7	1673F	23950-58-5	PS-349	26628-22-8	I-5420	32598-12-2	7834G	36631-30-8	Pz-710
14985-18-3	I-6850	16925-26-1	I-5570	20063-92-7	O-2207	23950-58-5	PS-349	26638-43-7	6180K	32598-13-3	7835G	36653-82-4	S-302
15029-30-8	3237K	16941-11-0	I-1315	20095-27-6	1957L	23950-58-5	PS-349	26644-46-2	PS-2014	32598-14-4	9028G	36653-82-4	O-146
15067-26-2	F720	16961-80-1	I-2240	20103-09-7	3605K	23950-58-5	F1083	26658-19-5	S-267	32607-23-1	2875F	36734-19-7	PS-1052
15091-91-5	I-2430	16962-40-6	I-1335	20184-89-8	O-2218	24017-47-8	PS-2139	26718-65-0	PS-87-1	32612-48-9	S-398	36768-62-4	1997K
15098-87-0	I-1090	16962-47-3	I-1313	20205-91-8	I-1990	24017-47-8	PS-1213	26761-40-0	Pz-52	32612-48-9	S-397	37143-54-7	6032K
15102-42-8	F2302	17010-21-8	I-2140	20235-19-2	CARB-1	24065-33-6	3151F	26761-40-0	Pt-41	32612-48-9	S-396	37187-84-1	I-4687
15128-82-2	5428K	17013-01-3	I-5615	20265-97-8	1117L	24096-53-5	PS-2154	26896-48-0	2231A	32690-93-0	9019G	37231-60-0	S-227
15165-67-0	PS-2300	17029-22-0	I-5020	20282-70-6	BS-144	24157-81-1	PS-2272	26946-37-2	I-1800	32692-19-6	6553K	37248-47-8	PS-2094
15191-85-2	RE-16	17032-49-4	I-4310	20295-64-1	3165K	24307-26-4	PS-1047	26952-21-6	5444D	32752-10-6	2746L	37324-23-5	F293
15231-91-1	2368E	17040-19-6	PS-642	20305-50-4	2001B	24313-88-0	8369A	26970-82-1	I-146	32768-54-0	3724F	37324-24-6	F870
15232-76-5	O-2237	17060-07-0	F836	20325-40-0	3963H	24332-20-5	5956K	27082-31-1	1822L	32770-99-3	1153L	37457-75-3	I-2460
15244-10-7	I-3170	17084-13-8	I-5030	20349-39-7	O-959	24391-49-9	I-6170	27176-87-0	S-428-1	32774-16-6	9042G	37680-65-2	8230G
15258-73-8	3545K	17109-49-8	PS-2066	20357-25-9	2251L	24407-32-7	7798E	27178-16-1	Pz-27	32807-28-6	6176K	37680-68-5	9007G
15273-81-1	I-5164	17110-51-9	1318L	20398-06-5	7975E	24425-40-9	1885K	27194-74-7	S-217	32809-16-8	PS-2126	37680-69-6	9009G
15293-74-0	I-3750	17116-13-1	I-5560	20427-59-2	I-7032	24516-39-0	3181F	27194-74-7	Pz-91	32830-97-0	3082A	37680-73-2	6789G
15299-99-7	PS-553	17125-80-3	I-1760	20427-77-4	I-4700	24544-04-5	3806K	27214-00-2	2677F	32862-97-8	1228L	37764-25-3	PS-2054
15299-99-7	F2238	17146-86-0	2170	20428-74-4	F2029	24579-73-5	PS-2167-1	27304-13-8	MET-75A	32875-02-8	8317F	38235-68-6	6056F
15356-70-4	O-156	17176-77-1	1417L	20428-76-6	F2513	24742-30-1	1774L	27314-13-2	PS-1044	32889-48-8	PS-402	38379-99-6	9026G
15455-85-3	3184F	17201-43-3	2413H	20548-54-3	I-2420	24774-58-1	3553B	27314-13-2	F2240	32953-14-3	4338K	38380-01-7	9053G
15457-05-3	PS-431	17272-45-6	I-3369	20605-01-0	3647K	24934-91-6	PS-2209	27323-41-7	S-425	32957-26-9	1949K	38380-02-8	6785G
15467-20-6	CDF-9	17301-94-9	O-2178	20611-81-8	I-5525	24938-91-8	S-330-1	27511-79-1	1138L	33025-41-1	9018G	38380-03-9	9030G
15474-96-1	2737K	17347-95-4	I-3890	20624-25-3	O-390	24969-06-0	2968L	27565-41-9	F2447	33089-61-1	PS-1005	38380-04-0	9067G

CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#	CAS#	PART#
38380-05-1	9060G	42596-02-1	I-3915	54537-47-2	3881K	61790-33-8	S-497	68359-37-5	PS-2204	75673-16-4	Pt-35	107534-96-3	PS-1091
38380-07-3	5010G	42740-50-1	9081G	54593-83-8	PS-2217	61790-57-6	S-542	68359-37-5	PS-1090	75673-16-4	F2313	109293-97-2	PS-2148
38380-08-4	5022G	42874-03-3	PS-1033	54760-75-7	1429L	61790-60-1	S-544	68359-37-5	F2460	75736-33-3	PS-2239	110235-47-7	PS-2302
38411-22-2	5012G	43036-06-2	3225B	54827-17-7	F2569	61791-00-2	S-650	68412-54-4	S-351	76578-12-6	MET-1080A	110488-70-5	PS-2138
38444-73-4	9003G	43076-59-1	2931F	55066-53-0	4673F	61791-00-2	S-207	68412-54-4	S-350	76578-14-8	PS-1080	111988-49-9	PS-2262
38444-76-7	9008G	43100-65-8	I-3807	55117-15-2	2908K	61791-12-6	S-198	68412-54-4	S-349	76674-21-0	PS-2177	111991-09-4	PS-2005
38444-78-9	9002G	43121-43-3	PS-1013	55179-31-2	PS-1093	61791-14-8	S-525	68412-54-4	S-347	76738-62-0	PS-2097	112226-61-6	PS-2146
38444-81-4	8233G	43121-43-3	F2218	55215-17-3	6787G	61791-14-8	S-523	68412-54-4	S-346	76842-07-4	9033G	112281-77-3	PS-2299
38444-84-7	9004G	43222-48-6	PS-404	55215-18-4	5011G	61791-14-8	Ou-83	68424-43-1	S-28	77182-82-2	PS-2124	112410-23-8	PS-2188
38444-85-8	9005G	49721-45-1	8199F	55219-65-3	PS-1064	61791-20-6	S-334	68440-66-4	S-644	77458-01-6	PS-2046	113096-99-4	PS-2130
38444-86-9	8232G	49800-23-9	8920K	55283-68-6	PS-408	61791-24-0	S-530	68478-86-4	S-462-1	77501-63-4	PS-2077	113136-77-9	PS-2243
38444-87-0	9010G	49844-90-8	3018K	55283-68-6	F2365	61791-26-2	S-528	68514-62-5	S-90	77732-09-3	PS-2137	114311-32-9	PS-2162
38444-90-5	9011G	50471-44-8	PS-1049	55285-14-8	PS-1063	61791-41-1	S-580	68551-14-4	S-374-1	78587-05-0	PS-1079	114369-43-6	PS-2072
38444-93-8	7820G	50512-35-1	PS-2101	55290-64-7	PS-2052	61791-42-2	S-579	68553-11-7	S-241	79127-80-3	PS-2174	116255-48-2	PS-2301
38585-62-5	6265K	50563-36-5	PS-2325	55312-69-1	9025G	61791-44-4	S-526	68554-65-4	S-643	79241-46-6	PS-1097	116714-46-6	PS-2253
38641-94-0	PS-2185	50594-66-6	PS-1016	55335-06-3	PS-417	61791-46-6	S-662	68603-42-9	S-599	79277-27-3	PS-2011	117718-60-2	PS-2163
38727-55-8	PS-1006	50594-66-6	F2037	55512-33-9	PS-2081	61791-47-7	S-659	68608-63-9	S-559	79538-32-2	PS-2238	118134-30-8	PS-2293
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39148-24-8	PS-2026	50594-67-7	F2224	55701-05-8	MET-758A	61949-77-7	PS-758-2	68855-78-7	Pz-390	79983-71-4	PS-2157	119791-41-2	PS-2265
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39295-99-3	F296	51026-28-9	PS-2019	55712-37-3	9006G	62059-43-2	F2443	68891-21-4	S-671	80789-72-6	1805K	120068-36-2	MET-2136A
39300-45-3	PS-27	51218-45-2	PS-403	55814-41-0	PS-2227	62437-99-4	5275K	68891-21-4	S-357	80822-15-7	1516L	120068-37-3	PS-2136
39300-45-3	F2109	51218-45-2	F2241	55912-20-4	3081K	62637-91-6	2926L	68936-95-8	S-669	80844-07-1	PS-2237	120116-88-3	PS-2336
39339-85-0	M-40A1-2	51218-49-6	PS-2294	56002-14-3	S-159	62637-92-7	1801L	68937-41-7	Pz-666	80866-75-7	6316K	120928-09-8	PS-2258
39485-83-1	6791G	51222-60-7	I-2030	56004-61-6	F2547	62637-93-8	8441A	68937-41-7	Pz-665	81012-89-7	2368L	121552-61-2	PS-2144
39512-49-7	3099B	51229-78-8	PS-2234	56030-56-9	5018G	62697-73-8	5590H	68938-01-2	3399F	81142-52-1	BS-109	122008-85-9	PS-2280
39515-40-7	PS-2198	51235-04-2	PS-416	56070-16-7	MET-680A	62778-12-5	1807K	68955-20-4	S-381	81334-34-1	PS-2016	122453-73-0	PS-2171
39529-26-5	S-250	51235-04-2	F2232	56073-07-5	PS-2143	62796-65-0	7824G	68955-53-3	S-488	81335-37-7	PS-2053	122836-35-5	PS-2132
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39568-89-3	7795C	51338-27-3	PS-1036	56425-91-3	PS-2131	62924-70-3	PS-1211	68990-54-5	S-242	81405-85-8	PS-2195	123312-89-0	PS-2189
39635-31-9	9048G	51388-20-6	2166F	56558-16-8	6792G	63148-62-9	S-658	69327-76-0	PS-2067	81406-37-3	PS-2191	123333-56-2	O-2398
39635-33-1	9036G	51429-74-4	I-85	56558-17-9	6796G	63148-65-2	2452L	69335-91-7	PS-1205	81412-43-3	PS-2242	123343-16-8	PS-2145
39635-35-3	9039G	51541-60-7	3538E	56558-18-0	6797G	63448-63-5	1889K	69377-81-7	PS-2339	81777-89-1	PS-2001	124495-18-7	PS-2284
39765-80-5	MET-75C	51630-58-1	PS-1032	56819-09-4	Ou-69	63449-39-8	Pz-955	69782-90-7	9069G	82097-50-5	PS-2042	125401-92-5	PS-2246
39765-80-5	F2180	51630-58-1	F2459	56863-02-6	S-657	63449-39-8	Pz-128	69782-91-8	9080G	82558-50-7	PS-2129	126535-15-7	PS-2147
39896-06-5	7407F	51674-17-0	I-5860	56962-08-4	3611K	63449-39-8	Pz-127	69806-34-4	PS-2310	82560-54-1	PS-2241	126801-58-9	PS-2303
39920-37-1	3695H	51707-55-2	PS-2044	57018-04-9	PS-2156	63496-31-1	F290	69806-40-2	PS-2311	82657-04-3	PS-2003	126833-17-8	PS-2202
39931-77-6	4667F	51750-73-3	I-119	57153-17-0	PS-1103	63597-73-9	MET-2071B	69806-50-4	PS-2240	82933-91-3	S-667	127277-53-6	PS-2226
39965-81-6	3258K	52207-48-4	PS-2184	57153-17-0	F963	63597-73-9	MET-2071A	70124-77-5	PS-1072	83055-99-6	PS-1082	128639-02-1	PS-2170
40064-34-4	7137F	52253-69-7	1753L	57153-18-1	PS-1084	63917-11-3	4229K	70288-86-7	PS-2220	83121-18-0	PS-2247	129322-83-4	F2561
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40487-42-1	PS-401	52315-07-8	PS-1068	57673-91-3	3831E	64044-51-5	O-936	70362-49-1	9020G	83657-24-3	PS-2152	131341-86-1	PS-2172
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40487-42-1	F2438	52547-00-9	1802F	57960-19-7	PS-2296	64051-79-2	5460K	70424-69-0	9055G	84087-01-4	PS-2098	131860-33-8	PS-2141
40499-83-0	6998H	52645-53-1	PS-758	57966-95-7	PS-1067	64257-84-7	PS-2002	70424-70-3	9034G	84508-45-2	F2543	132827-25-9	MET-222B
40596-69-8	PS-1040	52645-53-1	F2216	57981-02-9	F2563	64415-15-2	4015L	70592-80-2	S-552-1	85509-19-9	PS-2041	134098-61-6	PS-2216
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40730-94-7	4800K	52663-63-5	5017G	58477-85-3	2716L	64628-44-0	PS-2176	71133-14-7	F2512	86479-06-3	PS-2074	135410-20-7	PS-2219
40843-25-2	MET-1036B	52663-68-0	9046G	58593-78-5	2773K	64700-56-7	PS-2308	71283-80-2	PS-2223	86893-19-8	S-668	135590-91-9	PS-2287
40932-60-3	9018K	52663-69-1	5001G	58626-38-3	2788L	64709-57-5	2749K	71422-67-8	PS-2248	87130-20-9	PS-2153	136849-15-5	PS-2214
41051-88-1	F2548	52663-71-5	5000G	58702-45-9	8234G	64742-53-6	F2442	71561-11-0	PS-2064	87392-12-9	PS-403-1	138261-41-3	PS-2086
41052-75-9	3111K	52663-72-6	9041G	59080-39-6	6750G	64902-72-3	PS-1065	71626-11-4	PS-2142	87546-18-7	PS-2119	140939-15-7	MET-357D
41083-11-8	PS-2063	52663-73-7	9050G	59291-64-4	9062G	65369-76-8	3096F	71751-41-2	PS-2068	87674-68-8	PS-2161	141112-29-0	PS-2166
41115-23-5	4570K	52663-75-9	9082G	59291-65-5	9074G	65510-44-3	9058G	71962-74-8	7023K	87820-88-0	PS-2135	141517-21-7	PS-2196
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41464-41-9	7826G	53112-28-0	PS-2251	60233-25-2	9027G	67423-45-4	5298F	74222-97-2	PS-1074	96182-53-5	PS-2192	158062-67-0	PS-2290
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41464-49-7	9017G	53348-04-2	O-2389	60897-63-4	I-1750	67701-05-7	S-16	74472-35-8	9056G	97886-45-8	PS-2173	163515-14-8	PS-2291
41464-51-1	6786G	53404-31-2	PS-2307	60908-54-5	7633F	67747-09-5	PS-2175	74472-36-9	6793G	98886-44-3	PS-2273	165252-70-0	PS-2295
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42195-92-6	3896K	53802-89-4	I-4600	61789-18-2	S-610	68194-06-9	9054G	74472-47-2	5003G	101463-69-8	PS-2213	199119-58-9	PS-2317
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42588-37-4	PS-2051	54460-46-7	PS-2092	61790-14-5	S-106	68194-16-1	9075G	74472-53-0	9051G	105512-06-9	PS-2276	243973-20-8	PS-2319
42588-37-4	F2521	54460-46-7	F2520	61790-18-9	S-498	68194-17-2	6682G	74487-85-7	9047G	106325-08-0	PS-2305	283594-90-1	PS-2322

Literature and Books

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You have in your hands Chem Service's General Catalog. Hopefully you have found the chemical you are looking for but if not we have other catalogs that specialize in particular chemical areas.

- Pesticide and Metabolites Standards Catalog-Provides CAS numbers, structure, and LD_{50} values along with other common names for the chemicals.
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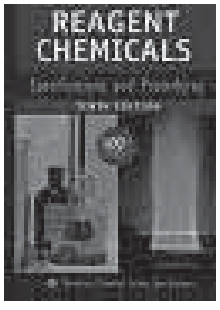
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The Crop Protection Handbook

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The Pesticide Manual

A World Compendium published by the British Crop Protection Council. Anyone doing work with pesticides should have this book. Over 900 main entries, and 500 more superseded entries. Each pesticide is described on a separate page and lists: nomenclature, development codes, manufacturing, properties, uses, toxicology, formulation, and methods of analysis.
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The Merck Index

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Cat. No. MI

Product Documentation

MATERIAL SAFETY DATA SHEETS (MSDS) - Federal Regulation (OSHA) 29 CFR 1910.1200 and other applicable state laws require us to furnish a Material Safety Data Sheet with the initial delivery of each hazardous chemical. However, as a service to you, we supply a MSDS with every order. Where hazards are known, appropriate warnings are noted on the label. Always READ your Material Safety Data Sheet before handling chemicals.

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CERTIFICATE OF ANALYSIS (COA) - With the purchase of any Chem Service "Standards Grade" environmental, pesticide, organic chemicals, solutions or mixtures, a COA will be provided free of charge, where available. COAs are available for kits, but need to be requested at the time of order. Please note that "Standards Grade" products assigned a purity of "tech", will not receive a COA.

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Prior to the expiration date shown on the label and exclusive of any customer contamination, we will replace any products showing purity degradation. You must advise our Customer Service Department immediately to receive approval and instruction on either disposal or return of the product.

Shelf Life Information

Shelf life at Chem Service is part of our warranty. Our normally assigned shelf life is eighteen (18) months or longer. However, a standard may have a **short shelf life** (less than 12 months) assigned due to a purity or a stability problem. If Chem Service offers a standard with a short shelf life, we notify the buyer of the material's short shelf life at the time of purchase.

Chem Service will supply solutions only when they have more than one-third of the shelf life remaining. We supply neat Standards Grade standards only when they have a minimum of two-thirds of the shelf life remaining on their lot certification.

Contact us at:

Chem Service inc

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West Chester, PA 19381-0599

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www.chemservice.com

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Marketing
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Technical Inquiries & Customer Service:
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ORDERS
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TECHNICAL INQUIRIES & CUSTOMER SERVICE
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Fax: 1-610-692-8729

Return Policy

Goods may not be returned for credit except with Sellers written permission and then only in strict compliance with Seller's return shipment instructions, since most of Seller's products are classified as Hazardous Materials (HazMats) by the U.S. D.O.T. or Dangerous Goods under the applicable international conventions (ICAO/IATA or IMDG). It is imperative that Buyer not return anything without specific instructions from Seller to prevent Buyer's violation of applicable laws and regulations. Buyer will at times handle and dispose of goods in accordance with Seller's instructions, the current Material Safety Data Sheet, and all applicable law and government regulations.

Buyer has 15 days to notify Seller of any damage or shortage, and 30 days to notify Seller of item ordered incorrectly. If a return is necessary, a return authorization number (RO#) must be given by the Customer Service Manager, and the item(s) must be returned within 10 days after issuance of the RO#.

Unauthorized returns may result in an assessment of a charge to the Buyer, equal to Chem Service's actual expense in handling the unauthorized return. In addition, Buyer may incur regulatory or legal sanctions for illegal shipments and will be held liable by Chem Service for any expenses, including legal fees, fines, or other penalties incurred by Chem Service as a result of Buyer's unauthorized shipment.

The restocking fee is 30% or a $10.00 minimum and is decided upon by Seller.

Grade Information

"STANDARDS GRADE" (S.G.) - Material has been analyzed and assigned a certified purity and valid expiration date. The analysis is traceable by lot number. Minimum purity requirement is 98% for neat materials, except in a few cases where it is not physically or economically possible (a few of these items may be assigned a purity of "Tech" due to the nature of the compound - not to be confused with "Technical Grade"). Acceptable as a standard by various government agencies.

"REFERENCE GRADE" (R.G.) - Major component identified. May be technical grade or very high purity. Assigned a lot number that can be traced to an analysis.

"TECHNICAL GRADE" (TECH) - Commercially produced chemicals, usually containing multiple components that are impossible to purify. Cannot be analyzed to our satisfaction. No purity is assigned.

"NO GRADE" (Unmarked) - Material is 95% or less. No analysis or certified purity available.

Products furnished by Chem Service, Inc. are **FOR LABORATORY USE ONLY!** Our products may **NOT BE USED** as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Warning - Read your Material Safety Data Sheet before handling or using any chemicals.

General Information

Extended Business Hours **-** Chem Service's business hours are Monday - Thursday 8:00 AM to 6:00 PM ET and Friday 8:00am - 5pm ET for ordering and support of all Chem Service products.

Rush Hours **-** Place any rush order by 4:00 PM. ET and have guaranteed same day shipment of any in-stock Chem Service product. With our extensive 16,000 plus inventory of reference materials, Chem Service has the products you need when you need them.

Purity Minimums **-** Chem Service's policy is to provide all neat Standards Grade materials that meet the 98% purity minimum. There will be a few exceptions for a small number of compounds where the chemical stability or the nature of the compound makes this purity unobtainable or impractical, due to chemical stability, isomer separation, purification, synthesis, cost or other factors, but nearly all Standards Grade materials will ship as 98% or higher purity.

Certified Neat Products and Certified Custom Solutions **-** Our certified in-house neat chemicals are the basis of our quality custom solutions. We can tailor a product to meet your specification, certification, budget and delivery requirements. Use our Custom Solution & Mixture Request form on page 8.

Prices - Are Subject to Change Without Notice.

NOTICE: THIS LANGUAGE FORMS YOUR CONTRACT WITH CHEM SERVICE, INC.

1. **ACCEPTANCE GOVERNING PROVISIONS** - Buyer places any order subject to the terms and conditions herein contained, whether additional to or different from those contained in Buyer's purchase order or any other form or document heretofore or hereafter supplied by Buyer to Seller. Seller's failure to object to provisions contained in any purchase order or any other form or document from Buyer shall not be construed as a waiver of these terms and conditions and not an acceptance of any such provision. If Buyer places an order from Seller's catalogue or catalogue supplement, Buyer is deemed to have assented to these terms. If Buyer places an order without reference to the catalogue, Buyer is deemed to have assented to these terms within ten (10) days of receipt of Seller's invoice or delivery of all or any part of the order, whichever is first, unless Seller receives written notice of any objection within 10 days after Buyer's receipt of this form. This contract and the terms and conditions shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania.

2. **CHANGES, CANCELLATION** - No change by Buyer of any term or condition of this contract or any of Seller's rights or remedies hereunder shall be binding on Seller, nor shall the order thereby acknowledged be cancelled or changed by Buyer, unless Seller shall expressly consent thereto in writing by Seller's authorized officer. There are no representations, agreements, promises or understandings between Buyer and Seller that are not expressed herein.

3. **DELIVERY, CLAIMS, DELAYS, RETURNS** - Unless specified differently in writing, all sales are F.O.B. Seller's shipping point. Delivery of goods to the carrier at Seller's plant or other loading point shall constitute delivery to Buyer and, regardless of shipping terms, all risk of loss or damage in transit shall be borne by Buyer. Seller reserves the right to make delivery in installments, all such installments to be separately invoiced and paid for when due per invoice, without regard to subsequent deliveries. Delay in delivery of any installment shall not relieve Buyer of its obligation to accept remaining deliveries.

   Immediately upon Buyer's receipt of any goods shipped hereunder, Buyer shall inspect the same and shall notify Seller, in writing, of any claims for shortages, defects or damages and shall hold the goods for Seller's written instructions concerning disposition. If Buyer shall fail to so notify Seller, within five days after the goods have been received by Buyer, such goods shall conclusively be deemed to conform to the terms and conditions thereof.

   Seller shall not be liable for any loss, damage or penalty as a result of any delay in or failure to manufacture, deliver or otherwise perform hereunder due to any cause beyond Seller's reasonable control, including, without limitation, unsuccessful reactions, act of Buyer, embargo or other governmental act, regulation or request, including but not limited to reinterpretation of any regulation, or change in enforcement or policy, affecting the conduct of Seller's business, fire, explosion, accident, theft, vandalism, riot, acts of war, strikes or other labor difficulties, lightning, flood, windstorm or other act of God, delay in transportation or inability to obtain necessary labor, fuel, materials, supplies or power at current prices.

4. **ALLOCATION OF GOODS** - If Seller is unable for any reason to supply the total demands for goods specified in Buyer's order, Seller may allocate its available supply among any or all buyers on such basis as Seller may deem fair and practical, without liability for any failure of performance which may result therefrom.

5. **PAYMENT** - Terms of sale are net 30 days of date of invoice, unless otherwise stated. Materials will be billed at the price in effect at the time shipment is made. If the financial condition of Buyer does not justify the terms of payment specified, Seller may demand full or partial payment in advance before proceeding with the contract. If Buyer defaults in any payment when due, under this or any other order, Seller at its option without prejudice to its other lawful remedies, may defer delivery or cancel this contract.

6. **TAXES AND OTHER CHARGES** - Any use tax, sales tax, excise tax, duty, custom, inspection or testing fee, or any other tax, fee or charge of any nature whatsoever imposed by any governmental authority, on or measured by the transaction between Seller and Buyer shall be paid by Buyer in addition to price quoted or invoiced. In the event Seller is required to pay any such tax, fee or charge, Buyer shall reimburse Seller therefore or, in lieu of such payment, Buyer shall provide Seller at the time the order is submitted an exemption certificate or other document acceptable to the authority imposing the tax, fee or charge.

7. **WARRANTIES** - Unless specified differently in writing, Seller warrants that its products shall conform to the description of such products as provided in the Seller's catalog. THIS WARRANTY IS EXCLUSIVE, AND SELLER MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURCHASE. Seller's warranties made in connection with this sale shall not be effective if Seller has determined in its sole discretion, that Buyer has misused the products in any manner or has failed to use the products in accordance with instructions, if any, furnished by the Seller and/or in accordance with any Material Safety Data Sheet.

   Seller's sole and exclusive liability and Buyer's exclusive remedy with respect to products proved to Seller's satisfaction to be defective or nonconforming shall be the replacement of such product without charge or refund of the purchase price, at Seller's sole discretion, upon the disposition of such products in accordance with Seller's instructions. SELLER SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

8. **COMPLIANCE WITH LAWS, REGULATIONS** - Seller certifies that to the best of its knowledge its products are produced in compliance with applicable requirements of the Fair Labor Standards Act, as amended, and the Occupational Safety and Health Standards Act of 1970 and regulations, rules and orders issued pursuant thereto. Seller also certifies to the best of its knowledge, it is in compliance with Executive Order 11246 and its regulations, rules and orders issued pursuant thereto, that it does not discriminate against any employee or prospective employee because of race, creed, color, national origin, sex, age or handicap, nor permit discrimination in any form nor maintain segregated facilities for its employees; that it actively pursues employment of minorities, females, handicapped, disabled veterans and veterans of the Vietnam era; and that it uses its best efforts to award contracts to and place purchase orders with minority business enterprises and with labor surplus area concerns and small business concerns.

NOTICE: THIS LANGUAGE FORMS YOUR CONTRACT WITH CHEM SERVICE, INC. (cont'd)

9. **BUYER'S USE OF PRODUCTS** - Seller's products are intended only for laboratory use and, unless otherwise indicated on Seller's invoice, other writings, or on product labels, are not to be used for other purposes, including but not limited to as, or a component in a food, drug, medical device (including in vitro diagnostic reagents) or cosmetics as defined in the Federal Food, Drug and Cosmetic Act, as amended, nor as a pesticide unless otherwise stated by Seller in writing furnished to Buyer. Buyer expressly represents and warrants to Seller that Buyer will properly test, use, manufacture and market any products purchased from Seller and any final articles made from them in accordance with the practices of a reasonable person who is an expert in the field and in strict compliance with all applicable federal and state food, drug, device and cosmetic and other relevant laws and regulations, now and hereinafter enacted. Buyer further warrants to Seller that any final articles manufactured from Seller's products shall not be adulterated or misbranded within the meaning of the Federal Food, Drug, and Cosmetic Act and shall not be articles which may not be introduced into interstate commerce. Buyer agrees to comply with instructions, if any, furnished by Seller relating to the use of the products and not misuse the products in any manner.

   Buyer acknowledges (1) that Seller's products are small quantities solely for purposes of scientific experimentation, or analysis, or chemical research and intended only for laboratory use by technically qualified individuals, (2) that the products will be used only for such purposes, and by such qualified individuals and, (3) that some of Seller's products may not be on the Inventory of Existing Chemical Substances defined pursuant to the Toxic Substances Control Act (TSCA). Seller assumes no responsibility to assure that products purchased hereunder may be used in a commercial application under the provisions of TSCA and regulations promulgated under TSCA. Seller will provide a Material Safety Data Sheet (MSDS) to Buyer which will inform persons using the product of the health risks which Seller has reason to believe may be associated with the product. Buyer agrees that it will inform its employees (1) that some of Seller's products may not be on the Inventory of Existing Chemical Substances defined pursuant to the Toxic Substances Control Act (TSCA)and that (2) a current MSDS is available to any and all employees or other personnel working, handling and/or in contact with or proximity to Seller's products for which an MSDS is required. Buyer agrees that it will comply with all provisions of 29 C.F.R. Part 1910. If the products purchased from Seller are to be repackaged, relabeled, or used as starting material or components of other products, Buyer will verify Seller's assay of the product and accept its obligations to conform to the requirements of TSCA.

   Buyer agrees that it has the responsibility to verify the hazards and to conduct any further research necessary to learn the hazards involved in using products purchased from Seller. Buyer also has the duty to warn Buyer's employees, customers and any auxiliary personnel (such as freight handlers, etc.) of any risks involved in using or handling the products.

10. **INDEMNIFICATION** - Buyer agrees to indemnify and hold Seller harmless from and against any and all losses, damages and expenses, (including attorney's fees and other costs of defending any action) that Seller may sustain or incur as a result of any claim for damages for personal injury, death, damage to property or other injury by reason of any claim of negligence, breach of express or implied warranty, strict liability in tort or other theory of law made by Buyer, its officers, agents or employees, it's successors and assigns, and its customers, whether direct or indirect, in connection with the use of Seller's products, or by reason of Buyer's failure to perform the obligations herein contained. This obligation of indemnification shall exist notwithstanding any ordinary negligence or fault by the Seller.

    In the event of any claim against Seller by an employee of Buyer or an employee of a subcontractor of Buyer or other person who might or would benefit from an immunity from making indemnity, contained in any state or federal workers' compensation law or similar law, the Buyer specifically waives the immunity and agrees to indemnify Seller and hold Seller harmless from any claim for any type of injury or damages.

    Buyer shall notify Seller within 15 days of Buyer's receipt of knowledge of any claim involving Seller's products resulting in personal injury, death, or damage to property and Buyer shall fully cooperate with Seller in the investigation and determination of the cause of such accident and shall make available to Seller all statements, reports and tests made by Buyer or made available to Buyer by others. The furnishing of such information to Seller and any investigation by Seller shall not constitute an assumption of any liability by Seller.

11. **PATENT DISCLAIMER** - Seller does not warrant that the use or sale of the products delivered hereunder will not infringe the claims of any United States or other patents covering the product itself or the use thereof in combination with other products or in the operation of any process.

12. **RETURNS AND DISPOSAL** - Goods may not be returned for credit except with Seller's written permission and then only in strict compliance with Seller's return shipment instructions. Buyer agrees that it will, at all times, handle and dispose of goods in accordance with Seller's instructions, the current Material Safety Data Sheet, and all applicable law and government regulations.

13. **TECHNICAL ASSISTANCE** - At Buyer's request, Seller may furnish technical assistance and information with respect to Seller's products. Unless otherwise agreed, all such technical assistance and information will be provided gratis, and Buyer assumes sole responsibility for results obtained in reliance thereon. SELLER MAKES NO WARRANTIES OF ANY KIND OR NATURE WITH RESPECT TO TECHNICAL ASSISTANCE OR INFORMATION PROVIDED BY IT. ANY SUGGESTIONS BY SELLER REGARDING USE, APPLICATION OR SUITABILITY OF THE PRODUCTS SHALL NOT BE CONSTRUED A WARRANTY UNLESS EXPRESSLY DESIGNATED AS SUCH, IN WRITING, SIGNED BY SELLER.

14. **RUSH ORDERS** (SAME DAY SHIPMENT) - Seller will accept rush orders for any in-stock items until 4pm EST, for next day delivery by Federal Express or UPS. This service is provided without additional charge to all customers, but Buyer will be responsible for any additional charge for shipping made by the carrier. Seller will use reasonable efforts to ship by next day service but Seller assumes no liability for failure to deliver a rush order the next day.

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Trilogy Analytical Laboratory, Inc. www.trilogylab.com

870 Vossbrink Dr. ■ Washington, MO 63090 ■ USA
Phone: 636-239-1521 ■ Fax: 636-239-1531 ■ Email: info@trilogylab.com

Product List – January 2013

Disclaimer: Please note that due to the way reference material is produced certain batches may no longer be available. In such cases a product of the same commodity and a similar contamination level will be provided.

Trilogy®

Mycotoxin Reference Materials

TRILOGY ANALYTICAL LABORATORY, INC. WWW.TRILOGYLAB.COM

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Product List – January 2013

Article Number	Batch Number	Toxin	Concentration	Expiration Date	Commodity
TR-A100	A-C-215	AFLATOXIN	ND	10/1/2015	CORN
TR-A100	A-C-267	AFLATOXIN	14.3 ppb	7/1/2015	CORN
TR-A100	A-C-270	AFLATOXIN	19.0 ppb	7/1/2015	CORN
TR-A100	A-C-271	AFLATOXIN	24.7 ppb	7/1/2015	CORN
TR-A100	A-C-272	AFLATOXIN	31.6 ppb	7/1/2015	CORN
TR-A100	A-C-274	AFLATOXIN	7.3 ppb	7/1/2015	CORN
TR-A100	A-C-275	AFLATOXIN	11.3 ppb	8/1/2015	CORN
TR-A100	A-C-276	AFLATOXIN	1.7 ppb	8/1/2015	CORN
TR-A100	A-C-277	AFLATOXIN	50.8 ppb	9/1/2015	CORN
TR-A100	A-C-279	AFLATOXIN	98.7 ppb	10/1/2015	CORN
TR-DA00	A-BR-2000	AFLATOXIN	ND	10/1/2015	Brown Rice
TR-A100	A-BR-2001	AFLATOXIN	4.0 ppb	10/1/2015	Brown Rice
TR-A100	A-BR-2002	AFLATOXIN	7.5 ppb	10/1/2015	Brown Rice
TR-A100	A-BR-2003	AFLATOXIN	15.1 ppb	10/1/2015	Brown Rice
TR-A100	A-GM-2021	AFLATOXIN	17.2 ppb	10/1/2017	GLUTEN MEAL
TR-A100	A-GF-2020	AFLATOXIN	17.9 ppb	10/1/2017	GLUTEN FEED
TR-D100	D-W-100	DON	ND	4/1/2015	WHEAT
TR-D100	D-W-156	DON	0.4 ppm	4/1/2015	WHEAT
TR-D100	D-W-158	DON	1.4 ppm	6/1/2015	WHEAT
TR-D100	D-W-159	DON	0.7 ppm	6/1/2015	WHEAT
TR-D100	D-W-162	DON	3.9 ppm	10/1/2015	WHEAT
TR-D100	D-W-163	DON	0.5 ppm	10/1/2015	WHEAT
TR-D100	D-W-164	DON	0.9 ppm	10/1/2015	WHEAT
TR-D100	D-W-166	DON	4.9 ppm	11/1/2015	WHEAT
TR-D100	D-W-167	DON	2.9 ppm	3/1/2016	WHEAT
TR-D100	D-W-168	DON	2.4 ppm	3/1/2016	WHEAT
TR-D100	D-W-169	DON	3.5 ppm	4/1/2016	WHEAT
TR-D100	D-W-174	DON	2.1 ppm	9/1/2017	WHEAT

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TR-D100	B-500	DON	ND	11/1/2015	BARLEY
TR-D100	D-B-507	DON	2.6 ppm	9/1/2015	BARLEY
TR-D100	D-B-509	DON	1.0 ppm	10/1/2015	BARLEY
TR-D100	D-B-510	DON	0.5 ppm	11/1/2015	BARLEY
TR-D100	D-B-513	DON	2.1 ppm	1/1/2016	BARLEY
TR-D100	D-MB-5850	DON	ND	12/1/2015	Malted Barley
TR-D100	D-MB-5851	DON	2.4	4/1/2017	Malted Barley
TR-D100	D-O-5900	DON	ND	12/1/2015	Oats
TR-D100	D-O-5901	DON	0.7	1/1/2017	Oats
TR-D100	D-C-600	DON	ND	7/1/2015	CORN
TR-D100	D-C-606	DON	1.1 ppm	2/1/2015	CORN
TR-D100	D-C-609	DON	4.8 ppm	4/1/2015	CORN
TR-D100	D-C-610	DON	1.9ppm	10/1/2015	CORN
TR-D100	D-C-612	DON	0.5 ppm	10/1/2015	CORN
TR-D100	D-C-614	DON	2.7 ppm	11/1/2015	CORN
TR-D100	D-C-617	DON	5.3ppm	3/1/2016	CORN
TR-D100	D-C-620	DON	3.6ppm	4/1/2016	CORN
TR-D100	D-F-160	DON	0.8 ppm	8/1/2015	FLOUR
TR-O100	O-W-800	OCHRATOXIN	ND	7/1/2014	WHEAT
TR-O100	O-W-805	OCHRATOXIN	3.1 ppb	5/1/2016	WHEAT
TR-O100	O-W-819	OCHRATOXIN	54.2 ppb	11/1/2016	WHEAT
TR-O100	O-W-821	OCHRATOXIN	93.7 ppb	6/1/2017	WHEAT
TR-O100	O-W-824	OCHRATOXIN	4.3 ppb	9/1/2016	WHEAT
TR-O100	O-W-825	OCHRATOXIN	7.0 ppb	8/1/2016	WHEAT
TR-O100	O-C-853	OCHRATOXIN	ND	4/1/2015	CORN
TR-Z100	Z-C-300	ZEARALENONE	ND	10/1/2016	CORN
TR-Z100	Z-C-319	ZEARALENONE	164.9 ppb	4/1/2016	CORN
TR-Z100	Z-C-320	ZEARALENONE	218.3 ppb	6/1/2017	CORN
TR-Z100	Z-C-321	ZEARALENONE	472.1 ppb	5/1/2016	CORN

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TR-Z100	Z-C-322	ZEARALENONE	266.7 ppb	5/1/2016	CORN
TR-Z100	Z-C-324	ZEARALENONE	1020.7 ppb	5/1/2016	CORN
TR-Z100	Z-C-326	ZEARALENONE	91.1 ppb	3/1/2017	CORN
TR-Z100	Z-C-327	ZEARALENONE	1462.5 ppb	3/1/2017	CORN
TR-Z100	Z-W-ND	ZEARALENONE	ND	10/1/2014	WHEAT
TR-Z100	Z-W-3304	ZEARALENONE	245 ppb	2/1/2017	WHEAT
TR-Z100	Z-W-3305	ZEARALENONE	410 ppb	9/1/2017	WHEAT
TR-F100	F-400	FUMONISIN	ND	4/1/2015	CORN
TR-F100	F-433	FUMONISIN	1.5 ppm	7/1/2015	CORN
TR-F100	F-435	FUMONISIN	3.2 ppm	7/1/2015	CORN
TR-F100	F-436	FUMONISIN	2.2 ppm	10/1/2015	CORN
TR-F100	F-438	FUMONISIN	3.6 ppm	8/1/2015	CORN
TR-F100	F-439	FUMONISIN	0.7 ppm	8/1/2015	CORN
TR-F100	F-440	FUMONISIN	1.0 ppm	9/1/2015	CORN
TR-F100	F-441	FUMONISIN	4.0 ppm	9/1/2015	CORN
TR-F100	F-C-443	FUMONISIN	4.7 ppm	5/1/2016	CORN
TR-MT100	MT-C-9990	AFLATOXIN	30.3 ppb	8/1/2016	CORN
		DON	1.9 ppm		
		FUMONISIN	1.5 ppm		
TR-MT100	MT-C-9991	AFLATOXIN	8.4 ppb	5/1/2016	CORN
		DON	1.3 ppm		
		FUMONISIN	5.5 ppm		
TR-MT100	MT-C-9992	AFLATOXIN	4.0 ppb	3/1/2016	CORN
		DON	3.5 ppm		
		FUMONISIN	4.1 ppm		
TR-MT100	MT-C-9993	AFLATOXIN	17.4 ppb	2/1/2016	CORN
		DON	2.9 ppm		
		FUMONISIN	1.9 ppm		

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TR-MT100	MT-C-9995	AFLATOXIN	ND	8/1/2013	CORN
		FUMONISIN	0.3 PPM		
		DON	ND		
		ZEARALENONE	ND		
		OCHRATOXIN A	ND		
TR-MT100	MT-C-9999E	AFLATOXIN	22.1 ppb	1/1/2016	CORN
		FUMONISIN	37.1 ppm		
		DON	2.6 ppm		
		ZEARALENONE	352.0 ppb		
		T-2	523.3 ppb		
		HT-2	263.7 ppb		
		OCHRATOXIN A	4.0 ppb		
TR-MT100	MT-C-ND-AZF	AFLATOXIN	ND	7/1/2015	CORN
		ZEARALENONE	ND		
		FUMONISIN	ND		
TR-MT100	T-C-970	T-2	324 ppb	5/1/2016	CORN
		HT-2	414 ppb		
TR-MT100	T-W-974	T-2	99.7 ppb	5/1/2017	WHEAT
		HT-2	304.6 ppb		
TR-MT100	T-W-975	T-2	ND	1/1/2014	WHEAT
		HT-2	ND		
TR-A100	A-SF-13	AFLATOXIN	18.7 ppb	7/1/2017	SWINE FEED
TR-A100	A-SF-14	AFLATOXIN	11.3 ppb	7/1/2017	SWINE FEED
TR-A100	A-PF-17	AFLATOXIN	12.4 ppb	7/1/2017	PET FOOD
TR-A100	A-PF-16	AFLATOXIN	46.2 ppb	7/1/2017	PET FOOD

All Trilogy Reference Materials are available in 100 gram resealable foil packs; 500 gram or 1 kg package sizes are available on request.

Certificates of Analysis can be found online at www.trilogylab.com.

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AccuStandard®

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Singles:

- Singles are listed by: POP category, Functional group and Application (highlighted in orange).
- Individual analytes used in EPA Methods are listed pages 124-134.
- Indices: Catalog Number, CAS Number and Organic Analytes are on pages 412-440.

Mixtures:

- Mixtures not associated with specific methods can be found in the single organic section with their chemical group.

Custom Services

- Custom Synthesis
- Custom Formulations
- Custom Packaging
- Bulk Quantity Requirements

see page v for details

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- Plastic Additives 58 New
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- Mixed Bromo/Chloro Hydroxylated Diphenyl Ethers
- Organophosphate Flame Retardants
- Fluorinated PBDEs (ISTD) More
- PBDE Congeners (205) More
- PBDE Metabolites (60) More
- PCB Metabolites More
- Chlorodiphenyl Ethers
- Brominated Benzo-p-Dioxins
- Nonylphenols More
- Instrument Specific ICP More



About the Cover

Alchemist in his Workshop

David Teniers II (Antwerp 1610-1690)

Courtesy of the Chemical Heritage Foundation Collections, and Roy Eddleman,

Oil on Canvas

Photograph by Will Brown

This painting is a depiction of an alchemist working at the bellows in his cluttered laboratory. In this work, the mixture of the magical aspects of alchemy (the hanging animal) mix with the more practical aspects of chemistry (the many distillation units near the hearth). Although alchemists were often looked upon as “crackpots” or charlatans, many of their experiments and theories led to modern chemistry.

Officers



Mike Bolgar
CEO



Amy Harvey
President



Susan Meronek
General Manager



Matt Bolgar
VP



Jack Hubball
Technical Director

Technical Service



Eric D.
Manager, New Product Development



Bob U.
Organic Technical Quotation Specialist



Sheila M.
Organic Technical Quotation Specialist



Johanna G.
Organic Technical Quotation Specialist



Lee M.
Organic Technical Quotation Specialist



Tom A.
Inorganic Product Manager



Danielle L.
Inorganic Technical Quotation Specialist

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Carol W.
Office Manager



Susan C.
Customer Service Rep.



Viola P.
Customer Service Rep. Accounts Receivable



Patty S.
Customer Service Rep.



Lisa Z.
Customer Service Rep.



Lisette P.
Customer Service Rep.



About Us

Founded in 1986, AccuStandard has grown from two to the current team of 65 people. The company started in a small business incubator co-sponsored by Yale University, The City of New Haven and the State of Connecticut at the former site of Olin Chemical Company in New Haven, Connecticut, USA. Outgrowing that facility, AccuStandard moved across town in 1998 into a fully modernized facility of 37,000 square feet of laboratories, office and storage space. AccuStandard is now one of the leading companies in the field of Chemical Reference Standards.

AccuStandard ships products to over 108 countries and maintains a distributor network in 65 of those countries. Since its beginning, the product line has grown to include over 11,000 Reference Standard products and twice that number of special formulations which have been developed for specific customer needs. Standards include those for analysis of the most important EPA Methods, Pesticide Residue Screening, Flame Retardants, Biofuels, Plastic Additives, Dyes, Explosives, UOP and ASTM Methods and up-graded products for PIANO and Physical Property analyses.

The company is renowned for its recognition and speedy introduction of Standards to the market place. The company's unparalleled Synthesis Department gives us the opportunity to synthesize important and unique products and product lines. Featured, also in its history of firsts, are all of the 209 congeners of polychlorinated biphenyls (PCBs), 205 out of the 209 congeners of Polybrominated diphenyl ethers (PBDEs) as well as many halogenated dioxins and dibenzofurans, PAHs and pesticides.

Among the more recent introductions are the hydroxy and methoxy PBDE congeners as well as mixed bromo/chloro hydroxy and methoxy diphenyl ethers, fluorinated PBDE congeners (used as internal standards), organophosphate flame retardants, biofuels, plastic additives (AccuStandard authored a CRC Press Handbook), EPA Method 535 pesticide derivatives and previously unavailable explosives.

AccuStandard's quality system is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001.

AccuStandard owes its success in large part to the excellence, loyalty and dedication of its staff. We look forward to serving our customers for many years to come.

AccuStandard, At Your Service



Synthesis



Organic and Inorganic Production



Assembly / Shipping



Organic and Inorganic Quality Control

AccuStandard's Quality Resources

- On-Going Stability Program for understanding of chemical interactions
- Complete range of instrumentation: Programable pulse inert inlet high resolution GC/MS, GC/MS, GC/ECD, GC/FID, GC/NPD, LC/MS/MS, HPLC, XOS Sulfur analyzer, Antek 9000 sulfur analyzer, Physical Standards instruments for Flash Point, Distillation, Cloud Point, Freeze Point, Aniline Point, Pour Point, Vapor Pressure. Plus ICP, ICP/MS, Karl Fischer, IC with ion suppression conductivity detector, ion selective electrodes, auto polarimeter and others.
- Monthly internal meetings for formal failure analysis of any non-conformances.
- ISO Guide 34, ISO/IEC 17025 and ISO 9001









Agilent 1100/120 Series LC/MS/MS System



Custom Services

Custom Synthesis

The AccuStandard Synthesis Department employs several PhD. Organic Chemists with many years of pertinent academic and industrial experience. The experienced staff has developed hundreds of pure chemical compounds for companies and governmental agencies around the world. The very well-equipped synthetic laboratory, with significant analytical support has made many notable synthesis projects possible. We specialize in synthesizing chemicals of high purity to be used as reference standards, and also offer custom synthesis capability on milligram to kilogram scales.



Analytical Capabilities

- GC-MS, GC-FID, GC-ECD, GC-NPD
- HPLC, LC-MS
- ICP, ICP-MS
- access to more anlytical instrumentation if necessary

Synthesis and Purification

- Milligram to Kilogram Glassware
- Inert Conditions Equipment
- High Performance Flash Chromatography
- Distillation Equipment - High Vacuum, Molecular (Kugelrohr), and Spinning Band Columns Preparative TLC
- Parr Pressure and Hydrogenation Reactor

Custom Synthesized Products

- PCBs (all 209 congeners), & hydroxy, methoxy, and methylsulfonyl metabolites
- Halo-Dibenzodioxins and Furans
- PBDEs (205 out of 209 congeners) & hydroxy, methoxy, and chloro metabolites
- Fluorinated PBDEs
- Other Brominated Flame Retardants
- PBBs
- PAHs, Nitro-PAHs, Methyl-PAHs
- Pesticides and metabolites
- Explosives and metabolites
- Nonyl- and Octylphenol Ethoxylates
- Mono- and Diester Phthalates
- Organophosphates
- Other Rare Chemicals

AccuStandard is renowned for its quick response to the needs for new compounds. The company's especially strong Synthesis Department allows the synthesis of important and unique products. Featured in its history of firsts, are all of the 209 congeners of polychlorinated biphenyls (PCBs), 205 out of the 209 congeners of polybrominated diphenyl ethers (PBDEs) as well as many halogenated dioxins and dibenzofurans, PAHs, pesticides and fluorinated surrogates substituting the expensive isotopically labelled compounds.

Among the more recent introductions are the hydroxy and methoxy PBDE congeners, mixed bromo/chloro hydroxy and methoxy diphenyl ethers, organophosphate flame retardants, biofuels, plastic additives (AccuStandard authored the Handbook for the Chemical Analysis of Plastic and Polymer Additives published by CRC Press), EPA Method 535 pesticide derivatives and previously unavailable explosive standards.

Custom Formulations

With over 30,000+ custom and 10,000+ listed standards, there is a good chance that AccuStandard will have a standard to meet your needs. However, if your laboratory requires something specific, our Chemists will manufacture a Custom Standard to meet your unique requirements. Custom Standards are an economical and time saving way to have a Standard prepared for your individual needs.



Custom QC options

1. Gravimetric/Volumetric Certification: Each purity is measured gravimetrically and QC verified instrumentally (where available). Every component in the Standard is guaranteed to be within +/- 0.5% of the requested value unless otherwise stated on the Certificate of Analysis. The solutions are diluted to volume using Class A glassware. A Certificate of Analysis accompanies each Standard and documents the gravimetric values used.
2. Full Quantitative Certification: This QA/QC method includes extended GC analysis using both internal calibration standards plus statistical analysis. A data package containing analytical and gravimetric data can be provided if requested during the quotation phase (Organic Customs only).

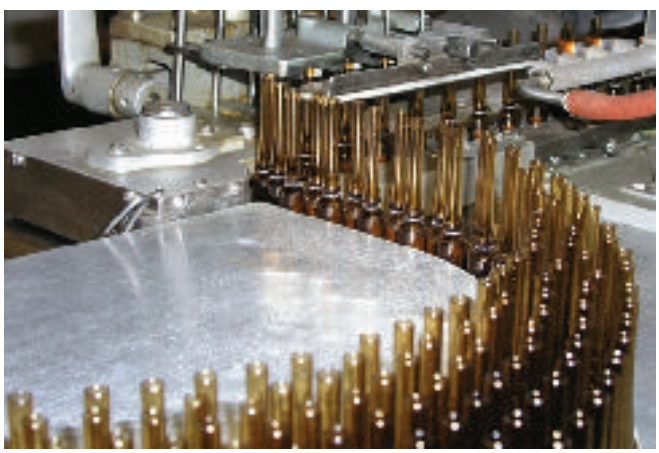
Custom Packaging and Bulk Quantity Requirements

AccuStandard has the resources and equipment to meet your custom packaging requirements.

- Automated ampule filling & sealing 0.2 mL up to 20 mL and ampule sizes from 1 mL to 20 mL
- Quantities from 500 to over 500,000 ampules
- Homogeneity testing
- Amber ampules for added product stability
- Private labeling and packaging (OEM)

We can reduce your costs using the Cozzoli Auto Filling/Sealing Machine to package just the right size product for your application. OEM Standards - Privately labeled standards manufactured and tested to your specifications. Cold and under Nitrogen sealing available.





Quality System

ISO Guide 34 • ISO/IEC 17025 • ISO 9001

How AccuStandard Ensures the Best Quality in the Industry

Approved Vendors
AccuStandard has an established network of qualified vendors that supply raw materials that we do not synthesize.

Synthesis
AccuStandard can custom synthesize materials not available from other commercial sources. Synthesis is treated as an approved vendor.

Incoming Inspection
All materials are inspected for appearance, integrity & documentation upon receipt.

Quality Control
1. QC certifies the incoming material prior to release to Production.
2. QC validates the product that Production makes.
3. QC performs on-going stability checks of existing inventory to ensure product integrity.
4. Provides support to customers experiencing difficulties.

Inventory
Products in Inventory are properly controlled to ensure long term stability.

Production
All batches are quantitatively prepared and documented to ensure traceability of all analytes.

Shipping
Packaging Requirements Proper Shipping Regulations

Customer

Customer Service
Provides service for all non-technical questions a customer may have.

Technical Service
Provides technical support and custom quotations for our customers.



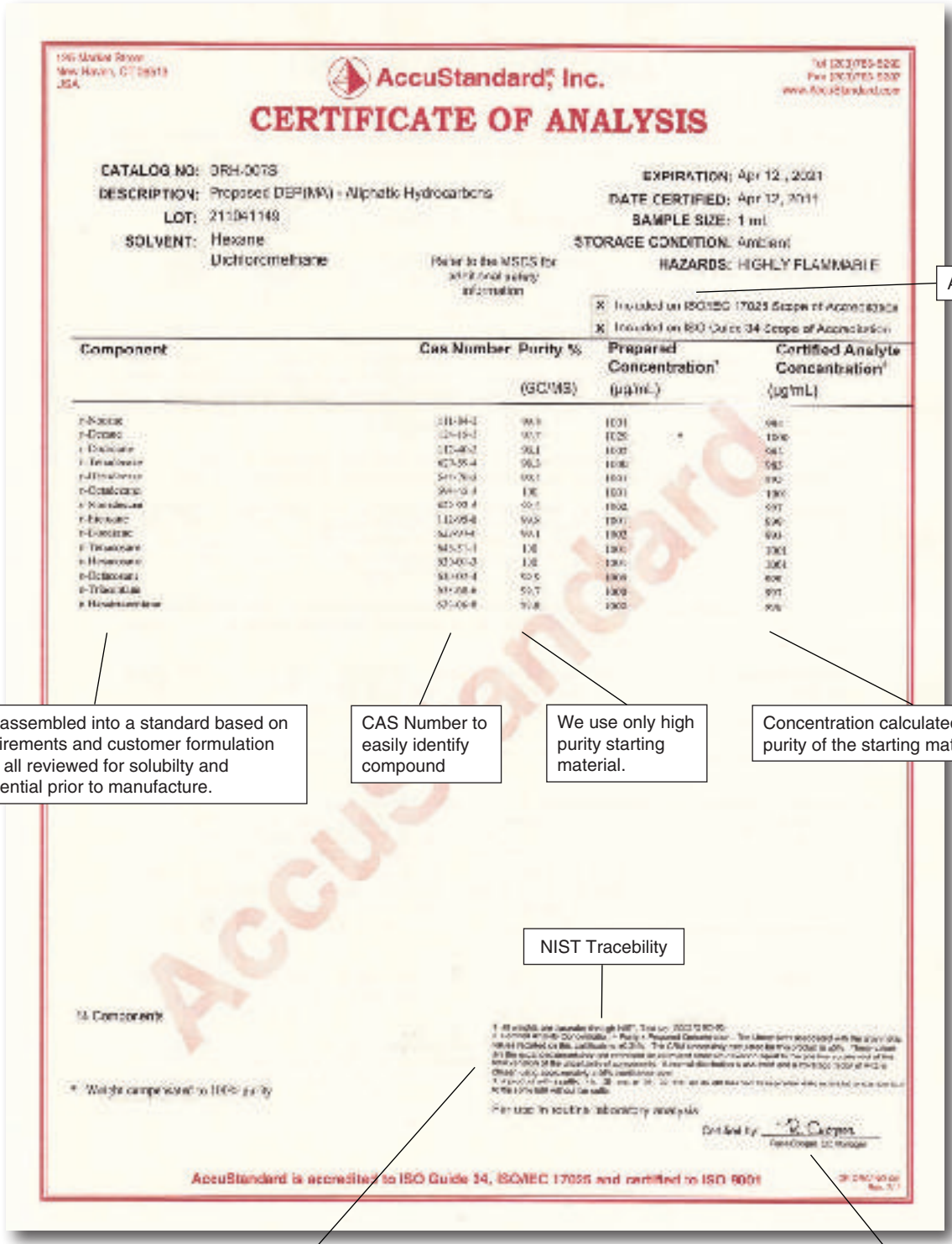




Visit our website at for a copy of the latest Certificates.

Certificate of Analysis

Sample: multi-component organic COA



AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

CATALOG NO: DRH-007S
DESCRIPTION: Proposed DEP(MA) - Aliphatic Hydrocarbons
LOT: 211041149
SOLVENT: Hexane
Dichloromethane

EXPIRATION: Apr 12 , 2021
DATE CERTIFIED: Apr 12, 2011
SAMPLE SIZE: 1 ml
STORAGE CONDITION: Ambient
HAZARDS: HIGHLY FLAMMABLE

Refer to the MSDS for additional safety information

X Included on ISO/IEC 17025 Scope of Accreditation
X Included on ISO Guide 34 Scope of Accreditation

Component	Cas Number	Purity % (GC/MS)	Prepared Concentration* (µg/mL)	Certified Analyte Concentration* (µg/mL)
n-Nonane				
n-Decane				
n-Dodecane				
n-Tetradecane				
n-Hexadecane				
n-Octadecane				
n-Nonadecane				
n-Eicosane				
n-Docosane				
n-Tetracosane				
n-Hexacosane				
n-Octacosane				
n-Triacontane				
n-Hexatriacontane				

* Components

* Weight compensated to 100% purity

Certified by _____

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Accreditation

Compounds assembled into a standard based on method requirements and customer formulation request - but all reviewed for solubilty and coelution potential prior to manufacture.

CAS Number to easily identify compound

We use only high purity starting material.

Concentration calculated by using the purity of the starting material

NIST Traceability

QC management approval

Uncertainty Values

The uncertainty values as stated on our Certificate of Analysis have been determined using the EURACHEM/CITAC Guide (Quantifying Uncertainty in Analytical Measurement). We have evaluated both Type A (based on a series of observations) and Type B (manufacturers specifications and calibration data) factors and report a combined expanded uncertainty.

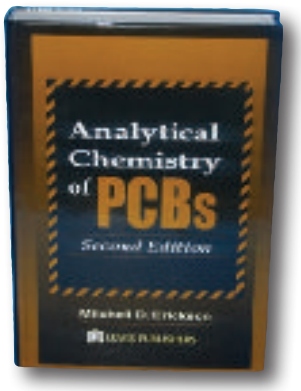
Although uncertainty relates to the general concept of doubt, uncertainty of measurement does not imply doubt about the validity of a measurement, but rather increased confidence in the validity of a measurement result. Uncertainty takes the form of a range and cannot be used to correct a measurement result. The uncertainty of the result should never be interpreted as representing the error itself, or the error remaining after correction.



Our own PCB Book
Physical, Spectral and Chromatographic Properties of all 209 Congeners.
BOOK-PCB-002 $ 25

Physical, Spectra, and Chromatographic Properties of all 209 Individual PCB Congeners

AccuStandard's FT/IR, Mass Spectral data, melting point and chromatographic information along with chromatographic data from George Frame's study is available in this book.



PCB Book
Analytical Chemistry of PCBs
BOOK-PCB-001 $ 225

Analytical Chemistry of PCBs

Second Edition of Dr. Erickson's Analytical Chemistry of PCBs appears a decade after the first and is completely revised and updated. The changes from the First Edition reflect the significant growth in the area and a growing appreciation of the importance of PCB analysis to our culture. This book is a comprehensive review of the analytical chemistry of PCBs. It is part history, part annotated bibliography, part comparison, and part guidance. Featuring a new chapter on analyst/customer interactions and several new appendices, the Second Edition is an invaluable resource for both chemists with no experience in PCB analysis and seasoned PCB researchers.



TPH Book
Total Petroleum Hydrocarbon Pattern Recognition Standards
BOOK-TPH-001 $ 30

Total Petroleum Hydrocarbon Pattern Recognition Standards

This book contains chromatography for the various petroleum products typically found during LUFT/LUST site investigations. The chromatography shows each fuel pattern in a 25 minute analytical run for early eluting petroleum products like gasoline to late eluting products like motor oil. In addition, an n-alkane standard analyzed under identical conditions has been overlaid on each petroleum product chromatogram. Use of the book will assist the chemist's identification of the fuel for pattern recognition.

The n-alkane standard overlay provides n-alkane reference points between the standard and the unknown sample. These beginning and ending n-alkane reference points can be used to establish gross hydrocarbon concentrations. By comparing the specific n-alkane range of the closest identified petroleum standard to that of the unknown sample a reproducible gross hydrocarbon number can be achieved.



Plastics Book
For the Chemical Analysis of Plastic and Polymer Additives
BOOK-PLAS-001 $ 250

Second Edition Coming soon!

Handbook for the Chemical Analysis of Plastic and Polymer Additives

This book, published by CRC Press, contains a host of analytical reference data for each of the many common plastics and polymer additives. Each of the compounds is also offered by AccuStandard as a certified reference material, most in both neat and solution form, making comparison of the analytical results easier.

Each compound has:(where applicable)

- Chemical Information
- Structure
- CAS Number
- RTECS Number
- Formula
- Molecular Weight
- IUPAC Name, other common names and popular brand names
- Physical Properties
- Appearance
- Melting and Boiling Points
- Stability
- Solubilities in several common solvents
- Application
- Regulatory
- Environmental Impact
- Point of Release
- Toxicological Data
- Analytical Data
- Mass Spectrum with key Ions tabulated
- Chromatogram with conditions
- Other Important Information

Additional reference information, such as the full text of select EPA Methods and EU Directives, can be found on our Website.

Quality Control Standards

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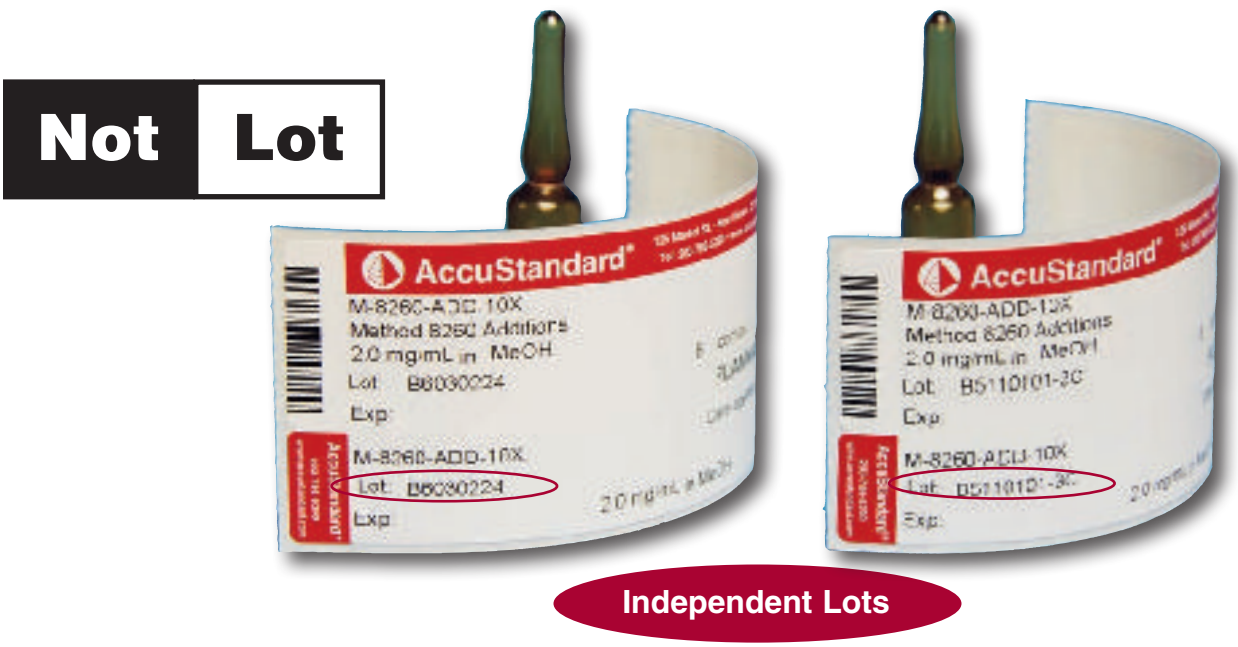
NotLot™ & Capillary Column Probe Solutions

AccuStandard has developed the NotLot Program for customers to meet regulatory, auditor and laboratory requirements for the use of independent lots without having to place two different orders with two different companies. NotLots are the simplest way to verify the accuracy of your analysis without the added paperwork required when using lots from two different manufacturers.

NotLots contain the same formulation of materials as the first lot, and are made independently.

This program is available on selected catalog items. Ask your Customer Service Representative for the catalog number and a NotLot.

NotLots will be provided at the regular list price for the more common products, and for the same price but with a minimum quantity order of 5 for the less common and Custom (S-) products. NotLots may not be available for resale items, kits, PAKs, or Inorganic Standards.



Capillary Column Probe Solutions (also Grob Mixes)

AccuStandard has assembled the following test mixtures based on suggestions by Grob 1 and 2 for evaluating capillary column performance. The alkanes in these mixtures can be used for evaluating instrumental effects and determining separation number and efficiency (PS-CP-02-1ML, PS-CP-03-1ML, PS-CP-04-1ML, PS-CP-05A-1ML, PS-CP-06A-1ML). Grob 2 has suggested a more complete mixture, the Non-Polar Columns Test Mix PS-CP-01-1ML provides a more complete capillary column test because a wider variety of organic compounds are included.

References
1. K.Grob and G. Grob, Chromatographia, 4, 422 (1971)
2. K. Grob, Jr., G. Grob, and K. Grob, J. Chromatogr., 156. 1 (1978)

Alkane C_8-C_{12} Mixture
PS-CP-02-1ML **$ 110 / 1 mL**
0.5 mg/mL each in n-Hexane
5 comps.

Octane	Undecane
Nonane	Dodecane
Decane	

Alkane C_{13}-C_{20} Mixture
PS-CP-03-1ML **$ 115 / 1 mL**
0.5 mg/mL each in n-Hexane
8 comps.

Tridecane	Heptadecane
Tetradecane	Octadecane
Pentadecane	Nonadecane
Hexadecane	Eicosane

Alkane C_8-C_{40}Mixture
PS-CP-06A-1ML **$ 130 / 1 mL**
0.5 mg/mL each in n-Hexane
23 comps.

Octane	Eicosane
Nonane	Docosane
Decane	Tetracosane
Undecane	Hexacosane
Dodecane	Octacosane
Tridecane	Triacontane
Tetradecane	Dotriacontane
Pentadecane	Tetratriacontane
Hexadecane	Hexatriacontane
Heptadecane	Octatriacontane
Octadecane	Tetracontane
Nonadecane	

Alkane C_{22}-C_{32} Even Number Mixture
PS-CP-04-1ML **$ 110 / 1 mL**
0.5 mg/mL each in n-Hexane
6 comps.

Docosane	Octacosane
Tetracosane	Triacontane
Hexacosane	Dotriacontane

Alkane C_{34}-C_{44} Even Number Mixture
PS-CP-05A-1ML **$ 120 / 1 mL**
0.5 mg/mL each in n-Hexane
4 comps.

Tetratriacontane	Octatriacontane
Hexatriacontane	Tetracontane

Non-Polar Columns Test Mix
PS-CP-01-1ML **$ 95 / 1 mL**
At the stated conc. in CH_2Cl_2
12 comps.

Methyl decanoate	0.42 mg/mL
Methyl undecanoate	0.42 mg/mL
Methyl dodecanoate	0.41 mg/mL
2,3-Butanediol	0.53 mg/mL
Dicyclohexylamine	0.31 mg/mL
2,6-Dimethylaniline	0.32 mg/mL
2,6-Dimethylphenol	0.32 mg/mL
2-Ethylhexanoic acid	0.38 mg/mL
Nonanal	0.40 mg/mL
Octanol	0.36 mg/mL
Undecane	0.29 mg/mL
Decane	0.28 mg/mL

Contains interactive and labile components.
Refrigerate when not in use.

Alternate Source Line
Cross-Reference

Improve Analytical Results, while Saving Time and Money

AccuStandard enhances your laboratory's analytical results while streamlining your purchasing efforts through the Alternate Source Line (ASL) of Analytical Standards. Use ASL's for Independent lots to other Standard suppliers' formulations.

- Truly independent lots
- Identical formulations to allow easy analysis without modifying analytical programs
- Economical packaging versus custom products

Request a competitor's formulation and our chemists will manufacture a high quality ASL at a competitive cost. All ASL formulations were originally designed to meet an individual laboratory's need, but once incorporated into the ASL line, benefit the global analytical community.

For additional Cross-Referencing, visit our Website

AccuStandard has compiled the following cross-reference table for the most requested CLP, and EPA 500, 600, 8000 series analytical Standard formulations currently offered in the marketplace.

SUPELCO	ACCUSTANDARD
36588	P-085S-A-10X
36656	M-8150S-A-10
40003	M-8031
40156	M-508-IS
40179	CLP-FC
43286	M-8015A-10X
45843	M-8150S-A-06
45873	M-8150S-A-09
46965	M-601C-10X
47077	CLP-004
47283	M-8330A-R
47284	M-8330B-R2
47399	M-502C-10
47645	M-552.1-SS
47896	M-8150S-A-01
47897	M-8150S-A-04
47904	M-501-0.5X-5ML
47905	GAD-001
47913	M-8080-QC-R
47914	Z-014C
47933	M-502A-R
47937	M-551.1-IS-10X
47951	M-8040-SS
47969	M-001A
47973	M-525-4-5X
47975	CLP-025-10X
47976	CLP-028-10X
47979	M-8150-01
47981	M-8150-02
47982	M-8150-06
47984	M-8150-08
47986	M-8150-10
47988	M-8150-03
47993	CLP-BTEX-10X
48026	CLP-BTEX
48045	M-551A
48063	M-507-SS
48064	M-507-IS
48081	M-525-SS
48082	CLP-033
48082	M-525-TS
48083	M-624-SS-03
48099	M-525-FS-1
48101	CLP-PS-4X
48129	CLP-PES-A-10X
48139	TCLP-PES-1
48141	TCLP-HERB-ME
48142	TCLP-A-0.5X
48143	TCLP-VOC
48166	DRH-001S-10X
48238	M-8040B-R
48242	M-525.2-IS
48243	M-525-5
48243	M-CL-2
48246	M-525-2-5X
48249	M-525-1
48249	M-525-1-5X
48282	M-1618D
48355	APP-9-208-10X
48378	M-8150S-A-08
48389	M-602-SS
48389	M-602-SS-10X
48399	CLP-003-R
48449	CLP-026-R2-10X
48464	CLP-011A
48466	M-524-SS
48483	M-8020-QC
48599	D-404S
48599	M-613
48672	M-601C
48704	C-260S-M-28.5X
48718	M-625-17
48740	M-602
48741	M-606
48743	M-610
48743	M-610A
48743	M-610-QC-10X
48746	M-501
48775	M-502C-06
48777	M-502C-05
48779	M-502C-04
48786	M-502C-03
48788	M-625-01
48789	M-625-03
48791	M-625-06
48792	M-551.1-SS-100X
48792	M-625-04
48792	M-8310-SS-10X
48797	M-502C-02
48801	M-625-19
48802	M-502C-07
48803	M-502C-08
48832	M-625-BN-2
48833	M-625-BN-3
48834	M-625-BN-4
48835	CLP-PI
48853	M-001C
48859	M-001P
48859	M-604
48859	M-625A
48861	M-001K
48862	M-001L
48863	M-001N
48863	M-625-02
48864	M-001 R-0.1X
48864	M-001R
48866	M-625-BN-1
48866	Z-014H
48875	CLP-AS
48876	CLP-PS-10X
48878	CLP-007B
48902	Z-014J
48902	Z-014J-0.5X
48906	M-605
48906	Z-014F
48907	Z-014D
48908	Z-014E
48913	M-8080
48913	Z-014C-R2
48925	CLP-BNS
48935	CLP-030
48939	CLP-029
48943	M-624-SS-09
48945	M-624-SS-10
48949	CLP-022K-10X
48958	M-8260-IS
48958	M-8260-IS-10X
48959	M-8260-SS
48959	M-8260-SS-10X
49156	M-550-QC
502049	M-625-BN
502111	M-502A-R-10X
502316	P-242S-10X
507989	M-508-QC
861271	M-8150B-SS
861271	P-244S
44690-U	M-547-10X
46856-U	M-531M
46862-U	CLP-023R-160X
46863-U	CLP-024R-160X
46960-U	M-508P-A
47358-U	M-524-FS
47426-U	M-8081-SC
47507-U	M-601/602
47568-U	CLP-LC-IS-100X
47578-U	GRH-003S
47616-U	P-093S-H-10X
47644-U	M-8151-IS
47668-U	M-552.1-SS-ME
47669-U	M-552.1-IS
47915-U	M-608-ASL
47930-U	Z-014G
47960-U	M-8270-SS
47970-U	M-001B
47980-U	M-8150-05
47985-U	M-8150-09
47987-U	M-8150-04
48057-U	CLP-022G
48057-U	CLP-022G-10X
48100-U	CLP-007A
48120-U	Z-014B
48140-U	M-501-10X
48225-U	M-504-10X
48226-U	M-8020-10X
48228-U	M-611-10X
48235-U	M-8040A-R
48240-U	M-607
48240-U	M-8070
48710-U	M-625-14
48714-U	M-625-15
48715-U	M-625-12
48716-U	M-625-18
48717-U	M-625-13
48719-U	M-625-16
48720-U	M-625-10
48721-U	M-625-11
48722-U	M-625-09
48790-U	M-508-SS
48790-U	M-625-05
48799-U	M-502B-10X
48858-U	M-608-QC
48900-U	Z-014A
48905-U	Z-014G-R
48940-U	M-624-SS-01
48950-U	M-502-IS
48952-U	M-524-SS-2-10X

Continued on next page

Alternate Source Line
Cross-Reference

ULTRA	ACCUSTANDARD
ALD-100-1	M-8315
ALD-554-1	M-554
ALD-554D-1	M-554-DNPH
AMM-602N-1	M-602
AMM-622-1	M-602-GAS
AMM-812-1	M-8020-10X
AMN-613-1	M-603
AMN-803-1	M-603-10X
AMN-813-1	M-8031
AMN-823-1	M-8032
AMN-823A-1	M-8032B
ASTM-100-1	ASTM-D3710
ASTM-110-1	DRH-002S
ASTM-130-1	ASTM-E1387
ATS-111 -1	M-548.1-IS
ATS-161-1	M-525-FS-2
BECM-621 -1	M-611
BECM-811 -1	M-611-10X
BKM-605-1	M-605
BTX-110-1	CLP-BTEX
BTX-2000N	CLP-BTEX-10X
CHM-622-1	M-612
CHM-842-1	M-8121
CHM-852-1	M-8120-QC
CLP-110-1	CLP-020-10X
CLP-120-1	CLP-021
CLP-120-1	CLP-021-10X
CLP-153	CLP-022G
CLP-206-1	CLP-026-R2-10X
CLP-231-1	CLP-017
CLP-245-1	CLP-FC
CLP-310-1	CLP-011A
CLP-320-1	CLP-010
CLP-330-1	CLP-009-10X
CLP-340-1	CLP-027
CLP-341-1	M-1618-GP
CLP-342-1	CLP-027-R2
CLP-40N-1	CLP-007B
CLP-411-1	CLP-011B
DWM-5031 -1	M-503
DWM-504N	M-504-PAK
DWM-504N-1	M-504
DWM-514	M-504.1-CSS-PAK
DWM-514-1	M-504.1-CSS
DWM-544	M-502B-10X-PAK
DWM-544	M-502C-01-PAK
DWM-544-1	M-502B-10X
DWM-544-1	M-502C-01
DWM-544-1	M-601B-10X
DWM-580-1	M-502
DWM-583	M-503-PAK
DWM-583-1	M-502A-R
DWM-583-1	M-502-REG
DWM-584	M-502B-PAK
DWM-584-1	M-502B
DWM-584-1	M-601B
DWM-588-1	M-502-10X
DWM-589N-1	M-502A-R-10X
DWM-590-1	M-502C-07
DWM-591-1	M-502C-08
DWM-592-1	M-524R-B
DWM-593A	M-502C-10
EPA-100-1	S-532
EPA-2004N-1	M-CL-2
EPA-2010N-1	M-GBN-1
EPA-2011N-1	M-GBN-2
EPA-2012N	M-GPE-1
EPA-2013N-1	M-GPE-2
EPA-2015N-1	M-HER
EPA-2038N-1	M-PNA-1
EPA-2039N-1	M-PNA-2
EPA-2041N-1	M-VOA-1
EPA-2042N-1	M-VOA-2
EPA-2043N-1	M-VOB
EPA-2044N-1	M-VOC-1

ULTRA	ACCUSTANDARD
EPA-2045N-1	M-VOC-2
FLM-001-1	FL-0102
FLM-002-1	FL-OADD
FLM-003-1	FL-0003
FLM-004-1	FL-0004-CR
FLM-005-1	FL-0005-NB
GCM-150-1	M-625-TS-20X
HBM-5152A	M-515.2A-1-PAK
HBM-5152A-1	M-515.2A-1
HBM-5152M	M-515.2-1-PAK
HBM-5152M-1	M-515.2-1
HBM-5153A	M-515.2A-2-PAK
HBM-5153A-1	M-515.2A-2
HBM-5153M	M-515.2-2-PAK
HBM-5153M-1	M-515.2-2
HBM-5155A	M-515A-R2-PAK
HBM-5155A-1	M-515A-R2
HBM-515M	M-515-R-PAK
HBM-555A-1	M-555A
HBM-555B-1	M-555B
HBM-8151A-1	M-8151A
HBM-8151M-1	M-8151
HBM-8152M-1	M-8150M
HC-070	M-601C
HCM-551A-1	M-551A
HCM-551B-1	M-551B
HCM-601-1	M-601-ASL
HCM-601G-1	M-001C
HCM-620-1	GAD-001
HCM-621-1	M-601/602
HCM-812-1	M-504-10X
ISM-280N-1	CLP-BNS
ISM-285-1	CLP-030
ISM-290N-1	CLP-AS
ISM-295-1	CLP-029
ISM-301-1	CLP-034
ISM-310-1	M-525-FS-1
ISM-331-1	M-8270-SS
ISM-335-1	CLP-031-R
ISM-380-1	M-8040-SS
ISM-390-1	M-8061-SS-10X
ISM-411-1	M-8121-SS
ISM-430-1	M-8410-IS
ISM-450-1	M-1618D
ISM-510-1	M-525.2-IS/SS
ISM-520-1	M-525.2-IS
ISM-560-1	Z-014J
ISM-560-1	Z-014J-0.5X
ISM-580-1	DRH-MA-SS-100X
IST-151-1	M-8310-SS-10X
IST-340-1	CLP-033
IST-341-1	M-525-TS
IST-370-1	M-525-SS
IST-400-1	M-8061-IS
IST-420-1	M-8121-IS
MISA-180-1	MISA-VWS
MISA-201-1	MISA-A
MISA-220-1	MISA-PEST
MISA-231-1	MISA-NC
NAIM-609-1	M-609-R
NAIM-833E-1	M-8330-R
NPM-101	M-507A-PAK
NPM-101-1	M-507A
NPM-102	M-507B-PAK
NPM-102-1	M-507B
NPM-103	M-507C-PAK
NPM-103-1	M-507C
NPM-104A	M-507D-PAK
NPM-104A-1	M-507D
NPM-105	M-507E-PAK
NPM-105-1	M-507E
NPM-106	M-507G-PAK
NPM-106-1	M-507G
NPM-107-1	M-507-QC
NPM-107A-1	M-507F

ULTRA	ACCUSTANDARD
NPM-107A-1	P-085S-A-10X
NPM-108	M-507H-PAK
NPM-108-1	M-507H
NPM-109	M-507F-R2-PAK
NPM-109-1	M-507F-R2
NPM-507	M-507-QC-PAK
NPM-619-1	M-619M
NPM-634-1	M-634
NSM-617-1	M-607
NSM-807-1	M-8070
NVM-8115-1	M-8015A
PBM-515M-1	M-515-R
PHM-5522A-1	M-552.2A
PHM-5522M-1	M-552.2
PHM-552A	M-552A-R
PHM-552M	M-552A
PHM-604-1	M-625A
PHM-624-1	M-604
PHM-814-1	M-8040A-R
PHM-824-1	M-8040B-R
PM-006-1	AE-00031
PM-007-1	AE-00032
PM-525A-1	M-525-1
PM-525B-1	M-525-1-5X
PM-611 -1	M-610
PM-613A- 1	M-8100-QC
PM-613A-1	M-610-QC
PM-811-1	M-81 00-R
PPM-505D-1	M-505-ASL
PPM-505E	M-505R-2-PAK
PPM-505E-1	M-505R-2
PPM-508	M-508-QC-PAK
PPM-508-1	M-508-QC
PPM-508B	M-508P-A-PAK
PPM-508B-1	M-508P-A
PPM-508D-1	M-508P-B-R
PPM-508E-1	M-508.1-ASL
PPM-515M	M-515-QC-PAK
PPM-515M	M-515-QC-R-PAK
PPM-515M-1	M-515-QC-R
PPM-525C-1	M-525-3
PPM-525D-1	M-525-3-5X
PPM-525E-1	M-525.2-CP-ASL
PPM-530-1	M-531M
PPM-530B-1	M-531-REG-ASL
PPM-549-1	M-549.1
PPM-608B-1	M-608-ASL
PPM-608C-1	M-608-QC
PPM-608C-1	M-8080-QC-R
PPM-608D-1	M-001H
PPM-625B-1	M-625P
PPM-808B-1	Z-014C-R2
PPM-808C-1	M-8081-SC
PPM-808D-1	M-8081-DC
PPM-831-1	M-8318M
PPS-100-1	M-507-SS
PPS-110	M-507-IS-PAK
PPS-110-1	M-507-IS
PPS-120	M-508-SS-PAK
PPS-120-1	M-508-SS
PPS-130	M-508-IS-PAK
PPS-130-1	M-508-IS
PPS-140	M-508A-1-PAK
PPS-140-1	M-508A-1
PPS-141-1	C-260S-M-28.5X
PPS-150	M-508A-2-PAK
PPS-150-1	M-508A-2
PPS-160-1	P-244S
PPS-161	M-515-SS-PAK
PPS-161-1	M-515-SS
PPS-163-1	M-515-SS-50X
PPS-165-1	M-8150B-SS
PPS-170-1	M-515-IS
PPS-171-1	M-8151-IS
PPS-172-1	M-515-IS-M-5X

ULTRA	ACCUSTANDARD
PPS-190-1	M-547
PPS-200-1	M-548A
PPS-210-1	M-548B
PPS-220-1	M-548-IS
PPS-230-1	M-548-CAL
PPS-240-1	M-525-5
PPS-250-1	APP-9-208-10X
PPS-251-1	M-552.1-IS
PPS-261-1	P-242S-10X
PPS-262-1	P-247S-10X
PPS-270-1	M-550-IS
PPS-280-1	M-548.1-ME
PPS-300-1	M-552.1-SS
PPS-301 -1	M-552.1-SS-ME
PPS-350-1	M-8141A-IS
PPS-360-1	M-8141A-SS-X
PSM-506	M-506-PAK
PSM-506-1	M-506
PSM-516	M-506-QC-PAK
PSM-516-1	M-506-QC
PSM-525-1	M-525-4
PSM-525A-1	M-525-4-5X
PSM-616-1	M-606
PSM-806-1	M-8060
PSM-816-1	M-8060-QC
RGO-100-1	M-418-CON
RGO-101X	M-1664-20ML-PAK
RPCM-525-1	M-525-2
RPCM-525-A-1	M-525-2-5X
RPE-015	D-101N
RPE-015S	D-101S
RPE-016	D-102N
RPE-016S	D-102S
RPE-017A	D-801N
RPE-017S	D-801S
RPE-023	D-100N
RPE-023S	D-100S
RPE-025	D-203N
RPE-025S	D-203S
RPE-026	D-302N
RPE-026S	D-302S
RPE-027	D-401N
RPE-027S	D-401S
RPE-029S	D-404S
RPE-029S	M-613
RPE-051	D-202N
RPE-051S	D-202S
RPE-053A	D-304N
RPE-053S	D-304S
RPE-054A	D-405N
RPE-054S	D-405S
RPE-055A	D-503N
RPE-055S	D-503S
RPE-056A	D-501N
RPE-056S	D-501S
RPE-057A	D-502N
RPE-057S	D-502S
RPE-057S	D-601S
RPE-058A	D-601N
RPE-059	D-301N
RPE-059S	D-301S
RPE-060A	D-403N
RPE-060S	D-403S
RPE-063A	D-701N
RPE-063S	D-701S
SMA-100-1	GRH-004S/SS
SMA-300-1	DRH-006S
SMA-310-1	DRH-007S
SMN-101-1	M-465B-10X
SMN-102-1	M-465D-ADD-R
SPM-824-1	M-8140M-5X
SPM-834-1	M-8141M
SPM-854-1	M-8141A-2M
STM-260N-1	CLP-PS-4X
STM-262-1	CLP-PS-10X

ULTRA	ACCUSTANDARD
STM-270N-1	CLP-PI
STM-272-1	CLP-PI-2.5X
STM-290N-1	M-001 R-0.1X
STM-291-1	M-001R
STM-320N-1	M-524-FS
STM-330N-1	M-8260-SS
STM-341N- 1	M-8260-IS
STM-390-1	M-624-SS-M
STM-401-1	M-8010-IS/SS
STM-410-1	M-8020-IS-10X
STM-420-1	M-8020-SS
STM-460-1	M-502-IS-ASL
STS-110N-1	CLP-004-80X
STS-111-1	CLP-004
STS-112-1	CLP-004-100X
STS-190-1	M-624-SS-04
STS-200-1	M-624-SS-05
STS-220N-1	M-602-SS
STS-220N-1	M-602-SS-10X
STS-280N-1	CLP-PES-A-10X
STS-440-1	M-8020-QC
SVM-100A- 1	M-625-BN
SVM-101A-1	M-625-BN-5X
SVM-102-1	CLP-HC-BN
SVM-110-1	M-625-BN-1
SVM-111-1	M-625-BN-2
SVM-112-1	M-625-BN-3
SVM-113-1	M-625-BN-4
SVM-120A-1	M-8270-01
SVM-121-1	M-8270-05
SVM-122-1	M-8270-02
SVM-123-1	M-8270-06
SVM-124-1	M-8270-03
SVM-125-1	M-8270-04A
SVM-126-1	M-8270-07
SVM-127-1	M-8270-08
SVM-128-1	M-8270-04B
SVM-129-1	M-8270-09
SVM-500-1	M-525-REG-ASL
SVM-642-1	M-642
TCLP-500-1	TCLP-VOC
TCLP-512-1	TCLP-BNA
TCLP-520N-1	TCLP-A-0.5X
TCLP-531-1	TCLP-PES
TCLP-533-1	TCLP-PES-2
TCLP-540-1	TCLP-HERB
TCLP-540M-1	TCLP-HERB-ME
THK-501	M-501-SET
THK-501-1	M-501V
THM-511	M-501-PAK
THM-511-1	M-501
THM-521-1	M-501-25X
US-100N	Z-014A
US-101N	Z-014B
US-102BN	Z-014C
US-103N	Z-014D
US-104N	Z-014E
US-105N	Z-014F
US-106N	Z-014G
US-107N	Z-014H
US-112B	M-8080
US-126	Z-014G-R
US-130	Z-014A-LC
UST-200-1	DRH-001S-10X
UST-310-1	DRH-005S-10X
XY-0115-1	M-001A
XY-0116-1	M-001B
XY-0120-1	M-001D
XY-0121-1	M-001E
XY-0122-1	M-001F
XY-0123-1	M-001G-D
XY-0126-1	M-001P
XY-0127-1	M-001K
XY-0128-1	M-001L
XY-0129-1	M-001J

For additional Cross-Referencing, visit our Website

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These ASL products can be used as independent standards from your primary supplier.

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Alternate Source

ASL 500 Method Series

ISTD/SS for 500 Series Volatile Methods

M-502-IS-ASL — **$ 20 / 1 x 1 mL**
M-502-IS-ASL-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 2-Bromo-1-chloropropane
- 1-Chloro-2-fluorobenzene

Method 505 Organohalide Pesticides

M-505-ASL — **$ 45 / 1 x 1 mL**
M-505-ASL-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
At stated conc. in Acetone — 12 comps.

Alachlor	(50 µg/mL)	Heptachlor	(20 µg/mL)
Aldrin	(20 µg/mL)	Heptachlor epoxide (Isomer B)	(20 µg/mL)
Atrazine	(500 µg/mL)	Hexachlorobenzene	(10 µg/mL)
γ-BHC	(20 µg/mL)	Hexachlorocyclopentadiene	(20 µg/mL)
Dieldrin	(20 µg/mL)	Methoxychlor	(200 µg/mL)
Endrin	(20 µg/mL)	Simazine	(100 µg/mL)

Method 508.1 (SDWA) Regulated Pesticide Mix

M-508.1-ASL — **$ 60 / 1 x 1 mL**
M-508.1-ASL-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
100 µg/mL each in MtBE — 17 comps.

- Alachlor
- Aldrin
- Atrazine
- β-BHC
- α-Chlordane
- γ-Chlordane
- Dieldrin
- Endrin
- Heptachlor
- Heptachlor epoxide (Isomer B)
- Hexachlorobenzene
- Hexachlorocyclopentadiene
- Methoxychlor
- Metolachlor
- Metribuzin
- Propachlor
- Simazine

Method 525.2 Nitrogen / Phosphorous Pesticide Mix

M-525.2-NP1-ASL — **$ 170 / 1 x 1 mL**
100 µg/mL each in Acetone — 41 comps.

- Alachlor
- Ametryn
- Atraton
- Atrazine
- Bromacil
- Butachlor
- Butylate
- Chlorpropham
- Dursban
- Cycloate
- Cyanazine
- Dichlorvos
- Diphenamid
- EPTC
- Ethoprop
- Fenarimol
- Fluridone
- Hexazinone
- Methyl paraoxon
- Metolachlor
- Metribuzin
- Mevinphos
- MGK-264
- Molinate
- Napropamide
- Norflurazon
- Pebulate
- Prometon
- Prometryne
- Pronamide
- Propachlor
- Propazine
- Simetryn
- Tetrachlorvinphos
- Tebuthiuron
- Terbacil
- Prebane
- Triadimefon
- Tricyclazole
- Trifluralin
- Vernolate

Method 525.2 Nitrogen/Phosphorous Pesticide Mix

M-525.2-NP2-ASL — **$ 60 / 1 x 1 mL**
M-525.2-NP2-ASL-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
100 µg/mL each in Acetone — 6 comps.

- Carboxin
- Diazinon
- Disulfoton
- Fenamiphos
- Merphos
- Terbufos

Method 525.2 Organochlorine Pesticides

M-525.2-CP-ASL — **$ 110 / 1 x 1 mL**
M-525.2-CP-ASL-PAK — ***SAVE 20%*** **$ 440 / 5 x 1 mL**
100 µg/mL each in Acetone — 30 comps.

- Alachlor
- Aldrin
- Atrazine
- α-BHC
- β-BHC
- δ-BHC
- γ-BHC
- Chlorobenzilate
- Chlorothalonil
- Chloroneb
- Dacthal
- p,p'-DDD
- p,p'-DDE
- p,p'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Etridiazole
- α-Chlordane
- γ-Chlordane
- Heptachlor
- Heptachlor epoxide (Isomer B)
- Methoxychlor
- *cis*-Permethrin
- *trans*-Permethrin
- Simazine
- trans-Nonachlor

Method 525.2 Semi-Volatile Mix

M-525.2-SV-ASL — **$ 55 / 1 x 1 mL**
M-525.2-SV-ASL-PAK — ***SAVE 20%*** **$ 220 / 5 x 1 mL**
100 µg/mL each in Acetone — 33 comps.

- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- Benzyl butyl phthalate
- 2-Chlorobiphenyl
- Chrysene
- Dibenz[a,h]anthracene
- 2,3-Dichlorobiphenyl
- bis(2-Ethylhexyl)adipate
- bis(2-Ethylhexyl)phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Dibutyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Fluorene
- Hexachlorobenzene
- 2,2',4,4',5,6'-Hexachlorobiphenyl
- 2,2',3,3',4,4',6-Heptachlorobiphenyl
- Hexachlorocyclopentadiene
- Indeno[1,2,3-cd]pyrene
- Isophorone
- 2,2',3,3',4,5',6,6'-Octachlorobiphenyl
- 2,2',3',4,6-Pentachlorobiphenyl
- Pentachlorophenol (400 µg/mL)
- Phenanthrene
- Pyrene
- 2,2',4,4'-Tetrachlorobiphenyl
- 2,4,5-Trichlorobiphenyl

Method 525.2 Regulated Semi-Volatiles Mix

M-525-REG-ASL — **$ 35 / 1 x 1 mL**
M-525-REG-ASL-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 6 comps.

- Benzo[a]pyrene
- bis(2-Ethylhexyl)adipate
- bis(2-Ethylhexyl)phthalate
- Hexachlorobenzene
- Hexachlorocyclopentadiene
- Pentachlorophenol (2.0 mg/mL)

Method 525.2 Surrogate Standard

M-525.2-SS2-ASL — **$ 35 / 1 x 1 mL**
M-525.2-SS2-ASL-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
500 µg/mL each in Acetone — 4 comps.

- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Pyrene-d_{10}
- Triphenylphosphate

Method 525.2 ISTD/SS Fortification Solution

M-525.2-FS-ASL — **$ 65 / 1 x 1 mL**
M-525.2-FS-ASL-PAK — ***SAVE 20%*** **$ 260 / 5 x 1 mL**
500 µg/mL each in Acetone — 7 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Phenanthrene-d_{10}
- Pyrene-d_{10}
- Triphenylphosphate

ASL 600 Method Series

Method 601 Purgeable Halocarbon Mixture

M-601-ASL **$ 40 / 1 x 1 mL**
M-601-ASL-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
100 µg/mL each in MeOH 28 comps.

- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *trans*-1,2-Dichloroethene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene
- *trans*-1,3-Dichloropropene
- Dichloromethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- Vinyl chloride

Method 601 Performance Check Solution

S-532-ASL **$ 25 / 1 x 1 mL**
S-532-ASL-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH 8 comps.

- Benzene
- Carbon tetrachloride
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- 1,1,1-Trichloroethane
- Trichloroethene
- Vinyl chloride

Method 608 Pesticides

M-608-ASL **$ 50 / 1 x 1 mL**
M-608-ASL-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
20 µg/mL each in MeOH 16 comps.

- Aldrin
- α-BHC
- β-BHC
- δ-BHC
- γ-BHC
- p,p'-DDD
- p,p'-DDE
- p,p'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (Isomer B)

Method 615 Underivatized Chlorinated Herbicides

M-615A-ASL **$ 50 / 1 x 1 mL**
M-615A-ASL-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
At stated conc. in MeOH 10 comps.

Method 615 Methyl Derivatives of Chlorinated Herbicides

M-615-ASL **$ 55 / 1 x 1 mL**
M-615-ASL-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
At stated conc. in MeOH 10 comps.

2,4-D	(100 µg/mL)	Dicamba	(10 µg/mL)
2,4-DB	(100 µg/mL)	Dichlorprop	(100 µg/mL)
2,4,5-T	(10 µg/mL)	Dinoseb	(50 µg/mL)
2,4,5-TP	(10 µg/mL)	MCPA	(10,000 µg/mL)
Dalapon	(250 µg/mL)	MCPP	(10,000 µg/mL)

ASL 8000 Method Series

Method 8015 Non-Halogenated Volatiles Mix

M-8015-ASL **$ 40 / 1 x 1 mL**
100 µg/mL each in MeOH 12 comps.

- Acetonitrile
- Acrylamide
- 2-Butanone
- Diethyl ether
- 1,4-Dioxane
- Ethanol
- Ethyl methacrylate
- Isobutyl alcohol
- Methacrylonitrile
- Methyl methacrylate
- 4-Methyl-2-pentanone
- Propionitrile

Method 8020A ISTD/SS Solution

M-8020-IS/SS-ASL **$ 35 / 1 x 1 mL**
M-8020-IS/SS-ASL-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1.5 mg/mL each in MeOH 5 comps.

- 4-Bromochlorobenzene
- *p*-Bromofluorobenzene
- 1,4-Difluorobenzene
- Fluorobenzene
- α,α,α-Trifluorotoluene

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Save 20-40% 5 x 1 mL



Method 8040A Phenols QC Check Standard

M-8040A-ASL **$ 40 / 1 x 1 mL**
M-8040A-ASL-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
100 µg/mL each in Isopropanol
M-8040A-ASL-20X **$ 70 / 1 x 1 mL**
2000 µg/mL each in Isopropanol 19 comps.

- Dinoseb
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- *o*-Cresol
- *m*-Cresol
- *p*-Cresol
- 2-Cyclohexyl-4,6-dinitrophenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-o-cresol
- 2,4-Dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Method 8080A Organochlorine Pesticides Mix

M-8080A-ASL **$ 40 / 1 x 1 mL**
M-8080A-ASL-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
250 µg/mL each in Hexane:Toluene (1:1) 17 comps.

- Aldrin
- α-BHC
- β-BHC
- δ-BHC
- γ-BHC
- p,p'-DDD
- p,p'-DDE
- p,p'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (Isomer B)
- Methoxychlor (1000 µg/mL)

Alternate Source Line

AccuStandard formulated the **M-8270-ASL-SET** with convenient mixtures based on similar analytical or functional group characteristics. Should your semi-volatile calibration table have additional required analytes, we can easily manufacture specific formulations.

Alternate Source Method 8270C/D Set

M-8270-ASL-SET — **$ 675 / 17 x 1 mL**

The set includes the following 17 products

- M-8270-01-ASL **Ethers & Phthalates Mix**
- M-8270-02-ASL **Chlorinated Hydrocarbons Mix**
- M-8270-03-ASL **Nitrosamines Mix**
- M-8270-04-ASL **Base/Neutrals Mix**
- M-8270-05-ASL **Base/Neutrals Mix**
- M-8270-06-ASL **PAH Mix**
- M-8270-07-ASL **Pyridines Mix**
- M-8270-08-ASL **Phenols Mix**
- M-8270-09-ASL **Organochlorine Pesticide Mix**
- M-8270-10-ASL **Pesticide Mix**
- M-8270-11-ASL **Toxic Substances Mix**
- M-8270-12-ASL **Phenols Mix**
- M-8270-13-ASL **Polynuclear Aromatic Hydrocarbon Mix**
- M-8270-14-ASL **Organochlorine Pesticide Mix**
- Z-014J **Internal Standards Mix**
- CLP-BNS **Base/Neutrals Surrogate Standard**
- CLP-AS **Acid Surrogate Standard**

ASL Method 8270C/D Alternate Method 8270 Formulations

Ethers & Phthalates Mix

M-8270-01-ASL — **$ 60 / 1 x 1 mL**

2.0 mg/mL each in CH_2Cl_2 — 11 comps.

- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl)ether
- bis(2-Ethylhexyl)phthalate
- bis(2-Chloro-1-methylethyl)ether
- 4-Bromophenyl phenyl ether
- Benzyl butyl phthalate
- 4-Chlorophenyl phenyl ether
- Diethyl phthalate
- Dimethyl phthalate
- Dibutyl phthalate
- Di-n-octyl phthalate

Chlorinated Hydrocarbons Mix

M-8270-02-ASL — **$ 60 / 1 x 1 mL**

2.0 mg/mL each in CH_2Cl_2 — 13 comps.

- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Hexachloropropene
- Pentachlorobenzene
- Pentachloroethane
- 1,2,4,5-Tetrachlorobenzene
- 1,2,4-Trichlorobenzene

Nitrosamines Mix

M-8270-03-ASL — **$ 60 / 1 x 1 mL**

2.0 mg/mL each in CH_2Cl_2 — 9 comps.

- N-Nitrosodi-*n*-butylamine
- N-Nitrosodiethylamine
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine

Base/Neutrals Mix

M-8270-04-ASL — **$ 60 / 1 x 1 mL**

2.0 mg/mL each in CH_2Cl_2 — 13 comps.

- 2-Acetylaminofluorene
- 4-Aminobiphenyl
- 3,3'-Dichlorobenzidine
- 4-Dimethylaminoazobenzene
- 3,3'-Dimethylbenzidine
- α,α-Dimethylphenethylamine
- Diphenylamine
- 1-Naphthylamine
- 2-Naphthylamine
- 5-Nitro-*o*-toluidine
- Phenacetin
- *p*-Phenylenediamine
- *o*-Toluidine

Base/Neutrals Mix

M-8270-05-ASL — **$ 60 / 1 x 1 mL**

2.0 mg/mL each in CH_2Cl_2 — 13 comps.

- Acetophenone
- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Ethyl methanesulfonate
- Isophorone
- Isosafrole
- Methyl methanesulfonate
- 1,4-Naphthoquinone
- Nitrobenzene
- Pentachloronitrobenzene
- Safrole
- 1,3,5-Trinitrobenzene

PAH Mix

M-8270-06-ASL — **$ 30 / 1 x 1 mL**

2.0 mg/mL each CH_2Cl_2:Benzene (1:1) — 2 comps.

- 7,12-Dimethylbenz[a]anthracene
- 3-Methylcholanthrene

Alternate Method 8270C/D Formulations Continued on the Next Page

Use our Custom Quotation form (at the back of catalog) to request additional analytes.

ASL Method 8270C/D Semi-Volatiles by GC/MS Alternate Method 8270 Formulations

Pyridine Mix
M-8270-07-ASL **$ 45 / 1 x 1 mL**
2.0 mg/mL each in Acetone 4 comps.

- Methapyrilene
- 4-Nitroquinoline-1-oxide
- 2-Picoline
- Pyridine

Phenol Mix
M-8270-08-ASL **$ 60 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 8 comps.

- o-Cresol
- m-Cresol
- p-Cresol
- 2,6-Dichlorophenol
- Dinoseb
- Hexachlorophene
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol

Organophosphorous Pesticide Mix
M-8270-09-ASL **$ 60 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 9 comps.

- Dimethoate
- Disulfoton
- Famphur
- Thionazin
- Sulfotep
- o,o,o-Triethylphosphorothioate
- Methyl parathion
- Parathion
- Phorate

Pesticide Mix
M-8270-10-ASL **$ 60 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 6 comps.

- Aramite
- Chlorobenzilate
- Diallate
- Isodrin
- Kepone
- Pronamide

Toxic Substance Mix
M-8270-11-ASL **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 8 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline

Internal Standard Mix
Z-014J **$ 80 / 1 x 1 mL**
Z-014J-PAK ***SAVE 37%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Acid Surrogate Standard
CLP-AS **$ 25 / 1 x 1 mL**
CLP-AS-PAK ***SAVE 36%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH 3 comps.

- 2-Fluorophenol
- Phenol-d_5
- 2,4,6-Tribromophenol

Base/Neutrals Surrogate Standard
CLP-BNS **$ 25 / 1 x 1 mL**
CLP-BNS-PAK ***SAVE 36%*** **$ 80 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 3 comps.

- 2-Fluorobiphenyl
- Nitrobenzene-d_5
- p-Terphenyl-d_{14}

Phenol Mixture
M-8270-12-ASL **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 11 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Polynuclear Aromatic Hydrocarbon Mixture
M-8270-13-ASL **$ 75 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:Benzene (1:1) 16 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

Organochlorine Pesticide Mix
M-8270-14-ASL **$ 75 / 1 x 1 mL**
2.0 mg/mL each in Acetone 17 comps.

- Aldrin
- α-BHC
- β-BHC
- δ-BHC
- γ-BHC
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide
- Methoxychlor

ASL Method 8270C/D Appendix IX Semi-Volatiles by GC/MS

These additional formulations, used in conjunction with the ASL 8270C/D formulations and designed on a functional group basis, will allow the chemist to analyze a complete method 8270C/D.

Additions to Method 8270

M-8270-13A-R2 — **$ 75 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 10 comps.

- 4-aminoazobenzene
- 3-Amino-9-ethylcarbazole
- o-Anisidine
- 5-Chloro-2-methylaniline
- p-Cresidine
- 2,4-Diaminotoluene
- 4,4'-Methylenebis(N,N-dimethylaniline)
- 4,4'-Methylenebis(2-chloroaniline)
- 4,4'-Oxydianiline
- 2,4,5-Trimethylaniline

M-8270-13B-R — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in THF — 3 comps

- 2-Aminoanthraquinone
- 4-Chloro-1,2-phenylenediamine
- 4-Chloro-1,3-phenylenediamine

M-8270-14A-R1 — **$ 50 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 7 comps.

- Benzoic acid
- 1-Chloronaphthalene
- Dibenz[a,j]acridine
- Resorcinol
- Thiophenol
- tris-(2,3-Dibromopropyl)phosphate
- Tri-p-tolyl phosphate

M-8270-14B — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in THF — 5 comps.

- p-Benzoquinone
- Hydroquinone
- Maleic anhydride
- Phthalic anhydride
- Trimethyl phosphate

M-8270-14C ❄ — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:MeOH (3:1) — 5 comps.

- 1-Acetyl-2-thiourea
- Diethyl sulfate
- Hexamethylphosphoramide
- 3-Picolyl chloride HCL
- Toluene diisocyanate

M-8270-15 — **$ 95 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2:MeOH (19:1) — 13 comps.

- Dibenzo[a,e]pyrene
- 1,2-Dibromo-3-chloropropane
- Diethyl stilbestrol
- 1,2-Dinitrobenzene
- 1,4-Dinitrobenzene
- 5,5-Diphenylhydantoin
- Mestranol
- Nicotine
- 5-Nitroacenapthene
- 5-Nitro-o-anisidine
- 4-Nitrobiphenyl
- Propylthiouracil
- Strychnine

Pesticides

M-8270-16 — **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 — 10 comps.

- Anilazine
- Azinphos methyl
- Barbamate
- Demeton (mixed isomers)
- Dichlone
- Dioxathion
- Mirex
- Sulfoxide
- Sulfallate
- Trifluralin

M-8270-17 — **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 — 7 comps.

- Brominal
- Captafol
- Captan
- Dinex
- Dinocap
- Fluchloralin
- Nitrofen

Carbamates/Pesticides

M-8270-18 — **$ 75 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 — 6 comps.

- Carbaryl
- Carbofuran
- Ethyl carbamate
- Mexacarbate
- Schradan (Octamethylpyrophosphoramide)
- Phenobarbital

Pesticides

M-8270-19 — **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 — 12 comps.

- Carbophenothion
- Coumaphos
- EPN
- ETHION
- Fensulfothion
- Fenthion
- Leptophos
- Malathion
- Phosalone
- Imidan (Phosmet)
- Terbufos
- Tetrachlorvinphos

M-8270-20 — **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 — 9 comps.

- Chlorfenvinphos
- Ciodrin (Crotoxyphos)
- Dichlorvos
- Dicrotophos
- Mevinphos
- Monocrotophos
- Naled
- Phosphamidon
- TEPP (Tetraethyl pyrophosphate)

M-8270-21 — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in Acetone — 3 comps.

- α-Chlordane
- γ-Chlordane
- Endrin ketone

Semi-Volatile additions

M-8270-22 — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 2 comps.

- Benzidine
- 3,3'-Dimethoxybenzidine

APP-9-126-10X — **$ 30 / 1 x 1 mL**
1.0 mg/mL in CH_2Cl_2

- Methapyrilene

P-427S-10X — **$ 34 / 1 x 1 mL**
1.0 mg/mL in MeOH

- Dinex

❄ A ColdPAK is required.

ASL Method 8270C/D Appendix IX Semi-Volatiles by Method 8270

The following formulations allow the analytical chemist to combine more analytes at one time in the development of a Method 8270C/D calibration curve. Use of these Alternate Source standards allow you to check product comparability from an independent source. AccuStandard has formulated the necessary additional standards required to have the most complete 8270C/D analyte list in the industry.

8270 Semi-Volatile Standards

M-8270-AG01-ASL — **$ 105 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2:Benzene (3:1) — 64 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Benzyl butyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl)ether
- bis(2-Chloro-1-methylethyl)ether
- bis(2-Ethylhexyl)phthalate
- 4-Bromophenyl phenyl ether
- Carbazole
- 4-Chloroaniline
- 2-Chloronaphthalene
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 4-Chlorophenyl phenyl ether
- Chrysene
- Dibenz[a,h]anthracene
- Dibenzofuran
- Dibutyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2,4-Dichlorophenol
- Diethyl phthalate
- 2,4-Dimethylphenol
- 4,6-Dinitro-2-methylphenol
- 2,4-Dinitrophenol
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-*n*-octyl phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno[1,2,3-cd]pyrene
- Isophorone
- 2-Methylnaphthalene
- 2-Methylphenol
- 4-Methylphenol
- Naphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- Nitrobenzene
- 2-Nitrophenol
- 4-Nitrophenol
- n-Nitrosodimethylamine
- N-Nitrosodi-*n*-propylamine
- Pentachlorophenol
- Phenanthrene
- Phenol
- Pyrene
- 1,2,4-Trichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

M-8270-AG02-ASL — **$ 95 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 — 39 comps.

- Aniline
- Acetophenone
- 2-Acetamidofluorene
- 4-Aminobiphenyl
- Benzyl alcohol
- 2,6-Dichlorophenol
- 4-Dimethylaminoazobenzene
- 7,12-Dimethylbenz[a]anthracene
- 1,3-Dinitrobenzene
- Dinoseb
- Diphenylamine
- Ethyl methanesulfonate
- Hexachloropropene
- Isosafrole
- Methapyrilene
- 3-Methylcholanthrene
- Methyl methanesulfonate
- 3- Methylphenol
- 1-Naphthylamine
- 2-Naphthylamine
- 4-Nitroquinoline-N-oxide
- N-Nitrosodi-n-butylamine
- N-Nitrosodiethylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine
- 5-Nitro-o-toluidine
- Pentachlorobenzene
- Pentachloronitrobenzene
- Pentachloroethane
- Phenacetin
- 2-Picoline
- Pyridine
- Safrole
- 1,2,4,5-Tetrachlorobenzene
- 2,3,4,6-Tetrachlorophenol
- 1,3,5-Trinitrobenzene
- *o*-Toluidine

M-8270-07 — **$ 150 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 15 comps.

- Aramite
- Chlorobenzilate
- Diallate
- 2,4-D
- Dimethoate
- Dinoseb
- Disulfoton
- Famphur
- Kepone
- Methyl parathion
- Parathion
- Phorate
- Silvex (2,4,5-TP)
- Sulfotep
- Thionazin

Additions to Method 8270

M-8270-13A-R — **$ 85 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 12 comps.

- 4-Aminoazobenzene
- 3-Amino-9-ethylcarbazole
- *o*-Anisidine
- 5-Chloro-2-methylaniline
- p-Cresidine
- 2,4-Diaminotoluene
- 4,4'-Methylenebis(N,N-dimethylaniline)
- 4,4'-Methylene bis(2-chloroaniline)
- 4,4'-Oxydianiline
- 2-Picoline
- Pyridine
- 2,4,5-Trimethylaniline

M-8270-13B-R — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in THF — 3 comps

- 2-Aminoanthraquinone
- 4-Chloro-1,2-phenylenediamine
- 4-Chloro-1,3-phenylenediamine

M-8270-14A-R1 — **$ 50 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 7 comps.

- Benzoic acid
- 1-Chloronaphthalene
- Dibenz[a,j]acridine
- Resorcinol
- Thiophenol
- tris-(2,3-Dibromopropyl)phosphate
- Tri-p-tolyl phosphate

M-8270-14B — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in THF — 5 comps.

- *p*-Benzoquinone
- Hydroquinone
- Maleic anhydride
- Phthalic anhydride
- Trimethyl phosphate

M-8270-14C — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:MeOH (3:1) — 5 comps.

- 1-Acetyl-2-thiourea
- Diethyl sulfate
- Hexamethylphosphoramide
- 3-Picolyl chloride HCL
- Toluene diisocyanate

M-8270-15 — **$ 95 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2:MeOH (19:1) — 13 comps.

- Dibenzo[a,e]pyrene
- 1,2-Dibromo-3-chloropropane
- Diethyl stilbestrol
- 1,2-Dinitrobenzene
- 1,4-Dinitrobenzene
- 5,5-Diphenylhydantoin
- Mestranol
- Nicotine
- 5-Nitroacenapthene
- 5-Nitro-*o*-anisidine
- 4-Nitrobiphenyl
- Propylthiouracil
- Strychnine

ASL Method 8270C/D Appendix IX Semi-Volatiles by Method 8270 (Continued)

Pesticides

M-8270-16 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 10 comps.

Anilazine	Dichlone	Sulfoxide
Azinphos methyl	Dioxathion	Sulfallate
Barbamate	Mirex	Trifluralin
Demeton (mixed isomers)		

M-8270-17 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 7 comps.

Brominal	Dinex	Fluchloralin
Captafol	Dinocap	Nitrofen
Captan		

Carbamates/Pesticides

M-8270-18 **$ 75 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 6 comps.

Carbaryl	Mexacarbate
Carbofuran	Schradan (Octamethylpyrophosphoramide)
Ethyl carbamate	Phenobarbital

Pesticides

M-8270-19 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 12 comps.

Carbophenothion	Fensulfothion	Phosalone
Coumaphos	Fenthion	Imidan (Phosmet)
EPN	Leptophos	Terbufos
Ethion	Malathion	Tetrachlorvinphos

M-8270-20 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 9 comps.

Chlorfenvinphos	Monocrotophos
Ciodrin (Crotoxyphos)	Naled
Dichlorvos	Phosphamidon
Dicrotophos	TEPP (Tetraethyl pyrophosphate)
Mevinphos	

Semi-Volatile additions

M-8270-22 **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 2 comps.

Benzidine	3,3'-Dimethoxybenzidine

Pesticides - Mix #2

Z-014C-R **$ 95 / 1 x 1 mL**
Z-014C-R-PAK ***SAVE 20%*** **$ 380 / 5 x 1 mL**
2.0 mg/mL each in Toluene:Hexane (1:1) 20 comps.

Aldrin	4,4'-DDD	Endrin
α-BHC	4,4'-DDE	Endrin aldehyde
β-BHC	4,4'-DDT	Endrin ketone
γ-BHC	Dieldrin	Heptachlor
δ-BHC	Endosulfan I	Heptachlor epoxide
α-Chlordane	Endosulfan II	Methoxychlor
γ-Chlordane	Endosulfan sulfate	

Semi-Volatile additions

M-8270-23-R1 **$ 50 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 4 comps.

3,3'-Dichlorobenzidine	*a,a*-Dimethylphenethylamine
3,3'-Dimethylbenzidine	*p*-Phenylenediamine

M-8270-24 **$ 50 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 4 comps

Hexachlorophene	Pronamide
Isodrin	*o,o,o*-Triethylphosphorothioate

AS-E0060 **$ 32 / 1 x 1 mL**
5.0 mg/mL in MeOH

N-Nitrosodiphenylamine

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- Self-graded

Water Supply (WS) Inorganic Parameters

WS-PT Trace Metals #1

IPE-MET-001-AT $ 47 / 2 x 20 mL
IPE-MET-001-AV $ 47 / 2 x 20 mL

Sample conc. after prep
Contains 18 analytes listed below

Analyte List	Sample range
Aluminum	20-4500 µg/L
Antimony	2-1000 µg/L
Arsenic	2-200 µg/L
Barium	20-3500 µg/L
Beryllium	0.5-200 µg/L
Cadmium	1-200 µg/L
Calcium	3500-110000 µg/L
Chromium	5-500 µg/L
Copper	20-2250 µg/L
Iron	20-4500 µg/L
Lead	2-200 µg/L
Manganese	10-1200 µg/L
Mercury	0.5-20 µg/L
Nickel	5-600 µg/L
Selenium	2-125 µg/L
Silver	2-750 µg/L
Thallium	1-100 µg/L
Zinc	50-3500 µg/L

WS-PT Trace Metals #2

IPE-MET-002-AT $ 22 / 20 mL
IPE-MET-002-AV $ 22 / 20 mL

Sample conc. after prep
Contains 2 analytes listed below

Analyte List	Sample range
Boron	20-2250 µg/L
Molybdenum	3-500 µg/L

WS-PT Inorganic Disinfection By-Products

IPE-DBP-001-AT $ 32 / 20 mL
IPE-DBP-001-AV $ 32 / 20 mL

Sample conc. after prep
Contains 4 analytes listed below

Analyte List	Sample range
Chlorate	20-200 µg/L
Chlorite	5-1000 µg/L
Bromate	2-60 µg/L
Bromide	10- 600 µg/ L

WS-PT Inorganic Minerals

IPE-MIN-001-AT ✦ $ 42 / 3 x 20 mL
IPE-MIN-001-AV ✦ $ 42 / 3 x 20 mL

Sample conc. after prep
Contains 13 analytes listed below

Analyte List	Sample range
Alkalinity as $CaCO_3$	10-300 mg/L
Chloride	10-500 mg/L
Conductivity	25- 2500 µmhos
Dissolved Solids	50-5000 mg/L
Fluoride	1-10 mg/L
Total Hardness as $CaCO_3$	15- 600 mg/L
Ca Hardness as $CaCO_3$	40- 500 mg/L
Langliers Index	5-125 mg/L
Nitrate as N	0.5-20 mg/L
pH	5-10 units
Potassium	2-250 mg/L
Sodium	5 -500 mg/L
Sulfate	2-600 mg/L

WS-PT Sulfate/TOC

IPE-MIN-002-AT $ 32 / 20 mL
IPE-MIN-002-AV $ 32 / 20 mL

Sample conc. after prep
Contains 2 analytes listed below

Analyte List	Sample range
Sulfate	5-600 mg/L
TOC	0.8-6 mg/L

WS-PT Residual Free Chlorine

IPE-TRC-001-AT $ 37 / 20 mL
IPE-TRC-001-AV $ 37 / 20 mL

Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
Residual Free Chlorine	0.2-6.0 mg/L

WS-PT Inorganic Solids

IPE-SOL-001-AT $ 37 / 4 mL
IPE-SOL-001-AV $ 37 / 4 mL

Sample conc. after prep
Contains 3 analytes listed below

Analyte List	Sample range
Suspended Solids	5-200 mg/L
Dissolved Solids	50-5000 mg/L
Total solids	50-5200 mg/L

WS-PT Cyanide

IPE-CN-001-AT $ 32 / 20 mL
IPE-CN-001-AV $ 32 / 20 mL

Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
Total Cyanide	0.1-0.5 mg/L

WS-PT Inorganic Hardness

IPE-HARD-001-AT $ 37 / 20 mL
IPE-HARD-001-AV $ 37 / 20 mL

Sample conc. after prep
Contains 4 analytes listed below

Analyte List	Sample range
Calcium	3.5-110 mg/L
Magnesium	0.5-23 mg/L
Total Hardness as $CaCO_3$	15-600 mg/L
Ca Hardness as $CaCO_3$	40- 500 mg/L

WS-PT Nitrate/Nitrite/ orthoPhosphate/Fluoride

IPE-MIN-003-AT $ 42 / 20 mL
IPE-MIN-003-AV $ 42 / 20 mL

Sample conc. after prep
Contains 4 analytes listed below

Analyte List	Sample range
Nitrate-N	0.5-20 mg/L
Nitrite-N	0.1-10 mg/L
orthoPhosphate-P	0.3-1.7 mg/L
Fluoride	0.9-10 mg/L

WS-PT Nitrite

IPE-MIN-004-AT $ 32 / 20 mL
IPE-MIN-004-AV $ 32 / 20 mL

Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
Nitrite-N	0.1-10 mg/L

✦ Designed for NELAC/CA

Water Pollution (WP) / DMR-QA Inorganic Parameters

WP-PT Cyanide
IPE-CN-002-AT **$ 32 / 20 mL**
IPE-CN-002-AV **$ 32 / 20 mL**
Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
Total Cyanide	0.02-1.2 mg/L

WP-PT Inorganic Hardness
IPE-HARD-002-AT **$ 35 / 20 mL**
IPE-HARD-002-AV **$ 35 / 20 mL**
Sample conc. after prep
Contains 4 analytes listed below

Analyte List	Sample range
Calcium	3.5-150 mg/L
Magnesium	0.5-50 mg/L
Total Hardness as $CaCO_3$	15-600 mg/L
Ca Hardness as $CaCO_3$	15- 575 mg/L

WP-PT Trace Metals
IPE-MET-003-AT **$ 47 / 2 x 20 mL**
IPE-MET-003-AV **$ 47 / 2 x 20 mL**
Sample conc. after prep
Contains 23 analytes listed below

Analyte List	Sample range
Aluminum	50-4500 µg/L
Antimony	10-1000 µg/L
Arsenic	10-1000 µg/L
Barium	50-3500 µg/L
Beryllium	5-1000 µg/L
Boron	50-2500 µg/L
Cadmium	5-1000 µg/L
Chromium	15-1500 µg/L
Cobalt	10-1500 µg/L
Copper	10-1000 µg/L
Iron	25-4500 µg/L
Lead	30-4000 µg/L
Manganese	50-4500 µg/L
Mercury	0.5-40 µg/L
Molybdenum	20-700 µg/L
Nickel	50-3500 µg/L
Selenium	20-2500 µg/L
Silver	10-750 µg/L
Strontium	2-1000 µg/L
Thallium	10-1000 µg/L
Titanium	25-500 µg/L
Vanadium	50-11500 µg/L
Zinc	25-2500 µg/L

WP-PT Inorganic Minerals
IPE-MIN-005-AT **$ 53 / 2 x 20 mL**
IPE-MIN-005-AV **$ 53 / 2 x 20 mL**
Sample conc. after prep
Contains 12 analytes listed below

Analyte List	Sample range
Alkalinity as $CaCO_3$	5-150 mg/L
Calcium	2-150 mg/L
Chloride	10-500 mg/L
Conductivity	25- 2500 µmhos
Total Dissolved Solids	25-2400 mg/L
Fluoride	0.2-10 mg/L
Total Hardness as $CaCO_3$	15- 600 mg/L
Ca Hardness as $CaCO_3$	15- 575 mg/L
Magnesium	0.5-50 mg/L
Potassium	2-250 mg/L
Sodium	5 -500 mg/L
Sulfate	2-600 mg/L

WP-PT Demand
IPE-MIN-006-AT **$ 42 / 20 mL**
IPE-MIN-006-AV **$ 42 / 20 mL**
Sample conc. after prep
Contains 4 analytes listed below

Analyte List	Sample range
COD	10-500 mg/L
BOD	10-275 mg/L
cBOD	10-275 mg/L
TOC	5-125 mg/L

WP-PT Nutrients #1
IPE-MIN-007-AT **$ 22 / 20 mL**
IPE-MIN-007-AV **$ 22 / 20 mL**
Sample conc. after prep
Contains 3 analytes listed below

Analyte List	Sample range
Nitrate-N	0.2-50 mg/L
Ammonia-N	0.1-20 mg/L
OrthoPhosphate-P	0.01-6 mg/L

WP-PT Nutrients #2
IPE-MIN-008-AT **$ 22 / 20 mL**
IPE-MIN-008-AV **$ 22 / 20 mL**
Sample conc. after prep
Contains both analytes listed below

Analyte List	Sample range
Total Phosphorous	0.10-15 mg/L
Total Kjeldahl nitrogen as N	0.3-40 mg/L

✦ Designed for NELAC/CA

WP-PT Oil & Grease & Total Petroleum Hydrocarbon (TPH)
IPE-OILG-001-AT ✦ **$ 32 / 5 mL**
IPE-OILG-001-AV ✦ **$ 32 / 5 mL**
Sample conc. after prep
Contains 2 analytes listed below

Analyte List	Sample range
Total Oil & Grease	5-100 mg/L
TPH	5-100 mg/L

Technical Note

To be used by gravimetric oil and grease methods. In addition, this PT sample can now be used for TPH analysis by gravimetric methods including the EPA method 1664. The sample contains analytes typically present in the environment.

WP-PT pH
IPE-PH-001-AT **$ 27 / 20 mL**
IPE-PH-001-AV **$ 27 / 20 mL**
Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
pH	2-12 units

WP-PT Total Phenolics
IPE-PHEN-001-AT **$ 32 / 20 mL**
IPE-PHEN-001-AV **$ 32 / 20 mL**
Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
Total Phenolics	0.03-6 mg/L

WP-PT Inorganic Solids
IPE-SOL-002-AT **$ 37 / 4 mL**
IPE-SOL-002-AV **$ 37 / 4 mL**
Sample conc. after prep
Contains 3 analytes listed below

Analyte List	Sample range
Suspended Solids	5-200 mg/L
Dissolved Solids	25-2400 mg/L
Total Solids	30-3000 mg/L

WP-PT Total Residual Chlorine
IPE-TRC-002-AT **$ 32 / 20 mL**
IPE-TRC-002-AV **$ 32 / 20 mL**
Sample conc. after prep
Contains analyte listed below

Analyte List	Sample range
Total Residual Chlorine	0.10-6.0 mg/L

Custom Services

Custom Synthesis

The AccuStandard Synthesis Department employs several PhD. Organic Chemists with many years of pertinent academic and industrial experience. The experienced staff has developed hundreds of pure chemical compounds for companies and governmental agencies around the world. The very well-equipped synthetic laboratory, with significant analytical support has made many notable synthesis projects possible. We specialize in synthesizing chemicals of high purity to be used as reference standards, and also offer custom synthesis capability on milligram to kilogram scales.



Analytical Capabilities

- GC-MS, GC-FID, GC-ECD, GC-NPD
- HPLC, LC-MS
- ICP, ICP-MS
- access to more anlytical instrumentation if necessary

Synthesis and Purification

- Milligram to Kilogram Glassware
- Inert Conditions Equipment
- High Performance Flash Chromatography
- Distillation Equipment - High Vacuum, Molecular (Kugelrohr), and Spinning Band Columns Preparative TLC
- Parr Pressure and Hydrogenation Reactor

Custom Synthesized Products

- PCBs (all 209 congeners), & hydroxy, methoxy, and methylsulfonyl metabolites
- Halo-Dibenzodioxins and Furans
- PBDEs (205 out of 209 congeners) & hydroxy, methoxy, and chloro metabolites
- Fluorinated PBDEs
- Other Brominated Flame Retardants
- PBBs
- PAHs, Nitro-PAHs, Methyl-PAHs
- Pesticides and metabolites
- Explosives and metabolites
- Nonyl- and Octylphenol Ethoxylates
- Mono- and Diester Phthalates
- Organophosphates
- Other Rare Chemicals

AccuStandard is renowned for its quick response to the needs for new compounds. The company's especially strong Synthesis Department allows the synthesis of important and unique products. Featured in its history of firsts, are all of the 209 congeners of polychlorinated biphenyls (PCBs), 205 out of the 209 congeners of polybrominated diphenyl ethers (PBDEs) as well as many halogenated dioxins and dibenzofurans, PAHs, pesticides and fluorinated surrogates substituting the expensive isotopically labelled compounds.

Among the more recent introductions are the hydroxy and methoxy PBDE congeners, mixed bromo/chloro hydroxy and methoxy diphenyl ethers, organophosphate flame retardants, biofuels, plastic additives (AccuStandard authored the Handbook for the Chemical Analysis of Plastic and Polymer Additives published by CRC Press), EPA Method 535 pesticide derivatives and previously unavailable explosive standards.

Custom Formulations

With over 30,000+ custom and 10,000+ listed standards, there is a good chance that AccuStandard will have a standard to meet your needs. However, if your laboratory requires something specific, our Chemists will manufacture a Custom Standard to meet your unique requirements. Custom Standards are an economical and time saving way to have a Standard prepared for your individual needs.



Custom QC options

1. Gravimetric/Volumetric Certification: Each purity is measured gravimetrically and QC verified instrumentally (where available). Every component in the Standard is guaranteed to be within +/- 0.5% of the requested value unless otherwise stated on the Certificate of Analysis. The solutions are diluted to volume using Class A glassware. A Certificate of Analysis accompanies each Standard and documents the gravimetric values used.
2. Full Quantitative Certification: This QA/QC method includes extended GC analysis using both internal calibration standards plus statistical analysis. A data package containing analytical and gravimetric data can be provided if requested during the quotation phase (Organic Customs only).

Custom Packaging & Bulk Quantity Requirements

AccuStandard has the resources and equipment to meet your custom packaging requirements.

- Automated ampule filling & sealing 0.2 mL up to 20 mL and ampule sizes from 1 mL to 20 mL
- Quantities from 500 to over 500,000 ampules
- Homogeneity testing
- Amber ampules for added product stability
- Private labeling and packaging (OEM)

We can reduce your costs using the Cozzoli Auto Filling/Sealing Machine to package just the right size product for your application. OEM Standards - Privately labeled standards manufactured and tested to your specifications. Cold and under Nitrogen sealing available.





Organic Single Analytes and Select Mixtures

Singles:

- **Singles are listed by: POP category, Functional group and Application (highlighted in orange).**
- **Individual analytes used in EPA Methods are listed pages 124-134.**
- **Indices: Catalog Number, CAS Number and Organic Analytes are on pages 412-440.**

Persistent Organic Pollutants (POPs) are persistent (resistant to environmental degradation), they bioaccumulate in animal tissue, and they are toxic to humans. A specific list was defined in 1995 by the United Nations, and this list was the center of the Stockholm Convention in 2001. The list originally included "the dirty dozen" and was expanded to include other pesticides, PBDEs, and some chemicals used in industrial processes.



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AccuStandard in the World of PCBs...

History

Polychlorinated biphenyls (PCBs) have been the subject of numerous studies and investigations over the last several decades because of their environmental persistency and bioaccumulation.

Their abundance as a pollutant stems from their worldwide manufacture as heavily-used industrial chemicals (in the USA, as Aroclors by Monsanto), with the main application as a di-electric fluid for capacitors and transformers. As late as 1984, about 758 million pounds were still in use in the United States alone.

Toxicity & Bioaccumulation

The chemical formulation of PCBs, and their similarity to the chemical formulation of pesticides such as DDT, with it's lipophilicity, the latter causing bioaccumulationin bio-lipids in such organs as the liver resulting in overall toxicity.

One of the first signals of the effect of PCBs on the environment in the United States, was noted in 1970 on Great Gull Island at the entrance to Long Island Sound. Scientists observed a sharp increase in the number of abnormalities found in young sea gulls, such as feather loss, crossed beaks, and four legs. In addition, the egg shells were extremely thin.

In 1968, Japan documented the first of over 1200 human patients, many of them children, who developed acne-form skin eruptions (chloracne) and other clinical symptoms. These symptoms were eventually traced to the ingestion of the industrial PCB, Kannechlor 400, (trademark of the Kanegafuchi Chemical Industry Company) which had been blended with Rice Oil (Yusho) used in cooking oil.

The effect was thus termed Yusho Disease. The average amount of actual PCBs consumed by the victims was estimated at 2 grams. By 1973, 22 of the 1200 victims had died, 41% from malignant tumors, suggesting a possible excess mortality was caused by PCB ingestion.

AccuStandard meets or exceeds the specifications of those chemical compounds that are listed in the "Specifications for Standard Grade Reference Material" section of Reagent Chemicals,

Tenth Edition by the American Chemical Society (ACS).

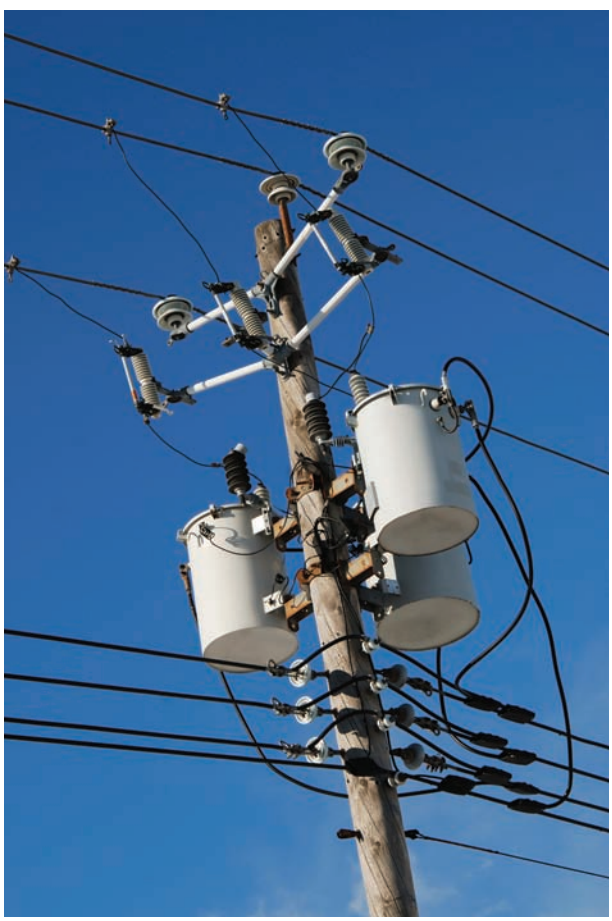
Regulatory Actions

The overwhelming problem with PCBs is their continuing environmental impact. Their stability, and widespread prior use, has caused global contamination of soils, rivers and other waterways that could affect our food and water supplies for years to come.

This problem has become of paramount concern to the US EPA, which prohibited, under Section 6(e) of the Toxic Substances Control Act, the use of PCBs, except in totally enclosed systems, after July 1, 1978; the manufacture of PCBs, after January 1, 1979 and the processing and distribution in commerce of PCBs after July 1, 1979. PCBs used as industrial chemicals were totally prohibited after July 1, 1984.

In order to facilitate environmental monitoring, toxicity studies, and possible destruction of PCBs present in the environment, the EPA permits the synthesis and distribution of small quantities for research purposes (see box below).

In the course of the investigations, it was determined that some of the 209 congeners that constitute the industrial PCB product behave differently than others and it is very helpful, even essential, to the scientific and regulatory communities, that individual congeners be available. For this reason, the EPA granted manufacturing and export exemptions to a few, select standards manufacturers. **The Founder of AccuStandard, Inc. was the first to obtain this exemption. AccuStandard is the leader in synthesizing PCBs and indeed, is the first, and so far only, manufacturer to have synthesized all 209 congeners. Our expertise can assist you in your PCB investigations.**



PCB Groupings and Formulations

Toxicity and Abundance

PCB Congeners can be grouped according to their presence in the technical mixtures (i.e. Aroclors) and according to their toxicity, generally falling into the following pattern:

Congeners that contain fewer chlorine substitutions in the ortho positions are more toxic than those having more chlorines in those positions. The most toxic are the tetra, penta and hexachlorobiphenyl congeners that are unsubstituted in the ortho position (which makes them dioxin-like).

Analytical Convenience

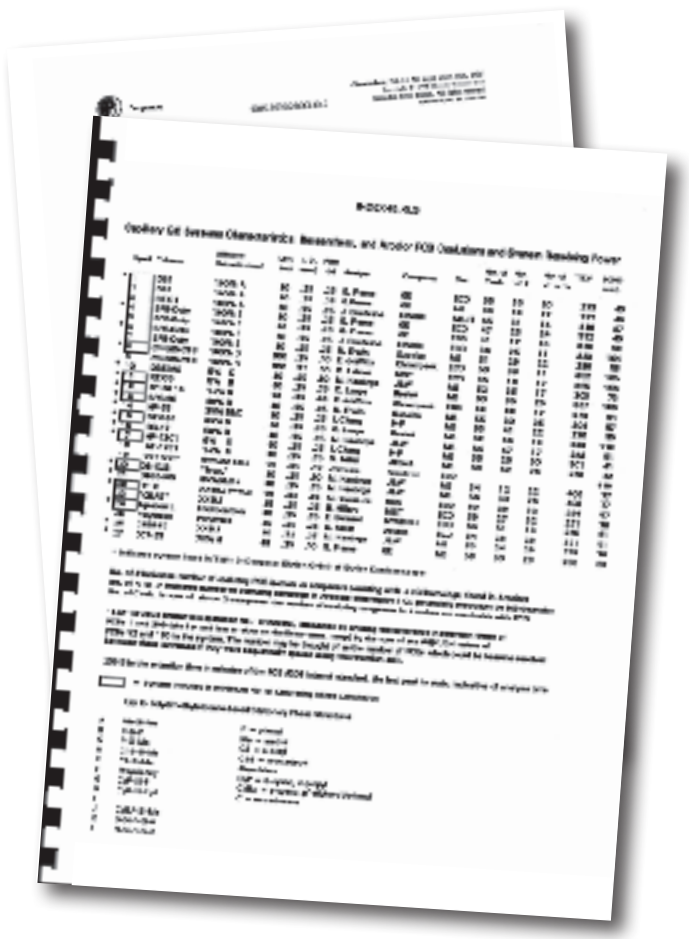
To obtain meaningful analytical data, the congeners need to be formulated into groupings of solutions that are all resolved on a gas chromatographic column. The "holy grail" of columns, the single column by which all 209 congeners are separated has, to this date, eluded all GC column manufacturers.

There are 2 columns that are closest to achieving the "holy grail" status of separating all the PCB congeners. They are Agilent DB-XLB & SGE's HT 8 which resolve all but 4 pairs of significant congeners and 5 pairs of minor congeners.

George Frame and his co-workers at General Electric Company have coordinated a seminal study of specially formulated PCB groups - five of which are composed of the congeners contained in Aroclors, the remaining four mixtures contain those congeners generally absent in Aroclors. AccuStandard prepared and supplied the nine mixtures used in Dr. Frame's study from its inventory of the 209 pure congeners.

The above nine mixtures were then tested on 17 different columns by independent laboratories and column manufacturers. The resulting chromatographic retention time and response data was compiled and published. This information has proven invaluable for identification and quantification of the different Aroclors as well as for congener specific analysis.





Physical, Spectral, and Chromatographic Properties of all 209 Individual PCB Congeners

AccuStandard's FT/IR, Mass Spectral data, melting point and chromatographic information along with chromatographic data from George Frame's study is available in the book.

PCB-BOOK-002 **$ 25**

Chlorobiphenyl Congeners (PCBs)

- All 209 possible congeners are available in Neat and Solution form
- All congeners are 99+% pure by GC/FID & GC/MS

Purity 99+%

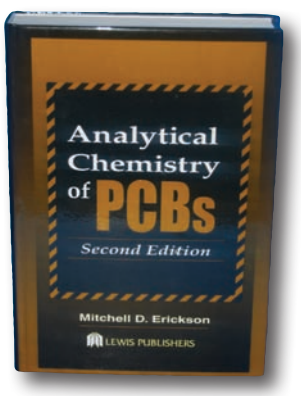
209 Solutions in a Set **Exclusive**

C-35-SET	35 µg/mL in Isooctane	**$ 2,750 / set of 209 x 1 mL**
C-100-SET	100 µg/mL in Isooctane	**$ 2,950 / set of 209 x 1 mL**

Solutions in Isooctane

Chlorobiphenyl Congeners (PCBs)

No.	Compound	CAS No.	Neat Cat. No.	Price / Unit	35 µg/mL Cat. No.	1 mL Price	100 µg/mL Cat. No.	1 mL Price
1	2-Chlorobiphenyl	2051-60-7	C-001N	$ 14 / 50 mg	C-001S	$ 15	C-001S-TP	$ 15
2	3-Chlorobiphenyl	2051-61-8	C-002N	14 / 50 mg	C-002S	15	C-002S-TP	15
3	4-Chlorobiphenyl	2051-62-9	C-003N	14 / 50 mg	C-003S	15	C-003S-TP	15
4	2,2'-Dichlorobiphenyl	13029-08-8	C-004N	34 / 25 mg	C-004S	15	C-004S-TP	15
5	2,3-Dichlorobiphenyl	16605-91-7	C-005N	25 / 50 mg	C-005S	15	C-005S-TP	15
6	2,3'-Dichlorobiphenyl	25569-80-6	C-006N	25 / 5 mg	C-006S	30	C-006S-TP	30
7	2,4-Dichlorobiphenyl	33284-50-3	C-007N	25 / 25 mg	C-007S	15	C-007S-TP	15
8	2,4'-Dichlorobiphenyl	34883-43-7	C-008N	58 / 25 mg	C-008S	30	C-008S-TP	30
9	2,5-Dichlorobiphenyl	34883-39-1	C-009N	25 / 50 mg	C-009S	15	C-009S-TP	15
10	2,6-Dichlorobiphenyl	33146-45-1	C-010N	25 / 25 mg	C-010S	15	C-010S-TP	15
11	3,3'-Dichlorobiphenyl	2050-67-1	C-011N	34 / 50 mg	C-011S	15	C-011S-TP	15
12	3,4-Dichlorobiphenyl	2974-92-7	C-012N	25 / 50 mg	C-012S	15	C-012S-TP	15
13	3,4'-Dichlorobiphenyl	2974-90-5	C-013N	55 / 5 mg	C-013S	30	C-013S-TP	30
14	3,5-Dichlorobiphenyl	34883-41-5	C-014N	32 / 50 mg	C-014S	15	C-014S-TP	15
15	4,4'-Dichlorobiphenyl	2050-68-2	C-015N	18 / 10 mg	C-015S	15	C-015S-TP	15
16	2,2',3-Trichlorobiphenyl	38444-78-9	C-016N	55 / 5 mg	C-016S	30	C-016S-TP	30
17	2,2',4-Trichlorobiphenyl	37680-66-3	C-017N	55 / 5 mg	C-017S	30	C-017S-TP	30
18	2,2',5-Trichlorobiphenyl	37680-65-2	C-018N	40 / 25 mg	C-018S	15	C-018S-TP	15
19	2,2',6-Trichlorobiphenyl	38444-73-4	C-019N	55 / 5 mg	C-019S	30	C-019S-TP	30
20	2,3,3'-Trichlorobiphenyl	38444-84-7	C-020N	30 / 5 mg	C-020S	30	C-020S-TP	30
21	2,3,4-Trichlorobiphenyl	55702-46-0	C-021N	44 / 25 mg	C-021S	15	C-021S-TP	15
22	2,3,4'-Trichlorobiphenyl	38444-85-8	C-022N	55 / 5 mg	C-022S	30	C-022S-TP	30
23	2,3,5-Trichlorobiphenyl	55720-44-0	C-023N	55 / 5 mg	C-023S	30	C-023S-TP	30
24	2,3,6-Trichlorobiphenyl	55702-45-9	C-024N	57 / 10 mg	C-024S	30	C-024S-TP	30
25	2,3',4-Trichlorobiphenyl	55712-37-3	C-025N	55 / 5 mg	C-025S	30	C-025S-TP	30
26	2,3',5-Trichlorobiphenyl	38444-81-4	C-026N	49 / 25 mg	C-026S	15	C-026S-TP	15
27	2,3',6-Trichlorobiphenyl	38444-76-7	C-027N	55 / 5 mg	C-027S	30	C-027S-TP	30
28	2,4,4'-Trichlorobiphenyl	7012-37-5	C-028N	50 / 10 mg	C-028S	30	C-028S-TP	30
29	2,4,5-Trichlorobiphenyl	15862-07-4	C-029N	38 / 50 mg	C-029S	15	C-029S-TP	15
30	2,4,6-Trichlorobiphenyl	35693-92-6	C-030N	44 / 50 mg	C-030S	15	C-030S-TP	15
31	2,4',5-Trichlorobiphenyl	16606-02-3	C-031N	49 / 25 mg	C-031S	15	C-031S-TP	15
32	2,4',6-Trichlorobiphenyl	38444-77-8	C-032N	55 / 5 mg	C-032S	30	C-032S-TP	30
33	2',3,4-Trichlorobiphenyl	38444-86-9	C-033N	22 / 10 mg	C-033S	15	C-033S-TP	15
34	2',3,5-Trichlorobiphenyl	37680-68-5	C-034N	55 / 5 mg	C-034S	30	C-034S-TP	30
35	3,3',4-Trichlorobiphenyl	37680-69-6	C-035N	55 / 5 mg	C-035S	30	C-035S-TP	30
36	3,3',5-Trichlorobiphenyl	38444-87-0	C-036N	55 / 5 mg	C-036S	30	C-036S-TP	30
37	3,4,4'-Trichlorobiphenyl	38444-90-5	C-037N	55 / 5 mg	C-037S	30	C-037S-TP	30
38	3,4,5-Trichlorobiphenyl	53555-66-1	C-038N	55 / 5 mg	C-038S	30	C-038S-TP	30
39	3,4',5-Trichlorobiphenyl	38444-88-1	C-039N	55 / 5 mg	C-039S	30	C-039S-TP	30



PCB Book
Analytical Chemistry of PCBs
BOOK-PCB-001 **$ 225**

Analytical Chemistry of PCBs

This updated and expanded Second Edition of Dr. Erickson's Analytical Chemistry of PCBs appears a decade after the first and is completely revised and updated. The changes from the First Edition reflect the significant growth in the area and a growing appreciation of the importance of PCB analysis to our culture. This book is a comprehensive review of the analytical chemistry of PCBs. It is part history, part annotated bibliography, part comparison, and part guidance. Featuring a new chapter on analyst/customer interactions and several new appendices, the Second Edition is an invaluable resource for both chemists with no experience in PCB analysis and seasoned PCB researchers.

Technical Note

For specific applications (ex. toxicological studies) that require absolute dioxin and furan free PCBs please contact Technical Service.





In 1993 AccuStandard completed the synthesis of all 209 congeners as individuals (each in a pure form).

Purity 99+%

Solutions in Isooctane

Chlorobiphenyl Congeners (PCBs)

No.	Compound	CAS No.	Neat Cat. No.	Price / Unit	35 µg/mL Cat. No.	1 mL Price	100 µg/mL Cat. No.	1 mL Price
40	2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	C-040N	$ 52 / 50 mg	C-040S	$ 15	C-040S-TP	$ 15
41	2,2',3,4-Tetrachlorobiphenyl	52663-59-9	C-041N	55 / 5 mg	C-041S	30	C-041S-TP	30
42	2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	C-042N	55 / 5 mg	C-042S	30	C-042S-TP	30
43	2,2',3,5-Tetrachlorobiphenyl	70362-46-8	C-043N	55 / 5 mg	C-043S	30	C-043S-TP	30
44	2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	C-044N	60 / 25 mg	C-044S	15	C-044S-TP	15
45	2,2',3,6-Tetrachlorobiphenyl	70362-45-7	C-045N	75 / 5 mg	C-045S	30	C-045S-TP	30
46	2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	C-046N	55 / 5 mg	C-046S	30	C-046S-TP	30
47	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	C-047N	52 / 50 mg	C-047S	15	C-047S-TP	15
48	2,2',4,5-Tetrachlorobiphenyl	70362-47-9	C-048N	55 / 5 mg	C-048S	30	C-048S-TP	30
49	2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	C-049N	42 / 20 mg	C-049S	15	C-049S-TP	15
50	2,2',4,6-Tetrachlorobiphenyl	62796-65-0	C-050N	25 / 5 mg	C-050S	30	C-050S-TP	30
51	2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	C-051N	75 / 5 mg	C-051S	30	C-051S-TP	30
52	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	C-052N	22 / 10 mg	C-052S	15	C-052S-TP	15
53	2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	C-053N	32 / 25 mg	C-053S	15	C-053S-TP	15
54	2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	C-054N	60 / 50 mg	C-054S	15	C-054S-TP	15
55	2,3,3',4-Tetrachlorobiphenyl	74338-24-2	C-055N	55 / 5 mg	C-055S	30	C-055S-TP	30
56	2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	C-056N	55 / 5 mg	C-056S	30	C-056S-TP	30
57	2,3,3',5-Tetrachlorobiphenyl	70424-67-8	C-057N	75 / 5 mg	C-057S	30	C-057S-TP	30
58	2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	C-058N	55 / 5 mg	C-058S	30	C-058S-TP	30
59	2,3,3',6-Tetrachlorobiphenyl	74472-33-6	C-059N	125 / 5 mg	C-059S	30	C-059S-TP	30
60	2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	C-060N	30 / 5 mg	C-060S	30	C-060S-TP	30
61	2,3,4,5-Tetrachlorobiphenyl	33284-53-6	C-061N	38 / 50 mg	C-061S	15	C-061S-TP	15
62	2,3,4,6-Tetrachlorobiphenyl	54230-22-7	C-062N	55 / 5 mg	C-062S	30	C-062S-TP	30
63	2,3,4',5-Tetrachlorobiphenyl	74472-34-7	C-063N	75 / 5 mg	C-063S	30	C-063S-TP	30
64	2,3,4',6-Tetrachlorobiphenyl	52663-58-8	C-064N	105 / 5 mg	C-064S	30	C-064S-TP	30
65	2,3,5,6-Tetrachlorobiphenyl	33284-54-7	C-065N	35 / 25 mg	C-065S	15	C-065S-TP	15
66	2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	C-066N	55 / 20 mg	C-066S	30	C-066S-TP	30
67	2,3',4,5-Tetrachlorobiphenyl	73557-53-8	C-067N	75 / 5 mg	C-067S	30	C-067S-TP	30
68	2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	C-068N	55 / 5 mg	C-068S	30	C-068S-TP	30
69	2,3',4,6-Tetrachlorobiphenyl	60233-24-1	C-069N	55 / 5 mg	C-069S	30	C-069S-TP	30
70	2,3',4',5-Tetrachlorobiphenyl	32598-11-1	C-070N	23 / 10 mg	C-070S	15	C-070S-TP	15
71	2,3',4',6-Tetrachlorobiphenyl	41464-46-4	C-071N	55 / 5 mg	C-071S	30	C-071S-TP	30
72	2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	C-072N	30 / 25 mg	C-072S	15	C-072S-TP	15
73	2,3',5',6-Tetrachlorobiphenyl	74338-23-1	C-073N	75 / 5 mg	C-073S	30	C-073S-TP	30
74	2,4,4',5-Tetrachlorobiphenyl	32690-93-0	C-074N	75 / 5 mg	C-074S	30	C-074S-TP	30
75	2,4,4',6-Tetrachlorobiphenyl	32598-12-2	C-075N	55 / 5 mg	C-075S	30	C-075S-TP	30
76	2',3,4,5-Tetrachlorobiphenyl	70362-48-0	C-076N	55 / 5 mg	C-076S	30	C-076S-TP	30
77	3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	C-077N	28 / 25 mg	C-077S	15	C-077S-TP	15
78	3,3',4,5-Tetrachlorobiphenyl	70362-49-1	C-078N	55 / 5 mg	C-078S	30	C-078S-TP	30
79	3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	C-079N	55 / 5 mg	C-079S	30	C-079S-TP	30
80	3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	C-080N	45 / 5 mg	C-080S	30	C-080S-TP	30
81	3,4,4',5-Tetrachlorobiphenyl	70362-50-4	C-081N	55 / 5 mg	C-081S	30	C-081S-TP	30
82	2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	C-082N	55 / 5 mg	C-082S	30	C-082S-TP	30
83	2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	C-083N	55 / 5 mg	C-083S	30	C-083S-TP	30
84	2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	C-084N	55 / 5 mg	C-084S	30	C-084S-TP	30
85	2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	C-085N	55 / 5 mg	C-085S	30	C-085S-TP	30
86	2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	C-086N	55 / 5 mg	C-086S	30	C-086S-TP	30
87	2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	C-087N	47 / 10 mg	C-087S	30	C-087S-TP	30
88	2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	C-088N	55 / 5 mg	C-088S	30	C-088S-TP	30
89	2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	C-089N	55 / 5 mg	C-089S	30	C-089S-TP	30
90	2,2',3,4',5-Pentachlorobiphenyl	68194-07-0	C-090N	75 / 5 mg	C-090S	30	C-090S-TP	30
91	2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	C-091N	55 / 5 mg	C-091S	30	C-091S-TP	30
92	2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	C-092N	55 / 5 mg	C-092S	30	C-092S-TP	30
93	2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	C-093N	55 / 5 mg	C-093S	30	C-093S-TP	30
94	2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	C-094N	100 / 5 mg	C-094S	30	C-094S-TP	30
95	2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	C-095N	55 / 5 mg	C-095S	30	C-095S-TP	30
96	2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	C-096N	55 / 5 mg	C-096S	30	C-096S-TP	30
97	2,2',3',4,5-Pentachlorobiphenyl	41464-51-1	C-097N	46 / 10 mg	C-097S	30	C-097S-TP	30
98	2,2',3',4,6-Pentachlorobiphenyl	60233-25-2	C-098N	55 / 5 mg	C-098S	30	C-098S-TP	30
99	2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	C-099N	55 / 5 mg	C-099S	30	C-099S-TP	30
100	2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	C-100N	55 / 5 mg	C-100S	30	C-100S-TP	30
101	2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	C-101N	32 / 10 mg	C-101S	30	C-101S-TP	30
102	2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	C-102N	55 / 5 mg	C-102S	30	C-102S-TP	30
103	2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	C-103N	45 / 10 mg	C-103S	30	C-103S-TP	30
104	2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	C-104N	50 / 5 mg	C-104S	30	C-104S-TP	30
105	2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	C-105N	55 / 5 mg	C-105S	30	C-105S-TP	30
106	2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	C-106N	55 / 5 mg	C-106S	30	C-106S-TP	30

Chlorobiphenyl Congeners (PCBs) continued on next page

Chlorobiphenyl Congeners (PCBs)

Purity 99+%

Solutions in Isooctane

Chlorobiphenyl Congeners (PCBs)

No.	Compound	CAS No.	Neat Cat. No.	Price / Unit	35 µg/mL Cat. No.	1 mL Price	100 µg/mL Cat. No.	1 mL Price
107	2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	C-107N	$ 55 / 5 mg	C-107S	$ 30	C-107S-TP	$ 30
108	2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	C-108N	55 / 5 mg	C-108S	30	C-108S-TP	30
109	2,3,3',4,6-Pentachlorobiphenyl	74472-35-8	C-109N	105 / 5 mg	C-109S	30	C-109S-TP	30
110	2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	C-110N	55 / 5 mg	C-110S	30	C-110S-TP	30
111	2,3,3',5,5'-Pentachlorobiphenyl	39635-32-0	C-111N	105 / 5 mg	C-111S	30	C-111S-TP	30
112	2,3,3',5,6-Pentachlorobiphenyl	74472-36-9	C-112N	55 / 5 mg	C-112S	30	C-112S-TP	30
113	2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	C-113N	105 / 5 mg	C-113S	30	C-113S-TP	30
114	2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	C-114N	55 / 5 mg	C-114S	30	C-114S-TP	30
115	2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	C-115N	45 / 5 mg	C-115S	30	C-115S-TP	30
116	2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	C-116N	26 / 10 mg	C-116S	30	C-116S-TP	30
117	2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	C-117N	55 / 5 mg	C-117S	30	C-117S-TP	30
118	2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	C-118N	50 / 5 mg	C-118S	30	C-118S-TP	30
119	2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	C-119N	50 / 5 mg	C-119S	30	C-119S-TP	30
120	2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	C-120N	55 / 5 mg	C-120S	30	C-120S-TP	30
121	2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	C-121N	46 / 5 mg	C-121S	30	C-121S-TP	30
122	2',3,3',4,5-Pentachlorobiphenyl	76842-07-4	C-122N	55 / 5 mg	C-122S	30	C-122S-TP	30
123	2',3,4,4',5-Pentachlorobiphenyl	65510-44-3	C-123N	55 / 5 mg	C-123S	30	C-123S-TP	30
124	2',3,4,5,5'-Pentachlorobiphenyl	70424-70-3	C-124N	55 / 5 mg	C-124S	30	C-124S-TP	30
125	2',3,4,5,6'-Pentachlorobiphenyl	74472-39-2	C-125N	55 / 5 mg	C-125S	30	C-125S-TP	30
126	3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	C-126N	55 / 5 mg	C-126S	30	C-126S-TP	30
127	3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	C-127N	55 / 5 mg	C-127S	30	C-127S-TP	30
128	2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	C-128N	60 / 20 mg	C-128S	15	C-128S-TP	15
129	2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	C-129N	55 / 5 mg	C-129S	30	C-129S-TP	30
130	2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	C-130N	55 / 5 mg	C-130S	30	C-130S-TP	30
131	2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	C-131N	55 / 5 mg	C-131S	30	C-131S-TP	30
132	2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	C-132N	55 / 5 mg	C-132S	30	C-132S-TP	30
133	2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	C-133N	55 / 5 mg	C-133S	30	C-133S-TP	30
134	2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	C-134N	55 / 5 mg	C-134S	30	C-134S-TP	30
135	2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	C-135N	105 / 5 mg	C-135S	30	C-135S-TP	30
136	2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	C-136N	60 / 20 mg	C-136S	30	C-136S-TP	30
137	2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	C-137N	50 / 5 mg	C-137S	30	C-137S-TP	30
138	2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	C-138N	50 / 5 mg	C-138S	30	C-138S-TP	30
139	2,2',3,4,4',6-Hexachlorobiphenyl	56030-56-9	C-139N	75 / 5 mg	C-139S	30	C-139S-TP	30
140	2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	C-140N	55 / 5 mg	C-140S	30	C-140S-TP	30
141	2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	C-141N	50 / 5 mg	C-141S	30	C-141S-TP	30
142	2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	C-142N	105 / 5 mg	C-142S	30	C-142S-TP	30
143	2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	C-143N	50 / 5 mg	C-143S	30	C-143S-TP	30
144	2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	C-144N	105 / 5 mg	C-144S	30	C-144S-TP	30
145	2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	C-145N	55 / 5 mg	C-145S	30	C-145S-TP	30
146	2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	C-146N	175 / 5 mg	C-146S	30	C-146S-TP	30
147	2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	C-147N	55 / 5 mg	C-147S	30	C-147S-TP	30
148	2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	C-148N	75 / 5 mg	C-148S	30	C-148S-TP	30
149	2,2',3,4',5',6-Hexachlorobiphenyl	38380-04-0	C-149N	76 / 5 mg	C-149S	30	C-149S-TP	30
150	2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	C-150N	55 / 5 mg	C-150S	30	C-150S-TP	30
151	2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	C-151N	50 / 5 mg	C-151S	30	C-151S-TP	30
152	2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	C-152N	55 / 5 mg	C-152S	30	C-152S-TP	30
153	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	C-153N	43 / 10 mg	C-153S	15	C-153S-TP	15
154	2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	C-154N	50 / 5 mg	C-154S	30	C-154S-TP	30
155	2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	C-155N	60 / 50 mg	C-155S	15	C-155S-TP	15
156	2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	C-156N	50 / 5 mg	C-156S	30	C-156S-TP	30
157	2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	C-157N	55 / 5 mg	C-157S	30	C-157S-TP	30
158	2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	C-158N	55 / 5 mg	C-158S	30	C-158S-TP	30
159	2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	C-159N	75 / 5 mg	C-159S	30	C-159S-TP	30
160	2,3,3',4,5,6-Hexachlorobiphenyl	41411-62-5	C-160N	75 / 5 mg	C-160S	30	C-160S-TP	30
161	2,3,3',4,5',6-Hexachlorobiphenyl	74474-43-8	C-161N	55 / 5 mg	C-161S	30	C-161S-TP	30
162	2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	C-162N	75 / 5 mg	C-162S	30	C-162S-TP	30
163	2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	C-163N	55 / 5 mg	C-163S	30	C-163S-TP	30
164	2,3,3',4',5',6-Hexachlorobiphenyl	74472-45-0	C-164N	55 / 5 mg	C-164S	30	C-164S-TP	30
165	2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	C-165N	55 / 5 mg	C-165S	30	C-165S-TP	30
166	2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	C-166N	55 / 5 mg	C-166S	30	C-166S-TP	30
167	2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	C-167N	47 / 5 mg	C-167S	30	C-167S-TP	30
168	2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	C-168N	55 / 5 mg	C-168S	30	C-168S-TP	30
169	3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	C-169N	45 / 5 mg	C-169S	30	C-169S-TP	30

Other solvents, concentrations and quantities are available upon request.

Chlorobiphenyl Congeners (PCBs)

Purity 99+%

Solutions in Isooctane

Chlorobiphenyl Congeners (PCBs)

No.	Compound	CAS No.	Neat Cat. No.	Price / Unit	35 µg/mL Cat. No.	1 mL Price	100 µg/mL Cat. No.	1 mL Price
170	2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	C-170N	$ 55 / 5 mg	C-170S	$ 30	C-170S-TP	$ 30
171	2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	C-171N	55 / 5 mg	C-171S	30	C-171S-TP	30
172	2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	C-172N	75 / 5 mg	C-172S	30	C-172S-TP	30
173	2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	C-173N	150 / 5 mg	C-173S	30	C-173S-TP	30
174	2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	C-174N	55 / 5 mg	C-174S	30	C-174S-TP	30
175	2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	C-175N	75 / 5 mg	C-175S	30	C-175S-TP	30
176	2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	C-176N	55 / 5 mg	C-176S	30	C-176S-TP	30
177	2,2',3,3',4',5,6-Heptachlorobiphenyl	52663-70-4	C-177N	55 / 5 mg	C-177S	30	C-177S-TP	30
178	2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	C-178N	75 / 5 mg	C-178S	30	C-178S-TP	30
179	2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	C-179N	55 / 5 mg	C-179S	30	C-179S-TP	30
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	C-180N	45 / 5 mg	C-180S	30	C-180S-TP	30
181	2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	C-181N	55 / 5 mg	C-181S	30	C-181S-TP	30
182	2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	C-182N	40 / 5 mg	C-182S	30	C-182S-TP	30
183	2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	C-183N	55 / 5 mg	C-183S	30	C-183S-TP	30
184	2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	C-184N	55 / 5 mg	C-184S	30	C-184S-TP	30
185	2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	C-185N	55 / 5 mg	C-185S	30	C-185S-TP	30
186	2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	C-186N	50 / 5 mg	C-186S	30	C-186S-TP	30
187	2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	C-187N	55 / 5 mg	C-187S	30	C-187S-TP	30
188	2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	C-188N	50 / 5 mg	C-188S	30	C-188S-TP	30
189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	C-189N	55 / 5 mg	C-189S	30	C-189S-TP	30
190	2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	C-190N	55 / 5 mg	C-190S	30	C-190S-TP	30
191	2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	C-191N	75 / 5 mg	C-191S	30	C-191S-TP	30
192	2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	C-192N	75 / 5 mg	C-192S	30	C-192S-TP	30
193	2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	C-193N	55 / 5 mg	C-193S	30	C-193S-TP	30
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	C-194N	50 / 5 mg	C-194S	30	C-194S-TP	30
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	C-195N	55 / 5 mg	C-195S	30	C-195S-TP	30
196	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	C-196N	75 / 5 mg	C-196S	30	C-196S-TP	30
197	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	C-197N	75 / 5 mg	C-197S	30	C-197S-TP	30
198	2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	C-198N	75 / 5 mg	C-198S	30	C-198S-TP	30
199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	C-199N-R1	55 / 5 mg	C-199S-R1	30	C-199S-TP-R1	30
200	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	C-200N-R1	105 / 5 mg	C-200S-R1	30	C-200S-TP-R1	30
201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	C-201N-R1	65 / 5 mg	C-201S-R1	30	C-201S-TP-R1	30
202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	C-202N	50 / 5 mg	C-202S	30	C-202S-TP	30
203	2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	C-203N	55 / 5 mg	C-203S	30	C-203S-TP	30
204	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	C-204N	55 / 5 mg	C-204S	30	C-204S-TP	30
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	C-205N	55 / 5 mg	C-205S	30	C-205S-TP	30
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	C-206N	64 / 5 mg	C-206S	30	C-206S-TP	30
207	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	C-207N	50 / 5 mg	C-207S	30	C-207S-TP	30
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	C-208N	50 / 5 mg	C-208S	30	C-208S-TP	30
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	C-209N	12 / 10 mg	C-209S	15	C-209S-TP	15

Technical Note

The PCB congener numbering system is now being used. The only changes from the BZ numbering system affect congeners #199 (formerly BZ#201), #200 (formerly BZ#199) and #201 (formerly BZ#200).

Saving

Significant discounts are available on larger quantities of selected congeners.

Have PCB Questions?

AccuStandard chemists have been involved in the synthesis of PCBs and related compounds for over 35 years. Our experience and expertise in this area can help you solve related analytical problems. We are the only company to synthesize all 209 congeners.

Mixtures for Congener Specific PCB Analysis

Method 1668 Congener Set of 209 Clorinated Biphenyl Congeners by HRGC/HRMS

Complete set of congener specific determination of all 209 chlorinated biphenyl congeners for calibration on a SPB-Octyl capillary column

Set continued on Next Page

M-1668A-0.01X-SET — **$ 700 / 5 x 1 mL (M-1668A-1-0.01X, M-1668A-2-0.01X, M-1668A-3-0.01X, M-1668A-4-0.01X, M-1668A-5-0.01X)**

PCB Congener Mix #1

M-1668A-1-0.01X — **1 x 1 mL**

At stated conc. in Isooctane — 83 comps.

3-Chlorobiphenyl	(2.5 µg/mL)	2,3',4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,6-Dichlorobiphenyl	(2.5 µg/mL)	2',3,4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,5-Dichlorobiphenyl	(2.5 µg/mL)	2,3,3',4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3'-Dichlorobiphenyl	(2.5 µg/mL)	2',3,3',4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,4'-Dichlorobiphenyl	(2.5 µg/mL)	2,3,3',4,4'-Pentachlorobiphenyl	(5.0 µg/mL)
3,5-Dichlorobiphenyl	(2.5 µg/mL)	3,3',4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
3,3'-Dichlorobiphenyl	(2.5 µg/mL)	2,2',3,5,6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4,6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,3',6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4',5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4',6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,5,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2',3,5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4',5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2',3,4-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,3',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
3,3',5-Trichlorobiphenyl	(2.5 µg/mL)	2,3,3',4,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
3,4,5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',4,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
3,3',4-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,3',4,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',4,6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,4,4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',5,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',4,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3',4,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4,4',6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',5,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,3',5,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,3',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,4',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3',4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',5',6-Heptachlorobiphenyl	(5.0 µg/mL)
3,3',4,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
3,3',4,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',6-Heptachlorobiphenyl	(5.0 µg/mL)
3,4,4',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,5'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,6,6'-Pentachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',4,5',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,6'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,3,3',5',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,5',6-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,3',5-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5',6-Octachlorobiphenyl	(7.5 µg/mL)
2,3',4,4',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,6-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,5'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,4'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	(7.5 µg/mL)
2,2',3,3',4-Pentachlorobiphenyl	(5.0 µg/mL)		

PCB Congener Mix #2

M-1668A-2-0.01X — **1 x 1 mL**

At stated conc. in Isooctane — 54 comps.

2,4-Dichlorobiphenyl	(2.5 µg/mL)
2,3-Dichlorobiphenyl	(2.5 µg/mL)
3,4-Dichlorobiphenyl	(2.5 µg/mL)
2,2',5-Trichlorobiphenyl	(2.5 µg/mL)
2,3,6-Trichlorobiphenyl	(2.5 µg/mL)
2,3,5-Trichlorobiphenyl	(2.5 µg/mL)
2,4,4'-Trichlorobiphenyl	(2.5 µg/mL)
2,3,4'-Trichlorobiphenyl	(2.5 µg/mL)
3,4',5-Trichlorobiphenyl	(2.5 µg/mL)
2,2',5,6'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,6'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',5',6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,5-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4,6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',4',6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',4,5'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,3',5'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4,5-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,3',4-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',3,5,6'-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',4,4',6-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',6-Pentachlorobiphenyl	(5.0 µg/mL)
2,3',4,5',6-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,6-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,4',5,6-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,3',4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',5,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',4,4',5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',5-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,4'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,5,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,4',5,5',6-Octachlorobiphenyl	(7.5 µg/mL)

PCB Congener Mix #3

M-1668A-3-0.01X — **1 x 1 mL**

At stated conc. in Isooctane — 29 comps.

3,4'-Dichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',4-Trichlorobiphenyl	(2.5 µg/mL)	2,3,4,5,6-Pentachlorobiphenyl	(5.0 µg/mL)
2,4,5-Trichlorobiphenyl	(2.5 µg/mL)	2,3,3',4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3'-Trichlorobiphenyl	(2.5 µg/mL)	2,2',4,4',5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,6'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,5,6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',4,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2',3,4,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',6-Hexachlorobiphenyl	(5.0 µg/mL)
3,3',5,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',5,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5,6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)	2,3,3',4',5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,3',5,6-Pentachlorobiphenyl	(5.0 µg/mL)		

Method 1668 (continued) Set of 209 Congeners by HRGC/HRMS

PCB Congener Mix #4

M-1668A-4-0.01X **1 x 1 mL**
At stated conc. in Isooctane 15 comps.

2,3',4-Trichlorobiphenyl	(2.5 µg/mL)
2,3,4-Trichlorobiphenyl	(2.5 µg/mL)
2,3',4,6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',3,4'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4',6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',4',5-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,5,6'-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3',4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,4,4',6-Pentachlorobiphenyl	(5.0 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(5.0 µg/mL)

PCB Congener Mix #5

M-1668A-5-0.01X **1 x 1 mL**
At stated conc. in Isooctane 28 comps.

2-Chlorobiphenyl	(2.5 µg/mL)	2,2',3',4,6-Pentachlorobiphenyl	(5.0 µg/mL)
4-Chlorobiphenyl	(2.5 µg/mL)	2',3,4,5,6'-Pentachlorobiphenyl	(5.0 µg/mL)
2,2'-Dichlorobiphenyl	(2.5 µg/mL)	2,3,3',4',6-Pentachlorobiphenyl	(5.0 µg/mL)
4,4'-Dichlorobiphenyl	(2.5 µg/mL)	3,3',4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',4,4',6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,4',5'-Hexachlorobiphenyl	(5.0 µg/mL)
3,4,4'-Trichlorobiphenyl	(2.5 µg/mL)	3,3',4,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',6,6'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4',5,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,5'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,4,4',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,5',6-Octachlorobiphenyl	(7.5 µg/mL)
2,3,3',4'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	(7.5 µg/mL)
3,3',4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(7.5 µg/mL)
2,2',4,6,6'-Pentachlorobiphenyl	(5.0 µg/mL)	Decachlorobiphenyl	(7.5 µg/mL)

Method 1668A/1668 Combined Congener Standards

M-1668A-C-NT-LOC-WD **$ 150 / 1 x 1 mL**
M-1668A-C-NT-LOC-WD-PAK ***SAVE 20%*** **$ 600 / 5 x 1 mL**
20 µg/mL each in Isooctane 33 comps.

2-Chlorobiphenyl	2,2',4,4',6,6'-Hexachlorobiphenyl
4-Chlorobiphenyl	2,3,3',4,4',5-Hexachlorobiphenyl
2,2'-Dichlorobiphenyl	2,3,3',4,4',5'-Hexachlorobiphenyl
4,4'-Dichlorobiphenyl	2,3',4,4',5,5'-Hexachlorobiphenyl
2,2',6-Trichlorobiphenyl	3,3',4,4',5,5'-Hexachlorobiphenyl
2,3,5-Trichlorobiphenyl	2,2',3,3',4,4',5-Heptachlorobiphenyl
2',3,5-Trichlorobiphenyl	2,2',3,4,4',5,5'-Heptachlorobiphenyl
3,4,4'-Trichlorobiphenyl	2,2',3,4,4',5,6'-Heptachlorobiphenyl
2,2',6,6'-Tetrachlorobiphenyl	2,2',3,4',5,5',6-Heptachlorobiphenyl
3,3',4,4'-Tetrachlorobiphenyl	2,2',3,4',5,6,6'-Heptachlorobiphenyl
3,4,4',5-Tetrachlorobiphenyl	2,3,3',4,4',5,5'-Heptachlorobiphenyl
2,2',4,6,6'-Pentachlorobiphenyl	2,2',3,3',5,5',6,6'-Octachlorobiphenyl
2,3,3',4,4'-Pentachlorobiphenyl	2,3,3',4,4',5,5',6-Octachlorobiphenyl
2,3,4,4',5-Pentachlorobiphenyl	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl
2',3,4,4',5-Pentachlorobiphenyl	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
3,3',4,4',5-Pentachlorobiphenyl	

GPC Calibration Solution

CLP-027-R2-WL-10ML **$ 25 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 5 comps.

Corn Oil	(25 mg/mL)
bis(2-Ethylhexyl)phthalate	(0.5 mg/mL)
Methoxychlor	(0.1 mg/mL)
Perylene	(0.02 mg/mL)
Sulfur	(0.08 mg/mL)

Level of Chlorination Calibration/Spike Set

Determination of Chlorobiphenyl content at each level of chlorination

Calibration/Spike Set

M-1668A-LOC-SET **$ 150 / 2 x 1 mL (M-1668A-NAT, M-1668A-PAR)**

Native PCB Calibration Mix

M-1668A-NAT **1 x 1 mL**
At stated conc. in Isooctane 19 comps.

4-Chlorobiphenyl	(5 µg/mL)
4,4'-Dichlorobiphenyl	(5 µg/mL)
2,4,4'-Trichlorobiphenyl	(5 µg/mL)
3,3',4,4'-Tetrachlorobiphenyl	(1 µg/mL)
2,3,3',4,4'-Pentachlorobiphenyl	(5 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(5 µg/mL)
2,3',4,4',5-Pentachlorobiphenyl	(5 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(5 µg/mL)
3,3',4,4',5-Pentachlorobiphenyl	(5 µg/mL)
2,3,3',4,4',5-Hexachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(10 µg/mL)
2,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
3,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5-Heptachlorobiphenyl	(10 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(20 µg/mL)

PAR PCB Spike Mix

M-1668A-PAR **1 x 1 mL**
At stated conc. in Isooctane 19 comps.

4-Chlorobiphenyl	(10 µg/mL)
4,4'-Dichlorobiphenyl	(10 µg/mL)
2,4,4'-Trichlorobiphenyl	(10 µg/mL)
3,3',4,4'-Tetrachlorobiphenyl	(0.2 µg/mL)
2,3,3',4,4'-Pentachlorobiphenyl	(10 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(10 µg/mL)
2,3',4,4',5-Pentachlorobiphenyl	(10 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(10 µg/mL)
3,3',4,4',5-Pentachlorobiphenyl	(1 µg/mL)
2,3,3',4,4',5-Hexachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(10 µg/mL)
2,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
3,3',4,4',5,5'-Hexachlorobiphenyl	(2 µg/mL)
2,2',3,3',4,4',5-Heptachlorobiphenyl	(2 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5,5'-Heptachlorobiphenyl	(2 µg/mL)
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(20 µg/mL)

Congener Specific PCB Analysis

Canadian Methods

A second set of four formulations has been selected by the Institute for Biological Sciences of Canada and can be purchased individually or as a complete set (C-CAN-SET). The concentration levels for these formulations are selected so that 1 mL of standard diluted into 100 mL will show equal response by ECD.

PCB Congener (Canadian RM) Set

C-CAN-SET — **$ 150 / 4 x 1 mL** (set includes **C-CAN-01, C-CAN-02, C-CAN-03, C-CAN-04**)

PCB Congeners Mix #1

C-CAN-01 — **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane — 14 comps.

No.		
18	2,2',5-Trichlorobiphenyl	(11.8 µg/mL)
31	2,4',5-Trichlorobiphenyl	(6.6 µg/mL)
40	2,2',3,3'-Tetrachlorobiphenyl	(4.9 µg/mL)
44	2,2',3,5'-Tetrachlorobiphenyl	(5.9 µg/mL)
49	2,2',4,5'-Tetrachlorobiphenyl	(7.6 µg/mL)
54	2,2',6,6'-Tetrachlorobiphenyl	(16.6 µg/mL)
77	3,3',4,4'-Tetrachlorobiphenyl	(5.5 µg/mL)
86	2,2',3,4,5-Pentachlorobiphenyl	(2.9 µg/mL)
87	2,2',3,4,5'-Pentachlorobiphenyl	(3.8 µg/mL)
121	2,3',4,5',6-Pentachlorobiphenyl	(3.1 µg/mL)
153	2,2',4,4',5,5'-Hexachlorobiphenyl	(2.1 µg/mL)
156	2,3,3',4,4',5-Hexachlorobiphenyl	(1.5 µg/mL)
159	2,3,3',4,5,5'-Hexachlorobiphenyl	(1.2 µg/mL)
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(1.7 µg/mL)

PCB Congeners Mix #2

C-CAN-02 — **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane — 15 comps.

No.		
15	4,4'-Dichlorobiphenyl	(91.9 µg/mL)
52	2,2',5,5'-Tetrachlorobiphenyl	(15.2 µg/mL)
60	2,3,4,4'-Tetrachlorobiphenyl	(3.9 µg/mL)
103	2,2',4,5',6-Pentachlorobiphenyl	(10.8 µg/mL)
105	2,3,3',4,4'-Pentachlorobiphenyl	(4 µg/mL)
128	2,2',3,3',4,4'-Hexachlorobiphenyl	(4.9 µg/mL)
143	2,2',3,4,5,6'-Hexachlorobiphenyl	(5.7 µg/mL)
154	2,2',4,4',5,6'-Hexachlorobiphenyl	(6.2 µg/mL)
173	2,2',3,3',4,5,6-Heptachlorobiphenyl	(2.3 µg/mL)
182	2,2',3,4,4',5,6'-Heptachlorobiphenyl	(3.8 µg/mL)
202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	(3.6 µg/mL)
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	(3.2 µg/mL)
207	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	(3.8 µg/mL)
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	(2.4 µg/mL)
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(2.8 µg/mL)

PCB Congeners Mix #3

C-CAN-03 — **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane — 15 comps.

No.		
15	4,4'-Dichlorobiphenyl	(138.1 µg/mL)
114	2,3,4,4',5-Pentachlorobiphenyl	(6.3 µg/mL)
129	2,2',3,3',4,5-Hexachlorobiphenyl	(8.3 µg/mL)
137	2,2',3,4,4',5-Hexachlorobiphenyl	(7.4 µg/mL)
153	2,2',4,4',5,5'-Hexachlorobiphenyl	(7.3 µg/mL)
171	2,2',3,3',4,4',6-Heptachlorobiphenyl	(5.2 µg/mL)
183	2,2',3,4,4',5',6-Heptachlorobiphenyl	(6.6 µg/mL)
185	2,2',3,4,5,5',6-Heptachlorobiphenyl	(3.5 µg/mL)
189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	(4.7 µg/mL)
191	2,3,3',4,4',5',6-Heptachlorobiphenyl	(5 µg/mL)
201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	(7 µg/mL)
199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	(4.8 µg/mL)
203	2,2',3,4,4',5,5',6-Octachlorobiphenyl	(5.1 µg/mL)
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(6.7 µg/mL)
209	Decachlorobiphenyl	(5.1 µg/mL)

PCB Congeners Mix #4

C-CAN-04 — **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane — 15 comps.

No.		
14	4,4'-Dichlorobiphenyl	(76.7 µg/mL)
101	2,2',4,5,5'-Pentachlorobiphenyl	(8.9 µg/mL)
118	2,3',4,4',5-Pentachlorobiphenyl	(3.9 µg/mL)
138	2,2',3,4,4',5'-Hexachlorobiphenyl	(4.2 µg/mL)
141	2,2',3,4,5,5'-Hexachlorobiphenyl	(2.8 µg/mL)
151	2,2',3,5,5',6-Hexachlorobiphenyl	(5 µg/mL)
153	2,2',4,4',5,5'-Hexachlorobiphenyl	(3.3 µg/mL)
170	2,2',3,3',4,4',5-Heptachlorobiphenyl	(3 µg/mL)
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	(2.8 µg/mL)
187	2,2',3,4',5,5',6-Heptachlorobiphenyl	(3.2 µg/mL)
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(2.4 µg/mL)
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	(2.6 µg/mL)
196	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	(3.3 µg/mL)
199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	(3.6 µg/mL)
209	Decachlorobiphenyl	(2.7 µg/mL)

Quebec Ministry of Environment Congener Mix

C-QME-01 — **$ 125 / 1 x 1 mL**

At stated conc. in Isooctane — 41 comps.

No.		
17	2,2',4-Trichlorobiphenyl	(500 ng/mL)
18	2,2',5-Trichlorobiphenyl	(2000 ng/mL)
28	2,4,4'-Trichlorobiphenyl	(2000 ng/mL)
31	2,4',5-Trichlorobiphenyl	(1500 ng/mL)
33	2',3,4-Trichlorobiphenyl	(2000 ng/mL)
44	2,2',3,5'-Tetrachlorobiphenyl	(2000 ng/mL)
49	2,2',4,5'-Tetrachlorobiphenyl	(2000 ng/mL)
52	2,2',5,5'-Tetrachlorobiphenyl	(2000 ng/mL)
70	2,3',4',5-Tetrachlorobiphenyl	(2000 ng/mL)
74	2,4,4',5-Tetrachlorobiphenyl	(2000 ng/mL)
82	2,2',3,3',4-Pentachlorobiphenyl	(500 ng/mL)
87	2,2',3,4,5'-Pentachlorobiphenyl	(2000 ng/mL)
95	2,2',3,5',6-Pentachlorobiphenyl	(1000 ng/mL)
99	2,2',4,4',5-Pentachlorobiphenyl	(2000 ng/mL)
101	2,2',4,5,5'-Pentachlorobiphenyl	(2000 ng/mL)
105	2,3,3',4,4'-Pentachlorobiphenyl	(500 ng/mL)
110	2,3,3',4',6-Pentachlorobiphenyl	(2000 ng/mL)
118	2,3',4,4',5-Pentachlorobiphenyl	(2000 ng/mL)
128	2,2',3,3',4,4'-Hexachlorobiphenyl	(2000 ng/mL)
132	2,2',3,3',4,6'-Hexachlorobiphenyl	(1000 ng/mL)
138	2,2',3,4,4',5'-Hexachlorobiphenyl	(2000 ng/mL)
149	2,2',3,4',5',6-Hexachlorobiphenyl	(2000 ng/mL)
151	2,2',3,5,5',6-Hexachlorobiphenyl	(2000 ng/mL)
153	2,2',4,4',5,5'-Hexachlorobiphenyl	(2000 ng/mL)
156	2,3,3',4,4',5-Hexachlorobiphenyl	(2000 ng/mL)
158	2,3,3',4,4',6-Hexachlorobiphenyl	(500 ng/mL)
169	3,3',4,4',5,5'-Hexachlorobiphenyl	(2000 ng/mL)
170	2,2',3,3',4,4',5-Heptachlorobiphenyl	(2000 ng/mL)
171	2,2',3,3',4,4',6-Heptachlorobiphenyl	(2000 ng/mL)
177	2,2',3,3',4',5,6-Heptachlorobiphenyl	(2000 ng/mL)
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	(2000 ng/mL)
183	2,2',3,4,4',5',6-Heptachlorobiphenyl	(2000 ng/mL)
187	2,2',3,4',5,5',6-Heptachlorobiphenyl	(2000 ng/mL)
191	2,3,3',4,4',5',6-Heptachlorobiphenyl	(2000 ng/mL)
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(2000 ng/mL)
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	(2000 ng/mL)
199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	(1500 ng/mL)
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	(2000 ng/mL)
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(2000 ng/mL)
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	(2000 ng/mL)
209	Decachlorobiphenyl	(2000 ng/mL)

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Congener Specific PCB Analysis

Integrated Atmospheric Deposition Network (IADN)

The Integrated Atmospheric Deposition Network is composed of five agencies: the US EPA, Environment Canada's (EC) Metrological Service of Canada, EC's National Water Research Institute (NWRI), EC's Ecosystem Health Division of Ontario Region (EHD), and the Ontario Ministry of Environment (OME) whose goal it is to cooperatively implement the Great Lakes Water Quality Agreement.

This agreement requires certain chemicals to be monitored. The tier 1 group specifically called for the measurement of PCB congeners. AccuStandard was requested to develop a set of IADN PCB congener standards to meet this specific chemical list.

IADN Congener Set

C-IADN-SET **$ 500 / 3 x 1 mL** (C-IADN-01, C-IADN-02, C-IADN-03)

IADN Congener Standard #1

C-IADN-01 **1 x 1 mL**

30 µg/mL each in Isooctane 28 comps.

2,2'-Dichlorobiphenyl
2,4-Dichlorobiphenyl
2,6-Dichlorobiphenyl
4,4'-Dichlorobiphenyl
2,2',5-Trichlorobiphenyl
2,4,4'-Trichlorobiphenyl
2,4',6-Trichlorobiphenyl
2,2',3,4-Tetrachlorobiphenyl
2,2',3,6-Tetrachlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl
2,3,3',4'-Tetrachlorobiphenyl
2,3',4,4'-Tetrachlorobiphenyl
2,4,4',5-Tetrachlorobiphenyl
3,4,4',5-Tetrachlorobiphenyl
2,2',3,4,4'-Pentachlorobiphenyl
2,2',3,4',6-Pentachlorobiphenyl
2,2',3',4,5-Pentachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl
2,3,4,4',5-Pentachlorobiphenyl
2',3,4,4',5-Pentachlorobiphenyl
2,2',3,3',4,6-Hexachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
2,3',4,4',5,5'-Hexachlorobiphenyl
2,2',3,3',4,4',6-Heptachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,2',3,3',4,5,6,6'-Octachlorobiphenyl
2,3,3',4,4',5,5',6-Octachlorobiphenyl

IADN Congener Standard #2

C-IADN-02 **1 x 1 mL**

30 µg/mL each in Isooctane 28 comps.

2,3-Dichlorobiphenyl
2,4'-Dichlorobiphenyl
3,4-Dichlorobiphenyl
2,2',3-Trichlorobiphenyl
2,2',6-Trichlorobiphenyl
2,3',5-Trichlorobiphenyl
2',3,4-Trichlorobiphenyl
2,2',3,4'-Tetrachlorobiphenyl
2,2',4,4'-Tetrachlorobiphenyl
2,2',4,5'-Tetrachlorobiphenyl
2,3,4,4'-Tetrachlorobiphenyl
2,3',4',5-Tetrachlorobiphenyl
2',3,4,5-Tetrachlorobiphenyl
2,2',3,3',5-Pentachlorobiphenyl
2,2',3,4,5'-Pentachlorobiphenyl
2,2',3,5,5'-Pentachlorobiphenyl
2,2',4,4',5-Pentachlorobiphenyl
2,3,3',4,4'-Pentachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl
3,3',4,4',5-Pentachlorobiphenyl
2,2',3,3',4,6'-Hexachlorobiphenyl
2,2',3,4,5',6-Hexachlorobiphenyl
2,3,3',4,4',5-Hexachlorobiphenyl
3,3',4,4',5,5'-Hexachlorobiphenyl
2,2',3,3',4,5,5'-Heptachlorobiphenyl
2,3,3',4,4',5,6-Heptachlorobiphenyl
2,2',3,3',4,5,5',6'-Octachlorobiphenyl
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl

IADN Congener Standard #3

C-IADN-03 **1 x 1 mL**

30 µg/mL each in Isooctane 28 comps.

2,3'-Dichlorobiphenyl
2,5-Dichlorobiphenyl
3,4'-Dichlorobiphenyl
2,2',4-Trichlorobiphenyl
2,3,4'-Trichlorobiphenyl
2,4',5-Trichlorobiphenyl
3,4,4'-Trichlorobiphenyl
2,2',3,5'-Tetrachlorobiphenyl
2,2',4,5-Tetrachlorobiphenyl
2,2',5,6'-Tetrachlorobiphenyl
2,3,4',6-Tetrachlorobiphenyl
2,3',4',6-Tetrachlorobiphenyl
3,3',4,4'-Tetrachlorobiphenyl
2,2',3,3',6-Pentachlorobiphenyl
2,2',3,4,6'-Pentachlorobiphenyl
2,2',3,5',6-Pentachlorobiphenyl
2,2',4,4',6-Pentachlorobiphenyl
2,3,3',4',6-Pentachlorobiphenyl
2,3',4,4',6-Pentachlorobiphenyl
2,2',3,3',4,4'-Hexachlorobiphenyl
2,2',3,3',5,6'-Hexachlorobiphenyl
2,2',3,4',5',6-Hexachlorobiphenyl
2,3,3',4',5,6-Hexachlorobiphenyl
2,2',3,3',4,4',5-Heptachlorobiphenyl
2,2',3,3',4,5,6'-Heptachlorobiphenyl
2,2',3,3',4,4',5,5'-Octachlorobiphenyl
2,2',3,3',5,5',6,6'-Octachlorobiphenyl
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl

PCB Congener Content Evaluation

These Congener Calibration mixes have been formulated to meet the proposed International standard titled "Insulating Liquids - Contamination by PCBs - Method of Determination by Capillary Column Gas Chromatography".

Mix #1

AE-00059 **$ 25 / 1 x 1 mL**
AE-00059-10ML **$ 95 / 1 x 10 mL**
10 µg/mL each in Isooctane 6 comps.

No.	
28	2,4,4'-Trichlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl
138	2,2',3,4,4',5'-Hexachlorobiphenyl
153	2,2',4,4',5,5'-Hexachlorobiphenyl
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl

Mix #2

AE-00060 **$ 25 / 1 x 1 mL**
AE-00060-10ML **$ 95 / 1 x 10 mL**
10 µg/mL each in Isooctane 3 comps.

No.	
77	3,3',4,4'-Tetrachlorobiphenyl
126	3,3',4,4',5-Pentachlorobiphenyl
169	3,3',4,4',5,5'-Hexachlorobiphenyl

Congener Calibration Mix

AE-00061 **$ 45 / 1 x 1 mL**
AE-00061-10ML **$ 210 / 1 x 10 mL**
10 µg/mL each in Isooctane 14 comps.

No.	
18	2,2',5-Trichlorobiphenyl
28	2,4,4'-Trichlorobiphenyl
31	2,4',5-Trichlorobiphenyl
44	2,2',3,5'-Tetrachlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl
118	2,3',4,4',5-Pentachlorobiphenyl
138	2,2',3,4,4',5'-Hexachlorobiphenyl
149	2,2',3,4',5',6-Hexachlorobiphenyl
153	2,2',4,4',5,5'-Hexachlorobiphenyl
170	2,2',3,3',4,4',5-Heptachlorobiphenyl
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl
209	Decachlorobiphenyl

Internal Standards

Each at 100 µg/mL in Isooctane

C-030S-TP **$ 25 / 1 x 1 mL**
2,4,6-Trichlorobiphenyl

C-209S-TP **$ 25 / 1 x 1 mL**
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

Technical Note

These congener content evaluation mixtures have proven useful for European laboratories estimating the PCB content of a sample when following EU guideline 96/59/EU for cleanup of PCBs.

Congener Specific PCB Analysis

Toxicity and Abundance Based PCB Congener Formulations

A study was conducted in 1989 by McFarland and J. Clarke [1], (Environmental Occurrence, Abundance, and Potential Toxicity of Polychlorinated Biphenyl Congeners: Consideration for a Congener - Specific Analysis) The data that formed the basis for conclusions in the study have been referenced by the National Oceanic & Atmospheric Administration (NOAA) which came out with a method in the same year.

Abundance Analysis

Five of the solutions AccuStandard offers are formulated to assist the investigator or analytical Chemist in their own studies and can be purchased individually or as a complete set (C-SCA-SET). According to the study the 36 congeners contained in these five groups are considered environmentally threatening due to their frequency of occurrence in environmental samples, abundance in the Aroclors and potential toxicity.

Group 1a: comprises the three congeners present to a small extent in the Aroclors that are the most toxic and have been characterized as pure 3-Methyl cholanthrene - type (3-MC) inducers.

Group 1b: congeners are mixed-type inducers but are of somewhat lesser toxicity and are very abundant in the Aroclors as well as in the environment. It includes Congener #105 which, while not as prevalent, is potentially almost as toxic as the Group 1a congeners.

Group 2: includes the congeners which are Phenobarbital - type (PB) inducers for Mixed-Function Oxidase enzymes. These are less toxic but more abundant in the environment. They represent 25-41% of total PCB content found in animal tissue.

Group 3: congeners are weak- or non-inducers representing about 10% of the PCB content of tissues.

Group 4: congeners have some potential for toxicity but have very low presence in tissue.

Toxicity Analysis

A sixth solution is prepared for the analyst who is investigating the presence of PCB congeners in food and human tissues. Specific congeners are selected by K.C. Jones [2] as outlined in his article referenced below which is titled, "Determination of polychlorinated biphenyls in human food stuffs and tissues: Suggestions for a selective congener analytical approach".

Literature Reference

1. V.A. McFarland and J.U. Clarke, Environmental Health Perspectives, vol. 81, pp 225-239 (1989). 2. K.C. Jones, Sci. Total Environment, vol. 68, pp 141-159 (1988).

Formulations for Toxicity & Abundance Studies

Complete Set of PCB Congeners

C-SCA-SET — **$ 120 / 5 x 1 mL** (includes **C-SCA-01, C-SCA-02, C-SCA-03, C-SCA-04, C-SCA-05**)

Mix #1 Group 1a (3 MC Type Inducers)

C-SCA-01 — **$ 30 / 1 x 1 mL**
10 µg/mL each in Isooctane — 3 comps.

3,3',4,4'-Tetrachlorobiphenyl (77)
3,3',4,4',5-Pentachlorobiphenyl (126)
3,3',4,4',5,5'-Hexachlorobiphenyl (169)

Mix #2 Group 1b (Mixed Type Inducers)

C-SCA-02 — **$ 30 / 1 x 1 mL**
10 µg/mL each in Isooctane — 6 comps.

2,3,3',4,4'-Pentachlorobiphenyl (105)
2,3',4,4',5-Pentachlorobiphenyl (118)
2,2',3,3',4,4'-Hexachlorobiphenyl (128)
2,2',3,4,4',5'-Hexachlorobiphenyl (138)
2,3,3',4,4',5-Hexachlorobiphenyl (156)
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)

Mix #3 Group 2 (PB Type Inducers)

C-SCA-03 — **$ 30 / 1 x 1 mL**
10 µg/mL each in Isooctane — 7 comps.

2,2',3,4,5'-Pentachlorobiphenyl (87)
2,2',4,4',5-Pentachlorobiphenyl (99)
2,2',4,5,5'-Pentachlorobiphenyl (101)
2,2',4,4',5,5'-Hexachlorobiphenyl (153)
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)

Mix #4 Group 3 (Non-Inducer Type)

C-SCA-04 — **$ 35 / 1 x 1 mL**
10 µg/mL each in Isooctane — 10 comps.

2,2',5-Trichlorobiphenyl (18)
2,2',3,5'-Tetrachlorobiphenyl (44)
2,2',4,5'-Tetrachlorobiphenyl (49)
2,2',5,5'-Tetrachlorobiphenyl (52)
2,3',4',5-Tetrachlorobiphenyl (70)
2,4,4',5-Tetrachlorobiphenyl (74)
2,2',3,5,5',6-Hexachlorobiphenyl (151)
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)
2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)

Mix #5 Group 4 (Mixed Type Inducers present at very low levels)

C-SCA-05 — **$ 35 / 1 x 1 mL**
10 µg/mL each in Isooctane — 10 comps.

3,4,4'-Trichlorobiphenyl (37)
3,4,4',5-Tetrachlorobiphenyl (81)
2,3,4,4',5-Pentachlorobiphenyl (114)
2,3',4,4',6-Pentachlorobiphenyl (119)
2',3,4,4',5-Pentachlorobiphenyl (123)
2,3,3',4,4',5'-Hexachlorobiphenyl (157)
2,3,3',4,4',6-Hexachlorobiphenyl (157)
2,3',4,4',5,5'-Hexachlorobiphenyl (167)
2,3',4,4',5',6-Hexachlorobiphenyl (168)
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)

Mix #6 (Food & Human Tissue analysis)

C-SCA-06 — **$ 60 / 1 x 1 mL**
10 µg/mL each in Isooctane — 32 comps.

2,4'-Dichlorobiphenyl (8)
2,4,4'-Trichlorobiphenyl (28)
3,4,4'-Trichlorobiphenyl (37)
2,2',3,5'-Tetrachlorobiphenyl (44)
2,2',4,5'-Tetrachlorobiphenyl (49)
2,2',5,5'-Tetrachlorobiphenyl (52)
2,3,4,4'-Tetrachlorobiphenyl (60)
2,3',4,4'-Tetrachlorobiphenyl (66)
2,3',4',5-Tetrachlorobiphenyl (70)
2,4,4',5-Tetrachlorobiphenyl (74)
3,3',4,4'-Tetrachlorobiphenyl (77)
2,2',3,3',4-Pentachlorobiphenyl (82)
2,2',3,4,5'-Pentachlorobiphenyl (87)
2,2',4,4',5-Pentachlorobiphenyl (99)
2,2',4,5,5'-Pentachlorobiphenyl (101)
2,3,3',4,4'-Pentachlorobiphenyl (105)
2,3,4,4',5-Pentachlorobiphenyl (114)
2,3',4,4',5-Pentachlorobiphenyl (118)
3,3',4,4',5-Pentachlorobiphenyl (126)
2,2',3,3',4,4'-Hexachlorobiphenyl (128)
2,2',3,4,4',5'-Hexachlorobiphenyl (138)
2,2',4,4',5,5'-Hexachlorobiphenyl (153)
2,3,3',4,4',5-Hexachlorobiphenyl (156)
2,3,3',4,4',6-Hexachlorobiphenyl (158)
2,3,4,4',5,6-Hexachlorobiphenyl (166)
3,3',4,4',5,5'-Hexachlorobiphenyl (169)
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)
2,2',3,3',5,6,6'-Heptachlorobiphenyl (179)
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)

Non-Ortho Substituted PCBs

C-SCA-DIOXLIK — **$ 35 / 1 x 1 mL**
10 µg/mL each in Isooctane — 4 comps.

3,3',4,4'-Tetrachlorobiphenyl (77)
3,3',4,4',5-Pentachlorobiphenyl (126)
3,3',4,4',5,5'-Hexachlorobiphenyl (169)
3,4,4',5-Tetrachlorobiphenyl (81)

Internal Standard

C-EU-IS-10ML — **$ 75 / 1 x 10 mL**
At stated conc. in Isooctane — 2 comps.

2,4,6-Trichlorobiphenyl
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

Dutch Seven PCBs Standard

PCB-DUTCH7-SET — **$ 125 / 7 x 1 mL**
100 µg/mL each in Isooctane

PCB-DUTCH7 — **$ 25 / 1 x 1 mL**
10 µg/mL each in Isooctane — 7 comps.

2,4,4'-Trichlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl

Congener Specific PCB Analysis

PCB Congener Mix for West Coast Fish Studies

C-WCFS **$ 95 / 1 x 1 mL**
25 µg/mL each in Isooctane 24 comps.

2,4',5-Trichlorobiphenyl	2,2',3,4,5,5'-Hexachlorobiphenyl
2',3,4-Trichlorobiphenyl	2,2',3,4',5,6-Hexachlorobiphenyl
2,2',4,5'-Tetrachlorobiphenyl	2,2',3,5,5',6-Hexachlorobiphenyl
2,3,3',4'-Tetrachlorobiphenyl	2,3,3',4,4',5-Hexachlorobiphenyl
2,3,4,4'-Tetrachlorobiphenyl	2,3,3',4,4',6-Hexachlorobiphenyl
2,3',4',5-Tetrachlorobiphenyl	2,2',3,3',4,5,6'-Heptachlorobiphenyl
2,2',3,4,5'-Pentachlorobiphenyl	2,2',3,3',4',5,6-Heptachlorobiphenyl
2,2',3,5',6-Pentachlorobiphenyl	2,2',3,3',4,4',5,5'-Octachlorobiphenyl
2,2',3',4,5-Pentachlorobiphenyl	2,2',3,3',4,5,5',6'-Octachlorobiphenyl
2,2',4,4',5-Pentachlorobiphenyl	2,2',3,4,4',5,5',6-Octachlorobiphenyl
2,3,3',4',6-Pentachlorobiphenyl	2,2',3,4,4',5',6-Heptachlorobiphenyl
2,2',3,3',4,6'-Hexachlorobiphenyl	2,4,4',5-Tetrachlorobiphenyl

World Health Organization Congener Mix

C-WHO-01 **$ 40 / 1 x 1 mL**
2.0 µg/mL each in Isooctane 12 comps.

3,3',4,4'-Tetrachlorobiphenyl	2,3',4,4',5-Pentachlorobiphenyl	2,3,3',4,4',5'-Hexachlorobiphenyl
3,4,4',5-Tetrachlorobiphenyl	2',3,4,4',5-Pentachlorobiphenyl	2,3',4,4',5,5'-Hexachlorobiphenyl
2,3,3',4,4'-Pentachlorobiphenyl	3,3',4,4',5-Pentachlorobiphenyl	3,3',4,4',5,5'-Hexachlorobiphenyl
2,3,4,4',5-Pentachlorobiphenyl	2,3,3',4,4',5-Hexachlorobiphenyl	2,3,3',4,4',5,5'-Heptachlorobiphenyl

WHO/NIST/NOAA Congener List

C-WNN **$ 60 / 1 x 1 mL**
C-WNN-PAK ***SAVE 20%*** **$ 240 / 5 x 1 mL**
10 µg/mL each in Isooctane 28 comps.

2,4'-Dichlorobiphenyl	2,2',3,3',4,4'-Hexachlorobiphenyl
2,2',5-Trichlorobiphenyl	2,2',3,4,4',5'-Hexachlorobiphenyl
2,4,4'-Trichlorobiphenyl	2,2',4,4',5,5'-Hexachlorobiphenyl
2,2',3,5'-Tetrachlorobiphenyl	2,3,3',4,4',5-Hexachlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl	2,3,3',4,4',5'-Hexachlorobiphenyl
2,3',4,4'-Tetrachlorobiphenyl	2,3',4,4',5,5'-Hexachlorobiphenyl
3,3',4,4'-Tetrachlorobiphenyl	3,3',4,4',5,5'-Hexachlorobiphenyl
3,4,4',5-Tetrachlorobiphenyl	2,2',3,3',4,4',5-Heptachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl	2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,3,3',4,4'-Pentachlorobiphenyl	2,2',3,4',5,5',6-Heptachlorobiphenyl
2,3,4,4',5-Pentachlorobiphenyl	2,3,3',4,4',5,5'-Heptachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl	2,2',3,3',4,4',5,6-Octachlorobiphenyl
2',3,4,4',5-Pentachlorobiphenyl	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
3,3',4,4',5-Pentachlorobiphenyl	Decachlorobiphenyl

DCMA-PCB Isomer Mixture

M-002 **$ 35 / 1 x 1 mL**
M-002-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
At stated conc. in Hexane 10 comps.

2-Chlorobiphenyl	(100 µg/mL)	2,2',3,3',6,6'-Hexachlorobiphenyl	(10 µg/mL)
3,3'-Dichlorobiphenyl	(100 µg/mL)	2,2',3,4,5,5',6-Heptachlorobiphenyl	(5 µg/mL)
2,4,5-Trichlorobiphenyl	(10 µg/mL)	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(5 µg/mL)
2,2',4,4'-Tetrachlorobiphenyl	(10 µg/mL)	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(5 µg/mL)
2,3',4,5',6-Pentachlorobiphenyl	(10 µg/mL)	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(5 µg/mL)

Technical Note

The Dry Color Manufacturer's Association (DCMA) recommends that its members use this type of mixture to monitor their process streams for PCBs. The DCMA-PCB congener method is made from pure PCB congeners in Hexane.

CEN's Workgroup #22 for PCBs in Waste Oil

PCB-W22 **$ 35 / 1 x 1 mL**
10 µg/mL each in Isooctane 15 comps.
PCB-W22-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**

PCB-W22-SET **$ 225 / 15 x 1 mL**
100 µg/mL in Isooctane (Set of Individual Solutions)

Technical Note

The Commite' Europeen de Normalisation (CEN) has assigned Workgroup Number 22 in Hamburg, Germany to develop a method for "PCBs" in waste oil.

No.		No.		No.	
(18)	2,2',5-Trichlorobiphenyl	(52)	2,2',5,5'-Tetrachlorobiphenyl)	(149)	2,2',3,4',5',6-Hexachlorobiphenyl
(20)	2,3,3'-Trichlorobiphenyl	(101)	2,2',4,5,5'-Pentachlorobiphenyl	(153)	2,2',4,4',5,5'-Hexachlorobiphenyl
(28)	2,4,4'-Trichlorobiphenyl	(105)	2,3,3',4,4'-Pentachlorobiphenyl	(170)	2,2',3,3',4,4',5-Heptachlorobiphenyl
(31)	2,4',5-Trichlorobiphenyl)	(118)	2,3',4,4',5-Pentachlorobiphenyl)	(180)	2,2',3,4,4',5,5'-Heptachlorobiphenyl
(44)	2,2',3,5'-Tetrachlorobiphenyl	(138)	2,2',3,4,4',5'-Hexachlorobiphenyl	(194)	2,2',3,3',4,4',5,5'-Octachlorobiphenyl

Dioxin-Like Congeners

C-DIOXLIK	Level 1 -01 ng/mL	Level 2 -02 ng/mL	Level 3 -03 ng/mL	Level 4 -04 ng/mL	Level 5 -05 ng/mL	Level 6 -06 ng/mL	Level 7 -07 ng/mL	Level 8 -08 ng/mL	Level 9 -09 ng/mL	Level 10 -10 ng/mL	Level 11 -11 ng/mL	Level 12 -12 ng/mL
3,3',4,4'-Tetrachlorobiphenyl (77)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
3,4,4',5-Tetrachlorobiphenyl (81)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3,3',4,4'-Pentachlorobiphenyl (105)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3,4,4',5-Pentachlorobiphenyl (114)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3',4,4',5-Pentachlorobiphenyl (118)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2',3,4,4',5-Pentachlorobiphenyl (123)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
3,3',4,4',5-Pentachlorobiphenyl (126)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3,3',4,4',5-Hexachlorobiphenyl (156)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3,3',4,4',5'-Hexachlorobiphenyl (157)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3',4,4',5,5'-Hexachlorobiphenyl (167)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	0.05	0.1	0.2	0.5	1	2	5	10	20	50	100	250

C-DIOXLIK1-SET **$ 950 / 5 x 1 mL**
Set includes

C-DIOXLIK-02
C-DIOXLIK-04
C-DIOXLIK-06
C-DIOXLIK-08
C-DIOXLIK-10

C-DIOXLIK2-SET **$ 950 / 5 x 1 mL**
Set includes

C-DIOXLIK-03
C-DIOXLIK-05
C-DIOXLIK-07
C-DIOXLIK-09
C-DIOXLIK-11

C-DIOXLIK3-SET **$ 950 / 5 x 1 mL**
Set includes

C-DIOXLIK-04
C-DIOXLIK-06
C-DIOXLIK-08
C-DIOXLIK-10
C-DIOXLIK-12

Individual Levels 4, 6, 8, 10 12

C-DIOXLIK3-04	**$ 225 / 1 mL**
C-DIOXLIK3-06	**$ 225 / 1 mL**
C-DIOXLIK3-08	**$ 225 / 1 mL**
C-DIOXLIK3-10	**$ 225 / 1 mL**
C-DIOXLIK3-12	**$ 225 / 1 mL**

PCB Congener Calibration Mixtures

9 Mixtures Contain All 209 Congeners Present in Aroclors

PCB Congener Mix #1

C-CS-01 — **$ 155 / 1 x 1 mL**

10 µg/mL each in Isooctane — 39 comps.

No.	
1	2-Chlorobiphenyl
2	3-Chlorobiphenyl †
3	4-Chlorobiphenyl
4	**2,2'-Dichlorobiphenyl**
6	**2,3'-Dichlorobiphenyl**
8	**2,4'-Dichlorobiphenyl**
9	2,5-Dichlorobiphenyl
16	**2,2',3-Trichlorobiphenyl**
18	**2,2',5-Trichlorobiphenyl**
19	2,2',6-Trichlorobiphenyl
22	**2,3,4'-Trichlorobiphenyl**
25	2,3',4-Trichlorobiphenyl
28	**2,4,4'-Trichlorobiphenyl**
44	**2,2'3,5'-Tetrachlorobiphenyl**
52	**2,2',5,5'-Tetrachlorobiphenyl**
56	**2,3,3',4'-Tetrachlorobiphenyl**
66	**2,3',4,4'-Tetrachlorobiphenyl**
67	2,3',4,5-Tetrachlorobiphenyl
71	2,3',4',6-Tetrachlorobiphenyl
74	**2,4,4',5-Tetrachlorobiphenyl**
82	**2,2',3,3',4-Pentachlorobiphenyl**
87	**2,2',3,4,5'-Pentachlorobiphenyl**
99	**2,2',4,4',5-Pentachlorobiphenyl**
110	**2,3,3',4',6-Pentachlorobiphenyl**
138	**2,2',3,4,4',5'-Hexachlorobiphenyl**
146	**2,2',3,4',5,5'-Hexachlorobiphenyl**
147	2,2',3,4',5,6-Hexachlorobiphenyl †
153	**2,2',4,4',5,5'-Hexachlorobiphenyl**
173	2,2',3,3',4,5,6-Heptachlorobiphenyl
174	**2,2',3,3',4,5,6'-Heptachlorobiphenyl**
177	**2,2',3,3',4',5,6-Heptachlorobiphenyl**
179	**2,2',3,3',5,6,6'-Heptachlorobiphenyl**
180	**2,2',3,4,4',5,5'-Heptachlorobiphenyl**
187	**2,2',3,4',5,5',6-Heptachlorobiphenyl**
194	**2,2',3,3',4,4',5,5'-Octachlorobiphenyl**
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl
199	**2,2',3,3',4,5,5',6'-Octachlorobiphenyl**
203	**2,2',3,4,4',5,5',6-Octachlorobiphenyl**
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl

PCB Congener Mix #4

C-CS-04 — **$ 125 / 1 x 1 mL**

10 µg/mL each in Isooctane — 22 comps.

No.	
13	3,4'-Dichlorobiphenyl
14	3,5-Dichlorobiphenyl †
35	3,3',4-Trichlorobiphenyl
51	2,2',4,6'-Tetrachlorobiphenyl
53	2,2',5,6'-Tetrachlorobiphenyl
54	2,2',6,6'-Tetrachlorobiphenyl †
73	2,3',5',6-Tetrachlorobiphenyl †
75	2,4,4',6-Tetrachlorobiphenyl
81	3,4,4',5-Tetrachlorobiphenyl †
90	2,2',3,4',5-Pentachlorobiphenyl †
100	2,2',4,4',6-Pentachlorobiphenyl †
117	2,3,4',5,6-Pentachlorobiphenyl
122	2',3,3',4,5-Pentachlorobiphenyl
124	2',3,4,5,5'-Pentachlorobiphenyl
130	2,2',3,3',4,5'-Hexachlorobiphenyl
154	2,2',4,4',5,6'-Hexachlorobiphenyl †
163	**2,3,3',4',5,6-Hexachlorobiphenyl**
165	2,3,3',5,5',6-Hexachlorobiphenyl †
175	2,2',3,3',4,5',6-Heptachlorobiphenyl
200	2,2',3,3',4,5,6,6'-Octachlorobiphenyl
201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl
202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl

PCB Congener Mix #2

C-CS-02 — **$ 150 / 1 x 1 mL**

10 µg/mL each in Isooctane — 36 comps.

No.	
5	2,3-Dichlorobiphenyl
7	2,4-Dichlorobiphenyl
10	2,6-Dichlorobiphenyl
17	**2,2',4-Trichlorobiphenyl**
24	2,3,6-Trichlorobiphenyl
26	**2,3',5-Trichlorobiphenyl**
31	**2,4',5-Trichlorobiphenyl**
32	**2,4',6-Trichlorobiphenyl**
37	**3,4,4'-Trichlorobiphenyl**
41	2,2',3,4-Tetrachlorobiphenyl
45	**2,2',3,6-Tetrachlorobiphenyl**
46	2,2',3,6'-Tetrachlorobiphenyl
48	**2,2',4,5-Tetrachlorobiphenyl**
60	**2,3,4,4'-Tetrachlorobiphenyl**
70	**2,3',4',5-Tetrachlorobiphenyl**
83	2,2',3,3',5-Pentachlorobiphenyl
84	**2,2',3,3',6-Pentachlorobiphenyl**
95	**2,2',3,5',6-Pentachlorobiphenyl**
103	2,2',4,5',6-Pentachlorobiphenyl †
107	2,3,3',4',5-Pentachlorobiphenyl
115	2,3,4,4',6-Pentachlorobiphenyl
131	2,2',3,3',4,6-Hexachlorobiphenyl
132	**2,2',3,3',4,6'-Hexachlorobiphenyl**
135	**2,2',3,3',5,6'-Hexachlorobiphenyl**
141	**2,2',3,4,5,5'-Hexachlorobiphenyl**
149	**2,2',3,4',5,6-Hexachlorobiphenyl**
164	2,3,3',4',5,6-Hexachlorobiphenyl
170	**2,2',3,3',4,4',5-Heptachlorobiphenyl**
171	**2,2',3,3',4,4',6-Heptachlorobiphenyl**
172	2,2',3,3',4,5,5'-Heptachlorobiphenyl
178	2,2',3,3',5,5',6-Heptachlorobiphenyl
183	**2,2',3,4,4',5',6-Heptachlorobiphenyl**
193	2,3,3',4',5,5',6-Heptachlorobiphenyl
196	2,2',3,3',4,4',5',6-Octachlorobiphenyl
197	2,2',3,3',4,4',6,6'-Octachlorobiphenyl
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl

PCB Congener Mix #5

C-CS-05 — **$ 100 / 1 x 1 mL**

10 µg/mL each in Isooctane — 20 comps.

No.	
12	3,4-Dichlorobiphenyl
33	**2',3,4-Trichlorobiphenyl**
49	**2,2',4,5'-Tetrachlorobiphenyl**
59	2,3,3',6-Tetrachlorobiphenyl
63	2,3,4',5-Tetrachlorobiphenyl
64	**2,3,4',6-Tetrachlorobiphenyl**
77	3,3',4,4'-Tetrachlorobiphenyl
85	**2,2',3,4,4'-Pentachlorobiphenyl**
91	2,2',3,4',6-Pentachlorobiphenyl
97	**2,2',3',4,5-Pentachlorobiphenyl**
104	2,2',4,6,6'-Pentachlorobiphenyl †
114	2,3,4,4',5-Pentachlorobiphenyl
123	2',3,4,4',5-Pentachlorobiphenyl
129	2,2',3,3',4,5-Hexachlorobiphenyl
137	2,2',3,4,4',5-Hexachlorobiphenyl
156	**2,3,3',4,4',5-Hexachlorobiphenyl**
167	2,3',4,4',5,5'-Hexachlorobiphenyl
176	2,2',3,3',4,6,6'-Heptachlorobiphenyl
185	2,2',3,4,5,5',6-Heptachlorobiphenyl
189	2,3,3',4,4',5,5'-Heptachlorobiphenyl

PCB Congener Mix #3

C-CS-03 — **$ 125 / 1 x 1 mL**

10 µg/mL each in Isooctane — 27 comps.

No.	
15	**4,4'-Dichlorobiphenyl**
20	2,3,3'-Trichlorobiphenyl
27	2,3',6-Trichlorobiphenyl
29	2,4,5-Trichlorobiphenyl
34	2',3,5-Trichlorobiphenyl
40	2,2',3,3'-Tetrachlorobiphenyl
42	**2,2',3,4'-Tetrachlorobiphenyl**
47	**2,2',4,4'-Tetrachlorobiphenyl**
69	2,3',4,6-Tetrachlorobiphenyl †
92	2,2',3,5,5'-Pentachlorobiphenyl
93	2,2',3,5,6-Pentachlorobiphenyl †
101	**2,2',4,5,5'-Pentachlorobiphenyl**
105	**2,3,3',4,4'-Pentachlorobiphenyl**
118	**2,3',4,4',5-Pentachlorobiphenyl**
119	2,3',4,4',6-Pentachlorobiphenyl
128	**2,2',3,3',4,4'-Hexachlorobiphenyl**
134	2,2',3,3',5,6-Hexachlorobiphenyl
136	**2,2',3,3',6,6'-Hexachlorobiphenyl**
144	2,2',3,4,5',6-Hexachlorobiphenyl
151	**2,2',3,5,5',6-Hexachlorobiphenyl**
157	2,3,3',4,4',5'-Hexachlorobiphenyl
158	2,3,3',4,4',6-Hexachlorobiphenyl
190	2,3,3',4,4',5,6-Heptachlorobiphenyl
191	**2,3,3',4,4',5',6-Heptachlorobiphenyl**
207	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl †
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl †

Reference Key

non-Bold = Congener in any of Aroclors 1242, 1254 or 1260 @ < 1.0 Wt.%

Bold = Congener in any of Aroclors 1242, 1254 or 1260 @ > 1.0 Wt.%

† = Congener not in any of the 3 Aroclors @ > 0.05 Wt.%

Bold congeners related to mixes #6, 7 & 8 marginally above 0.05 Wt.%, except #43 @ 0.24 Wt.% in Aroclor 1242.

Some "non-Aroclor" congeners assigned to Mixes 1-5 to reduce coelutions and number of mixes needed.

PCB Congener Calibration Mixtures

9 Mixtures Contain All 209 Congeners Not Present in Aroclors

PCB Congener Mix #6

C-CS-06 **$ 90 / 1 x 1 mL**

10 µg/mL each in Isooctane 18 comps.

No.	
11	3,3'-Dichlorobiphenyl †
21	2,3,4-Trichlorobiphenyl †
38	3,4,5-Trichlorobiphenyl †
50	2,2',4,6-Tetrachlorobiphenyl †
57	2,3,3',5-Tetrachlorobiphenyl †
61	2,3,4,5-Tetrachlorobiphenyl †
65	2,3,5,6-Tetrachlorobiphenyl †
86	2,2',3,4,5-Pentachlorobiphenyl †
102	2,2',4,5,6'-Pentachlorobiphenyl †
113	2,3,3',5',6-Pentachlorobiphenyl †
126	3,3',4,4',5-Pentachlorobiphenyl †
127	3,3',4,5,5'-Pentachlorobiphenyl †
133	2,2',3,3',5,5'-Hexachlorobiphenyl †
139	2,2',3,4,4',6-Hexachlorobiphenyl †
145	2,2',3,4,6,6'-Hexachlorobiphenyl †
161	2,3,3',4,5',6-Hexachlorobiphenyl †
169	3,3',4,4',5,5'-Hexachlorobiphenyl †
181	2,2',3,4,4',5,6-Heptachlorobiphenyl

PCB Congener Mix #7

C-CS-07 **$ 75 / 1 x 1 mL**

10 µg/mL each in Isooctane 14 comps.

No.	
36	3,3',5-Trichlorobiphenyl †
72	2,3',5,5'-Tetrachlorobiphenyl †
78	3,3',4,5-Tetrachlorobiphenyl †
79	3,3',4,5'-Tetrachlorobiphenyl †
89	2,2',3,4,6'-Pentachlorobiphenyl †
96	2,2',3,6,6'-Pentachlorobiphenyl †
98	2,2',3',4,6-Pentachlorobiphenyl †
106	2,3,3',4,5-Pentachlorobiphenyl †
108	2,3,3',4,5'-Pentachlorobiphenyl †
152	2,2',3,5,6,6'-Hexachlorobiphenyl †
166	2,3,4,4',5,6-Hexachlorobiphenyl †
182	2,2',3,4,4',5,6'-Heptachlorobiphenyl †
184	2,2',3,4,4',6,6'-Heptachlorobiphenyl †
204	2,2',3,4,4',5,6,6'-Octachlorobiphenyl †

PCB Congener Mix #8

C-CS-08 **$ 75 / 1 x 1 mL**

10 µg/mL each in Isooctane 12 comps.

No.	
30	2,4,6-Trichlorobiphenyl †
43	2,2',3,5-Tetrachlorobiphenyl †
55	2,3,3',4-Tetrachlorobiphenyl †
58	2,3,3',5'-Tetrachlorobiphenyl †
76	2',3,4,5-Tetrachlorobiphenyl †
109	2,3,3',4,6-Pentachlorobiphenyl †
112	2,3,3',5,6-Pentachlorobiphenyl †
120	2,3',4,5,5'-Pentachlorobiphenyl †
159	2,3,3',4,5,5'-Hexachlorobiphenyl †
186	2,2',3,4,5,6,6'-Heptachlorobiphenyl †
192	2,3,3',4,5,5',6-Heptachlorobiphenyl †
198	2,2',3,3',4,5,5',6-Octachlorobiphenyl †

PCB Congener Mix #9

C-CS-09 **$ 100 / 1 x 1 mL**

10 µg/mL each in Isooctane 21 comps.

No.	
23	2,3,5-Trichlorobiphenyl †
39	3,4',5-Trichlorobiphenyl †
62	2,3,4,6-Tetrachlorobiphenyl †
68	2,3',4,5'-Tetrachlorobiphenyl †
80	3,3',5,5'-Tetrachlorobiphenyl †
88	2,2',3,4,6-Pentachlorobiphenyl †
94	2,2',3,5,6'-Pentachlorobiphenyl †
111	2,3,3',5,5'-Pentachlorobiphenyl †
116	2,3,4,5,6-Pentachlorobiphenyl †
121	2,3',4,5',6-Pentachlorobiphenyl †
125	2',3,4,5,6'-Pentachlorobiphenyl †
140	2,2',3,4,4',6'-Hexachlorobiphenyl †
142	2,2',3,4,5,6-Hexachlorobiphenyl †
143	2,2',3,4,5,6'-Hexachlorobiphenyl †
148	2,2',3,4',5,6'-Hexachlorobiphenyl †
150	2,2',3,4',6,6'-Hexachlorobiphenyl †
155	2,2',4,4',6,6'-Hexachlorobiphenyl †
160	2,3,3',4,5,6-Hexachlorobiphenyl †
162	2,3,3',4',5,5'-Hexachlorobiphenyl †
168	2,3',4,4',5',6-Hexachlorobiphenyl †
188	2,2',3,4',5,6,6'-Heptachlorobiphenyl †

Congener Calibration Solution Sets

Mixes containing all 209 PCB congeners.

C-CSQ-SET **$ 650 / 9 x 1 mL†**

1 mL each of:

C-CS-01	**C-CS-04**	**C-CS-07**
C-CS-02	**C-CS-05**	**C-CS-08**
C-CS-03	**C-CS-06**	**C-CS-09**

Mixes for congeners found in Aroclor® 1242, 1254 and 1260

C-CSA-SET **$ 475 / 5 x 1 mL**

1 mL each of:

C-CS-01	**C-CS-04**
C-CS-02	**C-CS-05**
C-CS-03	

Mixes for non-Aroclor congeners

C-CSN-SET **$ 250 / 4 x 1 mL**

1 mL each of:

C-CS-06	**C-CS-08**
C-CS-07	**C-CS-09**

PCB Congener Calibration Mixtures

Method 680 PCB Analytes

Internal Standards

M-680-IS **$ 15 / 1 x 1 mL**
M-680-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
75 µg/mL each in Hexane 2 comps.

M-680-IS-10X **$ 25 / 1 x 1 mL**
M-680-IS-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
750 µg/mL each in Hexane 2 comps.

Chrysene-d_{12}
Phenanthrene-d_{10}

PCB Locator Mixture

M-PCBL **$ 25 / 1 x 1 mL**
M-PCBL-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in Isooctane 5 comps.

Aroclor 1242	(0.5 µg/mL)
Aroclor 1260	(0.5 µg/mL)
2-Chlorobiphenyl	(0.1 µg/mL)
3-Chlorobiphenyl	(0.1 µg/mL)
Decachlorobiphenyl	(0.1 µg/mL)

Retention Time Calibration Standard

M-680-RT **$ 25 / 1 x 1 mL**
M-680-RT-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
100 µg/mL each in Hexane 3 comps.

3,3',4,4'-Tetrachlorobiphenyl
2,2',4,6,6'-Pentachlorobiphenyl
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl

See EPA section Method 680 for complete analyte list.

PCB Isomer Calibration Mix

M-680A **$ 40 / 1 x 1 mL**
At stated conc. in Hexane 9 comps.

No.		
1	2-Chlorobiphenyl	(50 µg/mL)
5	2,3-Dichlorobiphenyl	(50 µg/mL)
29	2,4,5-Trichlorobiphenyl	(50 µg/mL)
50	2,2',4,6-Tetrachlorobiphenyl	(100 µg/mL)
87	2,2',3,4,5'-Pentachlorobiphenyl	(100 µg/mL)
154	2,2',4,4',5,6'-Hexachlorobiphenyl	(100 µg/mL)
188	2,2',3,4',5,6,6'-Heptachlorobiphenyl	(150 µg/mL)
201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	(150 µg/mL)
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(250 µg/mL)

Technical Note

The EPA has designated the following isomers for use in quantifying PCB's by GC/MS. The PCBs are identified and measured as isomer groups (i.e., by level of chlorination). A concentration is measured for each PCB isomer group; total PCB concentration in each sample extract is obtained by summing isomer group concentrations.

Internal Standard

M-680B **$ 15 / 1 x 1 mL**
250 µg/mL in Toluene

Chrysene-d_{12}

Tuning Standard

M-680-TS **$ 10 / 1 x 1 mL**
M-680-TS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
10 µg/mL in CH_2Cl_2

Decafluorotriphenylphosphine (DFTPP)

PCB Isomer Calibration Set

M-680-SET **$ 45 / 2 x 1 mL**
Includes: M-680A (Mix) M-680B (Internal Standard)

Level of Chlorination	Isomer Selected	Congener Number	RF Value vs. Chrysene-d_{12}	Mean RF Value vs. Chrysene-d_{12}
1	2-mono	1	0.899	0.925
2	2,3-di	5	0.651	0.642
3	2,4,5-tri	29	0.411	0.411
4	2,2'4,6-tetra	50	0.305	0.431
5	2,2',3,4,5'-penta	87	0.299	0.287
6	2,2',4,4',5,6'-hexa	154	0.254	0.254
7	2,2',3,4',5,6,6'-hepta	188	0.164	0.160
8	2,2',3,3',4,5',6,6'-octa	201	0.207	0.191
9,10	2,2',3,3',4,4',5,5',6,6'-deca	209	0.144	0.150

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PCB Congener Calibration Mixtures

Instrument Test Solutions

PCB Window Defining Mixture

C-WDM **$ 60 / 1 x 1 mL**
C-WDM-PAK ***SAVE 20%*** **$ 240 / 5 x 1 mL**
2.5 µg/mL each in Isooctane 20 comps.

No.	
0	Biphenyl
1	2-Chlorobiphenyl
3	4-Chlorobiphenyl
10	2,6-Dichlorobiphenyl
15	4,4'-Dichlorobiphenyl
19	2,2',6-Trichlorobiphenyl
37	3,4,4'-Trichlorobiphenyl
54	2,2',6,6'-Tetrachlorobiphenyl
77	3,3',4,4'-Tetrachlorobiphenyl
104	2,2',4,6,6'-Pentachlorobiphenyl
126	3,3',4,4',5-Pentachlorobiphenyl
155	2,2',4,4',6,6'-Hexachlorobiphenyl
169	3,3',4,4',5,5'-Hexachlorobiphenyl
188	2,2',3,4',5,6,6'-Heptachlorobiphenyl
189	2,3,3'4,4',5,5'-Heptachlorobiphenyl
202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

PCB Calibration Check Solution

C-CCSEC **$ 60 / 1 x 1 mL**
C-CCSEC-PAK ***SAVE 20%*** **$ 240 / 5 x 1 mL**
100 µg/mL each in Acetone 20 comps.

C-CCSEC-R **$ 40 / 1 x 1 mL**
C-CCSEC-R-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
C-CCSEC plus 2,2',3,3',4,5',6,6'-Octachlorobiphenyl
Special Blend 21 comps.

No.	
8	2,4'-Dichlorobiphenyl
18	2,2',5-Trichlorobiphenyl
28	2,4,4'-Trichlorobiphenyl
44	2,2',3,5'-Tetrachlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl
66	2,3',4,4'-Tetrachlorobiphenyl
77	3,3',4,4'-Tetrachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl
105	2,3,3',4,4'-Pentachlorobiphenyl
118	2,3',4,4',5-Pentachlorobiphenyl
126	3,3',4,4',5-Pentachlorobiphenyl
128	2,2',3,3',4,4'-Hexachlorobiphenyl
138	2,2',3,4,4',5'-Hexachlorobiphenyl
153	2,2',4,4',5,5'-Hexachlorobiphenyl
170	2,2',3,3',4,4',5-Heptachlorobiphenyl
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl
187	2,2',3,4',5,5',6-Heptachlorobiphenyl
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

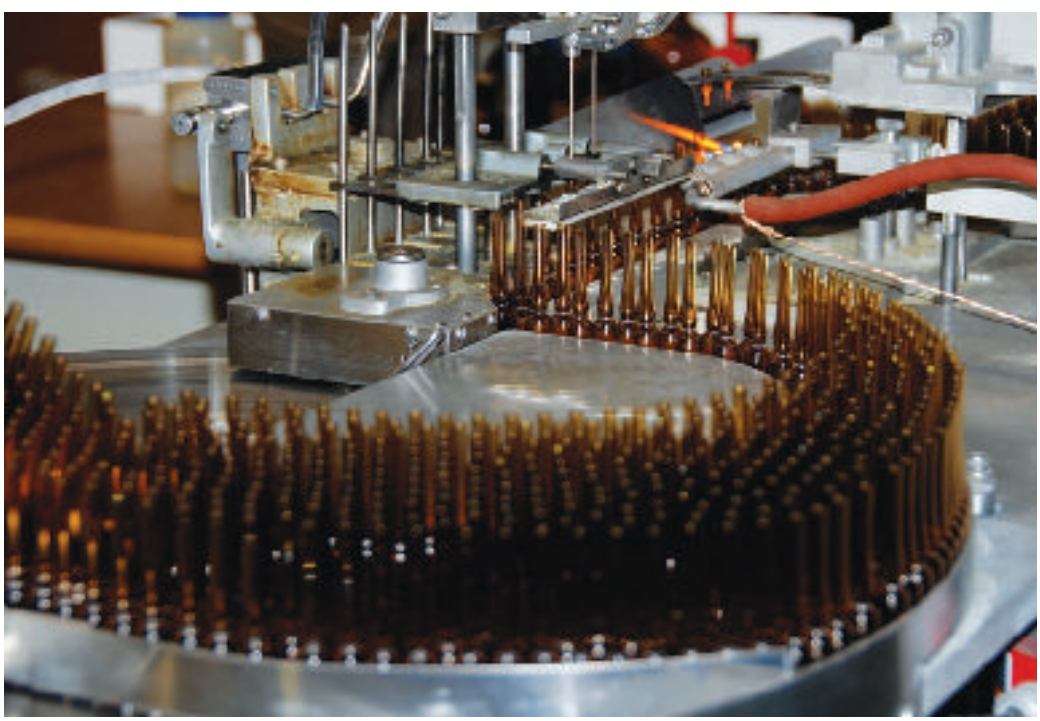
PCB/Selective Ion Monitoring Solution

PCB-SIM **$ 45 / 1 x 1 mL**
PCB-SIM-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
At stated conc. in Hexane 12 comps.

No.		
1	2-Chlorobiphenyl	(10 µg/mL)
5	2,3-Dichlorobiphenyl	(10 µg/mL)
29	2,4,5-Trichlorobiphenyl	(10 µg/mL)
104	2,2',4,6,6'-Pentachlorobiphenyl	(20 µg/mL)
87	2,2',3,4,5'-Pentachlorobiphenyl	(20 µg/mL)
208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	(40 µg/mL)
50	2,2',4,6-Tetrachlorobiphenyl	(20 µg/mL)
209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(50 µg/mL)
77	3,3',4,4'-Tetrachlorobiphenyl	(20 µg/mL)
200	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	(30 µg/mL)
186	2,2',3,4',5,6,6'-Heptachlorobiphenyl	(30 µg/mL)
154	2,2',4,4',5,6'-Hexachlorobiphenyl	(20 µg/mL)

Technical Note

For use with Phenyl methyl silicone type columns.



Aroclors
(Industrial PCBs)

Aroclors

Aroclor Solutions in Isooctane and Methanol, 2 Concentrations (Individuals, PAKs, Sets)

Aroclor #	Isooctane 35 µg/mL	1 mL	SAVE 20% PAK 5 x 1 mL		Isooctane 100 µg/mL	1 mL	Methanol 35 µg/mL	1 mL	SAVE 20% PAK 5 x 1 mL		Methanol 100 µg/mL	1 mL
Aroclor 1016	C-216S	$ 15	C-216S-PAK	$ 60	C-216S-TP	$ 20	C-216S-M	$ 15	C-216S-M-PAK	$ 60	C-216S-M-2.85X	$ 12
Aroclor 1221	C-221S	15	C-221S-PAK	60	C-221S-TP	20	C-221S-M	15	C-221S-M-PAK	60	C-221S-M-2.85X	12
Aroclor 1232	C-232S	15	C-232S-PAK	60	C-232S-TP	20	C-232S-M	15	C-232S-M-PAK	60	C-232S-M-2.85X	10
Aroclor 1242	C-242S	15	C-242S-PAK	60	C-242S-TP	20	C-242S-M	15	C-242S-M-PAK	60	C-242S-M-2.85X	15
Aroclor 1248	C-248S	15	C-248S-PAK	60	C-248S-TP	20	C-248S-M	15	C-248S-M-PAK	60	C-248S-M-2.85X	12
Aroclor 1254	C-254S	15	C-254S-PAK	60	C-254S-TP	20	C-254S-M	15	C-254S-M-PAK	60	C-254S-M-2.85X	12
Aroclor 1260	C-260S	15	C-260S-PAK	60	C-260S-TP	20	C-260S-M	15	C-260S-M-PAK	60	C-260S-M-2.85X	12
Aroclor 1262	C-262S	15	C-262S-PAK	60	C-262S-TP	20	C-262S-M	15	C-262S-M-PAK	60	C-262S-M-2.85X	12
Aroclor 1268	C-268S	15	C-268S-PAK	60	C-268S-TP	20	C-268S-M	15	C-268S-M-PAK	60	C-268S-M-2.85X	12
Set of 9 above	**Z-008S-SET**	**78**					**Z-008S-M-SET**	**78**				

Aroclor Solutions in Hexane, 2 Concentrations (Individuals, PAKs, Sets)

Aroclor #	Hexane 100 µg/mL	1 mL	Hexane 1000 µg/mL	1 mL	SAVE 20% PAK 5 x 1 mL	
Aroclor 1016	C-216S-H	$ 15	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H	15	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H	15	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H	15	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H	15	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H	15	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H	15	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H	15	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H	15	C-268S-H-10X	20	C-268S-H-10X-PAK	80
Set of 9 above	**Z-008S-H-SET**	**78**	**Z-008S-H-10X-SET**	**120**		

Aroclor Neats (Individuals)

Aroclor #	Neat	Price / Unit
Aroclor 1016	C-216N	$ 40 / 100 mg
Aroclor 1221	C-221N-50MG	50 / 50 mg
Aroclor 1232	----------	----------
Aroclor 1242	C-242N-50MG	40 / 50 mg
Aroclor 1248	C-248N-50MG	40 / 50 mg
Aroclor 1254	C-254N-50MG	55 / 50 mg
Aroclor 1260	C-260N-50MG	40 / 50 mg
Aroclor 1262	C-262N-50MG	40 / 50 mg
Aroclor 1268	----------	----------

Solutions in PCB-Free Transformer Oil
(Individuals, 2 Concentrations)

Aroclor # / CAS No.	Conc. ppm w/w	Individual Cat. No.	Price 1 mL	PAK SAVE 20% Cat. No.	5 x 1 mL
Aroclor 1016	50	C-216-ST-1	$ 25	C-216-ST-1-PAK	$ 100
12674-11-2	500	C-216-ST-2	30	C-216-ST-2-PAK	120
Aroclor 1221	50	C-221-ST-1	25	C-221-ST-1-PAK	100
11104-28-2	500	C-221-ST-2	30	C-221-ST-2-PAK	120
Aroclor 1232	50	C-232-ST-1	25	C-232-ST-1-PAK	100
11141-16-5	500	C-232-ST-2	75	C-232-ST-2-PAK	300
Aroclor 1242	50	C-242-ST-1	25	C-242-ST-1-PAK	100
53469-21-9	500	C-242-ST-2	30	C-242-ST-2-PAK	120
Aroclor 1248	50	C-248-ST-1	25	C-248-ST-1-PAK	100
12672-29-6	500	C-248-ST-2	30	C-248-ST-2-PAK	120
Aroclor 1254	50	C-254-ST-1	25	C-254-ST-1-PAK	100
11097-69-1	500	C-254-ST-2	30	C-254-ST-2-PAK	120
Aroclor 1260	50	C-260-ST-1	25	C-260-ST-1-PAK	100
11096-82-5	500	C-260-ST-2	30	C-260-ST-2-PAK	120
Aroclor 1262	50	C-262-ST-1	25	C-262-ST-1-PAK	100
37324-23-5	500	C-262-ST-2	30	C-262-ST-2-PAK	120
Aroclor 1268	50	C-268-ST-1	25	C-268-ST-1-PAK	100
11100-14-4	500	C-268-ST-2	75	C-268-ST-2-PAK	300

Aroclor-free Transformer Oil

T-W130 **$ 10 / 1 x 1 mL**

Technical Note

Major Isomer Components of Aroclor 1254

Aroclor® 1254 was the most commonly used of the industrial PCB fluids. This list contains congeners which constitute the majority of the components in this material. They are offered in both neat form and solution. Solutions are in 35 µg/mL in isooctane.

For 1254 only the following congeners may be found at > 0.5% by weight by Congener Number:

#'s 44,49, 52, 56, 64, 66, 70, 74, 82, 84, 85, 87, 91, 92, 95, 97, 99, 101, 105, 110, 118, 128, 130, 132, 135, 136, 138, 141, 146, 149, 151, 153, 156, 158, 163, 170, 180.

- The coplanar polychlorinated biphenyl (PCB) congeners; 3,3',4,4'-Tetrachlorobiphenyl (# 77), 3,3',4,4',5-Pentachlorobiphenyl (# 126), and 3,3',4,4',5,5'-Hexachlorobiphenyl (# 169) are recognized as the most toxic components of Aroclors.
- The major problem in isolation of these PCB congeners is the separation of 2,3,3',4',6-Pentachlorobiphenyl (# 110) from 3,3',4,4'-Tetrachlorobiphenyl (# 77).
- A simple cleanup procedure using alumina is proposed for the fractionation of the Aroclors on alumina which allows the isolation and analysis of the coplanar PCB congeners (1).
- The proposed internal standard 3,3',4,4'-Tetrabromobiphenyl (B-077S) enhances the accuracy of the procedure.

The novel compound 3,3',4,4'-Tetrabromobiphenyl is used as an Internal Standard to identify and quantify the coplanar components of Aroclors [1].

(1) Analysis of coplanar PCB congeners in Aroclors using alumina column cleanup. Jerry W. Anderson, ManTech Environmental Technology, Inc., R.S. Kerr Environmental Research Laboratory, U.S. Environmental Protection Agency, P.O. Box 1198, Ada, OK 74820 - Pittsburgh Conference, March 1992, New Orleans

B-077S **$ 30 / 1 x 1 mL**
35 µg/mL in Isooctane
3,3',4,4'-Tetrabromobiphenyl

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Aroclors
Similar but Different

Reference Standards of Aroclor Mixtures (by GC Analysis)

Technical mixtures were manufactured by industry in many individual batches using set production conditions. The composition of the mixtures, as is evident from the chromatograms (fingerprints), will be similar but never exactly the same. Sometimes there is a variation in the manufacturing process thereby producing a more radical change in the composition of the product mixture.

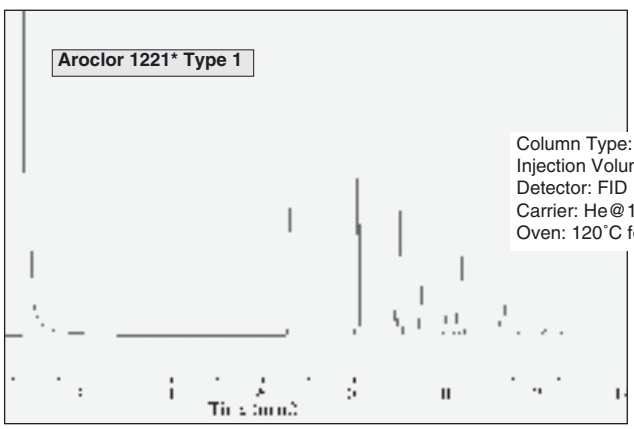
This is the case for Aroclors®, technical mixtures of PCBs made by Monsanto during the period of the 1930s through 1977. A certain batch of Aroclor 1254 (54% Chlorine by weight) that was being made by chlorinating biphenyls was chlorinated in two stages. Normally this was a single stage process. The resulting product of the two stage manufacturing process was a material containing significantly higher concentrations of the non-ortho substituted congeners, which also happen to be more toxic.

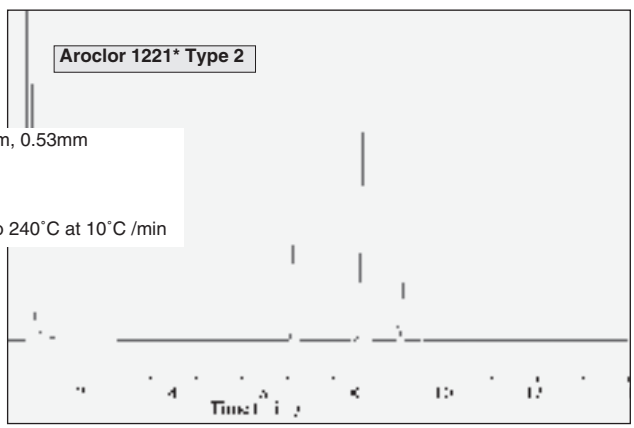
Identifying and quantifying Aroclor 1254 in the environment is confusing to the analyst when they encounter what on the surface appears to be 1254 but on closer examination is quite different.

For different reasons there also exist two types of Aroclor 1221. To help you clear up any confusion AccuStandard (as an exclusive) makes available both types of these Aroclors.

Aroclor 1221 Type 1 & 2 (21% Chlorine by weight)

Aroclor 1221 (21% Chlorine by weight) where two types exist. Type 1 is the one commonly available and contains measurable quantities of certain dichloro- and trichloro- congeners. The peaks found in gas chromatograms attributable to those congeners are absent in Type 2 of Aroclor 1221.

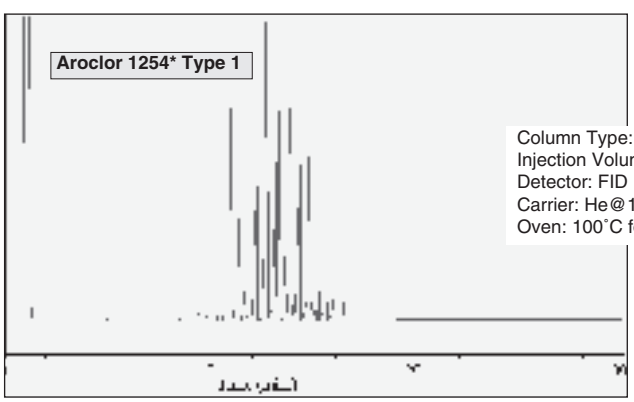


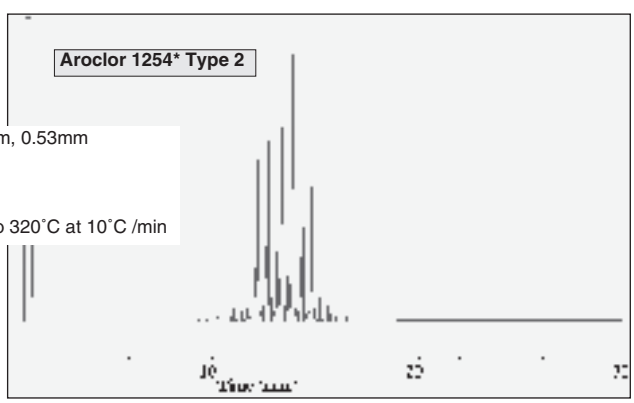


Column Type: DB-5, 30m, 0.53mm
Injection Volume: 0.5µl
Detector: FID
Carrier: He@10ml/min
Oven: 120˚C for 2 min to 240˚C at 10˚C /min

Aroclor 1254 Type 1 & 2 (54% Chlorine by weight)

The commonly occurring Aroclor 1254 (54% Chlorine by weight) is available as **C-254N** and **C-254S-TYPE1** (C-254S), and is the same as the C-254N and C-254S that you have been obtaining from **AccuStandard** for the past 16 years. The second type of Aroclor 1254, that was made by a different manufacturing process is available as **C-254S-TYPE2**.





Column Type: DB-5, 30m, 0.53mm
Injection Volume: 0.5µl
Detector: FID
Carrier: He@10ml/min
Oven: 100˚C for 2 min to 320˚C at 10˚C /min

Set of 1 each **C-221S-TYPE1*** and **C-221S-TYPE2***	**C-221S-SET** $ 40 / 2 x 1 mL
Set of 1 each **C-254S-TYPE1*** and **C-254S-TYPE2***	**C-254S-SET** $ 40 / 2 x 1 mL

Solutions in these sets are 35 µg/mL in Isooctane

* All Standards cited in this monograph are bonafide and unadulterated Monsanto product.

Hydroxy-Chlorobiphenyls

Hydroxy-Chlorobiphenyls

Compound	CAS No.	NEAT Cat. No.	Price / Unit	100 µg/mL in Isooctane Cat. No.	Price / 1 mL
2-Hydroxy-5-chlorobiphenyl	607-12-5	HPCB-1001N	$ 20 / 5 mg	HPCB-1001S	$ 15
4-Hydroxy-2-chlorobiphenyl	23719-22-4	HPCB-1002N	20 / 5 mg	HPCB-1002S	15
4-Hydroxy-3-chlorobiphenyl	92-04-6	HPCB-1003N	20 / 5 mg	HPCB-1003S	15
4-Hydroxy-4'-chlorobiphenyl	28034-99-3	HPCB-1004N	40 / 10 mg	HPCB-1004S	20
2-Hydroxy-2',5'-dichlorobiphenyl	53905-30-9	HPCB-2001N	50 / 10 mg	HPCB-2001S	20
3-Hydroxy-2',5'-dichlorobiphenyl	53905-29-6	HPCB-2002N	50 / 10 mg	HPCB-2002S	20
4-Hydroxy-2',5'-dichlorobiphenyl	53905-28-5	HPCB-2003N	50 / 10 mg	HPCB-2003S	20
4-Hydroxy-3,5-dichlorobiphenyl	1137-59-3	HPCB-2004N	50 / 10 mg	HPCB-2004S	20
2-Hydroxy-2',3'-dichlorobiphenyl		HPCB-2005N	50 / 10 mg	HPCB-2005S	20
2-Hydroxy-3',4'-dichlorobiphenyl		HPCB-2006N	50 / 10 mg	HPCB-2006S	20
2-Hydroxy-2',4',6'-trichlorobiphenyl		HPCB-3001N	50 / 10 mg	HPCB-3001S	20
2-Hydroxy-2',5,5'-trichlorobiphenyl		HPCB-3002N	50 / 10 mg	HPCB-3002S	20
3-Hydroxy-2',4',6'-trichlorobiphenyl		HPCB-3003N	50 / 10 mg	HPCB-3003S	20
4-Hydroxy-2,2',5'-trichlorobiphenyl	53905-33-2	HPCB-3004N	40 / 5 mg	HPCB-3004S	30
4-Hydroxy-2',3,5'-trichlorobiphenyl		HPCB-3005N	50 / 5 mg	HPCB-3005S	20
4-Hydroxy-2',4',6'-trichlorobiphenyl	14962-28-8	HPCB-3006N	50 / 10 mg	HPCB-3006S	20
2-Hydroxy-2',3',4',5'-tetrachlorobiphenyl		HPCB-4001N	50 / 10 mg	HPCB-4001S	20
2-Hydroxy-2',3',5',6'-tetrachlorobiphenyl		HPCB-4002N	50 / 10 mg	HPCB-4002S	20
2-Hydroxy-2',4',5,6'-tetrachlorobiphenyl		HPCB-4003N	50 / 10 mg	HPCB-4003S	20
3-Hydroxy-2',3',4',5'-tetrachlorobiphenyl	67651-37-0	HPCB-4004N	50 / 10 mg	HPCB-4004S	20
3-Hydroxy-2',3',5',6'-tetrachlorobiphenyl		HPCB-4005N	50 / 10 mg	HPCB-4005S	20
4-Hydroxy-2,2',4',6'-tetrachlorobiphenyl	150304-08-8	HPCB-4006N	40 / 5 mg	HPCB-4006S	30
4-Hydroxy-2',3',4',5'-tetrachlorobiphenyl	67651-34-7	HPCB-4007N	50 / 10 mg	HPCB-4007S	20
4-Hydroxy-2',3,4',6'-tetrachlorobiphenyl		HPCB-4008N	50 / 5 mg	HPCB-4008S	20
4-Hydroxy-2',3,5,5'-tetrachlorobiphenyl		HPCB-4009N	50 / 10 mg	HPCB-4009S	20
4-Hydroxy-2',3',5',6'-tetrachlorobiphenyl	14962-32-4	HPCB-4010N	50 / 10 mg	HPCB-4010S	20
3-Hydroxy-2,2',6,6'-tetrachlorobiphenyl		----------	----------	HPCB-4012S	50
2-Hydroxy-2',3,5,6'-tetrachlorobiphenyl **NEW**		----------	----------	HPCB-4013S	50
5-Hydroxy-2,2',4,6'-tetrachlorobiphenyl		----------	----------	HPCB-4014S	50
4,4'-Dihydroxy-2,2',6,6'-tetrachlorobiphenyl		----------	----------	HPCB-4015S	50
4,6'-Dihydroxy-2,2',4',6-tetrachlorobiphenyl **NEW**		----------	----------	HPCB-4016S	50
2-Hydroxy-2',3',4',5,5'-pentachlorobiphenyl	67651-36-9	HPCB-5001N	50 / 10 mg	HPCB-5001S	20
2-Hydroxy-2',3',5,5',6'-pentachlorobiphenyl		HPCB-5002N	50 / 10 mg	HPCB-5002S	20
4-Hydroxy-2,2',3',4',5'-pentachlorobiphenyl		HPCB-5003N	40 / 5 mg	HPCB-5003S	30
4-Hydroxy-2,2',3',5',6'-pentachlorobiphenyl		HPCB-5004N	40 / 5 mg	HPCB-5004S	30
4-Hydroxy-2',3,3',4',5'-pentachlorobiphenyl	67651-35-8	HPCB-5005N	50 / 5 mg	HPCB-5005S	20
4-Hydroxy-2',3,3',5',6'-pentachlorobiphenyl		HPCB-5006N	50 / 5 mg	HPCB-5006S	20
4-Hydroxy-2',3,4',5,6'-pentachlorobiphenyl		HPCB-5007N	50 / 10 mg	HPCB-5007S	20
3-Hydroxy-2,2',4',5,5'-pentachlorobiphenyl	69278-58-6	----------	----------	HPCB-5008S	50
4-Hydroxy-2,2',4',5,5'-pentachlorobiphenyl		----------	----------	HPCB-5009S	50
2-Hydroxy-2',3,4',5',6-pentachlorobiphenyl		----------	----------	HPCB-5010S	50
4-Hydroxy-2',3,3',4',5,5'-hexachlorobiphenyl	158076-63-2	HPCB-6001N	50 / 10 mg	HPCB-6001S	20
4-Hydroxy-2',3,3',5,5',6'-hexachlorobiphenyl		HPCB-6002N	50 / 10 mg	HPCB-6002S	20
5-Hydroxy-2,2',3,4,4',5'-hexachlorobiphenyl **NEW**		----------	----------	HPCB-6003S	20
4'-Hydroxy-2,2',3,3',4,5,5'-heptachlorobiphenyl		----------	----------	HPCB-7001S	50
3'-Hydroxy-2,2',3,4,4',5,6'-heptachlorobiphenyl **NEW**		----------	----------	HPCB-7002S	50
3'-Hydroxy-2,2',3,4,4',5,5'-heptachlorobiphenyl		----------	----------	HPCB-7003S	50
5-Hydroxy-2,2',3,4,4',5',6-heptachlorobiphenyl		----------	----------	HPCB-7004S	50

Methoxy PCBs

Compound	100 µg/mL in Isooctane Cat. No.	Price / 1 mL
2-Methoxy-5-chlorobiphenyl	MOPCB-1001S	$ 20
4-Methoxy-2-chlorobiphenyl	MOPCB-1002S	20
4-Methoxy-3-chlorobiphenyl	MOPCB-1003S	20
4-Methoxy-4'-chlorobiphenyl	MOPCB-1004S	25
3-Methoxy-2',5'-dichlorobiphenyl	MOPCB-2002S	25
4-Methoxy-2',5'-dichlorobiphenyl	MOPCB-2003S	25
4-Methoxy-3,5-dichlorobiphenyl	MOPCB-2004S	25
2-Methoxy-2',3'-dichlorobiphenyl	MOPCB-2005S	25
2-Methoxy-2',4'-dichlorobiphenyl	MOPCB-2006S	25
2-Methoxy-2',4',6'-trichlorobiphenyl	MOPCB-3001S	25
2-Methoxy-2',5,5'-trichlorobiphenyl	MOPCB-3002S	25
3-Methoxy-2',4',6'-trichlorobiphenyl	MOPCB-3003S	25
4-Methoxy-2,2',5'-trichlorobiphenyl	MOPCB-3004S	35
4-Methoxy-2',3,5'-trichlorobiphenyl	MOPCB-3005S	25
4-Methoxy-2',4',6'-trichlorobiphenyl	MOPCB-3006S	25

Compound	100 µg/mL in Isooctane Cat. No.	Price / 1 mL
2-Methoxy-2',3',4',5'-tetrachlorobiphenyl	MOPCB-4001S	$ 25
2-Methoxy-2',3',5',6'-tetrachlorobiphenyl	MOPCB-4002S	25
2-Methoxy-2',4',5,6'-tetrachlorobiphenyl	MOPCB-4003S	25
3-Methoxy-2',3',4',5'-tetrachlorobiphenyl	MOPCB-4004S	25
3-Methoxy-2',3',5',6'-tetrachlorobiphenyl	MOPCB-4005S	25
4-Methoxy-2',3',4',5'-tetrachlorobiphenyl	MOPCB-4007S	25
4-Methoxy-2',3,4',6'-tetrachlorobiphenyl	MOPCB-4008S	25
4-Methoxy-2',3,5,5'-tetrachlorobiphenyl	MOPCB-4009S	25
3-Methoxy-2,2',6,6'-tetrachlorobiphenyl **NEW**	MOPCB-4012S-0.5X *	55
2-Methoxy-2',3',4',5,5'-pentachlorobiphenyl	MOPCB-5001S	25
2-Methoxy-2',3',5,5',6'-pentachlorobiphenyl	MOPCB-5002S	25
4-Methoxy-2,2',3',4',5'-pentachlorobiphenyl	MOPCB-5003S	35
4-Methoxy-2,2',3',5',6'-pentachlorobiphenyl	MOPCB-5004S	35
4-Methoxy-2,2',4',5,5'-pentachlorobiphenyl	MOPCB-5009S	55
2-Methoxy-2',3,4',5',6-pentachlorobiphenyl	MOPCB-5010S	55
4-Methoxy-2',3,3',4',5,5'-hexachlorobiphenyl	MOPCB-6001S	25
4'-Methoxy-2,2',3,3',4,5,5'-heptachlorobiphenyl	MOPCB-7001S-0.5X *	55
5-Methoxy-2,2',3,4,4',5',6-heptachlorobiphenyl **NEW**	MOPCB-7004S-0.5X *	55

* in 50 µg/mL

PCB Metabolites

Methylsulfonyl PCB Congeners

Compound	CAS No.	50 µg/mL in Isooctane Cat. No.	Price / 1 mL
3-Methylsulfonyl-2,2',4',5-tetrachlorobiphenyl	116807-52-4	MSCB-3049	$ 150
3-Methylsulfonyl-2,2',5,5'-tetrachlorobiphenyl	60640-54-2	MSCB-3052	150
3-Methylsulfonyl-2,3',4',5-tetrachlorobiphenyl	116807-53-5	MSCB-3070	150
3-Methylsulfonyl-2,2',3',4',5-pentachlorobiphenyl	66640-58-2	MSCB-3087	150
3-Methylsulfonyl-2,2',4',5,6-pentachlorobiphenyl	149949-86-0	MSCB-3091	150
3-Methylsulfonyl-2,2',3',5,6'-pentachlorobiphenyl		MSCB-3095	150
3-Methylsulfonyl-2,2',4',5,5'-pentachlorobiphenyl	66640-60-6	MSCB-3101	150
3-Methylsulfonyl-2,3',4',5,6-pentachlorobiphenyl	116807-23-9	MSCB-3110	150
3-Methylsulfonyl-2,2',3',4',5,6-hexachlorobiphenyl	149949-90-6	MSCB-3132	150
3-Methylsulfonyl-2,2',3',4',5,5'-hexachlorobiphenyl	104086-18-2	MSCB-3141	150
3-Methylsulfonyl-2,2',4',5,5',6-hexachlorobiphenyl	149949-88-2	MSCB-3149	150
3-Methylsulfonyl-2,2',3',4',5,5',6-heptachlorobiphenyl		MSCB-3174	150
4-Methylsulfonyl-2,2',4',5-tetrachlorobiphenyl	69797-52-0	MSCB-4049	150
4-Methylsulfonyl-2,2',5,5'-tetrachlorobiphenyl	60640-55-3	MSCB-4052	150
4-Methylsulfonyl-2,3,4',6-tetrachlorobiphenyl	108736-08-9	MSCB-4064	150
4-Methylsulfonyl-2,3',4',5-tetrachlorobiphenyl	69797-51-9	MSCB-4070	150
4-Methylsulfonyl-2,2',3',4',5-pentachlorobiphenyl	66640-59-3	MSCB-4087	150
4-Methylsulfonyl-2,2',4',5,6-pentachlorobiphenyl	149949-87-1	MSCB-4091	150
4-Methylsulfonyl-2,2',3',5,6'-pentachlorobiphenyl		MSCB-4095	150
4-Methylsulfonyl-2,2',4',5,5'-pentachlorobiphenyl	66640-61-7	MSCB-4101	150
4-Methylsulfonyl-2,2',4',5,6'-pentachlorobiphenyl		MSCB-4103	150
4-Methylsulfonyl-2,3,3',4',6-pentachlorobiphenyl	149949-89-3	MSCB-4110	150
4-Methylsulfonyl-2,2',3,3',4',6-hexachlorobiphenyl	104086-16-0	MSCB-4132	150
4-Methylsulfonyl-2,2',3',4',5,5'-hexachlorobiphenyl	104086-19-3	MSCB-4141	150
4-Methylsulfonyl-2,2',3,4',5',6-hexachlorobiphenyl	116806-76-9	MSCB-4149	150
4-Methylsulfonyl-2,2',3',4',5,5',6-heptachlorobiphenyl	153310-30-6	MSCB-4174	150

Technical Note

An important group of persistent PCB metabolites, the methylsulfonyl PCBs ($MeSO_2$-PCBs) have been added. Only the 3- and 4-$MeSO_2$-PCBs with chlorine atoms in the 2,5- or 2,3,6-position have been found in environmental samples, and therefore only those are offered by AccuStandard.

Aroclor-free Transformer Oil

T-W130 $ 10 / 1 x 1 mL

Hydroxy-Biphenyls

Compound	CAS No.	NEAT Cat. No.	Price / Unit	100 µg/mL in MeOH Cat. No.	Price / 1 mL
2-Hydroxy-biphenyl	90-43-7	HBP-001N	$ 15 / 100 mg	HBP-001S	$ 15
3-Hydroxy-biphenyl	580-51-8	HBP-002N	15 / 100 mg	HBP-002S	15
4-Hydroxy-biphenyl	92-69-3	HBP-003N	15 / 100 mg	HBP-003S	15
2,2'-Dihydroxy-biphenyl	1806-29-7	HBP-004N	15 / 100 mg	HBP-004S	15
4,4'-Dihydroxy-biphenyl	92-88-6	HBP-006N	15 / 100 mg	HBP-006S	15
2,5-Dihydroxy-biphenyl	1079-21-6	HBP-009N	15 / 100 mg	HBP-009S	15

Purchasing Neat Standards

There are two ways to purchase neat standards: Nominal weight and exact weight. With exact weight, the standards will come with the exact weight contained in the vial indicated on the label. The catalog number will have an X-WT to indicate that this is an exact weight. Rinse the sample out of the vial and cap with solvent and dilute to acheive the desired concentration. Unless specified, neat samples are provided with nominal weights. Typically, the vials contain up to 10 to 20% more product, however it is not known when you receive your standard what the exact amount is in the vial. Below is a standard procedure for removing all the neat material from the vial and determining the exact weight of the material in the vial.

Small amounts (5-10 mg) of powder often are spread over the surface of the vial and cap. If the chemical is a liquid it may coat the walls as a thin layer invisible to the eye. To recover all of the contents contained in a vial of neat material please use the procedure described below:

1. Wipe the outside of the vial (containing the Standard) clean and dry (including the cap).
2. Weigh the entire unit on an analytical balance. Record the weight to the nearest 0.1 mg.
3. Carefully transfer the contents to a volumetric flask using a suitable solvent. Rinse the cap and vial several times to assure a complete transfer.
4. Dry inside and outside of the vial and cap with mild heat or inert gas.
5. Weigh the empty dry vial on the same analytical balance to the nearest 0.1 mg and calculate by difference the amount of material transferred.



Halogenated Aromatics (other than PCBs)

Perchlorinated Terphenyls

Compound	CAS No.	NEAT Cat. No.	NEAT Price / Unit	35 µg/mL in Toluene Cat. No.	35 µg/mL in Toluene Price / 1 mL
o-Terphenyl	84-15-1	T-001N	$ 13 / 100 mg	------	--
m-Terphenyl	92-06-8	T-002N	13 / 100 mg	------	--
p-Terphenyl	92-94-4	T-003N	13 / 100 mg	------	--
Tetradecachloro-o-terphenyl		------	----------	T-004S	$ 25
Tetradecachloro-m-terphenyl		------	----------	T-005S	25
Tetradecachloro-p-terphenyl		------	----------	T-006S	25
Aroclor 5432	63496-31-1	------	----------	T-432S	25
Aroclor 5442	12642-23-8	------	----------	T-442S	25
Aroclor 5460	11126-42-4	------	----------	T-460S	25
Aroclor 6050		------	----------	T-6050S	25

Perchlorinated Aromatics

Compound	CAS No.	NEAT Cat. No.	NEAT Price / Unit	35 µg/mL in Toluene Cat. No.	35 µg/mL in Toluene Price / 1 mL
Decachlorobiphenyl	2051-24-3	C-209N	$ 12 / 10 mg	------	--
Hexachlorobenzene	118-74-1	A-012	10 / 100 mg	------	--
Octachlorodibenzofuran	39001-02-0	F-801N	30 / 50 mg	------	--
Octachlorodibenzo-p-dioxin	3268-87-9	D-801N	40 / 50 mg	------	--
Octachloronaphthalene	2234-13-1	------	----------	N-003S *	$ 20
Octachlorostyrene	29082-74-4	------	----------	PC-001S	25
Perchlorinated p,p'-DDE		------	----------	PC-002S	25
Tetradecachloro-*o*-terphenyl		------	----------	T-004S	25
Tetradecachloro-*m*-terphenyl		------	----------	T-005S	25
Tetradecachloro-*p*-terphenyl		------	----------	T-006S	25

* 100 µg/mL in MeOH

Polychlorinated Naphthalenes

Halowaxes (Kopper's PCNs)

Compound	CAS No.	NEAT Cat. No.	NEAT Price / Unit	35 µg/mL in Toluene Cat. No.	35 µg/mL in Toluene Price / 1 mL
Halowax 1000 (26 %Cl)	58718-66-4	-------	--------	N-1000S	$ 20
Halowax 1001 (50 %Cl)	58718-67-5	-------	--------	N-1001S	20
Halowax 1013 (56 %Cl)	1321-64-8	-------	--------	N-1013S	20
Halowax 1014 (62 %Cl)	1335-87-1	-------	--------	N-1014S	20
Halowax 1051 (70 %Cl)	2234-13-1	-------	--------	N-1051S	20
Halowax 1099 (52 %Cl)	39450-05-0	-------	--------	N-1099S	20

Polychlorinated Naphthalene Congeners

Compound	CAS No.	NEAT Cat. No.	NEAT Price / Unit
Naphthalene	91-20-3	H-152N	$ 12 / 100 mg
1-Chloronaphthalene	90-13-1	N-001N	12 / 100 mg
2-Chloronaphthalene	91-58-7	N-002N	12 / 100 mg
1,4-Dichloronaphthalene	1825-31-6	N-004N	25 / 10 mg
Octachloronaphthalene	2234-13-1	N-003S *	20 / 1 mL
1,2,3,4-Tetrachloronaphthalene	20020-02-4	N-005N	30 / 10 mg

* 100 µg/mL in MeOH

Chloronitrophenyl Ethers

Compound	CAS No.	1.0 mg/mL in Isooctane Cat. No.	1.0 mg/mL in Isooctane Price / 1 mL
2-Chlorophenyl-4-nitrophenyl ether	209-61-4	E-005S	$ 15
3-Chlorophenyl-4-nitrophenyl ether	2303-23-3	E-006S	15
4-Chlorophenyl-4-nitrophenyl ether	1836-74-4	E-007S	15
2,4-Dichlorophenyl-3-methyl-4-nitrophenyl ether	42488-57-3	E-020S	15
2,4-Dibromophenyl-4-nitrophenyl ether	2671-93-4	E-004S	15
2,3-Dichlorophenyl-4-nitrophenyl ether	82239-20-1	E-008S	15
2,4-Dichlorophenyl-4-nitrophenyl ether	1836-75-5	E-009S	15
2,5-Dichlorophenyl-4-nitrophenyl ether	391-48-7	E-010S	15
2,6-Dichlorophenyl-4-nitrophenyl ether	2093-28-9	E-011S	15
3,4-Dichlorophenyl-4-nitrophenyl ether	22532-80-5	E-013S	15
3,5-Dichlorophenyl-4-nitrophenyl ether	21105-77-1	E-012S	15
4-Nitrophenyl phenyl ether	620-88-2	E-003S	15
2,3,4-Trichlorophenyl-4-nitrophenyl ether		E-014S	15
2,3,5-Trichlorophenyl-4-nitrophenyl ether		E-015S	15
2,3,6-Trichlorophenyl-4-nitrophenyl ether		E-016S	15
2,4,5-Trichlorophenyl-4-nitrophenyl ether	22532-68-9	E-017S	15
2,4,6-Trichlorophenyl-4-nitrophenyl ether	1836-77-7	E-018S	15
3,4,5-Trichlorophenyl-4-nitrophenyl ether		E-019S	15

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Halogenated Aromatics (other than PCBs)

Compound	CAS No.	Conc	Matrix	Cat. No.	Price / 1 mL
Decafluorobiphenyl	434-90-2	10 µg/mL	Acetone	M-551.1-SS	$ 10
		0.1 mg/mL	AcCN	M-8310-SS	10
		0.2 mg/mL	CH_2Cl_2	M-625-04	20
		1 mg/mL	Acetone	M-551.1-SS-100X	20
		2 mg/mL	CH_2Cl_2	M-625-04-10X	22
4,4'-Dibromobiphenyl	92-86-4	0.1 mg/mL	Ethyl acetate	M-508.1-SS	15
		0.2 mg/mL	CH_2Cl_2	M-625-05	20
		1 mg/mL	Acetone	M-8111-IS-20X	10
		2 mg/mL	CH_2Cl_2	M-625-05-10X	20
4,4'-Dibromooctafluorobiphenyl	10386-84-2	0.2 mg/mL	CH_2Cl_2	M-625-06	20
		2 mg/mL	CH_2Cl_2	M-625-06-10X	20
2,2'-Difluorobiphenyl	388-82-9	0.2 mg/mL	CH_2Cl_2	M-625-07	20
		1 mg/mL	MeOH	M-1653-IIS	20
		2 mg/mL	CH_2Cl_2	M-625-07-10X	20
		5 mg/mL	Acetone	M-1653-IIS-R	20
2-Fluorobiphenyl	321-60-8	0.2 mg/mL	CH_2Cl_2	M-625-09	20
		2 mg/mL	CH_2Cl_2	M-625-09-10X	20
Halowax 1000	58718-66-4	5 mg/mL	MeOH	AS-E0472	32
		0.1 mg/mL	MeOH	N-1000S	20
Halowax 1001	58718-67-5	0.1 mg/mL	MeOH	N-1001S	20
		5 mg/mL	MeOH	AS-E0471	32
Halowax 1013	1321-64-8	0.1 mg/mL	MeOH	N-1013S	20
Halowax 1014	1335-87-1	0.1 mg/mL	MeOH	N-1014S	20
Halowax 1051		0.1 mg/mL	MeOH	N-1051S	20
Halowax 1099	39450-05-0	0.1 mg/mL	MeOH	N-1099S	20
		5 mg/mL	MeOH	AS-E0470	32
1,2,3,4,5,6,7,8-Octachloronaphthalene	2234-13-1	100 µg/mL	MeOH	N-003S	20
Tetradecachloro-*o*-terphenyl		35 µg/mL	Toluene	T-004S	25
Tetradecachloro-*m*-terphenyl		35 µg/mL	Toluene	T-005S	25
Tetradecachloro-*p*-terphenyl	31710-32-4	35 µg/mL	Toluene	T-006S	25

NEW

Chlorodiphenyl Ether

Compound	CAS No.	Conc	Matrix	Cat. No.	Price / 1 mL
4-Chlorophenyl phenyl ether	7005-72-3	10 mg	NEAT	CDE-003N	$ 30
		50 µgmL	Isooctane	CDE-003S	30
2,4-Dichorophenylphenyl ether		10 mg	NEAT	CDE-007N	30
		50 µgmL	Isooctane	CDE-007S	30
4,4'-Dichlorodiphenyl ether	2444-89-5	10 mg	NEAT	CDE-015N	75
		50 µgmL	Isooctane	CDE-015S	75
3,3',4,4'-Tetrachlorodiphenyl ether		50 µgmL	Isooctane	CDE-077S	50
2,3,3',4,4'-Pentachlorodiphenyl ether		50 µgmL	Isooctane	CDE-105S	75
2,3',4,4',5-Pentachlorodiphenyl ether	60123-65-1	10 mg	NEAT	CDE-118N	75
		50 µgmL	Isooctane	CDE-118S	75
Decachlorodiphenyl ether	31710-30-2	10 mg	NEAT	CDE-209N	30
		50 µgmL	Isooctane	CDE-209S	30



Dibenzo-p-dioxin Congeners

The Environmental Protection Agency published its final rule regulating dioxin-containing waste in the Federal Register - Volume 5, 1978-1979, January 14, 1985.

Minimum purity 98%

Dibenzo-p-dioxin Congeners

Compound	CAS No.	NEAT Cat. No.	Price / Unit	SOLUTION Cat. No.	Conc.	Solvent	Price 1 mL
1-Chlorodibenzo-p-dioxin	39227-53-7	D-101N	$ 54 / 25 mg	D-101S	50 µg/mL	Isooctane	$ 15
2-Chlorodibenzo-p-dioxin	39227-54-8	D-102N	54 / 50 mg	D-102S	50 µg/mL	Isooctane	15
Dibenzo-p-dioxin	262-12-4	D-100N	44 / 10 mg	D-100S	50 µg/mL	Isooctane	15
1,2-Dichlorodibenzo-p-dioxin		------	----------	D-207S	50 µg/mL	Isooctane	40
1,3-Dichlorodibenzo-p-dioxin		D-205N	180 / 10 mg	D-205S	50 µg/mL	Isooctane	20
1,4-Dichlorodibenzo-p-dioxin		D-206N	180 / 10 mg	D-206S	50 µg/mL	Isooctane	20
1,6-Dichlorodibenzo-p-dioxin	38178-38-0	D-201N	70 / 5 mg	D-201S	50 µg/mL	Isooctane	30
2,3-Dichlorodibenzo-p-dioxin	29446-15-9	D-202N	130 / 5 mg	D-202S	50 µg/mL	Isooctane	20
2,7-Dichlorodibenzo-p-dioxin	33857-26-0	D-203N	95 / 25 mg	D-203S	50 µg/mL	Isooctane	20
2,8-Dichlorodibenzo-p-dioxin		D-204N	45 / 5 mg	D-204S	50 µg/mL	Isooctane	30
1,2,3-Trichlorodibenzo-p-dioxin	54536-17-3	D-301N	260 / 5 mg	D-301S	50 µg/mL	Isooctane	50
1,2,4-Trichlorodibenzo-p-dioxin	39227-58-2	D-302N	130 / 10 mg	D-302S	50 µg/mL	Isooctane	15
1,7,8-Trichlorodibenzo-p-dioxin	82306-65-8	D-303N	70 / 5 mg	D-303S	50 µg/mL	Isooctane	30
2,3,7-Trichlorodibenzo-p-dioxin	33857-28-2	D-304N	250 / 5 mg	D-304S	50 µg/mL	Isooctane	30
1,2,3,4-Tetrachlorodibenzo-p-dioxin	30746-58-8	D-401N	150 / 50 mg	D-401S	50 µg/mL	Toluene	15
1,2,7,8-Tetrachlorodibenzo-p-dioxin	34816-53-0	D-402N	200 / 5 mg	D-402S	50 µg/mL	Toluene	50
1,3,7,8-Tetrachlorodibenzo-p-dioxin	50585-46-1	D-403N	250 / 5 mg	D-403S	50 µg/mL	Toluene	85
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	D-404N	175 / 1 mg	APP-9-167	5 µg/mL	Toluene	50
		------	----------	M-613	10 µg/mL	Toluene	40
		------	----------	D-404S	50 µg/mL	Toluene	50
1,3,6,8-Tetrachlorodibenzo-p-dioxin	33423-92-6	D-405N	200 / 5 mg	D-405S	50 µg/mL	Toluene	85
1,2,8,9-Tetrachlorodibenzo-p-dioxin	116889-69-1	D-406N	250 / 5 mg	D-406S	50 µg/mL	Toluene	50
1,3,7,9-Tetrachlorodibenzo-p-dioxin	116889-70-4	D-407N	200 / 5 mg	D-407S	50 µg/mL	Toluene	50
1,2,6,8-Tetrachlorodibenzo-p-dioxin	67323-56-2	D-408N	700 / 1 mg	D-408S	50 µg/mL	Toluene	85
1,2,6,7-Tetrachlorodibenzo-p-dioxin	41903-57-5	D-409N	200 / 5 mg	D-409S	50 µg/mL	Toluene	50
1,2,3,4,7-Pentachlorodibenzo-p-dioxin	39227-61-7	D-503N	500 / 1 mg	D-503S	50 µg/mL	Toluene	150
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	D-501N	600 / 5 mg	APP-9-168	5 µg/mL	Toluene	50
		------	----------	D-501S	50 µg/mL	Toluene	50
1,2,3,8,9-Pentachlorodibenzo-p-dioxin	71925-18-3	D-504N	900 / 1 mg	D-504S	50 µg/mL	Toluene	150
1,2,4,7,8-Pentachlorodibenzo-p-dioxin	58802-08-7	D-502N	300 / 5 mg	D-502S	50 µg/mL	Toluene	50
1,2,4,6,8/1,2,4,7,9-Pentachlorodibenzo-p-dioxin	71998-76-0/ 82291-37-0	D-505N	900 / 1 mg	D-505S	50 µg/mL	Toluene	85
1,2,3,4,6,7-Hexachlorodibenzo-p-dioxin	58200-66-1	D-603N	900 / 1 mg	D-603S	50 µg/mL	Toluene	150
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	D-601N	350 / 5 mg	APP-9-169	5 µg/mL	Toluene	50
		------	----------	D-601S	50 µg/mL	Toluene	50
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	D-602N	600 / 1 mg	D-602S	50 µg/mL	Toluene	85
1,2,4,6,7,9/1,2,4,6,8,9-Hexachlorodibenzo-p-dioxin	39227-62-8/ 58802-09-8	D-604N	400 / 1 mg	D-604S	50 µg/mL	Toluene	50
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	D-605N	700 / 1 mg	D-605S	50 µg/mL	Toluene	85
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	D-701N	250 / 1 mg	D-701S	50 µg/mL	Toluene	85
1,2,3,4,6,7,9-Heptachlorodibenzo-p-dioxin	58200-70-7	D-702N	400 / 5 mg	D-702S	50 µg/mL	Toluene	50
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	D-801N	160 / 50 mg	D-801S	50 µg/mL	Toluene	30

Brominated Dibenzo-p-Dioxins

NEW

Compound	Cat. No.	Conc.	Matrix	Price / 1 mL
1,3,7-Tribromodibenzo-p-dioxin	BDD-301S	10 µg/mL	Toluene	$ 165
	BDD-301S-2.5X	25 µg/mL	Toluene	250
1,3,8-Tribromodibenzo-p-dioxin	BDD-302S	10 µg/mL	Toluene	165
	BDD-302S-2.5X	25 µg/mL	Toluene	250
1,2,3,7-Tetrabromodibenzo-p-dioxin	BDD-401S	10 µg/mL	Toluene	185
	BDD-401S-2.5X	25 µg/mL	Toluene	350
1,2,3,8-Tretrabromodibenzo-p-dioxin	BDD-402S	10 µg/mL	Toluene	185
	BDD-402S-2.5X	25 µg/mL	Toluene	350
Tetrabromodibenzo-p-dioxin-Mixed Isomers 1,2,4,7-Tretrabromodibenzo-p-dioxin / 1,2,4,8-Tretrabromodibenzo-p-dioxin	BDD-403S	10 µg/mL	Toluene	200
	BDD-403S-2.5X	25 µg/mL	Toluene	350
2,3,7,8-Tetrabromodibenzo-p-dioxin	X-001	1 mg	NEAT	150

Chlorodibenzo-p-dioxin Congeners
Canadian Method, Method 1613, 8280

Canadian Dioxin Mixtures

Custom Window Defining Mixture

D-WD 20,000 ng/mL in Toluene **$ 1,100 / 1 x 1 mL**
D-WD-2.5X 50,000 ng/mL in Toluene **$ 2,000 / 1 x 1 mL**
7 comps.

1,2,4,6,8/1,2,4,7,9-Pentachlorodibenzo-*p*-dioxin (Isomer pair)
1,2,3,8,9-Pentachlorodibenzo-*p*-dioxin
1,2,4,6,7,9/1,2,4,6,8,9-Hexachlorodibenzo-*p*-dioxin (Isomer pair)
1,2,3,4,6,7-Hexachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,9-Heptachlorodibenzo-*p*-dioxin
Octachlorodibenzo-*p*-dioxin

High Concentration Low Cost

Custom Calibration Mixture

D-CAL 20,000 ng/mL in Toluene **$ 900 / 1 x 1 mL**
D-CAL-2.5X 50,000 ng/mL in Toluene **$ 1,600 / 1 x 1 mL**
6 comps.

1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
Octachlorodibenzo-*p*-dioxin

Standards of Interest

For more Canadian Methods see International Regional Section

Method 8280A Dioxins & Furans by HRGC/LRMS

Dioxin Mixture

M-8280A **$ 150 / 1 x 1 mL**
M-8280A-PAK *SAVE 20%* **$ 600 / 5 x 1 mL**
5 µg/mL each in Toluene 5 comps.

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
Octachlorodibenzo-*p*-dioxin

Furan Mixture

M-8280B **$ 150 / 1 x 1 mL**
M-8280B-PAK *SAVE 20%* *$ 600 / 5 x 1 mL*
5 µg/mL each in Toluene 5 comps.

2,3,7,8-Tetrachlorodibenzofuran
1,2,3,7,8-Pentachlorodibenzofuran
1,2,3,4,7,8-Hexachlorodibenzofuran
1,2,3,4,6,7,8-Heptachlorodibenzofuran
Octachlorodibenzofuran

Column Performance Check

M-8280-CPC **$ 200 / 1 x 1 mL**
M-8280-CPC-PAK *SAVE 20%* **$ 800 / 5 x 1 mL**
5 µg/mL each in Toluene 7 comps.

1,2,3,4-Tetrachlorodibenzo-*p*-dioxin
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin
1,2,3,4,7-Pentachlorodibenzo-*p*-dioxin
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8,9-Octachlorodibenzo-*p*-dioxin
2,3,7,8-Tetrachlorodibenzofuran

Method 1613 Dioxins & Furans by HRGC/HRMS

Method 1613 Precision and Recovery Standard

M-1613-PAR Bold (-04) **$ 525 / 1 x 1 mL**
M-1613-PAR-PAK *SAVE 20%* **$ 2,100 / 5 x 1 mL**
All units in ng/mL in Nonane 17 comps.

M-1613-CAL	-01	-02	-03	-04	-05
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	2	10	**40**	200
2,3,7,8-Tetrachlorodibenzofuran	0.5	2	10	**40**	200
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,7,8-Pentachlorodibenzofuran	2.5	10	50	**200**	1000
2,3,4,7,8-Pentachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,4,7,8-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,6,7,8-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
2,3,4,6,7,8-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	5	20	100	**400**	2000
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	5	20	100	**400**	2000

Calibration Set

M-1613-CAL-SET (-01,-02,-03,-04,-05) **$ 2,100 / 5 x 1 mL**
All in ng/mL in Nonane 17 comps.

2,3,7,8 Isomers only Mix

This solution is for those labs only determining the concentration of the two most toxic isomers.

M-1613-DF **$ 75 / 1 x 1 mL**
40 ng/mL each in Nonane 2 comps.

2,3,7,8-Tetrachlorodibenzo-p-dioxin
2,3,7,8-Tetrachlorodibenzofuran

Technical Note

These Native Solutions of the USEPA Method 1613 analytes can also be used for USEPA Method 23, 8280, 8290, EU Method EN-1948 and Japanese Methods JIS-K0311 and K0312.

Chlorinated Dibenzofuran Congeners

Minimum purity 98%

Chlorinated Dibenzofuran Congeners

Compound	CAS No.	NEAT Cat. No.	NEAT Price / Unit	SOLUTION Cat. No.	Conc.	Solvent	Price 1 mL
Dibenzofuran	132-64-9	F-100N	$ 14 / 50 mg	F-100S	50 µg/mL	Isooctane	$ 15
		--------	----------	APP-9-059	100 µg/mL	MeOH	12
		--------	----------	APP-9-059-2X	200 µg/mL	MeOH	15
		--------	----------	AS-E0261	5 mg/mL	MeOH	32
2-Chlorodibenzofuran	51230-49-0	--------	----------	F-102S	50 µg/mL	Isooctane	30
4-Chlorodibenzofuran	74992-96-4	--------	----------	F-104S	50 µg/mL	Isooctane	75
2,8-Dichlorodibenzofuran	5409-83-6	F-201N	65 / 10 mg	F-201S	50 µg/mL	Isooctane	30
2,4,8-Trichlorodibenzofuran	54589-71-8	--------	----------	F-301S	50 µg/mL	Isooctane	75
1,2,3,4-Tetrachlorodibenzofuran	24478-72-6	--------	----------	F-401S	50 µg/mL	Toluene	125
1,3,6,8-Tetrachlorodibenzofuran	30402-14-3	--------	----------	F-403S	50 µg/mL	Toluene	75
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	F-402N	250 / 1 mg	APP-9-170	5 µg/mL	Toluene	75
				F-402S	50 µg/mL	Toluene	160
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	--------	----------	APP-9-171	5 µg/mL	Toluene	75
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	--------	----------	F-502S-0.1X	5 µg/mL	Toluene	75
1,2,3,4,7,8-Hexachlorodibenzofuran	55684-94-1	--------	----------	APP-9-172	5 µg/mL	Toluene	75
1,2,3,4,6,7,8-Heptachlorodibenzofuran	38998-75-3	--------	----------	F-701S-0.1X	5 µg/mL	Toluene	75
		--------	----------	F-701S	50 µg/mL	Toluene	250
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	F-801N	30 / 50 mg	F-801S	50 µg/mL	Toluene	15
3-Nitrodibenzofuran	5410-97-9	R-009N	30 / 5 mg	R-009S	100 µg/mL	Toluene	17

Custom Synthesized Rare Chemicals

Neat Compounds, except as noted	CAS No.	Cat. No.	Price / Unit
2-Amino-7,8-dibromo-dibenzo-p-dioxin	Solution 0.1 mg/mL in Toluene	X-011	$ 50 / 1 mL
4-Chlorophenyl methyl sulfoxide	934-73-6	X-004	20 / 10 mg
4,6-Dinitro-*o*-toluidine	7477-94-3	X-002	20 / 10 mg
1,4-Dioxino(2,3-b:5,6-b')dipyridine (Dipyridine analog of dibenzo-*p*-dioxin)	262-16-8	X-005	100 / 5 mg
n,n'-bis(4-Isopropylphenyl)urea	113260-74-5	X-012	20 / 10 mg
9-Methylacridine	611-64-3	X-008	30 / 10 mg
2,3,7,8-Tetrabromodibenzo-*p*-dioxin	50585-41-6	X-001	150 / 1 mg
3,3',4,4'-Tetrachloroazobenzene	14047-09-7	X-009	30 / 10 mg
3,3',4,4'-Tetrachloroazoxybenzene	21232-47-3	X-010	30 / 10 mg
N,N'-bis(2,4,6-Trichlorophenyl)urea	20632-35-3	X-003	20 / 10 mg



Flame Retardant Standards



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Brominated Flame Retardants (BFRs) such as polybrominated diphenyl ethers (PBDEs) and hexabromocyclododecane (HBCD) have become ubiquitous global environmental contaminants because of their widespread use in numerous household and commercial products, such as polyurethane furniture foam, carpet, high impact cases, circuit boards, appliances, electrical equipment, polystyrene foams, and backcoating of fabrics. They have been detected in sediments, biota, house dust, sewage sludge, air, water samples, and human and wildlife tissues. In the past few years an impressive amount of information has become accessible on the persistence, as well as bioaccumulative and toxic properties of PBDEs and HBCD.

There are 209 congeners of PBDEs. They are produced industrially as mixtures (designated penta-BDE, octa-BDE, and deca-BDE). Some PBDEs break down further in the environment and in the body to other PBDEs and to other compounds. AccuStandard has synthesized 205 of the 209 congeners, plus 30 of their hydroxy and 30 of their methoxy metabolites.

AccuStandard has separated the three major constituents of technical mixtures of HBCD (alpha, beta, gamma). The individual three stereoisomers, as well as a technical mixture, are available as chemical reference standards at AccuStandard.

In addition, AccuStandard offers a wide variety of PBDE mixtures and calibration sets which are designed for US EPA and International PBDE monitoring. Standards of branded technical products such as Bromkal™ and Firemaster™, and many other industrial flame retardants can also be requested. Fluorinated PBDEs, Bromobiphenyls, Bromophenols and Bromoanisoles add to the increasing number of brominated compounds available through AccuStandard.

Other Industrial BFRs have come to the attention of European Pollution Control Authorities who have initiated a study to substantially reduce the release of at least 5 of the 21 targeted “prioritized” BFRs.

Upon special request, compounds can be offered in various concentrations and mixes, or as neat materials. Custom standards are an economical and time saving way to have a standard prepared for your individual needs. To make an online Custom Quotes Request, go to AccuStandard.com.

Additional congeners, mixes and metabolites are added continuously. Check our website for updates.

Polybrominated Diphenyl Ether (PBDE)
Congeners

Polybrominated Diphenyl Ethers (PBDEs) Congeners

Compound	CAS No.	Conc.	Solvent	Cat. No.	Price / 1 mL
2-Bromodiphenyl ether	7025-06-1	50 µg/mL	Isooctane	BDE-001S	$ 50
3-Bromodiphenyl ether	6876-00-2	50 µg/mL	Isooctane	BDE-002S	50
4-Bromodiphenyl ether	101-55-3	50 µg/mL	Isooctane	BDE-003S	50
2,2'-Dibromodiphenyl ether	51452-87-0	50 µg/mL	Isooctane	BDE-004S	90
2,3-Dibromodiphenyl ether	446254-14-4	50 µg/mL	Isooctane	BDE-005S	200
2,3'-Dibromodiphenyl ether	147217-72-9	50 µg/mL	Isooctane	BDE-006S	90
2,4-Dibromodiphenyl ether	171977-44-9	50 µg/mL	Isooctane	BDE-007S	50
2,4'-Dibromodiphenyl ether	147217-71-8	50 µg/mL	Isooctane	BDE-008S	50
2,5-Dibromodiphenyl ether	33513-66-3	50 µg/mL	Isooctane	BDE-009S	160
2,6-Dibromodiphenyl ether	51930-04-2	50 µg/mL	Isooctane	BDE-010S	50
3,3'-Dibromodiphenyl ether	6903-63-5	50 µg/mL	Isooctane	BDE-011S	50
3,4-Dibromodiphenyl ether	189084-59-1	50 µg/mL	Isooctane	BDE-012S	50
3,4'-Dibromodiphenyl ether	83694-71-7	50 µg/mL	Isooctane	BDE-013S	90
3,5-Dibromodiphenyl ether	46438-88-4	50 µg/mL	Isooctane	BDE-014S	200
4,4'-Dibromodiphenyl ether	2050-47-7	50 µg/mL	Isooctane	BDE-015S	50
2,2',3-Tribromodiphenyl ether	147217-74-1	50 µg/mL	Isooctane	BDE-016S	200
2,2',4-Tribromodiphenyl ether	147217-75-2	50 µg/mL	Isooctane	BDE-017S	90
2,2',5-Tribromodiphenyl ether	407606-55-7	50 µg/mL	Isooctane	BDE-018S	160
2,2',6-Tribromodiphenyl ether	147217-73-0	50 µg/mL	Isooctane	BDE-019S	90
2,3,3'-Tribromodiphenyl ether	147217-76-3	50 µg/mL	Isooctane	BDE-020S	200
2,3,4-Tribromodiphenyl ether	337513-67-4	50 µg/mL	Isooctane	BDE-021S	160
2,3,4'-Tribromodiphenyl ether	446254-15-5	50 µg/mL	Isooctane	BDE-022S	200
2,3,5-Tribromodiphenyl ether	446254-16-6	50 µg/mL	Isooctane	BDE-023S	200
2,3,6-Tribromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-024S	200
2,3',4-Tribromodiphenyl ether	147217-77-4	50 µg/mL	Isooctane	BDE-025S	50
2,3',5-Tribromodiphenyl ether	337513-75-4	50 µg/mL	Isooctane	BDE-026S	160
2,3',6-Tribromodiphenyl ether	337513-53-8	50 µg/mL	Isooctane	BDE-027S	90
2,4,4'-Tribromodiphenyl ether	41318-75-6	50 µg/mL	Isooctane	BDE-028S	50
2,4,5-Tribromodiphenyl ether	337513-56-1	50 µg/mL	Isooctane	BDE-029S	200
2,4,6-Tribromodiphenyl ether	155999-95-4	50 µg/mL	Isooctane	BDE-030S	50
2,4',5-Tribromodiphenyl ether	65075-08-3	50 µg/mL	Isooctane	BDE-031S	160
2,4',6-Tribromodiphenyl ether	189084-60-4	50 µg/mL	Isooctane	BDE-032S	50
2',3,4-Tribromodiphenyl ether	147217-78-5	50 µg/mL	Isooctane	BDE-033S	50
2',3,5-Tribromodiphenyl ether	446254-17-7	50 µg/mL	Isooctane	BDE-034S	200
3,3',4-Tribromodiphenyl ether	147217-80-9	50 µg/mL	Isooctane	BDE-035S	50
3,3',5-Tribromodiphenyl ether	147217-79-6	50 µg/mL	Isooctane	BDE-036S	200
3,4,4'-Tribromodiphenyl ether	147217-81-0	50 µg/mL	Isooctane	BDE-037S	90
3,4,5-Tribromodiphenyl ether	337513-54-9	50 µg/mL	Isooctane	BDE-038S	200
3,4',5-Tribromodiphenyl ether		50 µg/mL	Isooctane	BDE-039S	200
2,2',3,3'-Tetrabromodiphenyl ether		50 µg/mL	Isooctane	BDE-040S	200
2,2',3,4-Tetrabromodiphenyl ether	337513-68-5	50 µg/mL	Isooctane	BDE-041S	200
2,2',3,4'-Tetrabromodiphenyl ether	446254-18-8	50 µg/mL	Isooctane	BDE-042S	200
2,2',3,5-Tetrabromodiphenyl ether	446254-19-9	50 µg/mL	Isooctane	BDE-043S	200
2,2',3,5'-Tetrabromodiphenyl ether	446254-20-2	50 µg/mL	Isooctane	BDE-044S	250
2,2',3,6-Tetrabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-045S	250
2,2',3,6'-Tetrabromodiphenyl ether	446254-22-4	50 µg/mL	Isooctane	BDE-046S	200
2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1	50 µg/mL	Isooctane	BDE-047S	50
2,2',4,5-Tetrabromodiphenyl ether	337513-55-0	50 µg/mL	Isooctane	BDE-048S	200
2,2',4,5'-Tetrabromodiphenyl ether	243982-82-3	50 µg/mL	Isooctane	BDE-049S	160
2,2',4,6-Tetrabromodiphenyl ether	446254-23-5	50 µg/mL	Isooctane	BDE-050S	90
2,2',4,6'-Tetrabromodiphenyl ether	189084-57-9	50 µg/mL	Isooctane	BDE-051S	90
2,2',5,5'-Tetrabromodiphenyl ether	446254-24-6	50 µg/mL	Isooctane	BDE-052S	250
2,2',5,6'-Tetrabromodiphenyl ether	446254-25-7	50 µg/mL	Isooctane	BDE-053S	200
2,2',6,6'-Tetrabromodiphenyl ether		50 µg/mL	Isooctane	BDE-054S	250
2,3,3',4-Tetrabromodiphenyl ether		50 µg/mL	Isooctane	BDE-055S	200
2,3,3',4'-Tetrabromodiphenyl ether		50 µg/mL	Isooctane	BDE-056S	250
2,3,3',5-Tetrabromodiphenyl ether		50 µg/mL	Isooctane	BDE-057S	200
2,3,3',5'-Tetrabromodiphenyl ether		50 µg/mL	Isooctane	BDE-058S	200
2,3,3',6-Tetrabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-059S	200
2,3,4,4'-Tetrabromodiphenyl ether	446254-31-5	50 µg/mL	Isooctane	BDE-060S	250
2,3,4,5-Tetrabromodiphenyl ether	446254-32-6	50 µg/mL	Isooctane	BDE-061S	200
2,3,4,6-Tetrabromodiphenyl ether	446254-33-7	50 µg/mL	Isooctane	BDE-062S	160
2,3,4',5-Tetrabromodiphenyl ether	446254-34-8	50 µg/mL	Isooctane	BDE-063S	200
2,3,4',6-Tetrabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-064S	200
2,3,5,6-Tetrabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-065S	250
2,3',4,4'-Tetrabromodiphenyl ether	189084-61-5	50 µg/mL	Isooctane	BDE-066S	90
2,3',4,5-Tetrabromodiphenyl ether	446254-37-1	50 µg/mL	Isooctane	BDE-067S	200
2,3',4,5'-Tetrabromodiphenyl ether	446254-38-2	50 µg/mL	Isooctane	BDE-068S	200
2,3',4,6-Tetrabromodiphenyl ether	327185-09-1	50 µg/mL	Isooctane	BDE-069S	90
2,3',4',5-Tetrabromodiphenyl ether	446254-39-3	50 µg/mL	Isooctane	BDE-070S	250
2,3',4',6-Tetrabromodiphenyl ether	189084-62-6	50 µg/mL	Isooctane	BDE-071S	90
2,3',5,5'-Tetrabromodiphenyl ether	446254-40-6	50 µg/mL	Isooctane	BDE-072S	200
2,3',5',6-Tetrabromodiphenyl ether	446254-41-7	50 µg/mL	Isooctane	BDE-073S	200
2,4,4',5-Tetrabromodiphenyl ether	446254-42-8	50 µg/mL	Isooctane	BDE-074S	200
2,4,4',6-Tetrabromodiphenyl ether	189084-63-7	50 µg/mL	Isooctane	BDE-075S	90

Additional congeners, mixes and metabolites are added continuously. Check our website for updates.

Polybrominated Diphenyl Ether (PBDE)
Congeners

Polybrominated Diphenyl Ethers (PBDEs) Congeners

Compound	CAS No.	Conc.	Solvent	Cat. No.	Price / 1 mL
2',3,4,5-Tetrabromodiphenyl ether	446254-43-9	50 µg/mL	Isooctane	BDE-076S	$ 200
3,3',4,4'-Tetrabromodiphenyl ether	93703-48-1	50 µg/mL	Isooctane	BDE-077S	90
3,3',4,5-Tetrabromodiphenyl ether	446254-45-1	50 µg/mL	Isooctane	BDE-078S	200
3,3',4,5'-Tetrabromodiphenyl ether	446254-48-4	50 µg/mL	Isooctane	BDE-079S	200
3,3',5,5'-Tetrabromodiphenyl ether	103173-66-6	50 µg/mL	Isooctane	BDE-080S	200
3,4,4',5-Tetrabromodiphenyl ether	446254-50-8	50 µg/mL	Isooctane	BDE-081S	200
2,2',3,3',4-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-082S	250
2,2',3,3',5-Pentabromodiphenyl ether	446254-51-9	50 µg/mL	Isooctane	BDE-083S	250
2,2',3,3',6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-084S	200
2,2',3,4,4'-Pentabromodiphenyl ether	182346-21-0	50 µg/mL	Isooctane	BDE-085S	90
2,2',3,4,5-Pentabromodiphenyl ether	446254-53-1	50 µg/mL	Isooctane	BDE-086S	200
2,2',3,4,5'-Pentabromodiphenyl ether	446254-54-2	50 µg/mL	Isooctane	BDE-087S	200
2,2',3,4,6-Pentabromodiphenyl ether	446254-55-3	50 µg/mL	Isooctane	BDE-088S	160
2,2',3,4,6'-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-089S	160
2,2',3,4',5-Pentabromodiphenyl ether	446254-57-5	50 µg/mL	Isooctane	BDE-090S	200
2,2',3,4',6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-091S	200
2,2',3,5,5'-Pentabromodiphenyl ether	446254-59-7	50 µg/mL	Isooctane	BDE-092S	200
2,2',3,5,6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-093S	250
2,2',3,5,6'-Pentabromodiphenyl ether	446254-61-1	50 µg/mL	Isooctane	BDE-094S	200
2,2',3,5',6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-095S	200
2,2',3,6,6'-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-096S	200
2,2',3',4,5-Pentabromodiphenyl ether	446254-64-4	50 µg/mL	Isooctane	BDE-097S	200
2,2',3',4,6-Pentabromodiphenyl ether	38463-82-0	50 µg/mL	Isooctane	BDE-098S	200
2,2',4,4',5-Pentabromodiphenyl ether	60348-60-9	50 µg/mL	Isooctane	BDE-099S	90
2,2',4,4',6-Pentabromodiphenyl ether	189084-64-8	50 µg/mL	Isooctane	BDE-100S	90
2,2',4,5,5'-Pentabromodiphenyl ether	446254-65-5	50 µg/mL	Isooctane	BDE-101S	200
2,2',4,5,6'-Pentabromodiphenyl ether	446254-66-6	50 µg/mL	Isooctane	BDE-102S	200
2,2',4,5',6-Pentabromodiphenyl ether	446254-67-7	50 µg/mL	Isooctane	BDE-103S	160
2,2',4,6,6'-Pentabromodiphenyl ether	446254-68-8	50 µg/mL	Isooctane	BDE-104S	200
2,3,3',4,4'-Pentabromodiphenyl ether	373594-78-6	50 µg/mL	Isooctane	BDE-105S	200
2,3,3',4,5-Pentabromodiphenyl ether	446254-69-9	50 µg/mL	Isooctane	BDE-106S	200
2,3,3',4',5-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-107S	200
2,3,3',4,5'-Pentabromodiphenyl ether	446254-71-3	50 µg/mL	Isooctane	BDE-108S	160
2,3,3',4,6-Pentabromodiphenyl ether	446254-72-4	50 µg/mL	Isooctane	BDE-109S	250
2,3,3',4',6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-110S	200
2,3,3',5,5'-Pentabromodiphenyl ether	446254-74-6	50 µg/mL	Isooctane	BDE-111S	200
2,3,3',5,6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-112S	250
2,3,3',5',6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-113S	200
2,3,4,4',5-Pentabromodiphenyl ether	446254-77-9	50 µg/mL	Isooctane	BDE-114S	200
2,3,4,4',6-Pentabromodiphenyl ether	446254-78-0	50 µg/mL	Isooctane	BDE-115S	160
2,3,4,5,6-Pentabromodiphenyl ether	189084-65-9	50 µg/mL	Isooctane	BDE-116S	90
2,3,4',5,6-Pentabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-117S	250
2,3',4,4',5-Pentabromodiphenyl ether	446254-80-4	50 µg/mL	Isooctane	BDE-118S	200
2,3',4,4',6-Pentabromodiphenyl ether	189084-66-0	50 µg/mL	Isooctane	BDE-119S	90
2,3',4,5,5'-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-120S	200
2,3',4,5',6-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-121S	200
2',3,3',4,5-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-122S	250
2',3,4,4',5-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-123S	200
2',3,4,5,5'-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-124S	200
2',3,4,5,6'-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-125S	200
3,3',4,4',5-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-126S	200
3,3',4,5,5'-Pentabromodiphenyl ether		50 µg/mL	Isooctane	BDE-127S	200
2,2',3,3',4,4'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-128S	90
2,2',3,3',4,5-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-129S	250
2,2',3,3',4,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-130S	200
2,2',3,3',4,6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-131S	200
2,2',3,3',4,6'-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-132S	200
2,2',3,3',5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-133S	250
2,2',3,3',5,6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-134S	200
2,2',3,3',5,6'-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-135S	200
2,2',3,3',6,6'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-136S	200
2,2',3,4,4',5-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-137S	200
2,2',3,4,4',5'-Hexabromodiphenyl ether	182677-30-1	50 µg/mL	Isooctane	BDE-138S	90
2,2',3,4,4',6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-139S	200
2,2',3,4,4',6'-Hexabromodiphenyl ether	243982-83-4	50 µg/mL	Isooctane	BDE-140S	200
2,2',3,4,5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-141S	200
2,2',3,4,5,6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-142S	160
2,2',3,4,5,6'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-143S	250
2,2',3,4,5',6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-144S	160
2,2',3,4,6,6'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-145S	250
2,2',3,4',5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-146S	200
2,2',3,4',5,6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-147S	250
2,2',3,4',5,6'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-148S	200
2,2',3,4',5',6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-149S	250
2,2',3,4',6,6'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-150S	250



PBDE Congeners continued on next page

Polybrominated Diphenyl Ether (PBDE)
Congeners

Polybrominated Diphenyl Ethers (PBDEs) Congeners

Compound	CAS No.	Conc.	Solvent	Cat. No.	Price / 1 mL
2,2',3,5,5',6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-151S	$ 250
2,2',3,5,6,6'-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-152S	250
2,2',4,4',5,5'-Hexabromodiphenyl ether	68631-49-2	50 µg/mL	Isooctane	BDE-153S	90
2,2',4,4',5,6'-Hexabromodiphenyl ether	207122-15-4	50 µg/mL	Isooctane	BDE-154S	90
2,2',4,4',6,6'-Hexabromodiphenyl ether	35854-94-5	50 µg/mL	Isooctane	BDE-155S	90
2,3,3',4,4',5-Hexabromodiphenyl ether	35854-94-5	50 µg/mL	Isooctane	BDE-156S	200
2,3,3',4,4',5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-157S	250
2,3,3',4,4',6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-158S	200
2,3,3',4,5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-159S	200
2,3,3',4,5,6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-160S	160
2,3,3',4,5',6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-161S	200
2,3,3',4',5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-162S	200
2,3,3',4',5,6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-163S	250
2,3,3',4',5',6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-164S	200
2,3,3',5,5',6-Hexabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-165S	250
2,3,4,4',5,6-Hexabromodiphenyl ether	189084-58-0	50 µg/mL	Isooctane	BDE-166S	90
2,3',4,4',5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-167S	200
2,3',4,4',5',6-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-168S	200
3,3',4,4',5,5'-Hexabromodiphenyl ether		50 µg/mL	Isooctane	BDE-169S	250
2,2',3,3',4,4',5-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-170S	200
2,2',3,3',4,4',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-171S	250
2,2',3,3',4,5,5'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-172S	200
2,2',3,3',4,5,6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-173S	200
2,2',3,3',4,5',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-175S	200
2,2',3,3',4',6,6'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-176S	250
2,2',3,3',4',5,6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-177S	250
2,2',3,3',5,5',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-178S	250
2,2',3,4,4',5,5'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-180S	200
2,2',3,4,4',5,6-Heptabromodiphenyl ether	189084-67-1	50 µg/mL	Isooctane	BDE-181S	160
2,2',3,4,4',5,6'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-182S	200
2,2',3,4,4',5',6-Heptabromodiphenyl ether	207122-16-5	50 µg/mL	Isooctane	BDE-183S	160
2,2',3,4,4',6,6'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-184S	200
2,2',3,4,5,5',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-185S	160
2,2',3,4,5,6,6'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-186S	250
2,2',3,4',5,5',6-Heptabromodiphenyl ether **NEW**		50 µg/mL	Isooctane	BDE-187S	250
2,2',3',4',5,6,6'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-188S	250
2,3,3',4,4',5,5'-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-189S	250
2,3,3',4,4',5,6-Heptabromodiphenyl ether	189084-68-2	50 µg/mL	Isooctane	BDE-190S	90
2,3,3',4,4',5',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-191S	200
2,3,3',4,5,5',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-192S	200
2,3,3',4',5,5',6-Heptabromodiphenyl ether		50 µg/mL	Isooctane	BDE-193S	250
2,2',3,3',4,4',5,5'-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-194S	200
2,2',3,3',4,4',5,6-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-195S	250
2,2',3,3',4,4',5,6'-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-196S	200
2,2',3,3',4,4',6,6'-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-197S	200
2,2',3,3',4,5,5',6-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-198S	200
2,2',3,3',4,5',6,6'-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-201S	250
2,2',3,3',5,5',6,6'-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-202S	250
2,2',3,4,4',5,5',6-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-203S	200
2,2',3,4,4',5,6,6'-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-204S	200
2,3,3',4,4',5,5',6-Octabromodiphenyl ether		50 µg/mL	Isooctane	BDE-205S	200
2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether		50 µg/mL	Isooctane	BDE-206S	250
2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether		50 µg/mL	Isooctane	BDE-207S-R1	250
2,2',3,3',4,5,5',6,6'-Nonabromodiphenyl ether		50 µg/mL	Isooctane	BDE-208S	250
Decabromodiphenyl ether	1163-19-5	50 µg/mL	Isooctane: Toluene 9:1	BDE-209S	50



Polybrominated Diphenyl Ether (PBDE)

Tech Grade PBDEs, Specific Mixes & Calibration Curve

Technical Grade PBDEs

PBDE Technical Grade

50 µg/mL in Isooctane	Cat. No.	Price / 1 mL
Bromkal™ DE-70-5 (Pentas)	BDE-705	$ 90
Bromkal DE-71 (Pentas)	BDE-710	90
Bromkal DE-73-6 (Hexas)	BDE-736	90
Bromkal DE-79-8 (Octas)	BDE-798	90
FR-300BA (Deca)	FRS-009N	15 / 10 mg
100 µg/mL in Toluene	FRS-009S	15

Bromkal™ is a registered Trade Mark of Chemische Fabrik Kalk

PBDE Congeners common to Technical Mixtures (Bromkal™)

BDE-BROMKAL **$ 275 / 1 x 1 mL**

10 µg/mL each in Isooctane 6 comps.

2,4,4'-Tribromodiphenyl ether (#28)
2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)

DE-71 (Pentas) Great Lakes

BDE-710-GL **$ 250 / 1 x 1 mL**

50 µg/mL each in Isooctane

Bromkal DE-71

DE-79 (Octas) Great Lakes

BDE-798-GL **$ 250 / 1 x 1 mL**

50 µg/mL each in Isooctane

DE-79 (Great Lakes)

Specific Mixtures

PBDEs Common in the Environment

BDE-USE **$ 250 / 1 x 1 mL**

10 µg/mL each in Isooctane 5 comps.

2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)

PBDEs - Columbia River Study

BDE-CR **$ 550 / 1 x 1 mL**

10 µg/mL each in Isooctane 12 comps.

4,4'-Dibromodiphenyl ether (#15)
2,4,4'-Tribromodiphenyl ether (#28)
2',3,4-Tribromodiphenyl ether (#33)
2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,2',4,5'-Tetrabromodiphenyl ether (#49)
2,3',4,4'-Tetrabromodiphenyl ether (#66)
2,4,4',6-Tetrabromodiphenyl ether (#75)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)
2,2',4,4',6,6'-Hexabromodiphenyl ether (#155)

PBDEs Common to California Environment

BDE-CAE-1 **$ 300 / 1 x 1 mL**

10 µg/mL each in Isooctane 7 comps.

2,4,4'-Tribromodiphenyl ether (#28)
2',3,4-Tribromodiphenyl ether (#33)
2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)

PBDEs - Lake Michigan Study

BDE-LMS **$ 400 / 1 x 1 mL**

10 µg/mL each in /sooctane 9 comps.

2,4,4'-Tribromodiphenyl ether (#28)
2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,3',4,4'-Tetrabromodiphenyl ether (#66)
2,2',3,4,4'-Pentabromodiphenyl ether (#85)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)

California Method 750-M Standard

BDE-CALEWS **$ 600 / 1 x 1 mL**

10 µg/mL each in Isooctane 13 comps.

2,2',4-Tribromodiphenyl ether (#17)
2,4,4'-Tribromodiphenyl ether (#28)
2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,3',4,4'-Tetrabromodiphenyl ether (#66)
2,3',4',6-Tetrabromodiphenyl ether (#71)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)
2,2',3,4,4',5,6-Heptabromodiphenyl ether (#183)
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (#209)
2,2',6,6'-Tetrabromobisphenol A

Method 527 - PBDE Standard

M-527-BDE **$ 250 / 1 x 1 mL**

50 µg/mL each in Isooctane:Ethyl Acetate (8:2) 5 comps.

2,2',4,4'-Tetrabromodiphenyl ether
2,2',4,4',6-Pentabromodiphenyl ether
2,2',4,4',5-Pentabromodiphenyl ether
2,2',4,4',5,5'-Hexabromodiphenyl ether
2,2',4,4',5,5'-Hexabromobiphenyl

Calibration Curve

ISO/DIS 22032 Calibration Curve Set

ISO/DIS-22032-SET **$ 475 / 7 x 1 mL**

At stated conc. (ng/mL) in Isooctane 8 comps. each

ISO/DIS-22032	01	02	03	04	05	06	07
2,2',4,4'-Tetrabromodiphenyl ether (#47)	5	12.5	25	50	100	150	250
2,2',4,4',5-Pentabromodiphenyl ether (#99)	5	12.5	25	50	100	150	250
2,2',4,4',6-Pentabromodiphenyl ether (#100)	5	12.5	25	50	100	150	250
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	5	12.5	25	50	100	150	250
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	5	12.5	25	50	100	150	250
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	5	12.5	25	50	100	150	250
2,3,3',4,4',5,5',6-Octabromodiphenyl ether (#205)	5	12.5	25	50	100	150	250
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (#209)	25	50	100	200	500	700	1000

ISO/DIS 22032 Internal Standard for BDE-47, 99 & 100

ISO22032-IS-1-5ML **$ 50 / 1 x 5 mL**
ISO22032-IS-1-10ML **$ 75 / 1 x 10 mL**

100 ng/mL each in Isooctane

3,3',4,4'-Tetrabromodiphenyl ether

ISO/DIS 22032 Internal Standard for BDE-153, 154 & 183

ISO22032-IS-2-5ML **$ 50 / 1 x 5 mL**
ISO22032-IS-2-10ML **$ 75 / 1 x 10 mL**

100 ng/mL each in Isooctane

2,2',3,4,4',5,6-Heptabromodiphenyl ether

Mixtures of PBDEs Standard Solution for Accuracy & Precision

BDE-AAP-A — **$ 195 / 1 x 1 mL**

At stated conc. in Isooctane — 39 comps.

	ng/mL
2-Bromodiphenyl ether (#1)	100
3-Bromodiphenyl ether (#2)	100
4-Bromodiphenyl ether (#3)	100
2,4-Dibromodiphenyl ether (#7)	100
2,4'-Dibromodiphenyl ether (#8)	100
2,6-Dibromodiphenyl ether (#10)	100
3,3'-Dibromodiphenyl ether (#11)	100
3,4-Dibromodiphenyl ether (#12)	100
3,4'-Dibromodiphenyl ether (#13)	100
4,4'-Dibromodiphenyl ether (#15)	100
2,2',4,-Tribromodiphenyl ether (#17)	100
2,3',4-Tribromodiphenyl ether (#25)	100
2,4,4'-Tribromodiphenyl ether (#28)	100
2,4,6-Tribromodiphenyl ether (#30)	100
2,4',6-Tribromodiphenyl ether (#32)	100
2',3,4-Tribromodiphenyl ether (#33)	100
3,3',4-Tribromodiphenyl ether (#35)	100
3,4,4'-Tribromodiphenyl ether (#37)	100
2,2',4,4'-Tetrabromodiphenyl ether (#47)	100
2,2',4,5'-Tetrabromodiphenyl ether (#49)	100
2,3',4,4'-Tetrabromodiphenyl ether (#66)	100
2,3',4',6-Tetrabromodiphenyl ether (#71)	100
2,4,4',6-Tetrabromodiphenyl ether (#75)	100
3,3',4,4'-Tetrabromodiphenyl ether (#77)	100
2,2',3,4,4'-Pentabromodiphenyl ether (#85)	150
2,2',4,4',5-Pentabromodiphenyl ether (#99)	150
2,2',4,4',6-Pentabromodiphenyl ether (#100)	150
2,3,4,5,6-Pentabromodiphenyl ether (#116)	150
2,3',4,4',5-Pentabromodiphenyl ether (#118)	150
2,3',4,4',6-Pentabromodiphenyl ether (#119)	150
3,3',4,4',5-Pentabromodiphenyl ether (#126)	150
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)	200
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	200
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	200
2,2',4,4',6,6'-Hexabromodiphenyl ether (#155)	200
2,3,4,4',5,6-Hexabromodiphenyl ether (#166)	200
2,2',3,4,4',5,6-Heptabromodiphenyl ether (#181)	250
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	250
2,3,3',4,4',5,6-Heptabromodiphenyl ether (#190)	250

BDE-AAP-A-15X — **$ 750 / 1 x 1 mL**

At stated conc. in Isooctane — 39 comps.

	µg/mL
2-Bromodiphenyl ether (#1)	1.5
3-Bromodiphenyl ether (#2)	1.5
4-Bromodiphenyl ether (#3)	1.5
2,4-Dibromodiphenyl ether (#7)	1.5
2,4'-Dibromodiphenyl ether (#8)	1.5
2,6-Dibromodiphenyl ether (#10)	1.5
3,3'-Dibromodiphenyl ether (#11)	1.5
3,4-Dibromodiphenyl ether (#12)	1.5
3,4'-Dibromodiphenyl ether (#13)	1.5
4,4'-Dibromodiphenyl ether (#15)	1.5
2,2',4-Tribromodiphenyl ether (#17)	1.5
2,3',4-Tribromodiphenyl ether (#25)	1.5
2,4,4'-Tribromodiphenyl ether (#28)	1.5
2,4,6-Tribromodiphenyl ether (#30)	1.5
2,4',6-Tribromodiphenyl ether (#32)	1.5
2',3,4-Tribromodiphenyl ether (#33)	1.5
3,3',4-Tribromodiphenyl ether (#35)	1.5
3,4,4'-Tribromodiphenyl ether (#37)	1.5
2,2',4,4'-Tetrabromodiphenyl ether (#47)	1.5
2,2',4,5'-Tetrabromodiphenyl ether (#49)	1.5
2,3',4,4'-Tetrabromodiphenyl ether (#66)	1.5
2,3',4',6-Tetrabromodiphenyl ether (#71)	1.5
2,4,4',6-Tetrabromodiphenyl ether (#75)	1.5
3,3',4,4'-Tetrabromodiphenyl ether (#77)	1.5
2,2',3,4,4'-Pentabromodiphenyl ether (#85)	2.25
2,2',4,4',5-Pentabromodiphenyl ether (#99)	2.25
2,2',4,4',6-Pentabromodiphenyl ether (#100)	2.25
2,3,4,5,6-Pentabromodiphenyl ether (#116)	2.25
2,3',4,4',5-Pentabromodiphenyl ether (#118)	2.25
2,3',4,4',6-Pentabromodiphenyl ether (#119)	2.25
3,3',4,4',5-Pentabromodiphenyl ether (#126)	2.25
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)	3.0
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	3.0
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	3.0
2,2',4,4',6,6'-Hexabromodiphenyl ether (#155)	3.0
2,3,4,4',5,6-Hexabromodiphenyl ether (#166)	3.0
2,2',3,4,4',5,6-Heptabromodiphenyl ether (#181)	3.75
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	3.75
2,3,3',4,4',5,6-Heptabromodiphenyl ether (#190)	3.75

Technical Note

Responding to the need for the analysis of polybrominated diphenyl ether (PBDE) congeners, the EPA has developed Method 1614. Method 1614 is recommended for analysis of aqueous, solid, tissue, and multi-phase environmental samples. Each formulation is prepared using PBDEs which are synthesized and analyzed by AccuStandard.

Additional congeners, mixes and metabolites are added continuously. For an update, check our website.
AccuStandard.com

Mixture of Commonly Occurring PBDE Congeners for Precision and Recovery

BDE-COC — **$ 600 / 1 x 1 mL**

At stated conc. in Isooctane — 14 comps.

	µg/mL
2,2',4,-Tribromodiphenyl ether (#17)	5
2,4,4'-Tribromodiphenyl ether (#28)	5
2,2',4,4'-Tetrabromodiphenyl ether (#47)	5
2,3',4,4'-Tetrabromodiphenyl ether (#66)	5
2,3',4',6-Tetrabromodiphenyl ether (#71)	5
2,2',3,4,4'-Pentabromodiphenyl ether (#85)	5
2,2',4,4',5-Pentabromodiphenyl ether (#99)	5
2,2',4,4',6-Pentabromodiphenyl ether (#100)	5
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)	5
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	5
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	5
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	5
2,3,3',4,4',5,6-Heptabromodiphenyl ether (#190)	5
Decabromodiphenyl ether (#209)	25

PBDE Congeners of Primary Interest

BDE-CSM — **$ 225 / 1 x 1 mL**

At stated conc. in Isooctane — 8 comps.

	µg/mL
2,4,4'-Tribromodiphenyl ether (#28)	20
2,2',4,4'-Tetrabromodiphenyl ether (#47)	20
2,2',4,4',5-Pentabromodiphenyl ether (#99)	20
2,2',4,4',6-Pentabromodiphenyl ether (#100)	20
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	20
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	20
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	20
Decabromodiphenyl ether (#209)	200

PBDE Congeners of Primary Interest

Calibration Mix

BDE-CM — **$ 65 / 1 x 1 mL**

At stated conc. in Isooctane — 8 comps.

	µg/mL
2,4,4'-Tribromodiphenyl ether (#28)	2.5
2,2',4,4'-Tetrabromodiphenyl ether (#47)	2.5
2,2',4,4',5-Pentabromodiphenyl ether (#99)	2.5
2,2',4,4',6-Pentabromodiphenyl ether (#100)	2.5
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	2.5
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	2.5
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	2.5
Decabromodiphenyl ether (#209)	25

Matrix Spiking Solution

BDE-MS — **$ 40 / 1 x 1 mL**

At stated conc. in Isooctane — 8 comps.

	ng/mL
2,4,4'-Tribromodiphenyl ether (#28)	1
2,2',4,4'-Tetrabromodiphenyl ether (#47)	1
2,2',4,4',5-Pentabromodiphenyl ether (#99)	1
2,2',4,4',6-Pentabromodiphenyl ether (#100)	1
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	1
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	1
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	1
Decabromodiphenyl ether (#209)	10

PBDEs in Method 1614

BDE-EPA-SET — **$ 500 / 8 x 1 mL**

50 µg/mL each in Isooctane — 8 comps.

- 2,4,4'-Tribromodiphenyl ether (#28)
- 2,2',4,4'-Tetrabromodiphenyl ether (#47)
- 2,2',4,4',5-Pentabromodiphenyl ether (#99)
- 2,2',4,4',6-Pentabromodiphenyl ether (#100)
- 2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
- 2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)
- 2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)
- Decabromodiphenyl ether (#209)

Hydroxy and Methoxy Polybromodiphenyl Ether Congeners

Hydroxylated and methoxylated PBDEs may be formed as metabolites of the widely used PBDE flame retardants. AccuStandard's aim is to synthesize authentic OH-and MeO-PBDE reference standards for analytical and toxicological studies. These metabolites can be found wherever there are PBDEs, and they present their own toxicological hazard. This effect is well known with PCBs where the hydroxylated species is often more toxic than the parent compounds. Please check the website for the latest update of this list or request specific congeners to be synthesized.

Short Form	Compound	Conc.	Solvent	Cat. No.	Price / 1 mL
Hydroxy					
2'-OH-BDE-003	2'-Hydroxy-4-monobromodiphenyl ether	50 µg/mL	AcCN	HBDE-1001S-CN	$ 75
3'-OH-BDE-007	3'-Hydroxy-2,4-dibromodiphenyl ether	50 µg/mL	AcCN	HBDE-2001S-CN	75
2'-OH-BDE-007	2'-Hydroxy-2,4-dibromodiphenyl ether	10 µg/mL	AcCN	HBDE-2002S-CN-0.2X	190
4'-OH-BDE-017	4'-Hydroxy-2,2',4-tribromodiphenyl ether	50 µg/mL	AcCN	HBDE-3001S-CN	140
3'-OH-BDE-028	3'-Hydroxy-2,4,4'-tribromodiphenyl ether	50 µg/mL	AcCN	HBDE-3002S-CN	75
2'-OH-BDE-028	2'-Hydroxy-2,4,4'-tribromodiphenyl ether	50 µg/mL	AcCN	HBDE-3003S-CN	75
5'-OH-BDE-025	5'-Hydroxy-2,3',4-tribromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-3004S-CN	140
4-OH-BDE-042	4-Hydroxy-2,2',3,4'-tetrabromodiphenyl ether	10 µg/mL	AcCN	HBDE-4001S-CN-0.2X	140
4'-OH-BDE-049	4'-Hydroxy-2,2',4,5'-tetrabromodiphenyl ether	10 µg/mL	AcCN	HBDE-4002S-CN-0.2X	125
3-OH-BDE-047	3-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	50 µg/mL	AcCN	HBDE-4003S-CN	75
5-OH-BDE-047	5-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	50 µg/mL	AcCN	HBDE-4004S-CN	75
6-OH-BDE-047	6-Hydroxy-2,2',4,4'-tetrabromodiphenyl ether	10 µg/mL	AcCN	HBDE-4005S-CN-0.2X	190
		10 µg/mL	Toluene	HBDE-4005S-T-0.2X	190
2'-OH-BDE-068	2'-Hydroxy-2,3',4,5'-tetrabromodiphenyl ether	10 µg/mL	AcCN	HBDE-4006S-CN-0.2X	140
		10 µg/mL	Toluene	HBDE-4006S-T-0.2X	140
		50 µg/mL	AcCN	HBDE-4006S-CN	140
		50 µg/mL	Toluene	HBDE-4006S-T	140
2'-OH-BDE-075	2'-Hydroxy-2,4,4',6-tetrabromodiphenyl ether DISCONTINUED	10 µg/mL	AcCN	HBDE-4007S-CN-0.2X	140
4-OH-BDE-090	4-Hydroxy-2,2',3,4',5-pentabromodiphenyl ether	10 µg/mL	AcCN	HBDE-5001S-CN-0.2X	160
6-OH-BDE-085	6-Hydroxy-2,2',3,4,4'-pentabromodiphenyl ether	10 µg/mL	AcCN	HBDE-5002S-CN-0.2X	160
6-OH-BDE-087	6-Hydroxy-2,2',3,4,5'-pentabromodiphenyl ether	10 µg/mL	AcCN	HBDE-5003S-CN-0.2X	160
6-OH-BDE-082	6-Hydroxy-2,2',3,3',4-pentabromodiphenyl ether	10 µg/mL	AcCN	HBDE-5005S-CN-0.2X	190
6'-OH-BDE-099	6'-Hydroxy-2,2',4,4',5-pentabromodiphenyl ether	10 µg/mL	AcCN	HBDE-5006S-CN-0.2X	190
5'-OH-BDE-099	5'-Hydroxy-2,2',4,4',5-pentabromodiphenyl ether	10 µg/mL	AcCN	HBDE-5007S-CN-0.2X	140
3-OH-BDE-100	3-Hydroxy-2,2',4,4',6-pentabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-5008S-CN	190
4'-OH-BDE-101	4'-Hydroxy-2,2',4,5,5'-pentabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-5009S-CN	190
6-OH-BDE-157	6-Hydroxy-2,3,3',4,4',5'-hexabromodiphenyl ether	10 µg/mL	AcCN	HBDE-6001S-CN-0.2X	190
6-OH-BDE-140	6-Hydroxy-2,2',3,4,4',6'-hexabromodiphenyl ether	10 µg/mL	AcCN	HBDE-6002S-CN-0.2X	190
3'-OH-BDE-154	3'-Hydroxy-2,2',4,4',5',6-hexabromodiphenyl ether	10 µg/mL	AcCN	HBDE-6003S-CN-0.2X	140
6-OH-BDE-137	6-Hydroxy-2,2',3,4,4',5-hexabromodiphenyl ether **NEW**	10 µg/mL	AcCN	HBDE-6004S-CN-0.2X	190
4-OH-BDE-146	4-Hydroxy-2,2',3,4',5,5'-hexabromodiphenyl ether **NEW**	10 µg/mL	AcCN	HBDE-6006S-CN-0.2X	190
4-OH-BDE-187	4-Hydroxy-2,2',3,4',5,5',6-heptabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-7001S-CN	140
6-OH-BDE-180	6-Hydroxy-2,2',3,4,4',5,5'-heptabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-7002S-CN	140
4-OH-BDE-188	4-Hydroxy-2,2',3,4',5,6,6'-heptabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-7003S-CN	190
6-OH-BDE-182	6-Hydroxy-2,2',3,4,4',5,6'-heptabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-7004S-CN-0.2X	190
4'-OH-BDE-201	4'-Hydroxy-2,2',3,3',4,5',6,6'-octabromodiphenyl ether **NEW**	50 µg/mL	AcCN	HBDE-8001S-CN	190
Methoxy					
2'-MeO-BDE-003	2'-Methoxy-4-monobromodiphenyl ether	50 µg/mL	MeOH	MOBDE-1001S	75
3'-MeO-BDE-007	3'-Methoxy-2,4-dibromodiphenyl ether	50 µg/mL	MeOH	MOBDE-2001S	75
2'-MeO-BDE-007	2'-Methoxy-2,4-dibromodiphenyl ether	10 µg/mL	MeOH	MOBDE-2002S-0.2X	190
4'-MeO-BDE-017	4'-Methoxy-2,2',4-tribromodiphenyl ether	50 µg/mL	MeOH	MOBDE-3001S	140
3'-MeO-BDE-028	3'-Methoxy-2,4,4'-tribromodiphenyl ether	50 µg/mL	MeOH	MOBDE-3002S	75
2'-MeO-BDE-028	2'-Methoxy-2,4,4'-tribromodiphenyl ether	50 µg/mL	MeOH	MOBDE-3003S	75
5'-MeO-BDE-025	5'-Methoxy-2,3',4-tribromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-3004S	190
4-MeO-BDE-042	4-Methoxy-2,2',3,4'-tetrabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-4001S-0.2X	140
4'-MeO-BDE-049	4'-Methoxy-2,2',4,5'-tetrabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-4002S-0.2X	125
3-MeO-BDE-047	3-Methoxy-2,2',4,4'-tetrabromodiphenyl ether	50 µg/mL	MeOH	MOBDE-4003S	75
5-MeO-BDE-047	5-Methoxy-2,2',4,4'-tetrabromodiphenyl ether	50 µg/mL	MeOH	MOBDE-4004S	75
6-MeO-BDE-047	6-Methoxy-2,2',4,4'-tetrabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-4005S-0.2X	160
2'-MeO-BDE-068	2'-Methoxy-2,3',4,5'-tetrabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-4006S-0.2X	140
2'-MeO-BDE-075	2'-Methoxy-2,4,4',6-tetrabromodiphenyl ether	50 µg/mL	MeOH	MOBDE-4007S	190
4-MeO-BDE-090	4-Methoxy-2,2',3,4',5-pentabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-5001S-0.2X	160
6-MeO-BDE-085	6-Methoxy-2,2',3,4,4'-pentabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-5002S-0.2X	160
6-MeO-BDE-087	6-Methoxy-2,2',3,4,5'-pentabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-5003S-0.2X	160
6-MeO-BDE-082	6-Methoxy-2,2',3,3',4-pentabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-5005S-0.2X	140
6'-MeO-BDE-099	6'-Methoxy-2,2',4,4',5-pentabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-5006S-0.2X	190
5'-MeO-BDE-099	5'-Methoxy-2,2',4,4',5-pentabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-5007S-0.2X	140
3-MeO-BDE-100	3-Methoxy-2,2',4,4',6-pentabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-5008S	75
4'-MeO-BDE-101	4'-Methoxy-2,2',4,5,5'-pentabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-5009S	190
2-MeO-BDE-123	2-Methoxy-2',3,4,4',5-pentabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-5011S	190
6-MeO-BDE-157	6-Methoxy-2,3,3',4,4',5'-hexabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-6001S-0.2X	190
6-MeO-BDE-140	6-Methoxy-2,2',3,4,4',6'-hexabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-6002S-0.2X	190
3-MeO-BDE-154	3-Methoxy-2,2',4,4',5',6-hexabromodiphenyl ether	10 µg/mL	MeOH	MOBDE-6003S-0.2X	140
6-MeO-BDE-137	6-Methoxy-2,2',3,4,4',5-hexabromodiphenyl ether **NEW**	10 µg/mL	MeOH	MOBDE-6004S-0.2X	140
3'-MeO-BDE-154	3'-Methoxy-2,2',4,4',5,6-hexabromodiphenyl ether **NEW**	10 µg/mL	MeOH	MOBDE-6005S	190
4-MeO-BDE-187	4-Methoxy-2,2',3,4',5,5',6-heptabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-7001S	190
6-MeO-BDE-180	6-Methoxy-2,2',3,4,4',5,5'-heptabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-7002S	190
4-MeO-BDE-188	4-Methoxy-2,2',3,4',5,6,6'-heptabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-7003S	190
6-MeO-BDE-182	6-Methoxy-2,2',3,4,4',5,6'-heptabromodiphenyl ether **NEW**	10 µg/mL	MeOH	MOBDE-7004S-0.2X	190
4'-MeO-BDE-201	4'-Methoxy-2,2',3,3',4,5',6,6'-octabromodiphenyl ether **NEW**	50 µg/mL	MeOH	MOBDE-8001S	190

Fluorinated PBDE Congeners

Internal Standards for PBDE Analysis

Some research suggests that a fluorine derivative of the PBDE parent compound can be used as a less costly replacement than the ^{13}C labeled PBDEs currently used. In addition, FBDEs can be used for ECD (Electron Capture Detection) analysis where the more expensive ^{13}C labeled PBDEs cannot. Experimental testing also suggests that the use of FBDEs as internal standards show improved precision in PBDE analysis. AccuStandard has synthesized the following FBDEs for use as internal standards and has committed to adding to this list based on requests from analytical chemists:

Short Form	Compound	Conc.	Solvent	Cat. No.	Price / 1 mL
F-BDE-003	4'-Fluoro-4-bromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-1001S-0.5X	$ 190
		50 µg/mL	Isooctane	FBDE-1001S	275
F-BDE-007	3'-Fluoro-2,4-dibromodiphenyl ether	25 µg/mL	Isooctane	FBDE-2001S-0.5X	195
		50 µg/mL	Isooctane	FBDE-2001S	275
F-BDE-012	3'-Fluoro-3,4-dibromodiphenyl ether	25 µg/mL	Isooctane	FBDE-2002S-0.5X	195
		50 µg/mL	Isooctane	FBDE-2002S	275
F-BDE-015	2-Fluoro-4,4'-dibromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-2003S-0.5X	190
		50 µg/mL	Isooctane	FBDE-2003S	175
F-BDE-025	4'-Fluoro-2,3',4-tribromodiphenyl ether	25 µg/mL	Isooctane	FBDE-3001S-0.5X	195
		50 µg/mL	Isooctane	FBDE-3001S	275
F-BDE-027	4'-Fluoro-2,3',6-tribromodiphenyl ether	25 µg/mL	Isooctane	FBDE-3002S-0.5X	195
		50 µg/mL	Isooctane	FBDE-3002S	275
F-BDE-028	2'-Fluoro-2,4,4'-tribromodiphenyl ether	25 µg/mL	Isooctane	FBDE-3003S-0.5X	195
		50 µg/mL	Isooctane	FBDE-3003S	275
F-BDE-028	3'-Fluoro-2,4,4'-tribromodiphenyl ether	25 µg/mL	Isooctane	FBDE-3004S-0.5X	195
		50 µg/mL	Isooctane	FBDE-3004S	275
F-BDE-069	4'-Fluoro-2,3',4,6-tetrabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-4001S-0.5X	195
		50 µg/mL	Isooctane	FBDE-4001S	275
F-BDE-067	4'-Fluoro-2,3',4,5-tetrabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-4002S-0.5X	195
		50 µg/mL	Isooctane	FBDE-4002S	275
F-BDE-047	6-Fluoro-2,2',4,4'-tetrabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-4003S-0.5X	195
		50 µg/mL	Isooctane	FBDE-4003S	275
F-BDE-066	6-Fluoro-2,3',4,4'-tetrabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-4004S-0.5X	195
		50 µg/mL	Isooctane	FBDE-4004S	275
2F-BDE-047	5,5'-Difluoro-2,2',4,4'-tetrabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-4005S-0.5X	195
		50 µg/mL	Isooctane	FBDE-4005S	275
F-BDE-070	3-Fluoro-2,3',4',5-tetrabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-4006S-0.5X	190
		50 µg/mL	Isooctane	FBDE-4006S	250
F-BDE-077	5-Fluoro-3,3',4,4'-tetrabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-4007S-0.5X	250
		50 µg/mL	Isooctane	FBDE-4007S	350
F-BDE-099	6'-Fluoro-2,2',4,4',5-pentabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-5001S-0.5X	250
		50 µg/mL	Isooctane	FBDE-5001S	350
F-BDE-100	3-Fluoro-2,2',4,4',6-pentabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-5002S-0.5X	195
		50 µg/mL	Isooctane	FBDE-5002S	275
2F-BDE-099	3,6-Difluoro-2,2',4,4',5-pentabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-5003S-0.5X	195
		50 µg/mL	Isooctane	FBDE-5003S	275
2F-BDE-085	5,6-Difluoro-2,2',3,4,4'-pentabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-5004S-0.5X	195
		50 µg/mL	Isooctane	FBDE-5004S	275
2F-BDE-119	3,5-Difluoro-2,3',4,4',6-pentabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-5005S-0.5X	195
		50 µg/mL	Isooctane	FBDE-5005S	275
F-BDE-124	3'-Fluoro-2',3,4,5,5'-pentabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-5006S-0.5X	190
		50 µg/mL	Isooctane	FBDE-5006S	250
F-BDE-118	5'-Fluoro-2,3',4,4',5-pentabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-5007S-0.5X	190
		50 µg/mL	Isooctane	FBDE-5007S	250
F-BDE-126	5'-Fluoro-3,3',4,4',5-pentabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-5008S-0.5X	190
		50 µg/mL	Isooctane	FBDE-5008S	250
F-BDE-160	4'-Fluoro-2,3,3',4,5,6-hexabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-6001S-0.5X	195
		50 µg/mL	Isooctane	FBDE-6001S	275
F-BDE-139	3-Fluoro-2,2',4,4',5,6-hexabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-6002S-0.5X	195
		50 µg/mL	Isooctane	FBDE-6002S	275
F-BDE-153	3-Fluoro-2,2',4,4',5,5'-hexabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-6003S-0.5X	250
		50 µg/mL	Isooctane	FBDE-6003S	350
F-BDE-154	3'-Fluoro-2,2',4,4',5,6'-hexabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-6004S-0.5X	110
		50 µg/mL	Isooctane	FBDE-6004S	190
F-BDE-183	3-Fluoro-2,2',4,4',5,5',6-heptabromodiphenyl ether **NEW**	25 µg/mL	Isooctane	FBDE-7001S-0.5X	250
		50 µg/mL	Isooctane	FBDE-7001S	350
2F-BDE-201	4',6-Difluoro-2,2',3,3',4,5,5',6'-octabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-8001S-0.5X	195
		50 µg/mL	Isooctane	FBDE-8001S	275
F-BDE-208	4'-Fluoro-2,2',3,3',4,5,5',6,6'-nonabromodiphenyl ether	25 µg/mL	Isooctane	FBDE-9001S-0.5X	195
		50 µg/mL	Isooctane	FBDE-9001S	275

Simplify PBDE analyses with fluorinated Internal Standards.

Fluorinated PBDE Internal Standards provide a more cost effective alternative to ^{13}C isotopes.

GC Retention "interaction" differs from those of the native PBDEs, by not co-eluting with the analogous congener. FBDEs produce unique mass spectra easily distinguishable from PBDEs.

AccuStandard is in the process of preparing a detailed study of the benefit for using FBDEs as Internal Standards.

Mixed Bromo/Chloro Hydroxylated Diphenyl Ethers

The abundance of PBDEs in the environment led to the increased detection of hydroxylated PBDEs (OH-PBDEs) as well as their chlorinated derivatives (OH-PBCDEs) especially in aquatic environments. Several pathways of their formation have been described in the literature. NEW

In saltwater systems, some of the OH-PBDEs are being produced naturally; while in freshwater systems, atmospheric and wastewater treatment oxidation seems to be the major source of these compounds. Furthermore, disinfection of wastewater with chlorine may lead to the chlorination of OH-PBDEs. These mixed bromo/chloro hydroxy diphenyl ethers (OH-PBCDEs) can then undergo photochemical cyclization in the presence of sunlight to form the potentially even more harmful brominated/chlorinated dibenzo-p-dioxins (Br/Cl-DDs). There is growing concern that both naturally and anthropogenically produced PBDDs and Br/Cl-DDs are an emerging environmental problem.

At AccuStandard, following the lead of environmental chemists, we recognize the emerging problem of the presence of OH-PBCDEs. We have synthesized three OH-PBCDEs and their methylated counterparts to provide reference standards for this new group of compounds. All three chlorinated OH-PBDEs are based on the structure of BDE-47, the most common BDE congener found in environmental samples.

AccuStandard will synthesize more derivatives as demand for these compounds develops.

Compound (Short Form)	Conc.	Solvent	Cat. No.	Price / 1 mL
Hydroxy				
3-Chloro-6-hydroxy-2,2',4,4'-tetrabromodiphenyl ether (3-Cl-6-OH-BDE-047)	25 µg/mL	Acetonitrile	HCBDE-4001S-0.5X	195
	50 µg/mL	Acetonitrile	HCBDE-4001S	275
3,5-Dichloro-6-hydroxy-2,2',4,4'-tetrabromodiphenyl ether (3,5-Cl2-6-OH-BDE-047)	25 µg/mL	Acetonitrile	HCBDE-4002S-0.5X	195
	50 µg/mL	Acetonitrile	HCBDE-4002S	275
5-Chloro-6-hydroxy-2,2',4,4'-tetrabromodiphenyl ether (5-Cl-6-OH-BDE-047)	25 µg/mL	Acetonitrile	HCBDE-4003S-0.5X	195
	50 µg/mL	Acetonitrile	HCBDE-4003S	275
Methoxy				
3-Chloro-6-methoxy-2,2',4,4'-tetrabromodiphenyl ether (3-Cl-6-MeO-BDE-047)	25 µg/mL	Methanol	MOCBDE-4001S-0.5X	195
	50 µg/mL	Methanol	MOCBDE-4001S	275
3,5-Dichloro-6-methoxy-2,2',4,4'-tetrabromodiphenyl ether (3,5-Cl2-6-MeO-BDE-047)	25 µg/mL	Methanol	MOCBDE-4002S-0.5X	195
	50 µg/mL	Methanol	MOCBDE-4002S	275
5-Chloro-6-methoxy-2,2',4,4'-tetrabromodiphenyl ether (5-Cl-6-MeO-BDE-047)	25 µg/mL	Methanol	MOCBDE-4003S-0.5X	195
	50 µg/mL	Methanol	MOCBDE-4003S	275

Hexabromocyclododecane Isomers

Compound	Conc.	Matrix	Cat. No.	Price / 1 mL
α-Hexabromocyclododecane	100 µg/mL	Toluene	HXBCD-01	$ 175
β-Hexabromocyclododecane	100 µg/mL	Toluene	HXBCD-02	175
γ-Hexabromocyclododecane	100 µg/mL	Toluene	HXBCD-03	100



Bromobiphenyls, Bromophenols, Bromoanisoles

Bromobiphenyl Congeners

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price / 1 mL
2-Bromobiphenyl	2052-07-5	50 mg	NEAT	B-001N	$ 20
		35 µg/mL	Isooctane	B-001S	20
		1 mg/mL	Acetone	M-8081-SS-X	10
3-Bromobiphenyl	2113-57-7	50 mg	NEAT	B-002N	12
		35 µg/mL	Isooctane	B-002S	20
4-Bromobiphenyl	92-66-0	50 mg	NEAT	B-003N	12
		35 µg/mL	Isooctane	B-003S	20
2,2'-Dibromobiphenyl	13029-09-9	10 mg	NEAT	B-004N	55
		35 µg/mL	Isooctane	B-004S	20
2,4-Dibromobiphenyl	53592-10-2	10 mg	NEAT	B-007N-10MG	18
		35 µg/mL	Isooctane	B-007S	20
2,5-Dibromobiphenyl	57422-77-2	25 mg	NEAT	B-009N	32
		35 µg/mL	Isooctane	B-009S	20
2,6-Dibromobiphenyl	59080-32-9	5 mg	NEAT	B-010N-5MG	12
		35 µg/mL	Isooctane	B-010S	20
4,4'-Dibromobiphenyl	92-86-4	10 mg	NEAT	B-015N	18
		35 µg/mL	Isooctane	B-015S	20
2,2',5-Tribromobiphenyl	59080-34-1	10 mg	NEAT	B-018N	12
		35 µg/mL	Isooctane	B-018S	20
2,3',5-Tribromobiphenyl	59080-35-2	10 mg	NEAT	B-026N	12
		35 µg/mL	Isooctane	B-026S	20
2,4,5-Tribromobiphenyl	115245-07-3	35 µg/mL	Isooctane	B-029S	85
2,4,6-Tribromobiphenyl	59080-33-0	25 mg	NEAT	B-030N	32
		35 µg/mL	Isooctane	B-030S	20
2,4',5-Tribromobiphenyl	59080-35-3	10 mg	NEAT	B-031N	12
		35 µg/mL	Isooctane	B-031S	20
2,2',4,5'-Tetrabromobiphenyl	60044-24-8	5 mg	NEAT	B-049N-5MG	40
		35 µg/mL	Isooctane	B-049S	20
2,2',5,5'-Tetrabromobiphenyl	59080-37-4	10 mg	NEAT	B-052N	32
		35 µg/mL	Isooctane	B-052S	20
2,2',5,6'-Tetrabromobiphenyl	60044-25-9	5 mg	NEAT	B-053N-5MG	28
		35 µg/mL	Isooctane	B-053S	20
3,3',4,4'-Tetrabromobiphenyl	77102-82-0	35 µg/mL	Isooctane	B-077S	30
3,3',5,5'-Tetrabromobiphenyl	16400-50-3	35 µg/mL	Isooctane	B-080S	30
2,3,4,4',5-Pentabromobiphenyl **NEW**	96551-70-1	35 µg/mL	Isooctane	B-114S	175
2,2',4,5,5'-Pentabromobiphenyl	67888-96-4	5 mg	NEAT	B-101N	145
		35 µg/mL	Isooctane	B-101S	30
2,2',4,5',6-Pentabromobiphenyl	59080-39-6	5 mg	NEAT	B-103N	42
		35 µg/mL	Isooctane	B-103S	30
2,2',3,4,4',5-Hexabromobiphenyl **NEW**	81381-52-4	35 µg/mL	Isooctane	B-137S	175
2,2',3,4,5,5'-Hexabromobiphenyl **NEW**	120991-47-1	35 µg/mL	Isooctane	B-141S	150
2,2',4,4',5,5'-Hexabromobiphenyl	59080-40-9	35 µg/mL	Isooctane	B-153S	95
2,2',4,4',6,6'-Hexabromobiphenyl	59261-08-4	5 mg	NEAT	B-155N	65
		35 µg/mL	Isooctane	B-155S	30
2,3,3',4,4',5-Hexabromobiphenyl **NEW**	77607-09-1	35 µg/mL	Isooctane	B-156S	85
2,3,3',4,5,5'-Hexabromobiphenyl **NEW**		35 µg/mL	Isooctane	B-159S	115
3,3',4,4',5,5'-Hexabromobiphenyl	60044-26-0	35 µg/mL	Isooctane	B-169S	30
2,2',3,4,4',5,5'-Heptabromobiphenyl **NEW**	67733-52-2	35 µg/mL	Isooctane	B-180S	160
2,3,3',4,4',5,5'-Heptabromobiphenyl **NEW**		35 µg/mL	Isooctane	B-189S	85
2,2',3,3',4,4',5,5'-Octabromobiphenyl **NEW**		35 µg/mL	Isooctane	B-194S	145
2,2',3,3',4,5',6,6'-Octabromobiphenyl		35 µg/mL	Isooctane	B-200S	150
Decabromobiphenyl	13654-09-6	25 mg	NEAT	B-209N	20
		35 µg/mL	Isooctane:Acetone (98:2)	B-209S	20

Bromophenols and their Methyl Ethers

Bromophenols

Each at 100 µg/mL in Toluene

Compound	CAS No.	Cat. No.	Price / 1 mL
3-Bromophenol		BP-003S	$ 15
4-Bromophenol		BP-004S	15
2,3-Dibromophenol	57383-80-9	BP-023S	75
2,4-Dibromophenol		BP-024S	15
2,5-Dibromophenol	28165-52-8	BP-025S	75
2,6-Dibromophenol		BP-026S	25
3,5-Dibromophenol	626-41-5	BP-035S	75
2,3,4-Tribromophenol		BP-234S	75
2,4,5-Tribromophenol		BP-245S	75
2,4,6-Tribromophenol		BP-246S	15
3,4,5-Tribromophenol		BP-345S	75
2,3,4,5-Tetrabromophenol		BP-2345S	75
2,3,4,6-Tetrabromophenol		BP-2346S	75
2,3,5,6-Tetrabromophenol		BP-2356S	75
Pentabromophenol	608-71-9	BP-23456S	15

Bromoanisoles (Bromophenyl methyl ether)

Each at 50 µg/mL in Methanol

Compound	CAS No.	Cat. No.	Price / 1 mL
2-Bromoanisole	578-57-4	BAN-01	$ 45
3-Bromoanisole	2398-37-0	BAN-02	45
4-Bromoanisole	104-92-7	BAN-03	45
2,3-Dibromoanisole		BAN-04	75
2,4-Dibromoanisole	21702-84-1	BAN-05	45
2,5-Dibromoanisole		BAN-06	75
2,6-Dibromoanisole		BAN-07	45
3,5-Dibromoanisole	74137-36-3	BAN-08	45
2,4,5-Tribromoanisole		BAN-09	95
2,4,6-Tribromoanisole	607-99-8	BAN-10	45

Bromine Containing Industrial Flame Retardants (BFRs)

Priority Pollutants According to the Norwegian Pollution Control Authority (SFT)
To review and assess the current state of knowledge on emerging "new" BFRs, the selected substances are monitored for their environmental levels including, data on toxicity and ecotoxicity, potential to bioconcentrate and bioaccumulate in the food web, possible analytical methods, their persistence in the environment and other data. This information is used to select compounds that, based on the current state of knowledge, can be relevant for further monitoring.

For this purpose, the Norwegian Pollution Control Authority (SFT) has commissioned the Environmental Research Institute of Norway (NILU), Swerea IVF (Sweden) and WECC Wania Environmental Chemist Corp. (Canada) to perform this study.

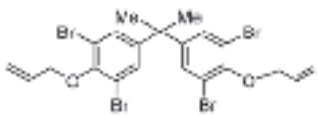
AccuStandard, Inc. has either synthesized or collected these 21 new BFR Standards and offers them to the environmental chemist for the first time in this (nearly) complete form.

Note: Compounds are available in different solvents, please request a custom quotation.

Neats at 10 mg. Solutions at 100 µg/mL in 1 mL

Tetrabromobisphenol A diallyl ether

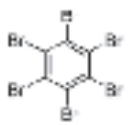
[25327-89-3] $C_{21}H_{20}Br_4O_2$ FW 624.0



Matrix	Cat. No.	Price
NEAT	FRS-045N	$ 25
Toluene	FRS-045S	25

Hexabromobenzene

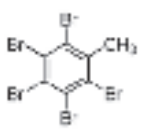
[87-82-1] C_6H_6 FW 551.49



Matrix	Cat. No.	Price
NEAT	FRS-012N	$ 15
Toluene	FRS-012S	15

Pentabromotoluene

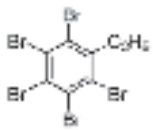
[87-83-2] $C_7H_3Br_5$ FW 486.62



Matrix	Cat. No.	Price
NEAT	FRS-018N	$ 15
Toluene	FRS-018S	15

Pentabromoethylbenzene

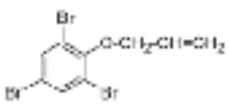
[85-22-3] $C_8H_5Br_5$ FW 500.65



Matrix	Cat. No.	Price
Toluene	FRS-048S	$ 25

2,4,6-Tribromophenyl allyl ether

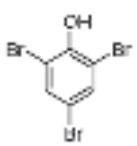
[3278-89-5] $C_9H_7Br_3O$ FW 370.86



Matrix	Cat. No.	Price
NEAT	FRS-043N	$ 65
Toluene	FRS-043S	35

2,4,6-Tribromophenol

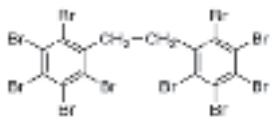
[118-79-6] $C_6H_3Br_3O$ FW 330.80



Matrix	Cat. No.	Price
NEAT	BP-246N	
Toluene	BP-246S	15

Decabromodiphenylethane

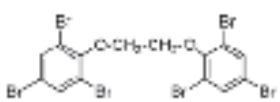
[84852-53-9] $C_{14}H_4Br_{10}$ FW 971.22



Matrix	Cat. No.	Price
NEAT	FRS-036N	$ 30
Toluene	FRS-036S	35

1,2-bis(2,4,6-Tribromophenoxy)ethane

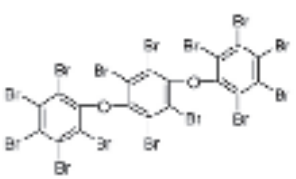
[37853-59-1] $C_{14}H_8Br_6O_2$ FW 687.64



Matrix	Cat. No.	Price
NEAT	FRS-037N	$ 30
Toluene	FRS-037S	20

1,4-bis(Pentabromophenoxy) tetrabromobenzene

[58965-66-5] $C_{18}Br_{14}O_2$ FW 1366.85



Matrix	Cat. No.	Price
NEAT	FRS-052N	$ 25
Toluene	FRS-052S	25

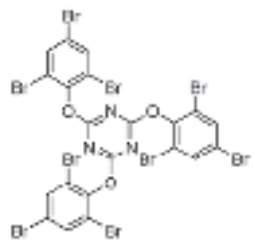
Industrial Flame Retardants continued on next page

Bromine Containing Industrial Flame Retardants (BFRs) continued

Neats at 10 mg. Solutions at 100 µg/mL in 1 mL

2,4,6-tris(2,4,6-Tribromophenoxy)-1,3,5-triazine

[25713-60-4] $C_{21}H_6Br_9N_3O_3$ FW 1067.43



Matrix	Cat. No.	Price
Toluene	FRS-049S	$ 30

3-Bromostyrene

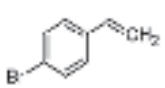
[2039-86-3] C_8H_7Br FW 183.04



Matrix	Cat. No.	Price
NEAT	FRS-050N	$ 20
Toluene	FRS-050S	20

4-Bromostyrene

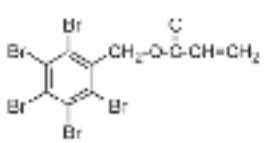
[2039-82-9] C_8H_7Br FW 183.04



Matrix	Cat. No.	Price
NEAT	FRS-051N	$ 20
Toluene	FRS-051S	20

Pentabromobenzyl acrylate

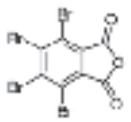
[59447-55-1] $C_{10}H_5Br_5O_2$ FW 556.67



Matrix	Cat. No.	Price
NEAT	FRS-035N	$ 30
Toluene	FRS-035S	20

Tetrabromophthalic anhydride

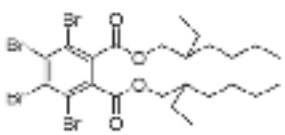
[632-79-1] $C_8Br_4O_3$ FW 463.7



Matrix	Cat. No.	Price
NEAT	FRS-007N	$ 15
Toluene	FRS-007S	15

Di(2-ethylhexyl)tetrabromophthalate

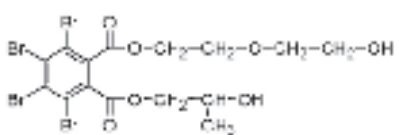
[26040-51-7] $C_{24}H_{34}Br_4O_3$ FW 706.14



Matrix	Cat. No.	Price
NEAT	FRS-040N	$ 65
Toluene	FRS-040S	35

2-(2'-hydroxyethoxyl) ethyl, 2-hydroxylpropyl-tetrabromophthalate

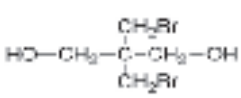
[20566-35-2] $C_{15}H_{16}Br_4O_7$ FW 627.9



Matrix	Cat. No.	Price
Toluene	FRS-054S	$ 30

Dibromoneopentyl glycol

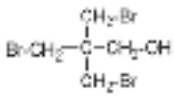
[3296-90-0] $C_5H_{10}Br_2O_2$ FW 261.94



Matrix	Cat. No.	Price
NEAT	FRS-011N	$ 15
Toluene	FRS-011S	15

Tribromoneopentyl alcohol

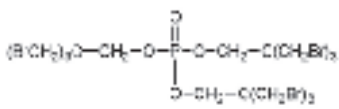
[1522-92-5 / 36483-57-5] $C_5H_9Br_3O$



Matrix	Cat. No.	Price
NEAT	FRS-046N	$ 15
Toluene	FRS-046S	15

tris(Tribromoneopentyl)phosphate

[19186-97-1] $C_{15}H_{24}Br_9O_4P$ FW 1018.46



Matrix	Cat. No.	Price
NEAT	FRS-047N	$ 20
Toluene	FRS-047S	20

Ammonium bromide

[12124-97-9] BrH_4N FW 97.94



Matrix	Cat. No.	Price
NEAT	FRS-055N	$ 15
Methanol	FRS-055S-M	15

Bromine Containing Industrial Flame Retardants (BFRs) Commercial Grade

Commercial Grade BFRs

Neats as stated. Solutions in 1 mL

Compound	CAS No.	Active Ingredient	Conc.	Matrix	Cat. No.	Price
Bromkal™ DE-70-5		Penta BDEs	50 µg/mL	Isooctane	BDE-705	$ 90
Bromkal™ DE-71		Penta BDEs	50 µg/mL	Isooctane	BDE-710	90
Bromkal™ DE-73-6		Hexa BDEs	50 µg/mL	Isooctane	BDE-736	90
Bromkal™ DE-79-8		Octa BDEs	50 µg/mL	Isooctane	BDE-798	90
Dow FR-250	27858-07-7	Mix of Octa and Nonabromobiphenyl	35 µg/mL	Isooctane	B-250S-0.35X	20
			100 µg/mL	Isooctane	B-250S	50
Firemaster™ BP4A	79-94-7	Tetrabromobisphenol A	10 mg	NEAT	FRS-006N	15
			100 µg/mL	Toluene	FRS-006S	15
Firemaster™ BP-6	59536-65-1	Hexabromobiphenyl	35 µg/mL	Isooctane	B-600S-0.35X	65
			100 µg/mL	Isooctane	B-600S	95
Firemaster™ PHT4	632-79-1	Tetrabromophthalic anhydride	10 mg	NEAT	FRS-007N	15
			100 µg/mL	Toluene	FRS-007S	15
Firemaster™ T23P (Michigan Chemical)	126-72-7	Tris(2,3-dibromopropyl)phosphate	10 mg	NEAT	FRS-008N	15
			100 µg/mL	Toluene	FRS-008S	15
Firemaster™ 680 (Great Lakes)	37853-59-1	1,2-Bis(2,4,6-tribromophenoxyl)ethane	50 mg	NEAT	FRS-037N	30
			100 µg/mL	Toluene	FRS-037S	20
Firemaster™ 2100 (Great Lakes)		Decabromodiphenylethane	50 mg	NEAT	FRS-036N	30
			100 µg/mL	Toluene	FRS-036S	35
FR-300BA	1163-19-5	Decabromodiphenyl ether 85.5%	10 mg	NEAT	FRS-009N	15
			100 µg/mL	Toluene	FRS-009S	15
FR-651A (Dow)	87-84-3	Pentabromochlorocyclohexane	10 mg	NEAT	FRS-010N	15
			100 µg/mL	Toluene	FRS-010S	15
FR-1138 (Dow)	3296-90-0	Dibromoneopentyl glycol 85.0%	10 mg	NEAT	FRS-011N	15
			100 µg/mL	Toluene	FRS-011S	15
HBCD SP-75C (Great Lakes)	3194-55-6-GL	1,2,5,6,9,10-Hexabromocyclododecane	10 mg	NEAT	FRS-028N	15
			100 µg/mL	Toluene	FRS-028S	15
Hexabromobenzene (Michigan Chemical)	87-82-1	Hexabromobenzene	10 mg	NEAT	FRS-012N	15
			100 µg/mL	Toluene	FRS-012S	15
Hexabromobenzene (White Chemical)	87-82-1	Hexabromobenzene	10 mg	NEAT	FRS-013N	15
			100 µg/mL	Toluene	FRS-013S	15
Pentabromotoluene (White Chemical)	87-83-2	Pentabromotoluene	10 mg	NEAT	FRS-018N	15
			100 µg/mL	Toluene	FRS-018S	15
Saytex BT-93	32588-76-4	Ethylene bis(tetrabromophthalimide)	50 µg/mL	Toluene	FRS-053S-0.5X	20
Tetrabromo-o-chlorotoluene (White Chemical)		Tetrabromo-o-chlorotoluene (98%)	10 mg	NEAT	FRS-021N	15
			100 µg/mL	Toluene	FRS-021S	15
TP-69 (Great Lakes)	126-72-7	Tris(2,3-dibromopropyl)phosphate	10 mg	NEAT	FRS-023N	15
			100 µg/mL	Toluene	FRS-023S	15

Other BFRs (Pure)

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
di(2-Ethylhexyl)tetrabromophthalate	26040-51-7	10 mg	NEAT	FRS-040N	65
		100 µg/mL	Toluene	FRS-040S	35
2-Ethylhexyl 2,3,4,5-tetrabromobenzoate	183658-27-7	10 mg	NEAT	FRS-041N	65
		100 µg/mL	Toluene	FRS-041S	35
Hexachlorocyclopantadienyl-dibromocyclooctane	51939-55-1	10 mg	NEAT	FRS-039N	25
		100 µg/mL	Toluene	FRS-039S	25
Pentabromobenzylacrylate	59447-55-1	10 mg	NEAT	FRS-035N	30
		100 µg/mL	Toluene	FRS-035S	20
Pentabromobenzylbromide	1163-19-5	10 mg	NEAT	FRS-030N	30
		100 µg/mL	Toluene	FRS-030S	15
1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane	3322-93-8	10 mg	NEAT	FRS-038N	25
		100 mg/mL	MeOH	FRS-038S	25
(2,3-Dibromopropyl)(2,4,6-tribromophenyl) ether (DPTE)	35109-60-5	10 mg	NEAT	FRS-044N	65
		100 µg/mL	Toluene	FRS-044S	35
tris(2,3-Dibromopropyl) isocyanurate	52434-90-9	10 mg	NEAT	FRS-042N	65
		100 µg/mL	Toluene	FRS-042S	35
Tetrabromobisphenol A bis(hydroxyethyl ether)	4162-45-2	50 mg	NEAT	FRS-032N	25
		100 µg/mL	Toluene	FRS-032S	15

Industrial Flame Retardants
Organophosphate and Chlorine Containing (CFRs)

Organophosphate Flame Retardants (OP-FRs)

Organophosphate compounds (OPs) are high production volume chemicals. They are utilized as flame retardants and plasticizers, antifoaming agents and additives not only in plastics, but in paints, lubricants and hydraulic fluids as well. The chlorinated OP compounds like tris(2-chloroethyl) phosphate and tris(1,3-dichloro-2-propyl) phosphate are flame retardants used in both flexible and rigid polyurethane foam (e.g. furniture foam, thermal insulation), rubber, textile coatings, and home electronics. OPs have been detected in indoor air and house dust, surface, ground, and even drinking water. Ongoing toxicological studies have shown several toxic effects of these compounds, prompting the recognition of potential ecological and human health concerns of neurotoxin and carcinogenic nature.

AccuStandard is now providing some of the more widely used OP-FRs as reference standards.

Compound	CAS No.	Neats at 10 mg and Solutions in 1 mL Conc.	Matrix	Cat. No.	Price
tris(2-Chloroethyl)phosphate	115-96-8	10 mg	NEAT	FRS-058N	$ 15
		50 µg/mL	Toluene	FRS-058S	15
tris(2-Chloropropyl)phosphate	6145-73-9	10 mg	NEAT	FRS-056N	45
		50 µg/mL	Toluene	FRS-056S	25
tris(1-Chloro-2-propyl)phosphate (TCPP)	13674-84-5	50 µg/mL	Toluene	FRS-060S	25
tris(2,3-Dibromopropyl)phosphate	126-72-7	10 mg	NEAT	FRS-057N	40
		50 µg/mL	Toluene	FRS-057S	25
tris(1,3-Dichloro-2-propyl)phosphate	13674-87-8	10 mg	NEAT	FRS-059N	15
		50 µg/mL	Toluene	FRS-059S	15

Chlorine Containing Industrial Flame Retardants (CFRs)

Compound	CAS No.	Active Ingredient	Conc.	Matrix	Cat. No.	Price
Chlorafin™ 40	63449-39-8	Chlorinated Paraffin	10 mg	NEAT	FRS-002N	$ 15
			100 µg/mL	Toluene	FRS-002S	15
Chlorendic anhydride	115-27-5	Chlorendic anhydride	10 mg	NEAT	FRS-001N	15
			100 µg/mL	Toluene	FRS-001S	15
bis(2-Chloroethyl)ether	111-44-4	bis(2-Chloroethyl)ether	100 µg/mL	MeOH	APP-9-027	20
			5 mg/mL	MeOH	AS-E0016	32
4-Chlorophenyl phenyl ether	7005-72-3	4-Chlorophenyl phenyl ether	100 µg/mL	MeOH	APP-9-047	20
			5 mg/mL	MeOH	AS-E0038	32
Chlorowax™ 500C	63449-39-8	Chlorinated Hydrocarbons 59.0%	10 mg	NEAT	FRS-004N	15
			100 µg/mL	Toluene	FRS-004S	15
Diable 700X		Chlorinated Hydrocarbons 70.0%	10 mg	NEAT	FRS-005N	15
			100 µg/mL	Toluene	FRS-005S	15
Dechlorane Plus (Mixed isomers) **NEW**	13560-89-9	Dechlorane Plus	10 mg	NEAT	FRS-033N	20
			100 µg/mL	Toluene	FRS-033S	20
Dechlorane Plus Anti **NEW**	135821-74-8		50 µg/mL	Toluene	FRS-061S-0.5X	55
Dechlorane Plus Syn **NEW**	135821-03-3		50 µg/mL	Toluene	FRS-062S-0.5X	55
Hexachlorobutadiene	87-68-3	Hexachlorobutadiene	10 mg	NEAT	FRS-017N	15
			100 µg/mL	Toluene	FRS-017S	15
Paroil™ 179-HV	63449-39-8	Chlorinated Paraffin	10 mg	NEAT	FRS-015N	15
			100 µg/mL	Toluene	FRS-015S	15
Paroil™ 170-8	63449-39-8	Chlorinated Paraffin	10 mg	NEAT	FRS-016N	15
			100 µg/mL	Toluene	FRS-016S	15
Phosgard™ C 22-R	4351-70-6	Halogenated organic phosphate ester	10 mg	NEAT	FRS-019N	15
			100 µg/mL	Toluene	FRS-019S	15
Phosgard™ 2XC-20		Halogenated organic phosphate ester	10 mg	NEAT	FRS-020N	15
			100 µg/mL	Toluene	FRS-020S	15
Tetrachlorobisphenol A	79-95-8	Tetrachlorobisphenol A	10 mg	NEAT	FRS-022N	15
			100 µg/mL	Toluene	FRS-022S	15
Unichlor™ 40-90	63449-39-8	Chlorinated Hydrocarbons 38.5%	10 mg	NEAT	FRS-024N	15
			100 µg/mL	Toluene	FRS-024S	15
Unichlor™ 502-50	63449-39-8	Chlorinated Hydrocarbons 52.0%	10 mg	NEAT	FRS-025N	15
			100 µg/mL	Toluene	FRS-025S	15
Unichlor™ 70AX	63449-39-8	Chlorinated Hydrocarbons 70.0%	10 mg	NEAT	FRS-026N	15
			100 µg/mL	Toluene	FRS-026S	15

Registered Trademarks

Chlorafin	Hercules Powder Company Corp.	Firemaster	Great Lakes Chemical Corp.	Phosgard	Solutia Inc.
Chlorowax	Dover Chemical Corp.	Paroil	Dover Chemical Corp	Unichlor	Neville Chemical Co.

Polynuclear Aromatic Hydrocarbons

Polyaromatic Hydrocarbons (PAHs) are hydrocarbon compounds with multiple benzene rings. PAHs are typical components of asphalts, fuels, oils, and greases. They are also called Polycyclic Aromatic Hydrocarbons and have been linked to cancer and hormone disruption.



Solutions at 50 µg/mL in Toluene

Purity 98+%, except where indicated

Polynuclear Aromatic Hydrocarbons (PAHs)

Compound	Synonym	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
Acenaphthene		83-32-9	H-108N	$ 13 / 100 mg	H-108S	$ 15
Acenaphthylene		208-96-8	H-125N	50 / 100 mg	H-125S	15
Acridine		260-94-6	H-187N	15 / 100 mg	H-187S	15
Anthanthrene		191-26-4	H-109N	77 / 10 mg	H-109S	40
Anthracene		120-12-7	H-110N	13 / 100 mg	H-110S	15
Azulene		275-51-4	H-127N	18 / 10 mg	H-127S	15
1,2-Benzanthracene	*Tetraphene*	56-55-3	H-100N	13 / 10 mg	H-100S	15
2,3-Benzanthracene		92-24-0	H-159N	13 / 10 mg	H-159S	15
Benz[a]anthracene-7,12-dione	*Benzanthraquinone*	2498-66-0	H-111N	25 / 10 mg	H-111S	15
Benzo[b]chrysene		214-17-5	H-183N	65 / 5 mg	H-183S	40
Benzo[b]fluoranthene	*Benz[e]acephenanthrylene*	205-99-2	H-128N	13 / 10 mg	H-128S	20
Benzo[j]fluoranthene		205-82-3	H-171N	50 / 10 mg	H-171S	30
Benzo[k]fluoranthene		207-08-9	H-129N	26 / 10 mg	H-129S	20
1,2-Benzofluorene		238-84-6	----------	----------	H-130S	20
2,3-Benzofluorene		243-17-4	H-180N	13 / 10 mg	H-180S	15
Benzo[g,h,i]perylene	*1,12-Benzoperylene*	191-24-2	H-103N	18 / 10 mg	H-103S	20
Benzo[c]phenanthrene		195-19-7	H-244N	60 / 10 mg	H-244S	30
Benzo[a]pyrene (ACS grade)	*3,4-Benzopyrene*	50-32-8	H-169N-ACS	12 / 10 mg	----------	---
Benzo[a]pyrene (Ames grade)			H-169N	26 / 10 mg	H-169S	20
Benzo[e]pyrene		192-97-2	H-112N	120 / 10 mg	H-112S	20
2,3-Benzofuran		271-89-6	H-237N	10 / 10 mg	H-237S	15
5,6-Benzoquinoline	*Benzo[f]quinoline*	85-02-9	H-113N-10MG	18 / 10 mg	H-113S	15
7,8-Benzoquinoline		230-27-3	H-245N	35 / 100 mg	H-245S	25
2,2'-Binaphthyl		612-78-2	H-239N	30 / 50 mg	H-239S	15
Biphenyl		92-52-4	H-133N	14 / 500 mg	H-133S	15
Carbazole		86-74-8	H-114N	13 / 100 mg	H-114S	15
Chrysene	*Benzo[a]phenanthrene*	218-01-9	H-115N	35 / 100 mg	H-115S	15
Coronene		191-07-1	H-116N	32 / 5 mg	H-116S	30
Cyclopenta[c,d]pyrene		27208-37-3	----------	----------	H-242S	50
Dibenz[a,h]acridine		226-36-8	H-172N	150 / 10 mg	H-172S	30
Dibenz[a,j]acridine		224-42-0	H-173N	50 / 10 mg	H-173S	30
1,2:3,4-Dibenzanthracene	*Dibenz[a,c]anthracene*	215-58-7	H-134N	18 / 10 mg	H-134S	20
1,2:5,6-Dibenzanthracene	*Dibenz[a,h]anthracene*	53-70-3	H-135N	20 / 10 mg	H-135S	20
7H-Dibenzo[c,g]carbazole		194-59-2	----------	----------	H-176S	30
Dibenzo-*p*-dioxin		262-12-4	D-100N	80 / 10 mg	D-100S *	30
Dibenzo[a,e]fluoranthene		5385-75-1	H-247N	90 / 1 mg	H-247S	50
Dibenzofuran		132-64-9	F-100N	14 / 50 mg	----------	--
1,2,4,5-Dibenzopyrene	*Dibenzo[a,e]pyrene*	192-65-4	H-138N	65 / 10 mg	H-138S	20
Dibenzo[a,h]pyrene		189-64-0	H-177N	65 / 10 mg	H-177S	15
Dibenzo[a,i]pyrene		189-55-9	H-178N	225 / 5 mg	H-178S	50
Dibenzo[a,l]pyrene		191-30-0	----------	----------	H-179S	45
Diphenylenesulfide	*Dibenzothiophene*	132-65-0	H-117N	13 / 100 mg	H-117S	15
1,2:8,9-Dibenzpentacene		227-09-8	H-139N **	-- / 5 mg	H-139S	30
9,10-Dihydroanthracene		613-31-0	H-140N	30 / 100 mg	H-140S	15
12,12A-Dihydro-3,9-dimethylbenz[a]anthracene			----------	----------	H-188S	20
Diindeno[1,2,3-cd-1',2',3'-1m]perylene	*Periflanthene*	188-94-3	H-141N	15 / 5 mg	H-141S	20
2,3-Dimethylanthracene		613-06-9	H-189N	50 / 10 mg	H-189S	20
9,10-Dimethylanthracene		781-43-1	H-190N	15 / 10 mg	H-190S	15
3,9-Dimethylbenz[a]anthracene		316-51-8	----------	----------	H-191S	20
6,8-Dimethylbenz[a]anthracene		317-64-6	----------	----------	H-192S	20
7,12-Dimethylbenz[a]anthracene		57-97-6	H-174N	13 / 10 mg	H-174S	15
1,12-Dimethylbenzo[c]phenanthrene		4076-43-1	----------	----------	H-193S	20
5,8-Dimethylbenzo[c]phenanthrene		54886-63-9	----------	----------	H-194S	20
7,10-Dimethylbenzo[a]pyrene		63104-33-6	----------	----------	H-195S	20
1,2-Dimethylnaphthalene		573-98-8	H-197N	15 / 10 mg	H-197S	15
1,3-Dimethylnaphthalene (96%)		575-41-7	H-198N	15 / 10 mg	H-198S	15
1,4-Dimethylnaphthalene (95%)		571-53-4	H-199N	15 / 10 mg	H-199S	15
1,5-Dimethylnaphthalene		571-61-9	H-200N	15 / 10 mg	H-200S	15
1,6-Dimethylnaphthalene		575-43-9	H-201N	15 / 10 mg	H-201S	15
1,8-Dimethylnaphthalene (95%)		569-41-5	H-202N	15 / 10 mg	H-202S	15
2,6-Dimethylnaphthalene		581-42-0	H-161N	15 / 10 mg	H-161S	15
2,7-Dimethylnaphthalene		582-16-1	H-203N	15 / 10 mg	H-203S	15

* Solution in Isooctane

** Call Tech Service for price.

Polynuclear Aromatic Hydrocarbons

Solutions at 50 µg/mL in Toluene

Polynuclear Aromatic Hydrocarbons (PAHs)

Purity 98+%, except where indicated

Compound	Synonym	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
3,6-Dimethylphenanthrene		1576-67-6	H-142N-5MG	$ 60 / 5 mg	H-142S	$ 15
9,10-Diphenylanthracene		1499-10-1	H-185N	18 / 100 mg	H-185S	15
Dodecahydrotriphenylene		1610-39-5	H-144N	13 / 100 mg	H-144S	15
6-Ethylchrysene		2732-58-3	H-264N	25 / 10 mg	----------	---
Fluoranthene		206-44-0	H-118N	13 / 100 mg	H-118S	15
Fluorene		86-73-7	H-146N	26 / 100 mg	H-146S	15
Indan		496-11-7	H-231N	20 / 100 mg	H-231S	15
Indene		95-13-6	H-230N	15 / 100 mg	H-230S	15
Indeno[1,2,3-cd]pyrene	*o-Phenylene pyrene*	193-39-5	H-157N	75 / 10 mg	H-157S	20
Indole		120-72-9	H-236N	15 / 100 mg	H-236S	15
Isoquinoline		119-65-3	H-232N	15 / 100 mg	H-232S	15
1-Methylanthracene		610-48-0	H-222N	55 / 10 mg	H-222S	20
2-Methylanthracene		613-12-7	H-148N	14 / 10 mg	H-148S	20
9-Methylanthracene		779-02-2	H-149N	25 / 10 mg	H-149S	20
1-Methylbenz[a]anthracene		2498-77-3	----------	----------	H-213S	20
2-Methylbenz[a]anthracene		2498-76-2	----------	----------	H-214S	20
3-Methylbenz[a]anthracene		2498-75-1	----------	----------	H-215S	20
4-Methylbenz[a]anthracene		316-49-4	----------	----------	H-216S	20
5-Methylbenz[a]anthracene		2319-96-2	----------	----------	H-217S	20
6-Methylbenz[a]anthracene		316-14-3	----------	----------	H-218S	20
7-Methylbenz[a]anthracene		2541-69-7	----------	----------	H-219S	20
9-Methylbenz[a]anthracene		2381-16-0	----------	----------	H-220S	20
10-Methylbenz[a]anthracene		2381-15-9	----------	----------	H-221S	20
1-Methylbenzo[c]phenanthrene		4076-39-5	----------	----------	H-208S	20
2-Methylbenzo[c]phenanthrene		2606-85-1	----------	----------	H-209S	20
3-Methylbenzo[c]phenanthrene		2381-19-3	----------	----------	H-210S	20
4-Methylbenzo[c]phenanthrene		4076-40-8	----------	----------	H-211S	20
5-Methylbenzo[c]phenanthrene		652-04-0	----------	----------	H-212S	20
7-Methylbenzo[a]pyrene		63041-77-0	H-223N	20 / 10 mg	H-223S	20
8-Methylbenzo[a]pyrene		63041-76-9	----------	----------	H-205S	20
9-Methylbenzo[a]pyrene		70644-19-8	----------	----------	H-206S	20
10-Methylbenzo[a]pyrene		63104-32-5	----------	----------	H-207S	20
3-Methylcholanthrene	*20-Methylcholanthrene*	56-49-5	H-170N	80 / 10 mg	H-170S	40
4-Methylchrysene		3351-30-2	----------	----------	H-228S	40
5-Methylchrysene		3697-24-3	----------	----------	H-243S	50
6-Methylchrysene		1705-85-7	H-175N	120 / 10 mg	H-175S	15
2-Methylfluoranthene		33543-31-6	H-182N-5MG	45 / 5 mg	H-182S	15
			H-182N-25MG	210 / 25 mg		
1-Methylnaphthalene		90-12-0	H-001N	12 / 100 mg	H-001S	15
2-Methylnaphthalene		91-57-6	H-002N	12 / 100 mg	H-002S	15
9-Methyl-9-phenylfluorene		56849-83-3	H-204N	15 / 10 mg	H-204S	15
1-Methylphenanthrene		832-69-9	----------	----------	H-162S	40
2-Methylphenanthrene		2531-84-2	----------	----------	H-003S	40
3-Methylphenanthro[3,4-c]phenanthrene		83844-21-7	----------	----------	H-224S	20
1-Methylpyrene		238-71-7	H-233N	20 / 10 mg	H-233S	20
4,5-Methylenephenanthrene		203-64-5	----------	----------	H-119S	40
Naphthalene		91-20-3	H-152N	13 / 100 mg	H-152S	15
Pentacene		135-48-8	----------	----------	H-154S	40
Perylene		198-55-0	H-121N	26 / 10 mg	H-121S	20
Phenanthrene		85-01-8	H-122N	13 / 100 mg	H-122S	15
9-Phenylanthracene		602-55-1	H-156N	26 / 100 mg	H-156S	15
o-Phenylene pyrene	see Indeno[1,2,3-cd]pyrene					
1-Phenylnaphthalene		605-02-7	H-246N	35 / 100 mg	H-246S	25
2-Phenylnaphthalene		612-94-2	H-158N	45 / 5 mg	H-158S	15
Picene		213-46-7	----------	----------	H-184S	20
Pyrene		129-00-0	H-123N	13 / 100 mg	H-123S	15
Pyrrole		109-97-7	H-229N	15 / 100 mg	H-229S	15

Polynuclear Aromatic Hydrocarbons continued on Next Page

Bulk PAH Quanitites Available, Contact our Technical Department

Polynuclear Aromatic Hydrocarbons

Solutions at 50 µg/mL in Toluene

Purity 98+%, except where indicated

Polynuclear Aromatic Hydrocarbons (PAHs)

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
Quinoline	91-22-5	H-186N	15 / 100 mg	H-186S	$ 15
2,3,6,7-Tetraethylbiphenylene		H-225N	15 / 10 mg	H-225S	15
1,2:3,4-Tetrahydrofluoranthene	42429-92-5	H-165N	16 / 10 mg	H-165S	20
Tetraphene see 1,2-Benzanthracene					
Thianaphthene	95-15-8	H-238N	15 / 100 mg	H-238S	15
Thianthrene	92-85-3	H-241N	10 / 100 mg	----------	--
4,6,8-Trimethylazulene	941-81-1	H-226N	15 / 10 mg	H-226S	15
8,9,11-Trimethylbenz[a]anthracene	74845-58-2	----------	----------	H-227S	20
Triphenylene	217-59-4	H-235N	10 / 10 mg	H-235S	15
Truxene (95%)	548-35-6	H-124N	28 / 100 mg	H-124S	15

PAH Sets and Solutions

AccuStandard has assembled these Polycyclic Aromatic Hydrocarbon Kits for use as reference standards for the predominant species found in ambient air samples. This library of standards was compiled as a working list used by the EPA, based on their research and literature surveys. One kit is offered as individual neat compounds, and the other as individual solutions. The Solution Kit also contains all the compounds in one solution.

PAH Neat Sets

Z-001-SET **$ 170 / Kit of 20 x 5 mg**

- Acenaphthene (01)
- Anthanthrene (02)
- Anthracene (03)
- 1,2-Benzanthracene (04)
- Benz[a]anthracene-7,12-dione (95%) (05)
- Benzo[g,h,i]perylene (06)
- Benzo[a]pyrene (07)
- Benzo[e]pyrene (08)
- 5,6-Benzoquinoline (09)
- Carbazole (10)
- Chrysene (11)
- Coronene (12)
- Dibenzothiophene (13)
- Fluoranthene (14)
- 4,5-Methylenephenanthrene (15)
- Naphthalene (16)
- Perylene (17)
- Phenanthrene (18)
- Pyrene (19)
- Truxene (95%) (20)

Z-013N-SET **$ 175 / 16 x 10 mg**

(set includes, 16 individual neat analytes)

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PAH Solutions

Compound	All Solutions at 0.2 mg/mL in 1 mL Solvent	Cat. No.	Price
Acenaphthene	MeOH	Z-013-01	$ 15
Acenaphthylene	MeOH	Z-013-02	15
Anthracene	MeOH	Z-013-03	15
Benz[a]anthracene	CH_2Cl_2	Z-013-04	15
Benzo[a]pyrene	CH_2Cl_2	Z-013-05	15
Benzo[b]fluoranthene	MeOH	Z-013-06	20
Benzo[g,h,i]perylene	CH_2Cl_2	Z-013-07	20
Benzo[k]fluoranthene	CH_2Cl_2	Z-013-08	20
Chrysene	CH_2Cl_2	Z-013-09	15
Dibenz[a,h]anthracene	CH_2Cl_2	Z-013-10	20
Fluoranthene	CH_2Cl_2	Z-013-11	15
Fluorene	MeOH	Z-013-12	15
Indeno[1,2,3-cd]pyrene	MeOH	Z-013-13	20
Naphthalene	MeOH	Z-013-14	8
Phenanthrene (98%)	CH_2Cl_2	Z-013-15	15
Pyrene	CH_2Cl_2	Z-013-16	15
Mixture of the above 16 analytes, at *0.2 mg/mL in MeOH:CH_2Cl_2 (1:1)*		Z-013-17	30 16 comps.

Set of the above 16 individual solutions, plus a mixture **Z-013-17** (set of 17 x 1 mL) **Z-013-SET** $ 200

PAH Standard (Quebec Ministry of Environmental PAH Mix)

H-QME-01 **$ 110 / 1 x 1 mL**

500 µg/mL each in CH_2Cl_2 24 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[j]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[c]phenanthrene
- Benzo[a]pyrene
- Benzo[e]pyrene
- Chrysene
- Dibenz[a,h]anthracene
- Dibenzo[a,h]pyrene
- Dibenzo[a,i]pyrene
- Dibenzo[a,l]pyrene
- 7,12-Dimethylbenz[a]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- 3-Methylcholanthrene
- Naphthalene
- Phenanthrene
- Pyrene

Nitro-Polynuclear Aromatic Hydrocarbons

The atmosphere of most of the industrialized areas of the world contains Polynuclear Aromatic Hydrocarbons (PAHs) and Nitrogen Oxides (NOxs)[1]. Wherever these compounds exist together, they react and form Nitro-PAHs, which are highly mutagenic.

Scientists have found Nitro-PAHs in diesel particulates[2], carbon black[3,4] and ambient air particulates[5]. These compounds are the major contributors to the mutagenicity of the pollutants, since the most common Nitro-PAH found is 1-Nitropyrene, a potent mutagen.
AccuStandard has compiled an extensive inventory of Nitro substituted compounds including mono, di and tri Nitro-PAHs, Amino and Hydroxy substituted PAHs, Nitrotoluenes, Nitroanilines and Nitrophenols. Most compounds are offered in both neat form and in solution.

References:
(1) Nitrated PAHs. Edited by C.M. White, Published by Huethig 1985.
(2) Analysis of Nitrated Polycyclic Aromatic Hydrocarbons in Diesel Particulates, D. Schuetzle et al., Anal. Chem., Vol. 54, pp. 265-71 (1982).
(3) Mutagenic Activity in Photocopies, G. Lofroth et al., Science, Vol. 209, pp. 1037-9 (1980).
(4) Nitropyrenes: Isolation, Identification and Reduction of Mutagenic Impurities in Carbon Black and Toners, H.S. Rosenkranz et al., Science, Vol. 290, pp. 1039-43 (1980).
(5) Atmospheric Reactions of Polycyclic Aromatic Hydrocarbons: Facile Formation of Mutagenic Nitro Derivatives, J.N. Pitts, Jr. et al., Science, Vol. 202, pp. 515-8 (1978).

Solutions at 100 µg/mL in Toluene

Nitro-PAHs

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
1-Amino-4-nitronaphthalene	776-34-1	R-001N	$ 17 / 100 mg	R-001S	$ 15
2-Nitroanthracene	3586-69-4	R-105N	45 / 5 mg	R-105S	20
9-Nitroanthracene	602-60-8	R-003N	30 / 5 mg	R-003S	17
7-Nitrobenz[a]anthracene	20268-51-3	R-097N	85 / 5 mg	R-097S	50
6-Nitrobenz[a]pyrene	63041-90-7	----------	----------	R-004S	25
2-Nitrobiphenyl	86-00-0	R-005N	17 / 100 mg	R-005S	15
3-Nitrobiphenyl	2113-58-8	R-006N	17 / 100 mg	R-006S	15
4-Nitrobiphenyl	92-93-3	R-007N	70 / 100 mg	R-007S	15
6-Nitrochrysene	7496-02-8	R-008N	45 / 5 mg	R-008S	20
3-Nitrodibenzofuran	5410-97-9	R-009N	30 / 5 mg	R-009S	17
2-Nitrodibenzothiophene	6639-36-7	R-010N	30 / 5 mg	R-010S	17
3-Nitrofluoranthene	892-21-7	R-013N	40 / 5 mg	R-013S	20
2-Nitrofluorene	607-57-8	R-098N	30 / 100 mg	R-098S	20
5-Nitroacenaphthene	602-87-9	R-115N	45 / 5 mg	R-115S	30
1-Nitronaphthalene	86-57-7	R-016N	17 / 100 mg	R-016S	15
2-Nitronaphthalene	581-89-5	R-085N-10MG	40 / 10 mg	R-085S	15
3-Nitrophenanthrene	17024-19-0	R-045N	45 / 5 mg	R-045S	20
9-Nitrophenanthrene	954-46-1	R-020N	30 / 5 mg	R-020S	17
1-Nitropyrene	5522-43-0	R-022N	25 / 5 mg	R-022S	15

Di- and Tri- Nitro-PAHs

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
9,10-Dinitroanthracene	33685-60-8	R-024N	$ 45 / 5 mg	R-024S	$ 20
2,2'-Dinitrobiphenyl	2436-96-6	R-025N	17 / 100 mg	R-025S	15
2,8-Dinitrodibenzothiophene	109041-38-5	R-026N	30 / 5 mg	R-026S	17
2,7-Dinitrofluorene	5405-53-8	R-027N	17 / 100 mg	R-027S	15
2,7-Dinitro-9-fluorenone	31551-45-8	R-028N	17 / 100 mg	R-028S	15
1,3-Dinitronaphthalene	606-37-1	R-029N	17 / 100 mg	R-029S	15
1,5-Dinitronaphthalene	605-71-0	R-030N	17 / 100 mg	R-030S	15
1,8-Dinitronaphthalene	602-38-0	R-031N	17 / 100 mg	R-031S	15
1,3-Dinitropyrene	75321-20-9	R-094N	300 / 5 mg	R-094S	50
1,6-Dinitropyrene	42397-64-8	R-032N	400 / 5 mg	R-032S	50
1,8-Dinitropyrene	42397-65-9	R-099N	500 / 5 mg	R-099S	50
2,4,7-Trinitro-9-fluorenone	129-79-3	----------	----------	R-033S	15

Nitro-Aromatics

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
Nitrobenzene	98-95-3	R-047N	$ 10 / 100 mg	R-047S	$ 10
2-Nitrotoluene	88-72-2	R-048N	10 / 100 mg	R-048S	10
2,4-Dinitrotoluene	121-14-2	R-049N	10 / 100 mg	R-049S	10
2,6-Dinitrotoluene	606-20-2	R-050N	10 / 100 mg	R-050S	10
2-Nitrophenol	51-28-5	R-051N	10 / 100 mg	R-051S	10
4-Nitrophenol	100-02-7	R-052N	10 / 100 mg	R-052S	10
2,4-Dinitrophenol	51-28-5	----------	----------	R-053S	10
2-Nitroaniline	88-74-4	R-054N	10 / 100 mg	R-054S	10
3-Nitroaniline	99-09-2	R-055N	10 / 100 mg	R-055S	10
4-Nitroaniline	100-01-6	R-056N	10 / 100 mg	R-056S	10
4,6-Dinitro-*o*-cresol *(2-Methyl-4,6-dinitrophenol)*	534-52-1	R-057N	10 / 100 mg	R-057S	10

PAHs Derivatives continued on next page

Solutions at 100 µg/mL in Toluene

Amino-PAHs

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
2-Acetamidofluorene	53-96-3	R-058N	$ 10 / 10 mg	R-058S	$ 15
1-Aminoanthracene	610-49-1	R-059N	10 / 50 mg	R-059S	15
2-Aminoanthracene	613-13-8	R-060N	10 / 50 mg	R-060S	15
1-Aminoanthraquinone	82-45-1	R-061N	10 / 50 mg	R-061S	15
2-Aminoanthraquinone	117-79-3	R-093N	15 / 5 mg	R-093S	15
2-Aminobiphenyl	90-41-5	R-062N	10 / 10 mg	R-062S	15
4-Aminobiphenyl	92-67-1	R-063N	20 / 10 mg	R-063S	15
6-Aminochrysene	2642-98-0	R-065N	10 / 10 mg	R-065S	15
2-Aminofluorene	153-78-6	R-066N	10 / 10 mg	R-066S	15
1-Aminonaphthalene	134-32-7	R-067N	10 / 50 mg	R-067S	15
2-Aminonaphthalene	91-59-8	R-084N	20 / 10 mg	R-084S	15
2,7-Diaminofluorene	525-64-4	R-068N	10 / 10 mg	R-068S	15
1,8-Diaminonaphthalene	479-27-6	R-069N	32 / 100 mg	R-069S	15
1,2-Diphenylhydrazine	122-66-7	R-070N	10 / 100 mg	R-070S	15
N-phenyl-1-naphthylamine	90-30-2	R-071N	10 / 50 mg	R-071S	15
o-Tolidine *(3,3'-Dimethylbenzidine)*	119-93-7	R-072N	10 / 100 mg	R-072S	15

Hydroxy-PAHs

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
6-Hydroxychrysene	37515-51-8	R-095N	$ 13 / 10 mg	R-095S	$ 15
1-Hydroxypyrene	5315-79-7	R-096N	32 / 10 mg	R-096S	15

Amino-Aromatics

Compound	CAS No.	Neat Cat. No.	Price / Unit	Solution Cat. No.	Price 1 mL
Benzidine	92-87-5	R-073N	$ 10 / 100 mg	R-073S	$ 15
3,3'-Diaminobenzidine	91-95-2	R-074N	10 / 50 mg	R-074S	15
3,3'-Dichlorobenzidine	91-94-1	R-075N	20 / 50 mg	R-075S	15
3,3'-Dimethoxybenzidine	119-90-4	R-076N	10 / 50 mg	R-076S	15
4,4'-Diaminodiphenylmethane *(4,4'-Methylenedianiline)*	101-77-9	R-077N	20 / 100 mg	R-077S	15
2,4-Diaminotoluene	95-80-7	R-078N	10 / 100 mg	R-078S	15
4-Dimethylaminoazobenzene	60-11-7	R-079N	10 / 10 mg	R-079S	15
4,4'-Methylene bis(2-chloroaniline)	101-14-4	R-080N	10 / 50 mg	R-080S	15
N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	R-081N	10 / 50 mg	R-081S	35
N-Phenyl-2-naphthylamine	135-88-6	R-082N	10 / 10 mg	R-082S	15
s-Triazine	290-87-9	R-083N	10 / 10 mg	R-083S	15

DIN-38407-17 Nitroaromatic Compounds

Examination of water, wastewater, and sludge for the determination of selected nitroaromatic compounds by Gas-Liquid Chromatography

DIN38407-17 — **$ 68 / 1 x 1 mL**

500 µg/mL each in MeOH — 12 comps.

- Nitrobenzene
- 2-Nitrotoluene
- 4-Nitrotoluene
- 1,3-Dinitrobenzene
- 2,6-Dinitrotoluene
- 2,4-Dinitrotoluene
- 3,4-Dinitrotoluene
- 2-Amino-6-nitrotoluene
- 4-Amino-2-nitrotoluene
- 4-Amino-2,6-dinitrotoluene
- 2-Amino-4,6-dinitrotoluene
- 2,4,6-Trinitrotoluene

AccuLabel™ 2-Part Label System

(used on organic products in ampules)

Smudgeproof, tear and solvent resistant *
Kimdura® labels

Accuracy and Convenience

One part duplicates required information for labeling transfer vials with correct information such as catalog number, lot number, expiration date and proper storage conditions.

Second part can be placed into a laboratory journal to document the standard used for the analysis. This label section includes the information described above, and documents AccuStandard as the manufacturer.

*** Includes the most common solvents: Methylene chloride, Methanol and Acetone**



Nitrogen Containing Compounds

Compound	CAS No.	Conc.	Matrix	Cat. No.	Unit	Price
Azobenzene	103-33-3	2 mg/mL	CH_2Cl_2	Z-014B-1	1 mL	$ 20
2-Chloronitrobenzene	88-73-3	100 mg	NEAT	R-017N	100 mg	12
		100 µg/mL	Toluene	R-017S	1 mL	10
4-Chloronitrobenzene	100-00-5	100 mg	NEAT	R-018N	100 mg	12
		100 µg/mL	Toluene	R-018S	1 mL	10
2,3-Dichloronitrobenzene	3209-22-1	100 mg	NEAT	R-086N	100 mg	12
		100 µg/mL	Toluene	R-086S	1 mL	10
2,4-Dichloronitrobenzene	611-06-3	100 mg	NEAT	R-087N	100 mg	12
		100 µg/mL	Toluene	R-087S	1 mL	10
2,5-Dichloronitrobenzene	89-61-2	100 mg	NEAT	R-088N	100 mg	12
		100 µg/mL	Toluene	R-088S	1 mL	10
2,2'-Dinitrobiphenyl	2436-96-6	100 mg	NEAT	R-025N	100 mg	17
		100 µg/mL	Toluene	R-025S	1 mL	15
2,4-Dinitrophenol	51-28-5	100 µg/mL	Toluene	R-053S	1 mL	10
2,4-Dinitrotoluene	121-14-2	100 mg	NEAT	R-049N	100 mg	10
		100 µg/mL	Toluene	R-049S	1 mL	10
		100 µg/mL	MeOH	APP-9-092	1 mL	12
		5 mg/mL	MeOH	AS-E0033	1 mL	32
2,6-Dinitrotoluene	606-20-2	100 mg	NEAT	R-050N	100 mg	10
		100 µg/mL	Toluene	R-050S	1 mL	10
		100 µg/mL	MeOH	APP-9-093	1 mL	12
		5 mg/mL	MeOH	AS-E0034	1 mL	32
N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	50 mg	NEAT	R-081N	50 mg	10
		100 µg/mL	Toluene	R-081S	1 mL	35
2-Nitrobiphenyl	86-00-0	100 mg	NEAT	R-005N	100 mg	17
		100 µg/mL	Toluene	R-005S	1 mL	15
3-Nitrobiphenyl	2113-58-8	100 mg	NEAT	R-006N	100 mg	17
		100 µg/mL	Toluene	R-006S	1 mL	15
4-Nitrobiphenyl	92-93-3	100 mg	NEAT	R-007N	100 mg	17
		100 µg/mL	Toluene	R-007S	1 mL	15
2-Nitrophenol	88-75-5	100 mg	NEAT	R-051N	100 mg	10
		100 µg/mL	Toluene	R-051S	1 mL	10
4-Nitrophenol	100-02-7	100 mg	NEAT	R-052N	100 mg	10
		100 µg/mL	Toluene	R-052S	1 mL	10
2-Nitrotoluene	88-72-2	100 mg	NEAT	R-048N	100 mg	10
		100 µg/mL	Toluene	R-048S	1 mL	10
Pyridine	110-86-1	100 µg/mL	CH_2Cl_2	APP-9-186	1 mL	12
		2 mg/mL	CH_2Cl_2	APP-9-186-20X	1 mL	20
		2 mg/mL	MeOH	APP-9-186-M-20X	1 mL	20
		5 mg/mL	MeOH	AS-E0271	1 mL	32
		10 mg/mL	Water	M-8015B/5031-26	1 mL	25
2,3,4,5-Tetrachloronitrobenzene	879-39-0	100 mg	NEAT	R-091N	100 mg	12
		100 µg/mL	Toluene	R-091S	1 mL	10
2,3,5,6-Tetrachloronitrobenzene	117-18-0	100 mg	NEAT	R-092N	100 mg	12
		100 µg/mL	Toluene	R-092S	1 mL	10
s-Triazine	290-87-9	10 mg	NEAT	R-083N	10 mg	10
		100 µg/mL	Toluene	R-083S	1 mL	15
2,3,4-Trichloronitrobenzene	17700-09-3	100 mg	NEAT	R-089N	100 mg	12
		100 µg/mL	Toluene	R-089S	1 mL	10
2,4,5-Trichloronitrobenzene	89-69-0	100 mg	NEAT	R-090N	100 mg	12
		100 µg/mL	Toluene	R-090S	1 mL	10

Pesticide Standards



Over 60 New Pesticides

Over 3,200 Individual Pesticide Standards

Individual Neats and Solutions	69-83
Triazines and Metabolites	84
Pesticide & Herbicide Kits & Mixtures	85
Phenylurea Pesticide Mixtures	85

Pesticides, their by-products, metabolites and degradates

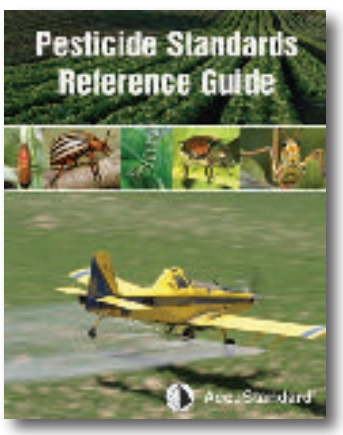
Pesticides are usually viewed as something bad for the environment and human health. The risk/benefit balance needs to be understood, this is what research on the presence and toxicity of these products demonstrates.

In addition to many of the pesticides for which production has been discontinued (but are still present in the environment) AccuStandard has synthesized metabolites, degradates, and by-products such as:

- Aldicarb sulfone and sulfoxide
- Endrin aldehyde and ketone
- Oxychlordane and o,p'-Methoxychlor
- Fipronyl sulfone, sulfoxide and desulfinyl
- DDT by-products

Call or Visit our website with Custom Requests

Custom pesticide formulations can be prepared for residue screening and other applications.



Includes formulations for over 50 EPA and international pesticide methods.

Request or download your Pesticide Standards Reference Guide at AccuStandard.com

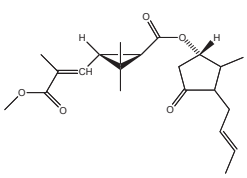
Pesticide Standards Reference Guide

Lists over 800 pesticides and contains technical information such as: chemical name, structure, CAS number, molecular formula, molecular weight, physical state and for most: solubility, specific gravity, melting or boiling point, flash point and common synonyms.

Sample:

Pyrethrins

[(1S)-2-methyl-4-oxo-3-[(2E)-penta-2,4-dienyl] cyclopent-2-en-1-yl](1R,3R)-3-[(E)-3-methoxy-2-methyl-3-oxoprop-1-enyl]-2,2-dimethylcyclopropane-1-carboxylate



CAS 8003-34-7 **MF** N/A **MW** N/A **PS** L
SOL MeOH, IPA **SG** 0.85 g/cm^3 **MP** N/A
BP 170 - 200 °C **FP** 75 °C

Matrix	Cat. No.	Unit
Neat	P-187N	10 mg
100 µg/mL in MeOH	P-187S	1 mL

Property Key		Solubility Key (SOL)	
CAS	Chemical Abstract Service Number	**A**	Acetone
		CN	Acetonitrile (AcCN)
MF	Molecular Formula	**D**	Methlyene chloride
MW	Molecular Weight	**DMSO**	Dimethyl sulfoxide
PS	Physical State (Solid, Liquid)	**EA**	Ethyl acetate
		H	Hexane
SOL	Solubility	**IPA**	Isopropanol
SG	Specific Gravity (g/cm^3)	**MeOH**	Methanol
		MC	Methyl cellosolve
MP	Melting Point (°C)	**T**	Toluene
BP	Boiling Point (°C)	**TP**	Isooctane
FP	Flash Point (°C)	**W**	Water

Analytical Capabilites and Neat Pesticides

Agilent System for LC/MS/MS (Quadrupole and Ion Trap) Enhances AccuStandard QC Analytical Capabilities

An Agilent 1100 Series LC/MSD Trap is part of AccuStandard's extensive analytical capabilities for certifying Chemical Reference Standards. LC/MSD Trap analyzers are particularly useful for characterizing and measuring thermally labile compounds including organoPhosphorus pesticides and their metabolites. The LC/MSD Trap offers outstanding combinations of scan speed, mass resolution, mass range, and sensitivity. With the addition of the Agilent LC/MSD Trap to the GC, GC/MS, HPLC, ICP, and Low Sulfur Analyzer instrumentation, AccuStandard continues to expand its analytical capability.

Moreover, the LC/MSD Trap's unique SmartFrag collision-energy ramping ensures that every precursor ion receives exactly the energy it needs for optimum fragmentation. The result is greater product ion generation and more structural information from fewer stages of MS.





EXACT WEIGHT for Neat Pesticides

Listed Catalog neat products are overfilled approximately 10%, however, pesticides can be provided with **EXACT WEIGHT**. Specify EXACT WEIGHT by ordering **X-WT** and the exact weight is noted on the product label. There is an additional $ 4.00 charge for this service. Rinse the pesticide out of the vial with the appropriate amount of solvent to get a weight/volume standard and calculate the concentration.

Purchasing Neat Standards

There are two ways to purchase neat standards: Nominal weight and exact weight. With exact weight, the standards will come with the exact weight contained in the vial indicated on the label. The Cat. No. will have an X-WT to indicate that this is an exact weight. Rinse the sample out of the vial and cap with solvent and dilute to acheive the desired concentration. Unless specified, neat samples are provided with nominal weights. Typically, the vials contain up to 10 to 20% more product, however it is not known when you receive your standard what the exact amount is in the vial. Below is a standard procedure for removing all the neat material from the vial and determining the exact weight of the material in the vial.

Small amounts (5-10 mg) of powder often are spread over the surface of the vial and cap. If the chemical is a liquid it may coat the walls as a thin layer invisible to the eye. To recover all of the contents contained in a vial of neat material please use the procedure described below:

1. Wipe the outside of the vial (containing the Standard) clean and dry (including the cap).
2. Weigh the entire unit on an analytical balance. Record the weight to the nearest 0.1 mg.
3. Carefully transfer the contents to a volumetric flask using a suitable solvent. Rinse the cap and vial several times to assure a complete transfer.
4. Dry inside and outside of the vial and cap with mild heat or inert gas.
5. Weigh the empty dry vial on the same analytical balance to the nearest 0.1 mg and calculate by difference the amount of material transferred.



Information on Pesticides Catalog Number's

Pesticide Catalog Numbers have 5 parts:

1. The initial **P-** specifies the product is a Pesticide.
2. The following three numbers are sequentially assigned, and is unique to the chemical.
3. The next character **(an N or S)** specifies whether the product is Neat or in Solution.
4. **"-"** with letters specify a solvent other than Methanol (MeOH).
5. **"-"** with an number followed by an X specifies the concentration difference from the 100 µg/mL (ex: -10X is 1000 µg/mL). Check for availability.

Example: P-017S is Chlordane at 100 µg/mL in Methanol
P-017N is Chlordane neat (10 mg)
P-017S-H-10X is Chlordane at 1000 µg/mL in Hexane

Key to symbols appearing in the table:

in Acetone (-A) in Hexane (-H) in Toluene (-T)
in Acetonitrile (-CN) in Isooctane (-TP) In Water (-W)
in Ethyl acetate (-EA) in Methyl cellosolve (-MC)

Can't find a Pesticide? Search using CAS No. Index in back of the catalog.

Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
AAtrex	see Atrazine			
Abamectin	71751-41-2	NEAT	P-615N	$ 42
		MeOH	P-615S	42
Abaphos	see Abate			
Abar	see Leptophos			
Abate	3383-96-8	NEAT	P-101N	22
		MeOH	P-101S	22
Abathion	see Abate			
Acalarate	see Chloropropylate			
Acarben	see Chlorobenzilate			
Acclaim	see Fenoxaprop-p-ethyl			
Acephate	30560-19-1	NEAT	P-200N	12
		Acetone	P-200S-A	12
Acetamiprid	135410-20-7	AcCN	P-820S-CN	62
Acetochlor	34256-82-1	NEAT	P-465N	32
		MeOH	P-465S	32
Acibenzolar-S-methyl NEW	135158-54-2	NEAT	P-875N	42
		MeOH	P-875S	42
Acifluorfen ◗	50594-66-6	NEAT	P-245N	12
		MeOH	P-245S	12
		AcCN	P-245S-CN	12
Acifluorfen methyl ester	50594-67-7	NEAT	P-246N	12
		MeOH	P-246S	12
Acrinathrin	101007-06-1	AcCN	P-842S-CN	22
Actellic	see Pirimphos methyl ester			
Acti-Aid	see Cycloheximide			
Actosin C	see Chlorophacinone			
Admire	see Imidacloprid			
Afalon	see Linuron			
Affirm	see Abamectin			
Afugan	see Pyrazophos			
Agritox	see Trichloronate			
Agroxone	see MCPA acid			
Aimsan	see Phenthoate			
Akar	see Chlorobenzilate			
Alachlor	15972-60-8	NEAT	P-102N	12
		MeOH	P-102S	12
Alanap	132-66-1	NEAT	P-274N	12
		MeOH	P-274S	12
Alar	1596-84-5	NEAT	P-174N	12
		MeOH	P-174S	12
Albendazole	54965-21-8	NEAT	P-498N	12
		MeOH	P-498S	12
Aldicarb	116-06-3	NEAT	P-001N	12
		MeOH	P-001S	12
Aldicarb sulfone	1646-88-4	NEAT	P-130N	22
		MeOH	P-130S	22
Aldicarb sulfoxide	1646-87-3	NEAT	P-131N ❄	22
		MeOH	P-131S	22
Aldoxycarb	see Aldicarb sulfone			
Aldrin	309-00-2	NEAT	P-002N *	12
		MeOH	P-002S	12
Alfa-tox	see Diazinon			
Allethrin	584-79-2	NEAT	P-267N	32
		MeOH	P-267S	32
Allidochlor	93-71-0	NEAT	P-670N	22
		MeOH	P-670S	22
Allisan	see Botran			
Altosid	see Methoprene			
Alloxydim-sodium	55635-13-7	NEAT	P-510N	$ 22
		MeOH	P-510S	22
Amaze	see Isofenphos			
Ambush	see Permethrine			
Amdro	see Hydramethylnon			
Ametryn	834-12-8	NEAT	P-003N	12
		MeOH	P-003S	12
Amidosulfuron	120923-37-7	NEAT	P-821N	52
		AcCN	P-821S-CN	52
Amigol	see Amitrole			
Aminocarb	2032-59-9	NEAT	P-062N	12
		MeOH	P-062S	12
Aminomethylphosphonic acid	1066-51-9	NEAT	P-625N	22
		H2O	P-625S-W	22
4-Aminopyridine	504-24-5	NEAT	P-407N	12
		MeOH	P-407S	12
Aminotriazole	see Amitrole			
Aminozide	see Alar			
Amiral	see Triadimefon			
Amitraz ◗	33089-61-1	NEAT	P-409N	12
		AcCN	P-409S-CN	12
Amitrole (ATA)	61-82-5	NEAT	P-103N	12
		MeOH	P-103S	12
Amizine	see Simazine			
Amizol	see Amitrole			
Ammonium sulfamate	7773-06-0	NEAT	P-530N	22
		MeOH	P-530S	22
AMS	see Ammonium sulfamate			
Ancymidol	12771-68-5	NEAT	P-410N	12
		MeOH	P-410S	12
Anilazine	101-05-3	NEAT	P-287N	12
		Hexane	P-287S-H	12
Antiphen	see Dichlorophen			
Apl-Luster	see Thiabendazole			
Aprocarb	see Baygon			
Aracide	see Aramite			
Aracnol F	see Cyhexatin			
Aramite	140-57-8	MeOH	P-132S	22
A-Rest	see Ancymidol			
Arisan	see Buturon			
Arresin	see Monolinuron			
Aspon	3244-90-4	NEAT	P-309N	62
		MeOH	P-309S	62
Assure	see Quizalofop ethyl			
Asulam	3337-71-1	NEAT	P-276N	12
		MeOH	P-276S	12
ATA	see Amitrole			
Athrombine-K	see Warfarin			
Atratol	see Atrazine			
Atraton	see Gesatamin			
Atrazine	1912-24-9	NEAT	P-005N	12
		MeOH	P-005S	12
Atrazine desethyl	6190-65-4	NEAT	P-343N	22
		MeOH	P-343S	22
Atrazine-desethyl-desisopropyl	3397-62-4	NEAT	P-428N	22
Atrazine-desethyl-2-hydroxy	19988-24-0	Methyl cellosolve	P-544S-MC	52
Atrazine-desisopropyl	1007-28-9	NEAT	P-345N	22
		MeOH	P-345S	22

◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

* V-Rated packaging surcharge applies for international shipments

Pesticides

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Atrazine-desisopropyl-2-hydroxy	7313-54-4	NEAT	P-344N	$ 22
		Methyl cellosolve	P-344S-MC	22
Avadex	see Diallate			
Avid	see Abamectin			
Azaditrachtin	11141-17-6	MeOH	P-711S	75
Azamethiphos	35575-96-3	NEAT	P-352N	12
		MeOH	P-352S	12
Azinphos-ethyl	2642-71-9	NEAT	P-201N	32
		MeOH	P-201S	32
Azinphos-methyl	86-50-0	NEAT	P-007N	12
		MeOH	P-007S	12
Azocyclotin	41083-11-8	NEAT	P-353N	12
		MeOH	P-353S	12
Azoxystrobin	131860-33-8	NEAT	P-719N	22
		MeOH	P-719S	22
Banvel	see Dicamba			
Barbamate	101-27-9	NEAT	P-202N	12
		MeOH	P-202S	12
Barban	see Barbamate			
Barben	see Azinphos-methyl			
Barnon	52756-22-6	NEAT	P-646N	32
		MeOH	P-646S	32
Basagran	see Bentazon			
Basalin	see Fluchloralin			
Basudin	see Diazinon			
Baythroid	see Cyfluthrin			
Baycarb	3766-81-2	NEAT	P-347N	12
		MeOH	P-347S	12
Baycor	See Bitertanol			
Bayfidan	see Triadimenol			
Baygon	114-26-1	NEAT	P-009N	12
		MeOH	P-009S	12
Bayleton	see Triadimefon			
Bayluscid	see Niclosamide			
Baytan	see Triadimenol			
Baytex	see Fenthion			
Baythion	see Phoxim			
Beam	see Tricyclazole			
Benalaxyl	71626-11-4	NEAT	P-559N	22
		MeOH	P-559S	22
Benazolin	3813-05-6	NEAT	P-397N	42
		MeOH	P-397S	42
Bendiocarb	22781-23-3	NEAT	P-203N	12
		MeOH	P-203S	12
Benefin	see Benfluralin			
Benelux	see Thiofanox			
Benfluralin	1861-40-1	NEAT	P-237N	12
		MeOH	P-237S	12
Benfuracarb	82560-54-1	NEAT	P-454N	42
		MeOH	P-454S	42
Benlate	see Benomyl			
Benodanil	15310-01-7	NEAT	P-671N	22
		MeOH	P-671S	22
Benomyl	17804-35-2	NEAT	P-104N	12
		AcN	P-104S-CN ❄	12
Benoxacor	98730-04-2	NEAT	P-490N	22
		MeOH	P-490S	22
Bensulfuron-methyl	83055-99-6	NEAT	P-597N	32
		MeOH	P-597S	32
Bensulide	741-58-2	NEAT	P-204N	32
		MeOH	P-204S	32
Bensultap	17606-31-4	NEAT	P-678N	22
		MeOH	P-678S	22
Bentazon ◗	25057-89-0	NEAT	P-177N	12
		Acetone	P-177S-A	12
		AcN	P-177S-CN	12
Bentazon methyl	61592-45-8	NEAT	P-241N	42
		MeOH	P-241S	42
Benthiocarb	see Thiobencarb			
Benzofuroline	see Resmethrin			
Benzoximate NEW	29104-30-1	AcN	P-801S-CN	$ 32
Benzoylprop ethyl	22212-55-1	NEAT	P-340N	22
		MeOH	P-340S	22
Betasan	see Bensulide			
Bethrodine	see Benfluralin			
BHC Tech	608-73-1	NEAT	P-081N	12
		MeOH	P-081S	12
α-BHC	319-84-6	NEAT	P-010N	22
		MeOH	P-010S	22
β-BHC	319-85-7	NEAT	P-011N	22
		MeOH	P-011S	22
δ-BHC	319-86-8	NEAT	P-012N	32
		MeOH	P-012S	32
γ-BHC	see Lindane			
Bidrin	see Dicrotophos			
Bifenazate NEW	149877-41-8	5 mg	P-772N-5MG	52
		MeOH	P-772S	52
Bifenox	42576-02-3	NEAT	P-257N	12
		MeOH	P-257S	12
Bifenthrin	82657-04-3	NEAT	P-445N	42
		MeOH	P-445S	42
Biflex	see Bifenthrin			
Binapacryl	485-31-4	NEAT	P-499N	22
		MeOH	P-499S	22
Bioallethrin	28057-48-9	NEAT	P-665N	22
		MeOH	P-665S	22
S-Bioallethrin	28424-00-6	NEAT	P-664N	22
		MeOH	P-664S	22
Bioresmethrin	28434-01-7	NEAT	P-594N	22
		MeOH	P-594S	22
Bitertanol	55179-31-2	NEAT	P-351N	12
		MeOH	P-351S	12
Bitrex	3734-33-6	NEAT	P-679N	22
		MeOH	P-679S	22
Bladafum	see Sulfotep			
Bladan	see Parathion			
Blattanex	see Baygon			
Bloc	60168-88-9	NEAT	P-086N	42
		MeOH	P-086S	22
B-Nine	see Alar			
Bolero	see Thiobencarb			
Bolstar	35400-43-2	NEAT	P-108N	12
		MeOH	P-108S	12
Bonzi	76738-62-0	NEAT	P-669N	30
		MeOH	P-669S	30
Boscalid NEW	188425-85-6	NEAT	P-811N	32
		MeOH	P-811S ❄	32
Botran	99-30-9	NEAT	P-013N	12
		MeOH	P-013S	12
BPMC	see Baycarb			
Bravo	see Chlorothalonil			
Brigade	see Bifenthrin			
Brodifacoum	56073-10-0	NEAT	P-677N	32
		MeOH	P-677S	32
Bromacil	314-40-9	NEAT	P-181N	12
		MeOH	P-181S	12
Bromadiolone	28772-56-7	NEAT	P-316N	42
		MeOH	P-316S ❄	42
Bromex	see Naled			
Brominal	1689-84-5	NEAT	P-256N	12
		MeOH	P-256S	12
Bromofenoxim	13181-17-4	NEAT	P-511N	22
		MeOH	P-511S	22
Bromophos-ethyl	4824-78-6	NEAT	P-372N	42
		MeOH	P-372S	42
Bromophos-methyl	2104-96-3	NEAT	P-484N	62
		MeOH	P-484S	62
Bromopropylate	18181-80-1	NEAT	P-457N	32
		MeOH	P-457S	32
Bromoxynil	see Brominal			
Bromoxynil-heptanoate NEW	56634-95-8	NEAT	P-1012N	72
		MeOH	P-1012S	42

◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.



Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Bromoxynil methyl ether	3336-39-8	NEAT	P-573N	$ 22
		MeOH	P-573S	22
Bromoxynil octanoate	1689-99-2	NEAT	P-550N	22
		MeOH	P-550S	22
Bromuconazol	116255-48-2	NEAT	P-843N	32
		AcCN	P-843S-CN	32
Bueno	2163-80-6	NEAT	P-279N	12
		MeOH	P-279S	12
Bupirimate	41483-43-6	NEAT	P-672N	22
		MeOH	P-672S	22
Buprofezin	69327-76-0	NEAT	P-595N	32
		MeOH	P-595S	32
Busan ◗	21564-17-0	AcCN	P-072S-CN	62
Butachlor	23184-66-9	NEAT	P-191N	12
		MeOH	P-191S	12
Butafenacil NEW	134605-64-4	NEAT	P-940N	42
		MeOH	P-940S	42
Butisan S	see Metazachlor			
Butocarboxim	34681-10-2	NEAT	P-518N	32
		MeOH	P-518S	32
Butocarboxim sulfoxide	34681-24-8	NEAT	P-701N	32
		MeOH	P-701S	32
Butoflin	see Deltamethrin			
Butox	see Deltamethrin			
Butoxycarboxim	34681-23-7	NEAT	P-822N	42
		AcCN	P-822S-CN	42
Butralin	33629-47-9	NEAT	P-574N	32
		MeOH	P-574S	32
Buturon	3766-60-7	NEAT	P-301N	22
		MeOH	P-301S	22
Butylate	2008-41-5	NEAT	P-088N	12
		MeOH	P-088S	12
Cadusafos	95465-99-9	NEAT	P-794N *	42
		MeOH	P-794S	42
Calixin	see Tridemorph			
Camphechlor	see Toxaphene			
Caparol	see Prometryne			
Captafol	2425-06-1	NEAT	P-254N	12
		MeOH	P-254S	12
Captan	133-06-2	NEAT	P-182N	12
		MeOH	P-182S ❄	12
Capture	see Bifenthrin			
Carbamult	see Promecarb			
Carbaryl	63-25-2	NEAT	P-083N	12
		MeOH	P-083S	12
Carbendazim	10605-21-7	NEAT	P-278N	12
		MeOH	P-278S	12
Carbetamide	16118-49-3	NEAT	P-562N	22
		MeOH	P-562S	22
Carbexsin	see Oxycarboxin			
Carbicron	see Dicrotophos			
Carbofuran	1563-66-2	NEAT	P-106N	12
		MeOH	P-106S	12
Carbofuran phenol-3-ketone	17781-16-7	MeOH	P-630S	152
Carbophenothion	786-19-6	NEAT	P-095N	12
		MeOH	P-095S	12
Carbophenothion methyl-o-analog		10 µg/mL in EtOAc	P-637S-EA-0.1X	52
Carbosulfan	55285-14-8	NEAT	P-446N	22
		MeOH	P-446S	22
Carboxin	5234-68-4	NEAT	P-216N	12
		MeOH	P-216S	12
Carbyne	see Barbamate			
Casoron	see Dichlobenil			
Cartap	15263-53-3	MeOH	P-577S	52
Cartap hydrochloride NEW	22042-59-7	NEAT	P-949N	22
CDEC	see Sulfallate			
Cekumethion	see Methyl parathion			
Chemathion	see Malathion			
Chinomethionate	2439-01-2	NEAT	P-399N	12
		Acetone	P-399S-A	12
Chloramben	133-90-4	NEAT	P-243N	$ 12
		MeOH	P-243S	12
Chloramben methyl ester	7286-84-2	NEAT	P-272N	22
		MeOH	P-272S	22
Chlorantraniliprole NEW	500008-45-7	NEAT	P-952N	42
		MeOH	P-952S	32
Chlorbenside	103-17-3	NEAT	P-107N	22
		MeOH	P-107S	22
Chlorbromuron	13360-45-7	NEAT	P-520N	12
		MeOH	P-520S	12
Chlorbufam	1967-16-4	NEAT	P-558N	22
		MeOH	P-558S	22
Chlordane	57-74-9	NEAT	P-017N	12
		MeOH	P-017S	12
α-Chlordane	5103-71-9	NEAT	P-134N	22
		MeOH	P-134S	22
		Hexane	P-134S-H	22
γ-Chlordane	5103-74-2	NEAT	P-135N	22
		MeOH	P-135S	22
cis-Chlordane	see a-Chlordane			
trans-Chlordane	see g-Chlordane			
Chlordecone	see Kepone			
Chlordene	3734-48-3	NEAT	P-136N	22
		MeOH	P-136S	22
Chlordimeform	6164-98-3	NEAT	P-333N	12
		MeOH	P-333S	12
Chlorethoxyfos NEW	54593-83-8	NEAT	P-1017N	32
		AcCN	P-1017S-CN	22
Chlorfenac	see Fenatrol			
Chlorfenson	see Ovex			
Chlorfenapyr	122453-73-0	NEAT	P-807N	42
		MeOH	P-807S	42
Chlorfenvinphos	470-90-6	NEAT	P-139N *	22
		MeOH	P-139S	22
Chlorflurecol-methyl ester	2536-31-4	NEAT	P-401N	52
		MeOH	P-401S	52
Chlorflurenol	see Chlorflurecol-methyl ester			
Chloridazon	see Pyrazon			
Chlorimuron-ethyl	90982-32-4	AcCN	P-284S-CN	50
Chlormephos	24934-91-6	NEAT	P-329N	32
		MeOH	P-329S	32
Chlormequat chloride	999-81-5	NEAT	P-338N	12
		MeOH	P-338S	12
Chlorobenzilate ◗	510-15-6	NEAT	P-133N	12
		AcCN	P-133S-CN	12
Chloroea	see Monuron			
2-Chloro-2',6'-diethylacetanilide	6967-29-9	NEAT	P-620N	32
		MeOH	P-620S	32
2-Chloro-4-ethylamino-6-methylethylamino-s-triazine		NEAT	P-539N	22
		Methyl cellosolve	P-539S-MC	22
2-Chloro-4-ethylamino-6-propylamino-s-triazine		NEAT	P-537N	22
	90952-64-0	Methyl cellosolve	P-537S-MC	22
2-Chloro-4-methylamino-6-diethylamino-s-triazine		NEAT	P-541N	22
		Methyl cellosolve	P-541S-MC	22
2-Chloro-4-methylamino-6-sec-butylamino-s-triazine		NEAT	P-540N	22
		Methyl cellosolve	P-540S-MC	22
Chloroneb	2675-77-6	NEAT	P-212N	12
		MeOH	P-212S	12
Chlorophacinone	3691-35-8	NEAT	P-314N	22
		MeOH	P-314S	22
[3(2-Chlorophenyl)]-1,1-dimethylurea	see 2-Monuron			
4-Chlorophenoxyacetic acid	see 4-CPA			
Chloropicrin	76-06-2	NEAT	P-398N **	22
		MeOH	P-398S	22
4-Chloro-2-methylphenol NEW	1570-64-5	NEAT	P-1026N	22
		MeOH	P-1026S	22
3-Chloro-1,2-propanediol	96-24-2	NEAT	P-408N	12
		MeOH	P-408S	12

* V-Rated packaging surcharge applies for international shipments

** This product can not ship by air.

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Most Pesticides are available in 1000 µg/mL (add -10X). Call or visit website for pricing.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Chloropropylate	5836-10-2	NEAT	P-213N	$ 12
		MeOH	P-213S	12
Chlorothalonil	1897-45-6	NEAT	P-222N	12
		MeOH	P-222S	12
Chloroxuron	1982-47-4	NEAT	P-402N	12
		MeOH	P-402S	12
Chlorpropham	101-21-3	NEAT	P-221N	12
		MeOH	P-221S	12
Chlorpyrifos	see Dursban			
Chlorpyrifos-methyl	5598-13-0	NEAT	P-223N	12
		MeOH	P-223S	12
Chlorpyrifos-oxon	5598-15-2	NEAT	P-700N	22
		MeOH	P-700S	22
Chlorsulfuron	64902-72-3	NEAT	P-262N	22
		AcCN	P-262S-CN	22
Chlorthal	see DCPA diacid			
Chlorthiamid	1918-13-4	NEAT	P-673N	32
		MeOH	P-673S	32
Chlorthion	500-28-7	MeOH	P-674S	52
Chlorthiophos	60238-56-4	NEAT	P-545N	22
		MeOH	P-545S	22
Chlortoluron	15545-48-9	NEAT	P-434N	22
		MeOH	P-434S	22
Chlozolinate	84332-86-5	AcCN	P-683S-CN	52
Cinosulfuron	94593-91-6	NEAT	P-823N	12
		AcCN	P-823S-CN	12
Ciodrin	7700-17-6	MeOH	P-218S	52
CIPC	see Chlorpropham			
Clarity	104040-79-1	H_2O	P-495S-W	22
Classic	see Chlorimuron-ethyl			
Clethodim	99129-21-2	AcCN	P-602S-CN ❄	32
Clodinafop NEW	114420-56-3	NEAT	P-1009N	72
		MeOH	P-1009S	72
Clofentezine	74115-24-5	NEAT	P-472N	22
		MeOH	P-472S	22
Clomazon	81777-89-1	MeOH	P-286S	32
Clopyralid	see Lontrel			
Clopyralid methyl ester	1532-24-7	MeOH	P-488S	32
Cloquintocet-mexyl NEW	99607-70-2	NEAT	P-929N	22
		MeOH	P-929S	22
Cloransulam methyl NEW	147150-35-4	AcCN	P-981S-CN	52
Clothianidin NEW	210880-92-5	NEAT	P-947N	52
		MeOH	P-947S	52
CMU	see Monuron			
Comite	see Propargite			
Command	see Clomazone			
Confidor	see Imidacloprid			
Contrac	see Bromadiolone			
Copper oxychloride	1332-40-7	NEAT	P-458N	12
Cornox	see MCPA acid			
Cotoran	see Fluometuron			
Coumachlor	81-82-3	MeOH	P-684S	22
Coumaphene	see Warfarin			
Coumaphos	56-72-4	NEAT	P-019N	12
		MeOH	P-019S	12
Coumatetralyl	5836-29-3	NEAT	P-313N	12
		MeOH	P-313S	12
Counter	see Terbufos			
4-CPA	122-88-3	NEAT	P-373N	12
		MeOH	P-373S	12
Crimidine	535-89-7	NEAT	P-561N	22
		MeOH	P-561S	22
Crotoxyphos	see Ciodrin			
Crufomate	299-86-5	NEAT	P-292N	42
		MeOH	P-292S	42
Curacron	see Profenofos			
Cyanazine	21725-46-2	NEAT	P-175N	12
		MeOH	P-175S	12
Cyanofenphos	13067-93-1	NEAT	P-584N	42
		MeOH	P-584S	42
Cyanophos	2636-26-2	NEAT	P-531N	32
		MeOH	P-531S	32
Cyazofamid NEW	120116-88-3	NEAT	P-969N	$ 32
		MeOH	P-969S	32
Cycloate	1134-23-2	NEAT	P-248N	12
		MeOH	P-248S	12
Cycloheximide	66-81-9	MeOH	P-411N	32
		MeOH	P-411S	32
2-Cyclohexyl-4,6-dinitrophenol	see Dinex			
Cycloxydime	101205-02-1	NEAT	P-735N	32
		MeOH	P-735S ❄	32
Cyfluthrin	68359-37-5	NEAT	P-354N	12
		MeOH	P-354S ❄	12
Cygon	see Dimethoate			
Cyhalofop-butyl NEW	122008-85-9	5 mg	P-944N-5MG	52
		MeOH	P-944S	32
λ-Cyhalothrin	91465-08-6	NEAT	P-473N	52
		MeOH	P-473S ❄	52
Cyhexatin	13121-70-5	NEAT	P-375N	12
		MeOH	P-375S	12
Cyolane	see Phosfolan			
Cymoxanil	57966-95-7	NEAT	P-493N	52
		MeOH	P-493S ❄	52
Cypermethrin	52315-07-8	NEAT	P-225N	42
		MeOH	P-225S ❄	42
α-Cypermethrin	67375-30-8	NEAT	P-548N	42
		AcCN	P-548S-CN	42
cis-Cypermethrin	see a-Cypermethrin			
Cyphenothrin	39515-40-7	NEAT	P-709N	42
		MeOH	P-709S	42
Cypona	see Dichlorvos			
Cyprazine	22936-86-3	NEAT	P-420N	22
		MeOH	P-420S	22
		Hexane	P-420S-H	22
Cyproconazole (Tech)	113096-99-4	MeOH	P-555S	22
Cyprodinil	121552-61-2	NEAT	P-720N	32
		MeOH	P-720S	32
Cyromazine	66215-27-8	NEAT	P-296N	22
		MeOH	P-296S	22
Cythion	see Malathion			
2,3-D acid ◗	2976-74-1	NEAT	P-470N	12
		MeOH	P-470S	12
		AcCN	P-470S-CN	12
2,4-D acid ◗	94-75-7	NEAT	P-020N	12
		MeOH	P-020S	12
		AcCN	P-020S-CN	12
2,6-D acid ◗	575-90-6	NEAT	P-690N	22
		MeOH	P-690S	22
		AcCN	P-690S-CN	22
2,4-D butoxyethyl ester	1929-73-3	NEAT	P-438N	12
2,4-D butyl ester	94-80-4	NEAT	P-712N	12
		MeOH	P-712S ❄	12
2,4-D ethyl ester	533-23-3	NEAT	P-636N	12
		MeOH	P-636S	12
2,4-D ethylhexyl ester	1928-43-4	NEAT	P-439N	12
		Hexane	P-439S-H	12
2,4-D isobutyl ester NEW	1713-15-1	NEAT	P-1027N	22
		AcCN	P-1027S-CN	22
2,4-D methyl ester	1928-38-7	NEAT	P-021N	12
		MeOH	P-021S	12
2,6-D methyl ester		NEAT	P-691N	32
		MeOH	P-691S	32
Dacamox	see Thiofanox			
Daconil	see Chlorothalonil			
Dacthal diacid	see DCPA diacid			
Dacthal monoacid see Monomethyl tetrachloroterephthalate				
Dacthal	1861-32-1	NEAT	P-196N	12
		MeOH	P-196S	12
Dalapon acid ◗	75-99-0	NEAT	P-140N	12
		MeOH	P-140S	12
		AcCN	P-140S-CN	12
Dalapon methyl ester	17640-02-7	NEAT	P-226N	32
		MeOH	P-226S	32
Daminozide	see Alar			
Danicut	see Amitraz			

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Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Danitol	39515-41-8	NEAT	P-263N	$ 42
		MeOH	P-263S	42
Dasanit	115-90-2	NEAT	P-235N	22
		MeOH	P-235S	22
Dazomet	533-74-4	NEAT	P-469N	12
		MeOH	P-469S	12
2,4-DB acid ◗	94-82-6	NEAT	P-141N	12
		MeOH	P-141S	12
		AcCN	P-141S-CN	12
2,4-DB methyl ester	18625-12-2	NEAT	P-228N	22
		MeOH	P-228S	22
DBCP	see Fumazone			
DCMU	see Karmex			
DCNA	see Botran			
DCPA	see Dacthal			
DCPA diacid ◗	2136-79-0	NEAT	P-320N	22
		MeOH	P-320S	22
		AcCN	P-320S-CN	22
o,p'-DDD	53-19-0	NEAT	P-024N	12
		MeOH	P-024S	12
o,p'-DDE	3424-82-6	NEAT	P-026N	22
		MeOH	P-026S	22
o,p'-DDT	789-02-6	NEAT	P-028N	22
		MeOH	P-028S	22
p,p'-DDA	83-05-6	NEAT	P-444N	32
		MeOH	P-444S	32
p,p'-DDD	72-54-8	NEAT	P-025N	12
		MeOH	P-025S	12
p,p'-DDE	72-55-9	NEAT	P-027N	12
		MeOH	P-027S	12
p,p'-DDT	50-29-3	NEAT	P-029N	12
		MeOH	P-029S	12
DDT, Tech	50-29-3	NEAT	P-346N	12
		MeOH	P-346S	12
		AcCN	P-346S-CN	12
4,4'-DDMU	1022-22-6	NEAT	P-424N	22
		MeOH	P-424S	22
DDVP	see Dichlorvos			
Dechlorane	see Mirex			
Decis	see Deltamethrin			
Dedevap	see Dichlorvos			
Deet	134-62-3	NEAT	P-255N	12
		MeOH	P-255S	12
DEF 6	78-48-8	NEAT	P-150N	12
		MeOH	P-150S	12
Delnav	see Dioxathion			
Deltamethrin	52918-63-5	NEAT	P-355N	32
		MeOH	P-355S	32
Demeton (mixed isomers)	8065-48-3	NEAT	P-031N	32
		MeOH	P-031S	32
Demeton-S	126-75-0	NEAT	P-271N	22
		MeOH	P-271S	22
Demeton-S-methyl NEW NEAT	919-86-8	NEAT	P-482N	42
		MeOH	P-482S	42
Demeton-S-methylsulfone	17040-19-6	NEAT	P-554N	32
		MeOH	P-554S	32
Demosan	see Chloroneb			
Desethylterbutylazine	see Terbuthylazin desethyl			
Desmedipham	13684-56-5	NEAT	P-376N	12
		MeOH	P-376S	12
Desmel	see Tilt			
Desmetryn	1014-69-3	NEAT	P-566N	22
		MeOH	P-566S	22
Devrinol	see Napropamide			
Dexon	see Fenaminosulf			
Dialifor	see Dialifos			
Dialifos	10311-84-9	NEAT	P-426N	32
		MeOH	P-426S	32
Diallate	2303-16-4	NEAT	P-142N	42
		MeOH	P-142S	42
Diazinon	333-41-5	NEAT	P-033N	$ 12
		MeOH	P-033S	12
Diazinon-o-analog	962-58-3	NEAT	P-640N	22
		Acetone	P-640S-A	22
Dibam	128-04-1	NEAT	P-487N	12
		MeOH	P-487S	12
Dibrom	see Naled			
Dibutylchlorendate	1770-80-5	NEAT	P-109N	12
		MeOH	P-109S	12
Dicamba ◗	1918-00-9	NEAT	P-008N	12
		MeOH	P-008S	12
		AcCN	P-008S-CN	12
Dicamba diglycolamine (tech)	see Clarity			
Dicamba methyl ester	6597-78-0	NEAT	P-071N	22
		MeOH	P-071S	22
Dicaptan	see Dicapthon			
Dicapthon	2463-84-5	NEAT	P-035N	12
		MeOH	P-035S	12
Dichlobenil	1194-65-6	NEAT	P-275N	12
		MeOH	P-275S	12
Dichlofenthion	97-17-6	NEAT	P-211N	12
		MeOH	P-211S	12
Dichlofluanid	1085-98-9	NEAT	P-474N	12
		MeOH	P-474S	12
Dichlone	117-80-6	NEAT	P-253N	12
		MeOH	P-253S	12
Dichloran	see Botran			
Dichlormid	37764-25-3	NEAT	P-675N	32
		MeOH	P-675S	32
3,5-Dichloroaniline NEW	626-43-7	NEAT	P-1008N	12
		MeOH	P-1008S	12
3,6-Dichloroanisic acid	see Clarity			
2,6-Dichlorobenzamide NEW	2008-58-4	NEAT	P-1035N	12
		MeOH	P-1035S	12
3,5-Dichlorobenzoic acid ◗	51-36-5	NEAT	P-242N	12
		MeOH	P-242S	12
		AcCN	P-242S-CN	12
4,4'-Dichlorobenzophenone	90-98-2	NEAT	P-295N	12
		MeOH	P-295S	12
2,4-Dichloro-6-ethylamino-s-triazine		NEAT	P-538N	52
		MC	P-538S-MC	52
2,3-Dichloronitrobenzene NEW	3209-22-1	NEAT	P-1005N	12
		MeOH	P-1005S-T	12
2,4-Dichlorophenylacetic acid ◗	19719-28-9	NEAT	P-244N	12
		MeOH	P-244S	12
		AcCN	P-244S-CN	12
3-(2,3-Dichlorophenyl)-1,1-dimethylurea	see 2,3-Diuron			
Dichlorophen	97-23-4	NEAT	P-232N	12
		MeOH	P-232S	12
2,4-Dichlorophenylacetic acid Me	see Methyl-2,4-dichlorophenylacetate			
Dichlorprop ◗	120-36-5	NEAT	P-143N	12
		MeOH	P-143S	12
		AcCN	P-143S-CN	12
Dichlorprop methyl ester	57153-17-0	NEAT	P-229N	12
		MeOH	P-229S	12
Dichlorvos	62-73-7	NEAT	P-036N	12
		MeOH	P-036S	12
Diclobutrazol	75736-33-3	NEAT	P-641N	32
		AcCN	P-641S-CN	32
Diclofop	40843-25-2	NEAT	P-514N	52
		MeOH	P-514S	52
Diclofop methyl	51338-27-3	NEAT	P-303N	12
		MeOH	P-303S	12
o,p'-Dicofol	10606-46-9	NEAT	P-606N	102
		MeOH	P-606S	102
Dicofol	see Kelthane			
Dicrotophos	141-66-2	NEAT	P-178N	22
		MeOH	P-178S	22
Dieldrin	60-57-1	NEAT	P-037N *	22
		MeOH	P-037S	22

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Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Can't find a Pesticide? Search using CAS No. Index in back of the catalog.

Pesticides

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Dieltamid	see Deet			
Diethatyl ethyl	38727-55-8	NEAT	P-599N	$ 12
		MeOH	P-599S	12
Diethofencarb	87130-20-9	NEAT	P-744N	32
		MeOH	P-744S	32
Diethylphosphate	598-02-7	NEAT	P-534N	32
		MeOH	P-534S	32
Diethyl phosphate (mono- & di-)	598-02-7	NEAT	P-443N	12
		MeOH	P-443S	12
Difenoconazole	119446-68-3	NEAT	P-447N	22
		MeOH	P-447S	22
Difenoxuron	14214-32-5	NEAT	P-604N	22
		MeOH	P-604S	22
Diflubenzuron	35367-38-5	NEAT	P-377N	12
		MeOH	P-377S	12
Diflufenican	83164-33-4	NEAT	P-722N	32
		MeOH	P-722S	32
2,3-Dihydro-2,2-dimethylbenzofuran-7-ol	1563-38-8	NEAT	P-628N	22
		MeOH	P-628S	22
Dimecron	see Phosphamidon			
Dimefox	115-26-4	NEAT	P-299N	32
		MeOH	P-299S	32
Dimefuron	34205-21-5	NEAT	P-565N	22
		MeOH	P-565S	22
Dimepax	22936-75-0	NEAT	P-643N	32
		MeOH	P-643S	32
Dimepiperate NEW	61432-55-1	50 µg/mL Acetone	P-1020S-A-0.5X	52
Dimetate	see Dimethoate			
Dimethachlor	50563-36-5	NEAT	P-642N	32
		MeOH	P-642S	32
Dimethenamid	87674-68-8	NEAT	P-747N	22
		MeOH	P-747S	22
Dimethenamide-P NEW	163515-14-8	NEAT	P-934S	42
		MeOH	P-934S	42
Dimethipin	55290-64-7	NEAT	P-483N	22
		MeOH	P-483S	22
Dimethoate	60-51-5	NEAT	P-039N	22
		MeOH	P-039S	22
Dimethomorph	110488-70-5	NEAT	P-713N	52
		MeOH	P-713S	52
Dimethyl phosphate	813-78-5	NEAT	P-442N	12
		MeOH	P-442S	12
Dimoxystrobin	149961-52-4	AcCN	P-844S-CN	22
Dinex	131-89-5	NEAT	P-427N	22
		MeOH	P-427S	22
Diniconazol	83657-24-3	NEAT	P-845N	22
		AcCN	P-845S-CN	22
Dinitramine	29091-05-2	NEAT	P-575N	32
		MeOH	P-575S	32
4,6-Dinitro-o-cresol	534-52-1	NEAT	P-384N	12
		MeOH	P-384S	12
Dinocap	39300-45-3	NEAT	P-288N	12
		MeOH	P-288S	12
Dinoseb ◗	88-85-7	NEAT	P-144N	12
		MeOH	P-144S	12
Dinoseb acetate NEW	2813-95-8	NEAT	P-779N	12
		MeOH	P-779S	12
Dinoseb methyl ether	6099-79-2	NEAT	P-230N	12
		MeOH	P-230S	12
Dinoterb	1420-07-1	NEAT	P-524N	12
		MeOH	P-524S	12
Dioxacarb	6988-21-2	NEAT	P-264N	22
		MeOH	P-264S	22
Dioxathion	78-34-2	NEAT	P-219N	52
		MeOH	P-219S	52
Diphacinone	82-66-6	NEAT	P-315N	42
		MeOH	P-315S ❄	42
Diphenamid	957-51-7	NEAT	P-173N	12
		MeOH	P-173S	12
Dipropetryn	4147-51-7	NEAT	P-580N	32
		MeOH	P-580S	32
Diquat dibromide monohydrate	6385-62-2	NEAT	P-231N	12
		MeOH	P-231S	12
Disul-sodium salt	136-78-7	NEAT	P-513N	$ 12
		MeOH	P-513S	12
Disulfoton	298-04-4	NEAT	P-042N *	12
		MeOH	P-042S	12
Disulfoton sulfone	2497-06-5	NEAT	P-582N	52
		MeOH	P-582S	52
Disulfoton sulfoxide	2497-07-6	NEAT	P-593N	52
		MeOH	P-593S	52
Disyston	see Disulfoton			
Ditalimfos	5131-24-8	NEAT	P-546N	22
		MeOH	P-546S	22
Dithane D-14	see Nabam			
Dithianon	3347-22-6	NEAT	P-725N	22
		Acetone	P-725S-A	22
Dithiopyr	97886-45-8	NEAT	P-741N	32
		MeOH	P-741S	32
Diuron	see Karmex			
2,3-Diuron	10290-37-6	NEAT	P-632N	22
		MeOH	P-632S	22
DMST	66840-71-9	MeOH	P-572S	32
DNBP	see Dinoseb			
DNOC	see 4,6-Dinitro-o-cresol			
DNTP	see Parathion			
Dodemorph acetate	31717-87-0	NEAT	P-385N	22
		MeOH	P-385S	22
Dodine	2439-10-3	NEAT	P-386N	12
		MeOH	P-386S	12
Doguadine	see Dodine			
Dowpon	see Dalapon acid			
Dozer	see Fenuron-TCA			
2,4-DP ethyl hexyl	79270-78-3	NEAT	P-429N	22
		MeOH	P-429S	22
Drinox	see Heptachlor			
Dropp	see Thidiazuron			
DSMA	144-21-8	NEAT	P-598N	12
		MeOH	P-598S	12
DTMC	see Kelthane			
Dual	see Metolachlor			
Dursban	2921-88-2	NEAT	P-094N	12
		MeOH	P-094S	12
Dybar	see Fenuron			
Dyfonate	944-22-9	NEAT	P-087N	12
		MeOH	P-087S	12
		Hexane	P-087S-H	12
Dylox	see Trichlorfon			
Dymid	see Diphenamid			
Dyrene	see Anilazine			
EDDP	see Edifenphos			
Edifenphos	17109-49-8	NEAT	P-368N	12
		MeOH	P-368S	12
Ektafos	see Dicrotophos			
Elgetol	see 4,6-Dinitro-o-cresol			
Eloncron	see Dioxacarb			
Emamectin-benzoate NEW	155569-91-8	5 mg	P-996N-5MG	42
		MeOH	P-996S	42
Empenthrin	54406-48-3	NEAT	P-708N	32
Endosulfan I	959-98-8	NEAT	P-091N	22
		MeOH	P-091S	22
Endosulfan II	33213-65-9	NEAT	P-092N	22
		MeOH	P-092S	22
α-Endosulfan	see Endosulfan I			
β-Endosulfan	see Endosulfan II			
Endosulfan, mixed isomers	115-29-7	NEAT	P-435N	12
		MeOH	P-435S	12
Endosulfan sulfate	1031-07-8	NEAT	P-145N	22
		MeOH	P-145S	22
Endothall ◗	145-73-3	NEAT	P-183N	22
		MeOH	P-183S	22
Endothall dimethyl ester		NEAT	P-603N	22
		MeOH	P-603S	22
Endrin	72-20-8	NEAT	P-045N	22
		MeOH	P-045S	22

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◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.



Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Endrin aldehyde	7421-93-4	NEAT	P-046N	$ 22
		MeOH	P-046S	22
Endrin ketone	53494-70-5	NEAT	P-146N	22
		MeOH	P-146S	22
Enide	see Diphenamid			
EPN	2104-64-5	NEAT	P-220N *	12
		Acetone	P-220S-A	12
Epoxiconazole NEW	135319-73-2	NEAT	P-784N	22
		MeOH	P-784S	22
Eptam	see EPTC			
Eptapur	see Buturon			
EPTC	759-94-4	NEAT	P-238N	12
		MeOH	P-238S	12
Esfenvalerate	66230-04-4	NEAT	P-525N	52
		MeOH	P-525S ❄	52
Esprocarb	see Bensulfuron-methyl			
Etaconazole	60207-93-4	NEAT	P-644N	32
		MeOH	P-644S	32
Etazine	see Secbumeton			
Ethalfluralin	55283-68-6	NEAT	P-269N	12
		MeOH	P-269S	12
Ethephon	16672-87-0	NEAT	P-239N	12
		MeOH	P-239S	12
Ethidimuron	30043-49-3	NEAT	P-364N	12
		MeOH	P-364S	12
Ethiofencarb	29973-13-5	NEAT	P-448N	12
		MeOH	P-448S	12
Ethiofencarb sulfone	53380-23-7	AcCN	P-824S-CN	32
Ethiofencarb sulfoxide	53380-22-6	AcCN	P-825S-CN	32
Ethiofencarb metabolite	see 2-Ethylthiomethyl phenol			
Ethion	563-12-2	NEAT	P-048N	12
		MeOH	P-048S	12
Ethiozin	64529-56-2	NEAT	P-660N	32
		MeOH	P-660S	32
Ethirimol	23947-60-6	NEAT	P-645N	32
		MeOH	P-645S	32
Ethofumesate	26225-79-6	NEAT	P-387N	12
		MeOH	P-387S	12
Ethoprop	13194-48-4	NEAT	P-129N	22
		MeOH	P-129S	22
Ethoxyquin	91-53-2	NEAT	P-388N	22
		MeOH	P-388S	22
Ethoxysulfuron	126801-58-9	NEAT	P-847N	42
		AcCN	P-847S-CN	42
Ethyl carbamate	51-79-6	NEAT	P-419N	12
		MeOH	P-419S	12
Ethylene bisdithicocarbarmate, disodium	see Nabam			
Ethylene thiourea	96-45-7	NEAT	P-588N	12
		MeOH	P-588S	12
Ethyl hexanediol (mixed isomers)	94-96-2	NEAT	P-389N	12
		MeOH	P-389S	12
bis(2-Ethylhexyl)adipate	103-23-1	NEAT	P-233N	12
		MeOH	P-233S	12
Ethyl parathion	see Parathion			
2-Ethylthiomethyl phenol		MeOH	P-423S	52
Etofenprox	80844-07-1	NEAT	P-848N	52
		AcCN	P-848S-CN	52
Etoxazole NEW	153233-91-1	NEAT	P-991N	52
		MeOH	P-991S	42
Etridiazole	see Terrazole			
Etrimfos	38260-54-7	NEAT	P-480N	12
		MeOH	P-480S	12
Etrolene	see Ronnel			
ETU	see Ethylene thiourea			
Expand	see Sethoxlydim			
Famophos	see Famphur			
Famoxadon	131807-57-3	AcCN	P-849S-CN	62
Famphur	52-85-7	NEAT	P-147N	12
		MeOH	P-147S	12
Fargo	see Triallate			
Fenac	see Fenatrol			

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Fenamidone	161326-34-7	NEAT	P-850N	$ 32
		AcCN	P-850S-CN	32
Fenaminosulf	140-56-7	NEAT	P-058N	12
		MeOH	P-058S	12
Fenamiphos	22224-92-6	NEAT	P-114N	32
		MeOH	P-114S	32
Fenamiphos sulfone	31972-44-8	NEAT	P-623N	62
		MeOH	P-623S	62
Fenamiphos sulfoxide	31972-43-7	NEAT	P-622N	62
		MeOH	P-622S	62
Fenarimol	see Bloc			
Fenatrol	85-34-7	NEAT	P-319N	12
		MeOH	P-319S	12
Fenazaquin	120928-09-8	Hexane	P-787S-H	32
Fenbuconazole	114369-43-6	MeOH	P-662S	32
Fenbutatin oxide	13356-08-6	NEAT	P-481N	22
		Acetone	P-481S-A	22
Fenchlorphos	see Ronnel			
Fenfuram NEW	24691-80-3	NEAT	P-896N	22
		MeOH	P-896S	22
Fenhexamid	126833-17-8	NEAT	P-783N	22
		MeOH	P-783S	22
Fenitrothion	122-14-5	NEAT	P-259N	12
		MeOH	P-259S	12
Fenoprop	see Silvex			
Fenothiocarb NEW	62850-32-2	50 µg/mL MeOH	P-1021S-0.5X	52
Fenoxanil NEW	115852-48-7	NEAT	P-997N	32
		MeOH	P-997S	32
Fenoxaprop NEW	95617-09-7	NEAT	P-884N	42
		MeOH	P-884S	42
Fenoxaprop-ethyl	66441-23-4	NEAT	P-365N	22
		MeOH	P-365S	22
Fenoxaprop-p-ethyl	71283-80-2	NEAT	P-694N	32
		MeOH	P-694S	32
Fenoxycarb	79127-80-3	NEAT	P-686N	22
		MeOH	P-686S	22
Fenpropathrin	see Danitol			
Fenpropidin NEW	67306-00-7	NEAT	P-802N	32
		MeOH	P-802S	22
Fenpropimorph	67564-91-4	NEAT	P-705N	22
		MeOH	P-705S	22
Fenpyroximate	111812-58-9	NEAT	P-724N	52
		MeOH	P-724S	52
Fenson	80-38-6	NEAT	P-551N	22
		MeOH	P-551S	22
Fensulfothion	see Dasanit			
Fenthion	55-38-9	NEAT	P-148N	12
		MeOH	P-148S	12
Fentin acetate	900-95-8	NEAT	P-680N	22
		MeOH	P-680S	22
Fentin chloride	see Triphenyltin chloride			
Fenuron	101-42-8	NEAT	P-004N	12
		MeOH	P-004S	12
Fenuron-TCA	4482-55-7	NEAT	P-006N	12
		MeOH	P-006S	12

Fipronil and Its Metabolites:

Fipronil is in the phenyl pyrazole class of pesticides. It is a broad-spectrum insecticide used in many different applications. It is used in many commercial topical flea and tick treatments for cats and dogs. Fipronil is used in these types of applications because it is not readily absorbed through the skin, and has a comparatively low toxicity if ingested.

Fipronil produces three notable metabolites: Fipronil Sulfide, Fipronil Sulfone and Fipronil Desulfinyl. These metabolites form under different conditions, and are of particular interest, because unlike the parent compound, they can be more toxic and environmentally persistent.

Fipronil & Metabolite Kit
P-FIP-MET-KIT $ 225 **/ 4 x 1 mL**
P-738S-A, P-782S-A, P-781S-A, P-780S-A

* V-Rated packaging surcharge applies for international shipments

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Most Pesticides are available in 1000 µg/mL (add -10X). Call or visit website for pricing.

Pesticides

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Fenvalerate	51630-58-1	NEAT	P-194N	$ 12
		MeOH	P-194S ❄	12
Ferbam	14484-64-1	NEAT	P-110N	12
		MeOH	P-110S	12
Ferber K	see Ferbam			
Ficam	see Bendiocarb			
Fipronil	120068-37-3	NEAT	P-738N	42
		MeOH	P-738S ❄	42
		Acetone	P-738S-A	42
Fipronil desulfinyl		Acetone	P-782S-A	150
Fipronil sulfide	120067-83-6	Acetone	P-781S-A	75
		5 mg	P-781N-5MG	75
Fipronil sulfone	120068-36-2	Acetone	P-780S-A	50
Flamprop-methyl	52756-25-9	NEAT	P-366N	12
		MeOH	P-366S	12
Flazasulfuron	104040-78-0	AcCN	P-826N-CN	62
Flonicamid NEW	158062-67-0	NEAT	P-926N	32
		MeOH	P-926S	32
Florasulam	145701-23-1	AcCN	P-827S-CN-0.1X	42
Fluazifop-butyl	69806-50-4	NEAT	P-310N	22
		MeOH	P-310S	22
Fluazifop-p-butyl	79241-46-6	NEAT	P-601N	52
		MeOH	P-601S	52
Fluazinam	79622-59-6	NEAT	P-586N	52
		MeOH	P-586S	42
Flubendiamide NEW	272451-65-7	NEAT	P-1025N	42
		AcCN	P-1025S-CN	42
Fluchloralin	33245-39-5	NEAT	P-270N	22
		MeOH	P-270S	22
Flucythrinate	70124-77-5	MeOH	P-378S ❄	52
Fludioxonil	131341-86-1	NEAT	P-698N	32
		MeOH	P-698S	32
Flufenoxuron	101463-69-8	NEAT	P-687N	32
		MeOH	P-687S	32
Flumetralin	62924-70-3	NEAT	P-491N	22
		MeOH	P-491S	22
Flumetsulam	98967-40-9	NEAT	P-659N	24
		MeOH	P-659S	24
Flumiclorac-pentyl NEW	87546-18-7	NEAT	P-993N	22
		MeOH	P-993S	22
Flumioxazin NEW	103361-09-7	NEAT	P-992N	42
		CH_2Cl_2	P-992S-D	42
Fluometuron	2164-17-2	NEAT	P-014N	12
		MeOH	P-014S	12
Fluopicolide NEW	239110-15-7	NEAT	P-1024N	42
		Acetone	P-1024S-A	42
Fluquinconazole NEW	136426-54-5	NEAT	P-878N	52
		AcCN	P-878S-CN	52
Flurenol methyl ester	1216-44-0	NEAT	P-412N	12
		MeOH	P-412S	12
Fluridone	59756-60-4	NEAT	P-193N	12
		MeOH	P-193S	12
Flurochloridon	61213-25-0	NEAT	P-647N	32
		MeOH	P-647S	32
Flurodifen	15457-05-3	NEAT	P-676N	12
		MeOH	P-676S	12
Fluroxypyr	69377-81-7	MeOH	P-521S	52
Fluroxypyr-1-methylheptyl ester	81406-37-3 NEW	NEAT	P-927N	22
		MeOH	P-927S	22
Flusilazole	85509-19-9	NEAT	P-578N	42
		MeOH	P-578S	42
Flutolanil	66332-96-5	NEAT	P-587N	12
		MeOH	P-587S	12
Flutriafol	76674-21-0	NEAT	P-699N	34
		MeOH	P-699S	34
Tau-Fluvalinate	102851-06-9	NEAT	P-356N	32
		MeOH	P-356S	32
		AcCN	P-356S-CN	32
Folbex	see Chlorobenzilate			
Folex	see Merphos			
Folosan	see Pentachloronitrobenzene			
Folpet	133-07-3	NEAT	P-258N	12
		MeOH	P-258S	12
Fomesafen NEW	72178-02-0	NEAT	P-907N	$ 22
		MeOH	P-907S	22
Fonofos	see Dyfonate			
Foramsulfuron	173159-57-4	NEAT	P-852N	32
		AcCN	P-852S-CN	32
Formetanate HCl	23422-53-9	NEAT	P-431N	12
		MeOH	P-431S	12
Formothion	2540-82-1	NEAT	P-149N	72
		AcCN	P-149S-CN	72
Fosetyl aluminum	39148-24-8	NEAT	P-532N	62
		MeOH	P-532S	62
Frescon	see Trifenmorph			
Frumidor	see Thiophanate-methyl			
Fumazone	96-12-8	NEAT	P-341N	12
		MeOH	P-341S	12
Furadan	see Carbofuran			
Furalaxyl	57646-30-7	NEAT	P-605N	22
		MeOH	P-605S	22
Furathiocarb	65907-30-4	NEAT	P-569N	22
		MeOH	P-569S	22
Furmecyclox	60568-05-0	MeOH	P-607S	32
Furore	see Fenoxaprop-ethyl			
Fusilade	see Fluazifop-butyl			
Galtak	see Benazolin			
Gardona	see Tetrachlorvinphos			
Gardoprim	see Terbuthylazine			
Garlon	see Triclopyr			
Garrathion	see Carbophenothion			
Gesafram	see Prometon			
Gesagard	see Prometryne			
Gesamil	see Propazine			
Gesapax	see Ametryn			
Gesaprim	see Atrazine			
Gesatamine	1610-17-9	NEAT	P-189N	22
		MeOH	P-189S	22
Gesatop	see Simazine			
Gexane	see Lindane			
Glufosinate, ammonium salt	77182-82-2	NEAT	P-475N	22
		MeOH	P-475S	22
Glyodin	556-22-9	NEAT	P-528N	12
		MeOH	P-528S	12
Glyphosate	1071-83-6	NEAT	P-015N	12
		H20	P-015S-W	12
Goal	see Oxyfluorfen			
Goltix	see Metamitron			
Grasidin	see Sethoxydim			
Grasp	see Tralkoxydim			
Guazatine acetate	115044-19-4	MeOH	P-612S	52
Gusathion M	see Azinphos-methyl			
Guthion	see Azinphos-methyl			
Gy-bon	see Simetryn			
Haloxyfop ◗	69806-34-4	NEAT	P-496N	32
		MeOH	P-496S	32
		AcCN	P-496S-CN	32
Haloxyfop-methyl	69806-40-2	NEAT	P-497N	32
		MeOH	P-497S	32
Hanane	see Dimefox			
Hedonal	see MCPP acid			
Helothion	see Bolstar			
HEOD	see Dieldrin			
Heptachlor	76-44-8	NEAT	P-053N	12
		MeOH	P-053S	12
Heptachlor epoxide [Isomer A]	28044-83-9	MeOH	P-294S	32
Heptachlor epoxide [Isomer B]	1024-57-3	NEAT	P-054N	22
		MeOH	P-054S	22
2-Hepta-decyl-2-imidazoline	see Glyodin			
Heptamul	see Heptachlor			
Heptenophos	23560-59-0	NEAT	P-547N	42
		MeOH	P-547S	42
Heptox	see Heptachlor			
Herald	see Danitol			
Herb-All	see MSMA			
Herkol	see Dichlorvos			

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Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Hexaconazole	79983-71-4	NEAT	P-500N	$ 12
		MeOH	P-500S	12
Hexaflumuron	86479-06-3	NEAT	P-697N	22
		MeOH	P-697S ❄	22
Hexamethylphosphoramide	680-31-9	NEAT	P-205N	12
		MeOH	P-205S	12
Hexazinone	51235-04-2	NEAT	P-123N	12
		MeOH	P-123S	12
Hexylthiocarbam	see Cycloate			
Hexythiazox	78587-05-0	NEAT	P-658N	45
		MeOH	P-658S	45
Hoe 2810	see Linuron			
Hoelon	see Dichlofop methyl			
Horbadox	see Pendimethalin			
Hostathion	see Triazophos			
Hoxan	see Dichlofop methyl			
Hydramethylnon	67485-29-4	NEAT	P-403N	42
		MeOH	P-403S	42
2-Hydroxyatrazine	2163-68-0	NEAT	P-326N	22
		MeOH	P-326S	22
3-Hydroxycarbofuran	16655-82-6	MeOH	P-186S	22
1-Hydroxychlordene	24009-05-0	MeOH	P-151S	52
Hymexazol	10004-44-1	MeOH	P-571S	60
Hyvar	see Bromacil			
Illoxan	see Dichlofop methyl			
Imazalil	35554-44-0	NEAT	P-332N	32
		MeOH	P-332S	32
Imazamethabenz methyl	81405-85-8	NEAT	P-414N	32
		MeOH	P-414S	32
Imazapyr ◗	81334-34-1	NEAT	P-589N	32
		MeOH	P-589S	32
		AcCN	P-589S-CN	32
Imazaquin	81335-37-7	NEAT	P-283N	32
		MeOH	P-283S ❄	32
Imazethapyr	81335-77-5	MeOH	P-285S	22
Imazosulfuron	122548-33-8	AcCN 10 µg	P-853S-CN-0.1X	52
Imibenconazole NEW	86598-92-7	AcCN 50 µg	P-1019S-CN-0.5X	52
Imidacloprid	138261-41-3	NEAT	P-596N	32
		MeOH	P-596S	32
Imidan	732-11-6	NEAT	P-055N	12
		MeOH	P-055S	12
Indalone	532-34-3	NEAT	P-648N	12
		MeOH	P-648S	12
Indanofan NEW	133220-30-1	NEAT	P-988N	52
		MeOH	P-988S	52
Indoxacarb	144171-61-9	NEAT	P-829N	42
		AcCN	P-829S-CN	42
Ingran 80W	see Prebane			
INPC	see Propham			
Iodofenphos	18181-70-9	NEAT	P-379N	22
		MeOH	P-379S	22
Iodosulfuron-methyl-sodium	144550-36-7	NEAT	P-830N	62
		AcCN	P-830S-CN	32
Ioxynil	1689-83-4	NEAT	P-522N	32
		MeOH	P-522S	32
IPB	see Iprobenfos			
IPC	see Propham			
Iprobenfos	26087-47-8	NEAT	P-609N	32
		MeOH	P-609S	32
Iprodione	36734-19-7	NEAT	P-016N	12
		Acetone	P-016S-A	12
		AcCN	P-016S-CN	12
Iprovalicarb	140923-17-7	NEAT	P-831N	42
		AcCN	P-831S-CN	42
Irgarol	28159-98-0	NEAT	P-746N	32
		MeOH	P-746S	32
Isazophos	42509-80-8	NEAT	P-449N	12
		MeOH	P-449S	12
Isobenzan	297-78-9	MeOH	P-323S	12

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Isobenzofuranone NEW	87-41-2	NEAT	P-1022N	$ 12
		MeOH	P-1022S	12
Isodrin	465-73-6	NEAT	P-471N	12
		MeOH	P-471S	12
Isofenphos	25311-71-1	NEAT	P-018N	12
		MeOH	P-018S	12
Isofenphos-methyl NEW	99675-03-3	MeOH	P-984S	62
Isoprocarb	2631-40-5	NEAT	P-317N	12
		MeOH	P-317S	12
Isopropalin	33820-53-0	NEAT	P-100N	12
		MeOH	P-100S	12
2-Isopropylamino-4,6-dichloro-s-triazine		NEAT	P-635N	22
		MeOH	P-635S	22
2-Isopropyl-6-methyl-4-pyrimidinol		NEAT	P-631N	22
	2814-20-2	MeOH	P-631S	22
Isoprothiolane	50512-35-1	NEAT	P-661N	32
		MeOH	P-661S	32
Isoproturon	34123-59-6	NEAT	P-302N	12
		MeOH	P-302S	12
Isoxaben	82558-50-7	NEAT	P-533N	22
		MeOH	P-533S	22
Isoxaflutole	141112-29-0	NEAT	P-832N	12
		AcCN	P-832S-CN	12
Jodfenphos	see Iodofenphos			
Kadethrine	58769-20-3	NEAT	P-367N	12
		MeOH	P-367S	12
Karbutilate	4849-32-5	NEAT	P-337N	12
		MeOH	P-337S	12
Karmex	330-54-1	NEAT	P-227N	12
		MeOH	P-227S	12
Kelthane	115-32-2	NEAT	P-057N	22
		MeOH	P-057S	22
Kepone	143-50-0	NEAT	P-152N	12
		MeOH	P-152S	12
Kerb	see Pronamide			
3-Ketocarbofuran	16709-30-1	Acetone	P-298S-A	52
Kilprop	see MCPP acid			
Kothar	see Oxyfluorfen			
Kresoxim-methyl	143390-89-0	NEAT	P-740N	32
		MeOH	P-740S	32
Lannate	see Methomyl			
Larvadex	see Cyromazine			
Lasso	see Alachlor			
Lazo	see Alachlor			
Lenacil	2164-08-1	NEAT	P-649N	12
		MeOH	P-649S	12
Lentagran	see Pyridate			
Lepton	see Leptophos			
Leptophos	21609-90-5	NEAT	P-206N	12
		MeOH	P-206S	12
Lesan	see Fenaminosulf			
Lethane 384	112-56-1	NEAT	P-506N	12
		MeOH	P-506S	12
Lindane (γ-BHC)	58-89-9	NEAT	P-059N	12
		MeOH	P-059S	12
Linuron	330-55-2	NEAT	P-022N	12
		MeOH	P-022S	12
Liphadione	see Chlorophacinone			
Lonacol	see Zineb			
Lontrel	1702-17-6	NEAT	P-224N	22
		MeOH	P-224S	22
Lorox	see Linuron			
Lufenuron	103055-07-8	NEAT	P-704N	32
		MeOH	P-704S	32
Machete	see Butachlor			
Malaoxon	1634-78-2	NEAT	P-529N	32
		MeOH	P-529S	32
Malaspray	see Malathion			
Malathion	121-75-5	NEAT	P-060N	12
		MeOH	P-060S	12
Maleic hydrazide	123-33-1	NEAT	P-380N	12
		MeOH	P-380S	12

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Can't find a Pesticide? Search using CAS No. Index in back of the catalog.

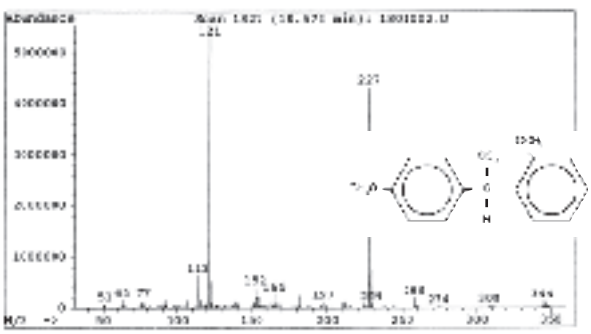
Pesticides

Pesticide Standards

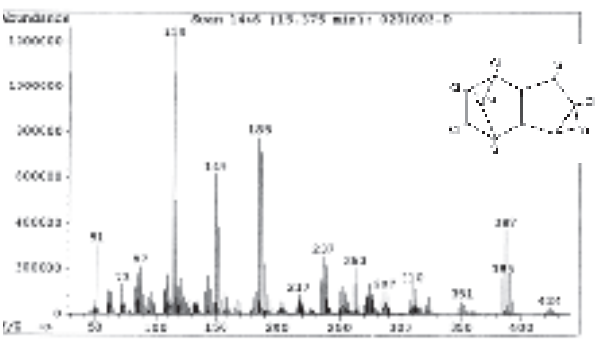
Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Mancozan	see Zineb			
Mancozeb	8018-01-7	NEAT	P-322N	$ 12
Mandipropamid NEW	374726-62-2	NEAT	P-1023N	42
		AcCN	P-1023S-CN	42
Maneb	12427-38-2	NEAT	P-282N	12
Manzeb	see Mancozeb			
Marathon	see Imidacloprid			
Marlate	see Methoxychlor			
Matacil	see Aminocarb			
Mataven	see Flamprop-methyl			
Mavrik	see Fluvalinate			
Maxforce	see Hydramethylnon			
MCPA-acid ◗	94-74-6	NEAT	P-153N	12
		MeOH	P-153S	12
		AcCN	P-153S-CN	12
MCPA methyl ester	2436-73-9	NEAT	P-038N	12
		MeOH	P-038S	12
MCPB acid	94-81-5	NEAT	P-370N	12
		MeOH	P-370S	12
MCPB methyl ester	57153-18-1	NEAT	P-371N	22
		MeOH	P-371S	22
MCPP acid ◗	7085-19-0	NEAT	P-154N	32
		MeOH	P-154S	32
		AcCN	P-154S-CN	32
MCPP methyl ester	23844-56-6	NEAT	P-040N	12
		MeOH	P-040S	12
Mecarbam	2595-54-2	NEAT	P-318N	22
		MeOH	P-318S	22
Mecoprop	see MCPP acid			
Mecoprop, 2-ethylhexyl ester	71526-69-7	NEAT	P-502N	22
		MeOH	P-502S	22
Mecoprop-1-octyl ester NEW	161922-37-8	NEAT	P-1028N	32
		AcCN	P-1028S-CN	32
Mecoprop-2-octyl ester NEW	28473-03-2	NEAT	P-1029N	32
		AcCN	P-1029S-CN ❄	32
Mediben	see Dicamba			
Mefenacet	73250-68-7	NEAT	P-745N	22
		MeOH	P-745S	22
Mefenpyr-diethyl	135590-91-9	NEAT	P-1010N	42
		MeOH	P-1010S	32
Meltatox	see Dodemorph acetate			
Menaphace	see MCPA acid			
Mepanipyrim	110235-47-7	NEAT	P-855N	52
		AcCN	P-855S-CN	52
Mephosfolan	950-10-7	NEAT	P-718N	12
		MeOH	P-718S	12
Mepro	see MCPP acid			
Mepronil	55814-41-0	NEAT	P-736N	32
		MeOH	P-736S	32
2-Mercaptobenzothiazole monoethanolamine salt	see Vanicide-20S			
Mercaptodimethur	see Methiocarb			
Mercaptophos	see Fenthion			
Mercuram	see Thiram			
Merge 823	see MSMA			
Merphos	150-50-5	NEAT	P-124N	22
		MeOH	P-124S	22
Metacide	see Methyl parathion			
Metalaxyl	57837-19-1	NEAT	P-120N	32
		MeOH	P-120S	32
Metalaxyl-M	70630-17-0	NEAT	P-874N	42
		MeOH	P-874S	42
Metaldehyde ◗	9002-91-9	NEAT	P-600N	12
		MeOH	P-600S	12
		AcCN	P-600S-CN	12
Metamitron	41394-05-2	NEAT	P-252N	12
		MeOH	P-252S	12
Metam-sodium	see Metam-sodium dihydrate			
Metam-sodium dihydrate	6734-80-1	NEAT	P-381N	12
		MeOH	P-381S	12
Metasystox R	see Oxydemeton methyl			

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Metazachlor	67129-08-2	NEAT	P-249N	$ 12
		MeOH	P-249S	12
Metconazole	125116-23-6	NEAT	P-856N	32
		AcCN	P-856S-CN	22
Methabenzthiazuron	18691-97-9	NEAT	P-563N	22
		MeOH	P-563S	22
Methacrifos	62610-77-9	NEAT	P-556N	22
		MeOH	P-556S	22
Methamidophos	see Monitor			
Methidathion	950-37-8	NEAT	P-195N *	12
		MeOH	P-195S	12
Methiocarb	2032-65-7	NEAT	P-156N	12
		MeOH	P-156S	12
Methomyl	16752-77-5	NEAT	P-032N	12
		MeOH	P-032S	12
Methoprene	40596-69-8	NEAT	P-157N	32
		MeOH	P-157S	32
Methoprotryne	841-06-5	NEAT	P-564N	22
		MeOH	P-564S	22
Methoxychlor	72-43-5	NEAT	P-064N	12
		MeOH	P-064S	12
o,p'-Methoxychlor	30667-99-3	MeOH	P-535S	52
		Isooctane	P-535S-TP	52
p,p'-Methoxychlor-olefin	2132-70-9	MeOH	P-466S	52
Methoxy-DDT	see Methoxychlor			
Methoxyfenozide	161050-58-4	NEAT	P-857N	72
		AcCN	P-857S-CN	72
Methylamine hydrochloride	593-51-1	NEAT	P-624N	12
		MeOH	P-624S	12
Methyl-3,5-dichlorobenzoate	2905-67-1	NEAT	P-247N	12
		MeOH	P-247S	12
2-Methyl-4,6-dinitroanisole	29027-13-2	NEAT	P-611N	22
		MeOH	P-611S	22
2-Methyl-4,6-dinitrophenol methyl ether	see 2-Methyl-4,6-dinitroanisole			
Methyl dursban	see Chlorpyrifos-methyl ester			

We have synthesized neat o,p'-Methoxychlor: $C_{16}H_{15}Cl_3O_2$, M.W. = 344



We have synthesized neat Oxychlordane: $C_{10}H_4Cl_8O$ M.W. = 420



* V-Rated packaging surcharge applies for international shipments

◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.



Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Methyl-2,4-dichlorophenylacetate	55954-23-9	NEAT	P-214N	$ 12
		MeOH	P-214S	12
3-Methyl-4-nitrophenol	2581-34-2	NEAT	P-509N	12
		MeOH	P-509S	12
Methyl nonyl ketone ◗	112-12-9	NEAT	P-415N	12
		MeOH	P-415S	12
		AcCN	P-415S-CN	12
Methyl paraoxon	950-35-6	NEAT	P-311N	32
		MeOH	P-311S	32
Methyl parathion	298-00-0	NEAT	P-065N *	12
		MeOH	P-065S	12
Methylpentachlorophenyl sulfide	1825-19-0	NEAT	P-567N	12
		MeOH	P-567S	12
Methyl tiofanato	see Thiophanate-methyl			
Methyl trithion	953-17-3	MeOH	P-652S	32
Metiram	9006-42-2	NEAT	P-416N	12
Metobromuron	3060-89-7	NEAT	P-436N	12
		MeOH	P-436S	12
Metolachlor	51218-45-2	NEAT	P-158N	12
		MeOH	P-158S	12
S-Metolachlor NEW	87392-12-9	NEAT	P-1013N	42
		MeOH	P-1013S	32
Metolcarb	1129-41-5	NEAT	P-494N	22
		MeOH	P-494S	22
Metoxuron	19937-59-8	NEAT	P-437N	12
		MeOH	P-437S	12
Metrafenone NEW	220899-03-6	NEAT	P-1032N	42
		AcCN	P-1032S-CN	42
Metribuzin	21087-64-9	NEAT	P-089N	12
		MeOH	P-089S	12
Metron	see Methyl parathion			
Metsulfuron-methyl	74223-64-6	NEAT	P-463N	42
		MeOH	P-463S ❄	42
Mevinphos	7786-34-7	NEAT	P-074N *	12
		MeOH	P-074S	12
Mexacarbate	315-18-4	NEAT	P-030N	22
		MeOH	P-030S	22
MGK-264	113-48-4	NEAT	P-082N	12
		MeOH	P-082S	12
MGK-326	136-45-8	NEAT	P-342N	12
		MeOH	P-342S	12
Milogard	see Propazine			
MIPC	see Isoprocarb			
Mirex	2385-85-5	NEAT	P-066N	12
		MeOH	P-066S	12
Mitac	see Amitraz			
Mocap	see Ethoprop			
Molinate	2212-67-1	NEAT	P-176N	32
		MeOH	P-176S	32
Monalide	7287-36-7	NEAT	P-737N	32
		MeOH	P-737S	32
Monceren	see Pencycuron			
Monitor	10265-92-6	NEAT	P-155N	42
		MeOH	P-155S	42
Monocrotophos	6923-22-4	NEAT	P-112N	32
		MeOH	P-112S	32
Monolinuron	1746-81-2	NEAT	P-382N	12
		MeOH	P-382S	12
Monomethyltetrachloroterephthalate	887-54-7	NEAT	P-707N	52
		Acetone	P-707S-A	52
Monuron	150-68-5	NEAT	P-023N	12
		MeOH	P-023S	12
Monuron TCA	140-41-0	NEAT	P-034N	12
		MeOH	P-034S	12
2-Monuron		NEAT	P-633N	22
		MeOH	P-633S	22
Morestan	see Chinomethionate			
MSMA	see Bueno			
Myclobutanil	88671-89-0	NEAT	P-330N	42
		MeOH	P-330S	42
Nabam	142-59-6	NEAT	P-383N	12
		MeOH	P-383S	12
Naled	300-76-5	NEAT	P-159N	12
		MeOH	P-159S	12
1-Naphthalene acetamide	86-86-2	NEAT	P-512N	$ 12
		MeOH	P-512S	12
1-Naphthol NEW	90-15-3	NEAT	P-1007N	12
		MeOH	P-1007S	12
Napropamide	15299-99-7	NEAT	P-179N	12
		MeOH	P-179S	12
Naptalam	see Alanap			
1-Naphthylacetic acid	86-87-3	NEAT	P-461N	12
		MeOH	P-461S	12
Navadel	see Dioxathion			
Neburon	555-37-3	NEAT	P-041N	12
		MeOH	P-041S	12
Neguvon	see Trichlorfon			
Nemacur R	see Fenamiphos			
Neocidol	see Diazinon			
Netrazine	see Cyromazine			
Niagaramite	see Aramite			
Nialate	see Ethion			
Niclosamide	50-65-7	NEAT	P-160N	22
		MeOH	P-160S	22
Nicosulfuron	111991-09-4	NEAT	P-591N	52
		AcCN	P-591S-CN	52
Nifos	see TEPP			
Nitenpyram	120738-89-8	NEAT	P-858N	32
		AcCN	P-858S-CN	32
Nitralin	4726-14-1	NEAT	P-583N	12
		MeOH	P-583S	12
Nitrapyrin	1929-82-4	NEAT	P-489N	12
		MeOH	P-489S	12
4-Nitroanisole	100-17-4	NEAT	P-273N	12
		MeOH	P-273S	12
Nitrofen	1836-75-5	NEAT	P-363N	32
		MeOH	P-363S	32
Nitrothal-isopropyl	10552-74-6	NEAT	P-695N	32
		MeOH	P-695S	32
Nix-Scald	see Ethoxyquin			
Nomersan	see TEPP			
cis-Nonachlor	5103-73-1	NEAT	P-297N	52
		MeOH	P-297S	52
trans-Nonachlor	39765-80-5	NEAT	P-184N	22
		MeOH	P-184S	22
Norflurazon	27314-13-2	NEAT	P-217N	22
		MeOH	P-217S	22
Novaluron NEW	116714-46-6	5 mg	P-966N-5MG	72
		MeOH	P-966S	72
Nuarimol	see Trimidal			
Nucidol	see Diazinon			
Nuvacron	see Monocrotophos			
Nuvanol	see Iodofenphos			
Octachlor	see Chlordane			
Octacide 264	see MGK 264			
Octalox	see Dieldrin			
Octamethylpyrophosphoramide	see Schradan			
OFF	see Deet			
Oftanol	see Isofenphos			
Ofurace	58810-48-3	10 µg/mL Isooctane	P-653S-TP-0.1X	32
Omethoate	1113-02-6	NEAT	P-121N	22
		MeOH	P-121S	22
Omite	see Propargite			
OMPA	see Schradan			
Omtan	see Isobenzan			
Option	see Fenoxaprop-ethyl			
Orbencarb	34622-58-7	NEAT	P-433N	22
		MeOH	P-433S	22
Orbit	see Tilt			
Ordram	see Molinate			
Ornamec	see Fluazifop-p-butyl			
Orthene	see Acephate			
Orthocide	see Captan			
Oryzalin	19044-88-3	NEAT	P-043N	12
		MeOH	P-043S	12

* V-Rated packaging surcharge applies for international shipments

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Most Pesticides are available in 1000 µg/mL (add -10X). Call or visit website for pricing.

Pesticides

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Outfox	see Cyprazine			
Ovex	80-33-1	NEAT	P-425N	$ 22
		MeOH	P-425S	22
Ovochlor	see Ovex			
Oxabetrinil NEW	74782-23-3	NEAT	P-995N	32
		MeOH	P-995S	32
Oxadiargyl NEW	39807-15-3	NEAT	P-1031N	32
		AcCN	P-1031S-CN	32
Oxadiazon	19666-30-9	NEAT	P-236N	32
		MeOH	P-236S	32
Oxadixyl	77732-09-3	MeOH	P-560S	22
Oxamyl	23135-22-0	NEAT	P-161N	12
		MeOH	P-161S	12
Oxasulfuron	144651-06-9	NEAT	P-859N	22
		AcCN	P-859S-CN	22
Oxycarboxin	5259-88-1	NEAT	P-391N	12
		MeOH	P-391S	12
Oxychlordane Isomer	27304-13-8	MeOH	P-331S	77
	10 µg/mL in	MeOH	P-331S-0.1X	34
		Hexane	P-331S-H	77
Oxydemeton-methyl	301-12-2	MeOH	P-290S	22
Oxyfluorfen	42874-03-3	NEAT	P-277N	42
		MeOH	P-277S	42
Oxythioquinox	see Chinomethionate			
Paarlan	see Isopropalin			
Paraoxon	311-45-5	NEAT	P-453N	22
		MeOH	P-453S	22
Paraquat	1910-42-5	NEAT	P-051N *	12
		MeOH	P-051S	12
Parathion	56-38-2	NEAT	P-070N	12
		MeOH	P-070S	12
Paridol	see Methyl parathion			
PCA	see Pyrazon			
PCNB	see Pentachloronitrobenzene			
PCP methyl ether	see Pentachloroanisole			
PDU	see Fenuron			
PEBC	see Tillam			
Pebulate	see Tillam			
Penconazole	66246-88-6	NEAT	P-450N	32
		MeOH	P-450S	32
Pencycuron	66063-05-6	NEAT	P-358N	32
		MeOH	P-358S	32
Pendimethalin	40487-42-1	NEAT	P-097N	12
		MeOH	P-097S	12
Penoxalin	see Pendimethalin			
Pentachloroaniline	527-20-8	NEAT	P-875N	12
		AcCN	P-875S-CN	12
Pentachloroanisole	1825-21-4	NEAT	P-199N	12
		MeOH	P-199S	12
Pentachloronitrobenzene	82-68-8	NEAT	P-113N	12
		MeOH	P-113S	12
Permethrin (cis/trans)	52645-53-1	NEAT	P-128N	12
		MeOH	P-128S	12
Perthane	72-56-0	NEAT	P-162N	12
		MeOH	P-162S	12
Peropal	see Azocyclotin			
Pestox III	see Schradan			
Phenacide	see Toxaphene			
Phenamiphos	see Fenamiphos			
Phenmedipham	13684-63-4	NEAT	P-392N	12
		MeOH	P-392S	12
Phenothiazine	92-84-2	NEAT	P-579N	22
		MeOH	P-579S	22
Phenothrin	see Sumithrin			
Phenthoate	2597-03-7	NEAT	P-476N	32
		MeOH	P-476S	32
Phenyl mercury acetate	62-38-4	NEAT	P-393N	12
		MeOH	P-393S	12
o-Phenylphenol	90-43-7	NEAT	P-460N	12
		MeOH	P-460S	12
Phenyl valerate	20115-23-5	NEAT	P-734N	22
		MeOH	P-734S	22
Phorate	298-02-2	NEAT	P-170N *	$ 12
		MeOH	P-170S	12
Phorate-oxon NEW	2600-69-3	10 µg/mL Toluene	P-1018S-T-0.1X	22
Phorate sulfone	2588-04-7	Hexane	P-655S-H	32
Phorate sulfoxide	2588-03-6	NEAT	P-732N	42
		MeOH	P-732S	42
Phosalone	2310-17-0	NEAT	P-163N	12
		MeOH	P-163S	12
Phosdrin	see Mevinphos			
Phosethoprop	see Ethoprop			
Phosfolan	947-02-4	NEAT	P-234N	12
		MeOH	P-234S	12
Phosmet	see Imidan			
Phosmet oxon	3735-33-9	Toluene	P-733S-T	52
Phosphamidon	13171-21-6	NEAT	P-075N	22
		MeOH	P-075S	22
Phosphothion	see Malathion			
Phosvel	see Leptophos			
Phoxim	14816-18-3	NEAT	P-357N	12
		MeOH	P-357S	12
Phthalide	see 1-Isobenzofuranone			
Phthalthrin	see Tetramethrin			
Picloram	1918-02-1	NEAT	P-047N	32
		MeOH	P-047S	32
Picloram methyl ester	14143-55-6	NEAT	P-198N	22
		MeOH	P-198S	22
4-Picoline	see 4-Aminopyridine			
Picoxystrobin	117428-22-5	NEAT	P-860N	102
		AcCN	P-860S-CN	102
Pindone	83-26-1	NEAT	P-394N	12
		MeOH	P-394S	12
Piperalin	3478-94-2	NEAT	P-663N	24
		MeOH	P-663S	24
Piperonyl butoxide	51-03-6	NEAT	P-348N	22
		MeOH	P-348S	22
Piperophos	24151-93-7	NEAT	P-656N	32
Pirimicarb	23103-98-2	NEAT	P-304N	12
		MeOH	P-304S	12
Pirimiphos-ethyl	23505-41-1	NEAT	P-328N	12
		MeOH	P-328S	12
Pirimiphos-methyl	29232-93-7	NEAT	P-305N	32
		MeOH	P-305S	32
Pirimor	see Pirimicarb			
Pival	see Pindone			
PMA	see Phenyl mercury acetate			
Polytrin	see Cypermethrin			
Potassium dimethyl dithiocarbamate	128-03-0	AcCN	P-714S-CN ❄	52
Potassium n-hydroxymethyl-n-methyl dithiocarbamate	51026-28-9	AcCN	P-715S-CN ❄	52
Prallethrin	23031-36-9	MeOH	P-667S	52
Pramitol	see Prometon			
Prebane	886-50-0	NEAT	P-119N	12
		MeOH	P-119S	12
Preeglone	see Paraquat CL			
Prefar	see Bensulide			
Premerg	see Trichlorfon			
Pretilachlor	51218-49-6	NEAT	P-485N	22
		MeOH	P-485S	22
Primatol P	see Propazine			
Primatol Q	see Prometryne			
Primatol S	see Simazine			
Primaze	see Prometryne			
Primicid	see Pirimphos-ethyl			
Primisulfuron-methyl	86209-51-0	NEAT	P-833N	12
		AcCN	P-833S-CN	12
Princep	see Simazine			
Probenazole	27605-76-1	NEAT	P-710N	22
		Acetone	P-710S-A	22
Prochloraz	67747-09-5	NEAT	P-549N	32
		MeOH	P-549S	32
Procymidone	32809-16-8	NEAT	P-430N	22
		MeOH	P-430S	22

* V-Rated packaging surcharge applies for international shipments

◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.



Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Prodiamine	29091-21-2	NEAT	P-739N	$ 22
		MeOH	P-739S	22
Profenofos	41198-08-7	NEAT	P-260N	12
		MeOH	P-260S	12
Profluoralin	26399-36-0	NEAT	P-099N	12
		MeOH	P-099S	12
Prolate	see Imidan			
Promecarb	2631-37-0	NEAT	P-265N	22
		MeOH	P-265S	22
Prometon	1610-18-0	NEAT	P-077N	12
		MeOH	P-077S	12
Prometryne	7287-19-6	NEAT	P-078N	12
		MeOH	P-078S	12
Pronamide	23950-58-5	NEAT	P-164N	12
		MeOH	P-164S	12
Propachlor	1918-16-7	NEAT	P-215N	12
		MeOH	P-215S	12
Propamocarb	24579-73-5	NEAT	P-312N	12
		MeOH	P-312S	12
Propanil	709-98-8	NEAT	P-049N	12
		MeOH	P-049S	12
Propaquizafop NEW	111479-05-1	NEAT	P-908N	22
		MeOH	P-908S	22
Propargite	2312-35-8	NEAT	P-251N	12
		MeOH	P-251S	12
Propazine	139-40-2	NEAT	P-079N	12
		MeOH	P-079S	12
Propetamphos	31218-83-4	NEAT	P-417N	22
		MeOH	P-417S	22
Propham	122-42-9	NEAT	P-052N	12
		MeOH	P-052S	12
Prophos	see Ethoprop			
Propiconazole	see Tilt			
Propineb	12071-83-9	NEAT	P-608N	22
Propoxur	see Baygon			
Propoxycarbazone-sodium NEW	181274-15-7	NEAT	P-1014N	42
	50 µg/mL in	Water	P-1014S-W-0.5X	32
Propylenethiourea (PTU)	2055-46-1	NEAT	P-861N	12
		AcCN	P-861S-CN	12
Propyzamide	see Pronamide			
Prosulfocarb	52888-80-9	NEAT	P-742N	52
		MeOH	P-742S	52
Prosulfuron	94125-34-5	NEAT	P-834N	12
		AcCN	P-834S-CN	12
Protector 3L	see Busan			
Protex	see Rotenone			
Prothiophos	see Tokuthion			
Prowl	see Pendimethalin			
Pursuit	see Imazethapyr			
Pymetrozin	123312-89-0	NEAT	P-835N	22
		AcCN	P-835S-CN	22
Pynamin	see Allethrin			
Pyraclofos	77458-01-6	MeOH	P-716S	62
Pyraclostrobin	175013-18-0	NEAT	P-863N	22
		AcCN	P-863S-CN	22
Pyraflufen-ethyl	129630-19-9	NEAT	P-1015N	42
		Acetone	P-1015S-A	32
Pyrazon	1698-60-8	NEAT	P-395N	22
		MeOH	P-395S	22
Pyrazophos	13457-18-6	NEAT	P-359N	22
		MeOH	P-359S	22
Pyrazoxyfen	71561-11-0	NEAT	P-618N	22
		MeOH	P-618S	22
Pyrethrins	8003-34-7	NEAT	P-187N	42
		MeOH	P-187S	42
Pyrethrum	see Pyrethrins			
Pyributicarb NEW	88678-67-5	MeOH	P-987S	72
Pyridaben	96489-71-3	NEAT	P-693N	22
		MeOH	P-693S	22
Pyridalyl NEW	179101-81-6	NEAT	P-990N	42
		MeOH	P-990S	42
Pyridaphenthion	119-12-0	MeOH	P-610S	$ 32
Pyridate	55512-33-9	NEAT	P-404N	12
		MeOH	P-404S	12
Pyrimethanil	53112-28-0	NEAT	P-723N	32
		MeOH	P-723S	32
Pyrimidifen NEW	105779-78-0	MeOH	P-989S	72
Pyriminil	see Vacor			
(E)-Pyriminobac-methyl NEW	136191-64-5	5 mg	P-1030N-5MG	52
	50 µg/mL	MeOH	P-1030S-0.5X	52
Pyriphenox	88283-41-4	MeOH	P-668S	32
Pyriproxyfen	95737-68-1	NEAT	P-795N	32
		AcCN	P-795S-CN	32
Pyron	see Pyridate			
Pyroquilon	57369-32-1	NEAT	P-696N	22
		MeOH	P-696S	22
Queletox	see Fenthion			
Quinalphos	13593-03-8	NEAT	P-462N	22
		MeOH	P-462S	22
Quinclorac ◗	84087-01-4	NEAT	P-692N	22
		MeOH	P-692S	22
		AcCN	P-692S-CN	22
Quinmerac	90717-03-6	NEAT	P-836N	12
		AcCN	P-836S-CN	12
Quinoclamine NEW	2797-51-5	NEAT	P-985N	42
		MeOH	P-985S	32
Quinoxyfen NEW	124495-18-7	5 mg	P-882N-5MG	52
		MeOH	P-882S	52
Quintozene	see Pentachloronitrobenzene			
Quizalofop ethyl	76578-14-8	NEAT	P-293N	22
		AcCN	P-293S-CN	22
Racumin	see Coumatetralyl			
Radapon	see Dalapon acid			
Ramrod	see Propachlor			
Reglone	see Diquat dibromide			
Resmethrin	10453-86-8	NEAT	P-325N	22
		MeOH	P-325S	22
Rezifilm	see Thiram			
Rimsulfuron	122931-48-0	NEAT	P-837N	32
		AcCN	P-837S-CN ❄	32
Rogor	see Dimethoate			
Rogue	see Propanil			
Ronilan	see Vinclozolin			
Ronnel	299-84-3	NEAT	P-080N	12
		MeOH	P-080S	12
Ronstar	see Oxadiazon			
Rospin	see Chloropropylate			
Rotenone	83-79-4	NEAT	P-056N	12
		MeOH	P-056S ❄	12
Roundup	see Glyphosate			
Rovral	see Iprodione			
Roxion	see Dimethoate			
Rubigan	see Bloc			
Ruelene	see Crufomate			
S421	127-90-2	NEAT	P-749N	32
		MeOH	P-749S	32
SADH	see Alar			
Safrotin	see Propetamphos			
Sancap	see Dipropetryn			
Sanmarton	see Fenvalerate			
Scepter	see Imazaquin			
Schradan	152-16-9	NEAT	P-418N	12
		MeOH	P-418S	12
Sebuthylazine	7286-69-3	NEAT	P-432N	22
		MeOH	P-432S	22
Secbumeton	26259-45-0	NEAT	P-165N	22
		MeOH	P-165S	22
Select	see Clethodim			
Sencor	see Metribuzin			
Sethoxydim	74051-80-2	NEAT	P-306N	72
		AcCN	P-306S-CN ❄	22
Sevin	see Carbaryl			

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Can't find a Pesticide? Search using CAS No. Index in back of the catalog.

Pesticides

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Siduron	1982-49-6	NEAT	P-063N	$ 12
		MeOH	P-063S	12
Silafluofen	105024-66-6	NEAT	P-717N	32
		MeOH	P-717S	32
Silmurix	see Schradan			
Silvex ◗	93-72-1	NEAT	P-084N	12
		MeOH	P-084S	12
		AcCN	P-084S-CN	12
Silvex 2-ethylhexyl ester	53404-76-5	NEAT	P-728N	22
		MeOH	P-728S	22
Silvex methyl ester	4841-20-7	NEAT	P-115N	12
		MeOH	P-115S	12
Simazine	122-34-9	NEAT	P-085N	12
		MeOH	P-085S	12
Simeton	673-04-1	NEAT	P-501N	32
		MeOH	P-501S	32
Simetryn	1014-70-6	NEAT	P-166N	22
		MeOH	P-166S	22
Sinbar	see Terbacil			
Siperin	see Cypermethrin			
Sipscasan	see Thiophanate-methyl			
Sodium diethyldithiocarbamate trihydrate	20624-25-3	NEAT	P-505N	12
		H_2O	P-505S-W	12
Solfac	see Cyfluthrin			
Sonalan	see Ethalfluralin			
Sonar	see Fluridone			
Spike	see Tebuthiuron			
Spirodiclofen NEW	148477-71-8	NEAT	P-938N	22
		MeOH	P-938S	22
Spiromesifen NEW	283594-90-1	AcCN	P-960S-CN	52
Spinosad	168316-95-8	NEAT	P-864N	62
		AcCN	P-864S-CN	62
Spiroxamine	118134-30-8	NEAT	P-869N	12
		AcCN	P-869S-CN	12
Stam F-34	see Propanil			
Stirofos	see Tetrachlorvinphos			
Stomp	see Pendimethalin			
Strobane	8001-50-1	NEAT	P-339N	52
		MeOH	P-339S	52
Suffix	see Benzoylprop ethyl			
Sulcontrione NEW	99105-77-8	NEAT	P-951N	42
		MeOH	P-951S	42
Sulfallate	95-06-7	NEAT	P-327N	22
		MeOH	P-327S	22
Sulfometuron methyl ester	74222-97-2	NEAT	P-336N	22
		MeOH	P-336S	22
Sulfaquinoxaline	59-40-5	MeOH	P-681S	32
Sulfosulfuron	141776-32-1	10 µg/mL AcCN	P-865S-CN-0.1X	22
Sulfotep	3689-24-5	NEAT	P-167N	22
		MeOH	P-167S	22
Sulfox-cide	see Sulfoxide			
Sulfoxide	120-62-7	NEAT	P-396N	12
		MeOH	P-396S	12
Sulfoxyl	see Sulfoxide			
Sulprofos	see Bolstar			
Sumicidin	see Fenvalerate			
Sumifly	see Fenvalerate			
Sumipower	see Fenvalerate			
Sumithrin	26002-80-2	NEAT	P-050N	32
		MeOH	P-050S	32
Sumitol	see Secbumeton			
Summit	see Triadimenol			
Super X	see Terrazole			
Supracide	see Methidathion			
Surcopur	see Propanil			
Surflan	see Oryzalin			
Sutan	see Butylate			
Swebate	see Abate			
Swep	1918-18-9	NEAT	P-061N	12
		MeOH	P-061S	12
Systhane	see Myclobutanil			
Systox	see Demeton			

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
2,4,5-T acid ◗	93-76-5	NEAT	P-168N	$ 12
		MeOH	P-168S	12
		AcCN	P-168S-CN	12
2,4,5-T butoxyethyl ester	2545-59-7	NEAT	P-441N	12
		AcCN	P-441S-CN	12
2,4,5-T n-butyl ester	93-79-8	NEAT	P-440N	12
		AcCN	P-440S-CN	12
2,4,5-T methyl ester	1928-37-6	NEAT	P-067N	12
		MeOH	P-067S	12
2,4,6-T ◗	575-89-3	NEAT	P-523N	12
		MeOH	P-523S	12
		AcCN	P-523S-CN	12
Talstar	see Bifenthrin			
Tame	see Danitol			
Tamaron	see Monitor			
Tamogan	see Bromadiolone			
Target	see MSMA			
TCA	see Trichloroacetic acid			
TCMTB	see Busan			
TCNB	see Tecnazene			
Tebuconazol	107534-96-3	NEAT	P-451N	42
		MeOH	P-451S	42
Tebufenozide	112410-23-8	NEAT	P-726N	72
		MeOH	P-726S	72
Tebupirimfos	96182-53-5	NEAT	P-727N	32
		MeOH	P-727S	32
Tebutam	35256-85-0	MeOH	P-879S	32
Tebuthiuron	34014-18-1	NEAT	P-188N	12
		MeOH	P-188S	12
Tecto	see Thiabendazole			
Tecnazene	see 2,3,5,6-Tetrachloronitrobenzene			
Tedion	see Tetradifon			
Teflubenzuron	83121-18-0	NEAT	P-452N	22
		MeOH	P-452S	22
Tefluthrin	79538-32-2	MeOH	P-568S ❄	52
Telodrin	see Isobenzan			
Temephos	see Abate			
Temik	see Aldicarb			
Temus	see Bromadiolone			
Tenoran	see Chloroxuron			
TEPP	107-49-3	NEAT	P-207N	12
Terbacil	5902-51-2	NEAT	P-096N	12
		MeOH	P-096S	12
Tebufenpyrad NEW	119168-77-3	NEAT	P-877N	32
		MeOH	P-877S	32
Terbufos	13071-79-9	NEAT	P-208N	12
		MeOH	P-208S	12
Terbufos sulfone	56070-16-7	MeOH	P-729S	42
Terbufos sulfoxide	10548-10-4	NEAT	P-730N	42
		MeOH	P-730S	42
Terbumeton	33693-04-8	NEAT	P-504N	22
		MeOH	P-504S	22
Terbuthylazine	5915-41-3	NEAT	P-169N	32
		MeOH	P-169S	32
Terbuthylazine desethyl	30125-63-4	NEAT	P-613N	22
		MeOH	P-613S	22
Terbutol	1918-11-2	NEAT	P-464N	12
		MeOH	P-464S	12
Terbutryn	see Prebane			
Terpene polychlorinates	see Strobane			
Terraclor	see Pentachloronitrobenzene			
Terracur P	see Dasanit			
Terrazole	2593-15-9	NEAT	P-190N	12
		MeOH	P-190S	12
Terre-Sytam	see Dimefox			
Tersan	see Thiram			
Tersan SP	see Chloroneb			
1,2,3,4-Tetrachlorobenzene NEW	634-66-2	NEAT	P-999N	12
		MeOH	P-999S	12
1,2,3,5-Tetrachlorobenzene NEW	634-90-2	NEAT	P-1001N	12
		Isooctane	P-1001S-TP	12
1,2,4,5-Tetrachlorobenzene NEW	95-94-3	NEAT	P-1003N	12
		MeOH	P-1003S	12

◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
1,2,3,4-Tetrachloro-5-nitrobenzene	879-39-0	NEAT	P-1000N	$ 22
	NEW	MeOH	P-1000S	22
2,3,5,6-Tetrachloronitrobenzene	117-18-0	NEAT	P-467N	12
		MeOH	P-467S	12
Tetrachlorvinphos	961-11-5	NEAT	P-125N	12
		MeOH	P-125S	12
Tetraconazole	112281-77-3	NEAT	P-721N	62
		MeOH	P-721S	62
Tetradifon	116-29-0	NEAT	P-261N	12
		MeOH	P-261S	12
cis-d4-Tetrahydrophthalimide	1469-48-3	MeOH	P-116S	22
1,2,3,6-Tetrahydrophthalimide	85-40-5	NEAT	P-621N	22
		MeOH	P-621S	22
Tetramethrin	7696-12-0	NEAT	P-406N	22
		MeOH	P-406S	22
Tetrasul	2227-13-6	NEAT	P-552N	22
		MeOH	P-552S	22
Tetron	see TEPP			
Thiabendazole	148-79-8	NEAT	P-068N	12
		MeOH	P-068S	12
Thiacloprid	111988-49-9	NEAT	P-838N	42
		AcCN	P-838S-CN	42
Thiamethoxam	153719-23-4	NEAT	P-866N	42
		AcCN	P-866S-CN	42
Thidiazuron	51707-55-2	NEAT	P-369N	12
		MeOH	P-369S	12
Thifensulfuron methyl	79277-27-3	NEAT	P-468N	22
		MeOH	P-468S	22
Thimet	see Phorate			
Thiobencarb	28249-77-6	NEAT	P-180N	12
		MeOH	P-180S	12
Thiocyclam hydrogen oxalate	31895-22-4	MeOH	P-688S	32
Thiodan I	see Endosulfan I			
Thiodan II	see Endosulfan II			
Thiodicarb	59669-26-0	NEAT	P-477N	32
		MeOH	P-477S	32
4,4'-Thiodiphenol	2664-63-3	NEAT	P-117N	12
		MeOH	P-117S	12
Thiofanox	39196-18-4	NEAT	P-266N	22
		MeOH	P-266S	22
Thiofanox sulfone		AcCN	P-839S-CN-0.1X	12
Thiofanox sulfoxide	39184-27-5	NEAT	P-702N	32
		MeOH	P-702S	32
Thiometon	640-15-3	NEAT	P-486N	32
		MeOH	P-486S	32
Thionazin	297-97-2	MeOH	P-171S	42
Thiophanate ◗	23564-06-9	NEAT	P-321N	12
		MeOH	P-321S	12
		AcCN	P-321S-CN	12
Thiophanate-methyl	23564-05-8	NEAT	P-349N	12
		MeOH	P-349S	12
Thiophos	see Parathion			
Thiram	137-26-8	NEAT	P-118N	12
		MeOH	P-118S	12
Tiguvon	see Fenthion			
Tillam	1114-71-2	NEAT	P-105N	12
		MeOH	P-105S	12
Tilt	60207-90-1	NEAT	P-280N	42
		MeOH	P-280S	42
Tomadorane	see 4-CPA			
Tobaz	see Thiabendazole			
Tokuthion	34643-46-4	NEAT	P-126N	32
		MeOH	P-126S	32
Tolban	see Profluralin			
Tolclofos-methyl	57018-04-9	NEAT	P-557N	22
		MeOH	P-557S	22
Tolylfluanide	731-27-1	NEAT	P-553N	22
		MeOH	P-553S ❄	22
Torak	see Dialifos			
Tordon	see Picloram			
Toxaphene	8001-35-2	NEAT	P-093N	12
		MeOH	P-093S	12
2,4,5-TP	see Silvex			
2,4,5-TP methyl ester	see Silvex methyl ester			
Tralkoxydim	87820-88-0	NEAT	P-405N	$ 12
		MeOH	P-405S	12
Tralomethrin	66841-25-6	NEAT	P-478N	42
		MeOH	P-478S	42
Transfluthrin	118712-89-3	NEAT	P-743N	32
		MeOH	P-743S	32
Treflan	see Trifluralin			
Triadimefon	43121-43-3	NEAT	P-069N	12
		MeOH	P-069S	12
Triadimenol	55219-65-3	NEAT	P-361N	12
		MeOH	P-361S	12
Triallate	2303-17-5	NEAT	P-268N	12
		MeOH	P-268S	12
Triasulfuron	82097-50-5	NEAT	P-592N	62
		MeOH	P-592S	62
1,2,4-Triazole	288-88-0	NEAT	P-627N	22
		MeOH	P-627S	22
Triazophos	24017-47-8	NEAT	P-334N	12
		MeOH	P-334S	12
Tribenuron-methyl	101200-48-0	NEAT	P-666N	32
		MeOH	P-666S	32
Tribufos	see DEF			
Tributylphosphorotrithioite	see Merphos			
bis(Tributyltin)oxide	56-35-9	NEAT	P-455N	12
		MeOH	P-455S	12
Trichlorfon	52-68-6	NEAT	P-044N	12
		MeOH	P-044S	12
Trichloroacetic acid	76-03-9	NEAT	P-459N	12
		MeOH	P-459S	12
		AcCN	P-459S-CN	12
1,2,3-Trichlorobenzene **NEW**	87-61-6	NEAT	P-1002N	12
		Isooctane	P-1002S-TP	12
1,2,4-Trichlorobenzene **NEW**	120-82-1	NEAT	P-1004N	12
		MeOH	P-1004S	12
2,3,5-Trichlorobenzoic acid	50-73-7	NEAT	P-508N	12
		MeOH	P-508S	12
Trichloronate	327-98-0	NEAT	P-127N	22
		MeOH	P-127S	22
2,4,6-Trichlorophenol **NEW**	88-06-2	NEAT	P-1006N	12
		MeOH	P-1006S	12
3,5,6-Trichloro-2-pyridinol	6515-38-4	NEAT	P-626N	52
		MeOH	P-626S	52
Trichloropyrphos	see Dursban			
Triclopyr ◗	55335-06-3	NEAT	P-289N	12
		MeOH	P-289S	12
		AcCN	P-289S-CN	12
Triclopyr-2-butoxy ethyl ester	64700-56-7	NEAT	P-703N	22
		AcCN	P-703S-CN	22
Triclopyr methyl ester		MeOH	P-291S	22
Tricresyl phosphate	1330-78-5	NEAT	P-209N	12
		MeOH	P-209S	12
Tricyclazole	41814-78-2	NEAT	P-090N	22
		MeOH	P-090S	22
Tridemorph	24602-86-6	NEAT	P-307N	32
		MeOH	P-307S	32
Trietazine	1912-26-1	NEAT	P-492N	42
		MeOH	P-492S	42
Triethylphosphate	78-40-0	NEAT	P-335N	12
		MeOH	P-335S	12
o,o,o-Triethylphosphorothioate	126-68-1	NEAT	P-172N	12
		MeOH	P-172S	12
Trifene	see Fenatrol			
Trifenmorph	1420-06-0	NEAT	P-300N	22
		MeOH	P-300S	22
Trifloxystrobin	141517-21-7	NEAT	P-867N	42
		AcCN	P-867S-CN	42
Triflumizole	68694-11-1	AcCN	P-479S-CN	42
Triflumuron	64628-44-0	NEAT	P-689N	42
		MeOH	P-689S	42
Trifluralin	1582-09-8	NEAT	P-197N	12
		MeOH	P-197S	12

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Most Pesticides are available in 1000 µg/mL (add -10X). Call or visit website for pricing.

Pesticides

Neats at 10 mg. Solutions at 100 µg/mL in 1 mL, except as noted.

Pesticide Standards

Compound	Synonym / CAS No.	Matrix	Cat. No.	Price
Triflusulfuron-methyl	126535-15-7	NEAT	P-840N	$ 22
		AcCN	P-840S-CN	22
Triforine	26644-46-2	NEAT	P-308N	32
		MeOH	P-308S	32
2,3,5-Triiodobenzoic acid ◗	88-82-4	NEAT	P-507N	12
		MeOH	P-507S	12
		AcCN	P-507S-CN	12
2,3,5-Trimethacarb	2655-15-4	NEAT	P-515N	52
		MeOH	P-515S	52
3,4,5-Trimethacarb	2686-99-9	NEAT	P-516N	52
		MeOH	P-516S	52
Trimethyl phosphate	512-56-1	NEAT	P-210N	12
		MeOH	P-210S	12
Trimethylsulfonium iodide NEW	2181-42-2	NEAT	P-1016N	12
		MeOH	P-1016S	12
Trimidal	63284-71-9	NEAT	P-422N	12
		MeOH	P-422S	12
Trinexapac-ethyl NEW	95266-40-3	NEAT	P-1034N	42
		MeOH	P-1034S	42
Triphenylphosphate	115-86-6	NEAT	P-192N	12
		MeOH	P-192S	12
Triphenyltin chloride	639-58-7	NEAT	P-526N	12
		MeOH	P-526S	12
Trithion	see Carbophenothion			
Triticonazole	131983-72-7	10 µg/mL Isooctane	P-868S-TP-0.1X	22
Trucidor	see Vamidithion			
Tugon	see Trichlorfon			
Tupersan	see Siduron			
Unden	see Baygon			
Urab	see Fenuron-TCA			
Urox	see Monuron TCA			
Ustilan	see Ethidimuron			
Vacor	53558-25-1	NEAT	P-240N	$ 12
		MeOH	P-240S	12
Vamidothion	2275-23-2	NEAT	P-350N	62
		MeOH	P-350S	62
Vamidoate	see Vamidothion			
Vancide 89	see Captan			
Vandyke 264	see MGK 264			
Vanicide-20S		NEAT	P-073N	12
		MeOH	P-073S	12
Vapona	see Dichlorvos			
Vapotone	see TEPP			
Vegadex	see Sulfallate			
Velpar	see Hexazinone			
Vernam	see Vernolate			
Vernolate	1929-77-7	NEAT	P-111N	12
		MeOH	P-111S	12
Vinclozolin	50471-44-8	NEAT	P-122N	12
		MeOH	P-122S	12
Warbex	see Famphur			
Warfarin	81-81-2	NEAT	P-076N	12
		MeOH	P-076S	12
Waylay	see Napropamide			
Weedol	see Paraquat CL			
Weedone	see 2,4,5-T acid			
Zectran	see Mexacarbate			
Zerlate	see Ziram			
Zinc Phosphide	1314-84-7	NEAT	P-527N	12
Zineb	12122-67-7	NEAT	P-098N	12
Zinophos	see Thionazin			
Ziram	137-30-4	NEAT	P-324N	12
		MeOH	P-324S	12
Zolone	see Phosalone			

Most at Same Low Price in Neat (10 mg) or Solution (100 µg/mL) form

Can't find a Pesticide? Search using CAS No. Index in back of the catalog.

◗ Pesticides containing a carboxyl group may autoesterify in Methanol. These standards are intended for use as a post-esterification standard for GC analysis. For other types of analysis (ex. HPLC) we suggest a non-hydroxylic solvent such as Acetonitrile.

For Pesticide Kits and Mixtures

See end of Pesticide section

Pesticides
Triazines & Metabolites

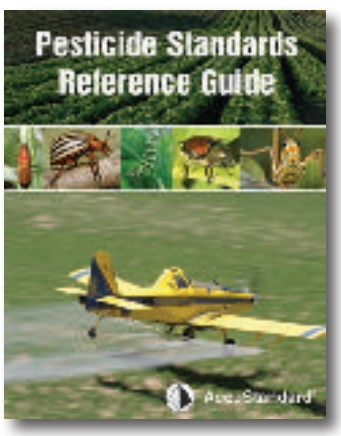
Neats at 10 mg. Solutions at 100 µg/mL in MeOH, except -MC (in Methyl cellosolve)

Triazines and Metabolites

Compound	CAS No.	Neat Cat. No.	Price / 10 mg	Solution Cat. No.	Price / 1 mL
2,4-bis(Ethylamino)-6-diethylamino-s-triazine		P-536N	$ 22	P-536S-MC	$ 22
2-Chloro-4-ethylamino-6-propylamino-s-triazine	90952-64-0	P-537N	22	P-537S-MC	22
2,4-Dichloro-6-ethylamino-s-triazine		P-538N	52	P-538S-MC	52
2-Chloro-4-ethylamino-6-methylethylamino-s-triazine		P-539N	22	P-539S-MC	22
2-Chloro-4-methylamino-6-sec-butylamino-s-triazine		P-540N	22	P-540S-MC	22
2-Chloro-4-methylamino-6-diethylamino-s-triazine		P-541N	22	P-541S-MC	22
3-(2,3-Dichlorophenyl)-1,1-dimethylurea	10290-37-6	P-632N	22	P-632S	22
Atrazine-desethyl-2-hydroxy (4-Amino-2-hydroxy-6-isopropylamino-s-triazine)	19988-24-0	----------	----	P-544S-MC	52
Desethyl atrazine	6190-65-4	P-343N	22	P-343S	22
Atrazine-desisopropyl	1007-28-9	P-345N	22	P-345S	22
Atrazine-desisopropyl-2-hydroxy	7313-54-4	P-344N	22	P-344S-MC	22
Atrazine	1912-24-9	P-005N	12	P-005S	12
Ametryn	834-12-8	P-003N	12	P-003S	12
Cyanazine	21725-46-2	P-175N	12	P-175S	12
Gesatamine	1610-17-9	P-189N	22	P-189S	22
2-Hydroxyatrazine	2163-68-0	P-326N	22	P-326S-MC	52
Imazethapyr	81335-77-5	----------	----	P-285S	22
2-Isopropylamino-4,6-dichloro-s-triazine		P-635N	22	P-635S	22
2-Monuron		P-633N	22	P-633S	22
Prometryne	7287-19-6	P-078N	12	P-078S	12
Propazine	139-40-2	P-079N	12	P-079S	12
Prometon	1610-18-0	P-077N	12	P-077S	12
Sebuthylazin	7286-69-3	P-432N	22	P-432S	22
Simazine	122-34-9	P-085N	12	P-085S	12
Terbuthylazine	5915-41-3	P-169N	32	P-169S	32

Custom Synthesis

If other Triazine compounds are required, contact our Technical Service Department.



Includes formulations for over 50 EPA and international pesticide methods.

Request or download your Pesticide Standards Reference Guide at AccuStandard.com

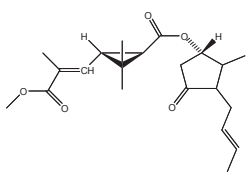
Pesticide Standards Reference Guide

Lists over 800 pesticides and contains technical information such as: chemical name, structure, CAS number, molecular formula, molecular weight, physical state and for most: solubility, specific gravity, melting or boiling point, flash point and common synonyms.

Sample:

Pyrethrins

[(1S)-2-methyl-4-oxo-3-[(2E)-penta-2,4-dienyl] cyclopent-2-en-1-yl](1R,3R)-3-[(E)-3-methoxy-2-methyl-3-oxoprop-1-enyl]-2,2-dimethylcyclopropane-1-carboxylate



CAS 8003-34-7 **MF** N/A **MW** N/A **PS** L
SOL MeOH, IPA **SG** 0.85 g/cm^3 **MP** N/A
BP 170 - 200 °C **FP** 75 °C

Matrix	Cat. No.	Unit
Neat	P-187N	10 mg
100 µg/mL in MeOH	P-187S	1 mL

Property Key		Solubility Key (SOL)	
CAS	Chemical Abstract Service Number	**A**	Acetone
MF	Molecular Formula	**CN**	Acetonitrile (AcCN)
MW	Molecular Weight	**D**	Methlyene chloride
PS	Physical State (Solid, Liquid)	**DMSO**	Dimethyl sulfoxide
SOL	Solubility	**EA**	Ethyl acetate
SG	Specific Gravity (g/cm^3)	**H**	Hexane
MP	Melting Point (°C)	**IPA**	Isopropanol
BP	Boiling Point (°C)	**MeOH**	Methanol
FP	Flash Point (°C)	**MC**	Methyl cellosolve
		T	Toluene
		TP	Isooctane
		W	Water

Pesticides and Herbicides
Kits & Mixtures

Pesticide Kits and Mixtures

Neat Pesticide Kit
Z-004-SET * $ 250 / **set of 20 x 10 mg**

- Aldrin (01)
- α-BHC (02)
- β-BHC (03)
- δ-BHC (04)
- o,p'-DDD (05)
- p,p'-DDD (06)
- o,p'-DDE (07)
- p,p'-DDE (08)
- o,p'-DDT (09)
- p,p'-DDT (10)
- Dieldrin (11)
- Heptachlor (12)
- Heptachlor epoxide (Isomer B) (13)
- Lindane *(γ-BHC)* (14)
- Malathion (15)
- Methoxychlor (16)
- Mirex (17)
- Parathion (18)
- Carbaryl (19)
- Toxaphene (20)

Pesticide (Solid Waste) Kit
Z-017-SET $ 45 / **set of 6 x 10 mg**

- 2,4-Dichlorophenoxyacetic acid *(2,4-D acid)*
- Endrin
- Lindane
- Methoxychlor
- Silvex
- Toxaphene

Pesticide Mixture for Evaluating GC Columns
M-100 $ 45 / **1 x 1 mL**
At stated conc. in Isooctane 13 comps.

Aldrin	(0.050 µg/mL)	p,p'-DDT	(0.260 µg/mL)
α-BHC	(0.025 µg/mL)	Dieldrin	(0.120 µg/mL)
β-BHC	(0.100 µg/mL)	Endrin	(0.200 µg/mL)
o,p'-DDD	(0.200 µg/mL)	Heptachlor	(0.025 µg/mL)
p,p'-DDD	(0.190 µg/mL)	Heptachlor epoxide (Isomer B)	(0.080 µg/mL)
p,p'-DDE	(0.100 µg/mL)		
o,p'-DDT	(0.225 µg/mL)	Lindane *(γ-BHC)*	(0.025 µg/mL)

Technical Note

Designed for evaluating the ability of a column to separate pesticides and their degradation products.

Pesticides in Solutions (Individual and Kits)

Compound (in Isooctane)	Conc.	Cat. No.	Price
Aldrin	200 ng/µL	P-002S-1	$ 12
	2 ng/µL	P-002S-2	12
Chlordane	200 ng/µL	P-017S-1	12
	2 ng/µL	P-017S-2	12
2,4-D methyl ester	200 ng/µL	P-021S-1	12
p,p'-DDE	200 ng/µL	P-027S-1	12
	2 ng/µL	P-027S-2	12
p,p'-DDT	200 ng/µL	P-029S-1	12
	2 ng/µL	P-029S-2	12
Dieldrin	200 ng/µL	P-037S-1	12
	2 ng/µL	P-037S-2	12
Endrin	200 ng/µL	P-045S-1	12
	2 ng/µL	P-045S-2	12
Heptachlor	200 ng/µL	P-053S-1	12
	2 ng/µL	P-053S-2	12
Lindane	200 ng/µL	P-059S-1	12
	2 ng/µL	P-059S-2	12
Methoxychlor	200 ng/µL	P-064S-1	12
	2 ng/µL	P-064S-2	12
Silvex methyl ester	200 ng/µL	P-115S-1	12
Toxaphene	200 ng/µL	P-093S-1	12

Set of above 21 pesticides (21 x 1 mL) Z-023-SET $ 150
At stated concentrations

Technical Note

Convenient concentrations in isooctane for use with different GC detectors. The concentrated solutions are suited for FID & TC detectors. The diluted solutions are suited for EC detectors.

* V-Rated packaging surcharge applies for international shipments

Herbicide Kit and Mixtures

Herbicide Kit
Z-031-SET $ 150 / **set of 15 x 1 mL**
0.1 mg/mL in MeOH Individual Standards

- Atrazine (01)
- Dicamba (02)
- Benfluralin (03)
- Bentazon (04) *
- Dacthal (05)
- Dichlobenil (06)
- Diuron (07)
- Metolachlor (08)
- Prometryn (09)
- Prometone (10)
- Propanil (11)
- Propazine (12)
- Simazine (13)
- Tebuthiuron (14)
- Trifluralin (15)

* *in Acetone*

Herbicide Mix #1
M-HERB-1 $ 30 / **1 x 1 mL**
0.1 mg/mL each in EtOAc 13 comps.

- Atrazine
- Bromacil
- Cycloate
- Eptam
- Isopropalin
- Hexazinone
- Molinate
- Oxyfluorfen
- Sencor
- Sutan
- Terbacil
- Tillam
- Trifluralin

Herbicide Mix #2
M-HERB-2 $ 30 / **1 x 1 mL**
0.1 mg/mL each in EtOAc 9 comps.

- Benfluralin
- Metolachlor
- Oxadiazon
- Propachlor
- Propazine
- Prowl
- Simazine
- Tolban
- Vernam

Phenylurea Pesticide Mixtures

Phenylurea Pesticide Mixture
PES-PU-001 $ 45 / **1 x 1 mL**
PES-PU-001-PAK ***SAVE 20%*** $ 180 / **5 x 1 mL**
200 µg/mL each in AcCN:Acetone 8 comps.

- Diflubenzuron
- Diuron
- Fluometuron
- Linuron
- Propanil
- Siduron
- Tebuthiuron
- Thidiazuron

Phenylurea Surrogate Mixture
PES-PU-SS $ 32 / **1 x 1 mL**
PES-PU-SS-PAK ***SAVE 20%*** $ 128 / **5 x 1 mL**
500 µg/mL each in MeOH:AcCN 2 comps.

- Carbazole
- Monuron

Volatile Organic Compounds (VOCs)

Volatile Organic Chemicals (VOCs) are generally classified as compounds that, under normal ambient conditions, can vaporize. This group includes aldehydes, ketones, as well as some light aromatic and straight chain hydrocarbons.

VOCs can enter the environment through many different routes. Many solvents, cleaners, paint thinners, dry cleaning solvents, and degreasers used both in industry and homes contain these compounds. Although not usually water soluble, if these compounds are released to the environment, they can still be found as contaminants in air, soil, as well as waste and drinking water.

EPA Volatile Methods:

502	Volatiles (PID/ELCD), Volatile Surrogates & ISTDs
503	VOC - Aromatics & Alkenes (PID/ELCD)
504	EDB & DBCP (ECD)
524	Volatiles (GC/MS)
551	Chlorinated Solvents, Trihalomethanes
556	Carbonyl Compounds (GC/ECD)
601	Purgeable Halocarbons (ELCD)
602	Purgeable Aromatics (PID)
603	Acrolein & Acrylonitrile (FID)
624	Purgeable Volatiles (GC/MS)
1666	PMI Volatiles (GC/MS)
8010	Halogenated Volatiles (ELCD)
8011	EDB & DBCP (GC/MS)
8015B	Non Halogenated Organics (GC/FID)
8020	Aromatic Volatiles (PID)
8021	Halogenated Volatiles PID/ELCD
8030	Acrolein & Acrylonitrile (GC/FID)
8031	Acrylonitrile (GC/NPD)
8032	Acrylamide (GC/ECD)
8033	Acetonitrile (NPD)

Neats are as stated, Solutions are 1 mL

VOCs

Compound	Conc.	Matrix	Cat. No.	Price
Acetonitrile 75-05-8	100 µg/mL	MeOH	APP-9-005	$ 12
	10 mg/mL	Water	M-8015B/5031-02	25
	1 mg/mL	Water	M-8033	12
	1 mg/mL	MeOH	APP-9-005-10X	12
	5 mg/mL	MeOH	APP-9-005-50X	25
	5 mg/mL	IPA	AS-E0473	32
Acrylamide 79-06-1	1 mg/mL	MeOH	M-8032	10
Acrylonitrile 107-13-1	100 µg/mL	MeOH	APP-9-008	12
	10 mg/mL	Water	M-8015B/5031-04	25
	1 mg/mL	MeOH	APP-9-008-10X	20
	10 mg/mL	MeOH	AS-E0003	32
Allyl chloride 107-05-1	100 µg/mL	MeOH	APP-9-010	12
	2 mg/mL	MeOH	APP-9-010-20X	20
	1 mg/mL	MeOH	AS-E0476	32
n-Amylbenzene 538-68-1	100 mg	NEAT	V-001	12
Azobenzene 103-33-3	2 mg/mL	CH_2Cl_2	Z-014B-1	20
Benzene 71-43-2	1 gram	NEAT	M-502-01N	20
	100 µg/mL	MeOH	APP-9-015	12
	1 mg/mL	MeOH	AS-E0004	32
	0.2 mg/mL	MeOH	M-502-01	10
	2 mg/mL	MeOH	M-502-01-10X	14
Benzene-d_6 1076-43-3	0.2 mg/mL	MeOH	M-624-SS-01	20
	2 mg/mL	MeOH	M-624-SS-01-10X	25
Benzyl chloride 100-44-7	0.2 mg/mL	MeOH	M-8010-01	10
	5 mg/mL	AcCN	AS-E0169	32
2-Bromo-1-chloropropane 3017-95-6	20 mg/mL	MeOH	M-001R-3	10
	0.2 mg/mL	MeOH	M-624-SS-04	10
1-Bromo-2-nitrobenzene 577-19-5	1 mg/mL	Acetone	M-8081-IS-DC	10
Bromobenzene 108-86-1	1 gram	NEAT	M-502-02N	20
	5 mg/mL	MeOH	AS-E0406	32
	0.2 mg/mL	MeOH	M-502-02	10
	2 mg/mL	MeOH	M-502-02-10X	14
Bromochloroacetonitrile 83463-62-1	1 mg/mL	Acetone	AS-E1186	32
	5 mg/mL	Acetone	M-551B-1	15
2-Bromochlorobenzene 694-80-4	0.2 mg/mL	MeOH	M-624-SS-12	10
4-Bromochlorobenzene 106-39-8	2 mg/mL	MeOH	M-8020-SS-1	20
Bromochloromethane 74-97-5	100 mg	NEAT	K-007N	12
	1 gram	NEAT	M-502-03N	20
	10 mg/mL	MeOH	AS-E0136	32
	0.2 mg/mL	MeOH	M-502-03	10
	2 mg/mL	MeOH	M-502-03-10X	14
p-Bromofluorobenzene 460-00-4	25 µg/mL	MeOH	CLP-004	10
	250 µg/mL	MeOH	CLP-004-10X	10
	0.15 mg/mL	MeOH	AS-E0233	32
	25 mg/mL	MeOH	CLP-004-1000X	20
	2.5 mg/mL	MeOH	CLP-004-100X	10
	2 mg/mL	MeOH	CLP-004-80X	10
	0.2 mg/mL	MeOH	M-624-SS-03	10
	2 mg/mL	MeOH	M-624-SS-03-10X	10
	100 µg/mL	Acetone	M-551.1-IS	10
	10 mg/mL	Acetone	M-551.1-IS-100X	20
Bromoform 75-25-2	1 gram	NEAT	M-502-05N	20
	0.2 mg/mL	MeOH	M-502-05	10
	2 mg/mL	MeOH	M-502-05-10X	14
Bromomethane 74-83-9	5 mg/mL	MeOH	AS-E0212	$ 32
	100 µg/mL	MeOH	APP-9-032	12
	0.2 mg/mL	MeOH	M-502-06	10
	2 mg/mL	MeOH	M-502-06-10X	14
Bromotrichloromethane 75-62-7	100 mg	NEAT	K-009N	12
1,3-Butadiene 106-99-0	0.2 mg/mL	MeOH	S-406A	10
	2 mg/mL	MeOH	S-406A-10X	20
n-Butylbenzene 104-51-8	100 mg	NEAT	V-002	12
	1 gram	NEAT	M-502-07N	20
	5 mg/mL	MeOH	AS-E1105	32
	0.2 mg/mL	MeOH	M-502-07	10
	2 mg/mL	MeOH	M-502-07-10X	14
iso-Butylbenzene 538-93-2	100 mg	NEAT	V-003	12
sec-Butylbenzene 135-98-8	100 mg	NEAT	V-004	12
	1 gram	NEAT	M-502-08N	40
	5 mg/mL	MeOH	AS-E1104	32
	0.2 mg/mL	MeOH	M-502-08	10
	2 mg/mL	MeOH	M-502-08-10X	14
tert-Butylbenzene 98-06-6	1 gram	NEAT	M-502-09N	20
	5 mg/mL	MeOH	AS-E1106	32
	0.2 mg/mL	MeOH	M-502-09	10
	2 mg/mL	MeOH	M-502-09-10X	14
Carbon disulfide 75-15-0	100 µg/mL	MeOH	APP-9-035	12
	2 mg/mL	MeOH	APP-9-035-20X	20
	5 mg/mL	MeOH	AS-E0363	32
Carbon tetrabromide 558-13-4	100 mg	NEAT	K-006N	12
Carbon tetrachloride 56-23-5	100 mg	NEAT	K-003N	12
	1 gram	NEAT	M-502-10N	20
	100 µg/mL	MeOH	APP-9-036	12
	5 mg/mL	MeOH	AS-E0360	32
	0.2 mg/mL	MeOH	M-502-10	10
	2 mg/mL	MeOH	M-502-10-10X	14
Chloral hydrate 302-17-0	1 mg/mL	MeOH	M-E-1179-M	40
	1 mg/mL	Acetone	AS-E1179	32
	5 mg/mL	Acetone	M-551B-2	15
1-Chloro-2-fluorobenzene 348-51-6	2 mg/mL	MeOH	S-163	10
1-Chloro-3-nitrobenzene 121-73-3	1 mg/mL	Acetone	M-8091-SS-100X	10
1-Chloro-4-fluorobenzene 352-33-0	0.2 mg/mL	MeOH	M-624-SS-13	10
Chlorobenzene 108-90-7	100 mg	NEAT	A-001	12
	1 gram	NEAT	M-502-11N	20
	100 µg/mL	MeOH	APP-9-039	12
	1 mg/mL	MeOH	AS-E0006	32
	0.2 mg/mL	MeOH	M-502-11	10
	2 mg/mL	MeOH	M-502-11-10X	14
Chlorobenzene-d_5 3114-55-4	5 mg/mL	MeOH	CLP-PI-3-5X	15
Chloroethane 75-00-3	100 µg/mL	MeOH	APP-9-042	12
	1 mg/mL	MeOH	AS-E0015	40
	0.2 mg/mL	MeOH	M-502-12	10
	2 mg/mL	MeOH	M-502-12-10X	14
bis(2-Chloroethoxy)methane 111-91-1	100 µg/mL	CH_2Cl_2	APP-9-026	20
	1 mg/mL	MeOH	APP-9-026-M-10X	20
	5 mg/mL	MeOH	AS-E0041	32
Chloroform 67-66-3	1 gram	NEAT	M-502-13N	20
	0.2 mg/mL	MeOH	M-502-13	10
	2 mg/mL	MeOH	M-502-13-10X	14

Volatile Organic Compounds (VOCs)

VOCs

Compound	Conc.	Matrix	Cat. No.	Price
1-Chlorohexane	0.2 mg/mL	MeOH	M-8010R-1-04	$ 15
544-10-5	2 mg/mL	MeOH	M-8010R-1-04-10X	20
Chloromethane	100 µg/mL	MeOH	APP-9-044	12
74-87-3	0.2 mg/mL	MeOH	M-502-14	10
	2 mg/mL	MeOH	M-502-14-10X	14
Chloroprene	100 µg/mL	MeOH	APP-9-048-R1	12
126-99-8	200 µg/mL	MeOH	APP-9-048-R1-2X	10
	1 mg/mL	MeOH	APP-9-048-R1-10X	20
	2.0 mg/mL	MeOH	APP-9-048-R1-20X	30
3-Chloropropionitrile	1 mg/mL	MeOH	AS-E0375	32
542-76-7				
2-Chlorotoluene	1 gram	NEAT	M-502-15N	20
95-49-8	0.2 mg/mL	MeOH	M-502-15	10
	2 mg/mL	MeOH	M-502-15-10X	14
	5 mg/mL	MeOH	AS-E0150	32
3-Chlorotoluene	5 mg/mL	MeOH	AS-E0151	32
108-41-8				
4-Chlorotoluene	1 gram	NEAT	M-502-16N	20
106-43-4	0.2 mg/mL	MeOH	M-502-16	10
	2 mg/mL	MeOH	M-502-16-10X	14
Cyclohexane	1 gram	NEAT	TK-102-08N	10
110-82-7	2 mg/mL	MeOH	TK-102-08S-10X	20
Decylbenzene	100 mg	NEAT	V-005	12
104-72-3				
Diallate	1 mg/mL	AcCN	AS-E0623	42
2303-16-4				
1,2-Dibromochloromethane	1 gram	NEAT	M-502-17N	40
124-48-1	0.2 mg/mL	MeOH	M-502-17	10
	2 mg/mL	MeOH	M-502-17-10X	14
1,2-Dibromo-3-chloropropane	1 gram	NEAT	M-502-18N	40
96-12-8	0.2 mg/mL	MeOH	M-502-18	10
	2 mg/mL	MeOH	M-502-18-10X	14
	5 mg/mL	MeOH	AS-E0993	32
Dibromoacetonitrile	5 mg/mL	Acetone	M-551B-4	15
3252-43-5				
1,2-Dibromoethane	1 gram	NEAT	M-502-19N **	20
106-93-4	100 µg/mL	MeOH	APP-9-214	12
	0.2 mg/mL	MeOH	M-502-19	10
	2 mg/mL	MeOH	M-502-19-10X	14
	5 mg/mL	MeOH	AS-E0171	32
Dibromofluoromethane	0.2 mg/mL	MeOH	M-8260-SS-2	20
1868-53-7	2 mg/mL	MeOH	M-8260-SS-2-10X	25
Dibromomethane	100 mg	NEAT	K-004N	12
74-95-3	1 gram	NEAT	M-502-20N	20
	100 µg/mL	MeOH	APP-9-062	12
	0.2 mg/mL	MeOH	M-502-20	10
	2 mg/mL	MeOH	M-502-20-10X	14
	5 mg/mL	MeOH	AS-E1097	32
a,a-Dibromo-m-xylene	1 mg/mL	Acetone	M-8081-IS-X	10
626-15-3				
1,2-Dibromopropane	5 mg/mL	MeOH	M-552-IS	15
78-75-1	10 mg/mL	Hexane	M-556-IS	30
1,2-Dibromo-1,1,2,2-tetrafluoroethane	1000 µg/mL	MeOH	AS-E0463	32
124-73-2				
2,3-Dichloro-1-propene	4.2 mg/mL	MeOH	AS-E0170	32
78-88-6				
trans-1,4-Dichloro-2-butene	100 µg/mL	MeOH	APP-9-068	12
110-57-6	2 mg/mL	MeOH	APP-9-068-20X	20
Dichloroacetonitrile	5 mg/mL	Acetone	M-551B-5	15
3018-12-0				
1,2-Dichlorobenzene	100 mg	NEAT	A-002	12
95-50-1	1 gram	NEAT	M-502-21N	20
	100 µg/mL	MeOH	APP-9-064	12
	0.2 mg/mL	MeOH	M-502-21	10
	2 mg/mL	MeOH	M-502-21-10X	14
	5 mg/mL	MeOH	AS-E0023	32
	2.0 mg/mL	Hexane	M-8120-02	25
1,2-Dichlorobenzene-d_4	0.15 mg/mL	MeOH	AS-E0776	32
2199-69-1	0.2 mg/mL	MeOH	M-624-SS-11	20
	2 mg/mL	MeOH	M-624-SS-11-10X	20
1,3-Dichlorobenzene	100 mg	NEAT	A-003	12
541-73-1	1 gram	NEAT	M-502-22N	20
	100 µg/mL	MeOH	APP-9-065	12
	0.2 mg/mL	MeOH	M-502-22	10
	1 mg/mL	MeOH	AS-E0214	32
	2 mg/mL	MeOH	M-502-22-10X	14
	2.0 mg/mL	Hexane	M-8120-03	25
1,4-Dichlorobenzene	100 mg	NEAT	A-004	$ 12
106-46-7	1 gram	NEAT	M-502-23N	20
	100 µg/mL	MeOH	APP-9-066	12
	0.2 mg/mL	MeOH	M-502-23	10
	2 mg/mL	MeOH	M-502-23-10X	14
	5 mg/mL	MeOH	AS-E0025	32
	0.2 mg/mL	Acetone	M-8151-IS-2	10
	2.0 mg/mL	Hexane	M-8120-04	25
1,4-Dichlorobenzene-d_4	2 mg/mL	MeOH	Z-014J-3-M-0.5X	20
3855-82-1	4 mg/mL	CH_2Cl_2	Z-014J-3	20
Dichlorobromomethane	100 mg	NEAT	M-502-04N	40
75-27-4	0.2 mg/mL	MeOH	M-502-04	10
	2 mg/mL	MeOH	M-502-04-10X	14
	5 mg/mL	MeOH	AS-E0046	32
1,4-Dichlorobutane	0.2 mg/mL	MeOH	M-624-SS-05	10
110-56-5	20 mg/mL	MeOH	M-001R-2	10
1,4-Dichlorobutane-d_8	0.15 mg/mL	MeOH	AS-E0196	50
83547-96-0				
Dichlorodifluoromethane	100 µg/mL	MeOH	APP-9-069	12
75-71-8	5000 µg/mL	MeOH	AS-E0346	40
	0.2 mg/mL	MeOH	M-502-24	10
	2 mg/mL	MeOH	M-502-24-10X	14
1,1-Dichloroethane	1 gram	NEAT	M-502-25N	20
75-34-3	100 µg/mL	MeOH	APP-9-070	12
	0.2 mg/mL	MeOH	M-502-25	10
	1 mg/mL	MeOH	AS-E0012	32
	2 mg/mL	MeOH	M-502-25-10X	14
1,2-Dichloroethane	1 gram	NEAT	M-502-26N	20
107-06-2	100 µg/mL	MeOH	APP-9-071	12
	1 mg/mL	MeOH	AS-E0009	32
	0.2 mg/mL	MeOH	M-502-26	10
	2 mg/mL	MeOH	M-502-26-10X	14
1,2-Dichloroethane-d_4	0.2 mg/mL	MeOH	M-624-SS-06	20
17060-07-0	2.0 mg/mL	MeOH	M-624-SS-06-10X	20
1,1-Dichloroethene	1 gram	NEAT	M-502-27N	20
75-35-4	100 µg/mL	MeOH	APP-9-072	12
	0.2 mg/mL	MeOH	M-502-27	10
	2 mg/mL	MeOH	M-502-27-10X	14
cis-1,2-Dichloroethene	1 gram	NEAT	M-502-28N	40
156-59-2	0.2 mg/mL	MeOH	M-502-28	10
	2 mg/mL	MeOH	M-502-28-10X	14
	10 mg/mL	MeOH	AS-E0173	32
trans-1,2-Dichloroethene	1 gram	NEAT	M-502-29N	40
156-60-5	100 µg/mL	MeOH	APP-9-073	12
	0.2 mg/mL	MeOH	M-502-29	10
	1 mg/mL	MeOH	AS-E0028	32
	2 mg/mL	MeOH	M-502-29-10X	14
Dichlorofluoromethane	0.2 mg/mL	MeOH	M-502-61	10
75-43-4	2 mg/mL	MeOH	M-502-61-10X	14
Dichloromethane	100 mg	NEAT	K-001N	12
75-09-2	1 gram	NEAT	M-502-39N	20
	100 µg/mL	MeOH	APP-9-074	12
	0.2 mg/mL	MeOH	M-502-39	10
	2 mg/mL	MeOH	M-502-39-10X	14
1,2-Dichloropropane	1 gram	NEAT	M-502-30N	20
78-87-5	100 µg/mL	MeOH	APP-9-077	12
	0.2 mg/mL	MeOH	M-502-30	10
	1 mg/mL	MeOH	AS-E0030	32
	2 mg/mL	MeOH	M-502-30-10X	14
1,3-Dichloropropane	1 gram	NEAT	M-502-31N	40
142-28-9	0.2 mg/mL	MeOH	M-502-31	10
	2 mg/mL	MeOH	M-502-31-10X	14
	5 mg/mL	MeOH	AS-E1109	32
2,2-Dichloropropane	1 gram	NEAT	M-502-32N	30
594-20-7	0.2 mg/mL	MeOH	M-502-32	10
	2 mg/mL	MeOH	M-502-32-10X	14
	5 mg/mL	MeOH	AS-E1167	32
1,3-Dichloropropene (cis/trans)	1 gram	NEAT	M-502-34N	20
542-75-6	0.2 mg/mL	MeOH	M-502-34	10
	0.4 mg/mL	MeOH	M-502-34-R	10
	4 mg/mL	MeOH	M-502-34-R-10X	15
1,1-Dichloropropene	0.2 mg/mL	MeOH	M-502-33	10
563-58-6	2 mg/mL	MeOH	M-502-33-10X	14
cis-1,3-Dichloropropene	100 µg/mL	MeOH	APP-9-078	12
10061-01-5				
trans-1,3-Dichloropropene	100 µg/mL	MeOH	APP-9-079	12
10061-02-6				

** This product can not ship by air.

Volatile Organic Compounds (VOCs)

Neats are as stated, Solutions are 1 mL

VOCs

Compound	Conc.	Matrix	Cat. No.	Price
1,3-Dichloropropylene(cis & trans)	5 mg/mL	MeOH	AS-E0218	$ 32
1,1-Dichloro-1-propylene 563-58-6	5 mg/mL	MeOH	AS-E1166	32
2,4-Dichlorotoluene 95-73-8	5 mg/mL	MeOH	AS-E0149	32
1,2:3,4-Diepoxybutane 1464-53-5	1 mg/mL	AcCN	AS-E0577	32
1,4-Diethylbenzene 105-05-5	100 mg	NEAT	V-008	12
	100 µg/mL	Isooctane	M-GRA-ST	10
m-Diethylbenzene 141-93-5	100 mg	NEAT	V-007	12
o-Diethylbenzene 135-01-3	100 mg	NEAT	V-006	12
1,4-Difluorobenzene 540-36-3	0.2 mg/mL	MeOH	M-624-SS-07	10
	2 mg/mL	MeOH	M-624-SS-07-10X	20
Dimethyl sulfate 77-78-1	1 mg/mL	AcCN	AS-E0389	32
1,3-Dimethyl-2-nitrobenzene 81-20-9	0.2 mg/mL	MtBE	M-507-SS	10
1,3-Dinitrobenzene 99-65-0	100 µg/mL	CH_2Cl_2	APP-9-089	20
	1 mg/mL	CH_2Cl_2	APP-9-089-10X	20
	5 mg/mL	MeOH	AS-E0527	32
2,5-Dinitrotoluene 619-15-8	100 µg/mL	AcCN	M-8095-SS-03	50
3,4-Dinitrotoluene 610-39-9	100 µg/mL	AcCN	M-8095-SS-01	15
Dodecylbenzene 123-01-3	100 mg	NEAT	V-009	12
Epichlorohydrin 106-89-8	5 mg/mL	AcCN	AS-E0258	32
1,2-Epoxybutane 106-88-7	5 mg/mL	AcCN	AS-E0286	32
1,2-Epoxypropane(Propylene oxide) 75-56-9	1 mg/mL	AcCN	AS-E0308	32
Ethyl acetate 141-78-6	10 mg/mL	Water	M-8015B/5031-12	25
Ethyl methacrylate 97-63-2	100 µg/mL	MeOH	APP-9-105	12
	1 mg/mL	MeOH	AS-E0687	32
Ethyl methanesulfonate 62-50-0	100 µg/mL	CH_2Cl_2	APP-9-106	20
	1 mg/mL	AcCN	AS-E0456	32
Ethylbenzene 100-41-4	1 gram	NEAT	M-502-35N	20
	100 µg/mL	MeOH	APP-9-104	12
	0.2 mg/mL	MeOH	M-502-35	10
	2 mg/mL	MeOH	M-502-35-10X	14
	10 mg/mL	MeOH	AS-E0036	32
Ethylbenzene-d_{10} 25837-05-2	0.2 mg/mL	MeOH	M-624-SS-08	20
Ethylene glycol 107-21-1	2 mg/mL	Water	D-4291-93	20
Ethylene oxide 75-21-8	0.2 mg/mL	Isooctane	S-354-2	10
	5 mg/mL	Water	M-8015B/5031-14-R1 ❄	20
m-Ethyltoluene 620-14-4	100 mg	NEAT	V-031	12
o-Ethyltoluene 611-14-3	100 mg	NEAT	V-010	12
p-Ethyltoluene 622-96-8	100 mg	NEAT	V-011	12
2-Fluoroacetamide 640-19-7	5 mg/mL	AcCN	AS-E0299	32
Fluorobenzene 462-06-6	0.15 mg/mL	MeOH	AS-E0232	32
	0.2 mg/mL	MeOH	M-624-SS-09	10
	2 mg/mL	MeOH	M-524-IS-2	12
	20 mg/mL	MeOH	M-524-IS-2-10X	20
Fluorotrichloromethane 75-69-4	5 mg/mL	MeOH	AS-E0047	32
Heptadecylbenzene 14752-75-1	100 mg	NEAT	V-014	12
Heptylbenzene 1078-71-3	100 mg	NEAT	V-012	12
Hexachlorobenzene 118-74-1	100 mg	NEAT	A-012	12
	100 µg/mL	MeOH	APP-9-112	12
	1 mg/mL	Acetone	M-8091-IS-20X	17
	2 mg/mL	CH_2Cl_2	APP-9-112-D-20X	20
	2.0 mg/mL	Hexane	M-8120-05	25
Hexachlorobutadiene 87-68-3	1 gram	NEAT	M-502-36N	$ 20
	100 µg/mL	MeOH	APP-9-113	12
	0.2 mg/mL	MeOH	M-502-36	10
	2 mg/mL	MeOH	M-502-36-10X	14
	5 mg/mL	MeOH	AS-E0050	32
	2.0 mg/mL	Hexane	M-8120-06	25
Hexachlorocyclopentadiene 77-47-4	100 µg/mL	MeOH	APP-9-114	12
	1 mg/mL	MeOH	APP-9-114-10X	20
	2.0 mg/mL	Hexane	M-8120-07	25
Hexachloroethane 67-72-1	100 µg/mL	MeOH	APP-9-115	12
	1 mg/mL	MeOH	AS-E0011	32
	2.0 mg/mL	Hexane	M-8120-08	25
Hexachlorophene 70-30-4	100 µg/mL	MeOH	APP-9-116	12
	2 mg/mL	CH_2Cl_2	APP-9-116-D-20X	20
	5 mg/mL	MeOH	AS-E0323	32
Hexachloropropene 1888-71-7	100 µg/mL	MeOH	APP-9-117	12
	1 mg/mL	MeOH	AS-E0364	32
Hexadecylbenzene 1459-09-2	100 mg	NEAT	V-015	12
Hexylbenzene 1077-16-3	100 mg	NEAT	V-013	12
Isopropylbenzene 98-82-8	1 gram	NEAT	M-502-37N	20
	0.2 mg/mL	MeOH	M-502-37	10
	2 mg/mL	MeOH	M-502-37-10X	14
p-Isopropyltoluene (p-Cymene) 99-87-6	1 gram	NEAT	M-502-38N	20
	5 mg/mL	MeOH	AS-E1108	32
	0.2 mg/mL	MeOH	M-502-38	10
	2 mg/mL	MeOH	M-502-38-10X	14
Methacrylonitrile 126-98-7	100 µg/mL	MeOH	APP-9-125	20
	1 mg/mL	MeOH	AS-E0686	32
Methyl 2,3-dibromopropionate 1729-67-5	1 mg/mL	MtBE	M-552.2-SS-ME	10
Methyl 2-bromopropionate 5445-17-0	1 mg/mL	MtBE	M-552.1-SS-ME	10
Methyl bromide 74-83-9	1 mg/mL	AcCN	AS-E0044	40
Methyl chloride 74-87-3	5 mg/mL	MeOH	AS-E0043	40
1-Methyl ethyl benzene 98-82-8	5 mg/mL	MeOH	AS-E0669	32
Methyl iodide 74-88-4	100 µg/mL	MeOH	APP-9-130	12
	2.0 mg/mL	MeOH	APP-9-130-20X	20
Methyl isothiocyanate 556-61-6	25 µg/mL	Acetone	M-1659-RPS	10
Methyl methacrylate 80-62-6	100 µg/mL	MeOH	APP-9-131	12
	1 mg/mL	MeOH	AS-E0439	32
	2 mg/mL	MeOH	APP-9-131-20X	20
Methyl methanesulfonate 66-27-3	100 µg/mL	CH_2Cl_2	APP-9-132	20
	1 mg/mL	AcCN	AS-E0431	32
Methylene chloride 75-09-2	1 mg/mL	MeOH	AS-E0042	32
Methylene chloride-d_2 1665-00-5	2 mg/mL	MeOH	M-502-IS-2-3	20
Naphthalene 91-20-3	1 gram	NEAT	M-502-40N	20
Nitrobenzene 98-95-3	100 µg/mL	MeOH	APP-9-143	12
	1 mg/mL	MeOH	APP-9-143-10X	20
	5 mg/mL	MeOH	AS-E0054	32
Nitrobenzene-d_5 4165-60-0	0.2 mg/mL	CH_2Cl_2	M-625-13	20
	2.0 mg/mL	CH_2Cl_2	M-625-13-10X	20
Nonadecylbenzene 29136-19-4	100 mg	NEAT	V-018	12
Nonylbenzene 1081-77-2	100 mg	NEAT	V-017	12
Octadecylbenzene 4445-07-2	100 mg	NEAT	V-020	12
Octylbenzene 2189-60-8	100 mg	NEAT	V-019	12
Pentachlorobenzene 608-93-5	100 mg	NEAT	A-011	12
	100 µg/mL	MeOH	APP-9-173	12
	2.5 mg/mL	MeOH	AS-E0260	32
Pentachloroethane 76-01-7	100 µg/mL	MeOH	APP-9-174	12
	2.0 mg/mL	MeOH	APP-9-174-20X	20
	5 mg/mL	MeOH	AS-E0300	32
Pentadecylbenzene 2131-18-2	100 mg	NEAT	V-021	12

❄ A ColdPAK is required.

Volatile Organic Compounds (VOCs)

Neats are as stated, Solutions are 1 mL

VOCs

Compound	Conc.	Matrix	Cat. No.	Price
Pentafluorobenzene 363-72-4	0.2 mg/mL	MeOH	M-624-SS-10	$ 10
1,2-Propanediol 57-55-6	1 mg/mL	AcCN	AS-E0524	32
Propionic acid 79-09-4	5 mg/mL	AcCN	AS-E0673	32
Propionitrile 107-12-0	100 µg/mL	MeOH	APP-9-184	12
	5 mg/mL	MeOH	AS-E0338	32
	10 mg/mL	Water	M-8015B/5031-25	25
n-Propylbenzene (1-Phenylpropane) 103-65-1	100 mg	NEAT	V-022	12
	1 gram	NEAT	M-502-41N	20
	0.2 mg/mL	MeOH	M-502-41	10
	2 mg/mL	MeOH	M-502-41-10X	14
	5 mg/mL	MeOH	AS-E1112	32
Styrene 100-42-5	1 gram	NEAT	M-502-42N	20
	100 µg/mL	MeOH	APP-9-189	12
	0.2 mg/mL	MeOH	M-502-42	10
	2 mg/mL	MeOH	M-502-42-10X	14
	5 mg/mL	MeOH	AS-E0257	32
TCMX 877-09-8	100 µg/mL	Hexane	M-8082-SS	20
	1 mg/mL	Hexane	M-8082-SS-10X	20
1,2,3,4-Tetrachlorobenzene 634-66-2	100 mg	NEAT	A-008	12
	1 mg/mL	MeOH	AS-E0225	32
1,2,3,5-Tetrachlorobenzene 634-90-2	100 mg	NEAT	A-009	12
1,2,4,5-Tetrachlorobenzene 95-94-3	100 mg	NEAT	A-010	12
	100 µg/mL	MeOH	APP-9-191	12
	1.0 mg/mL	MeOH	APP-9-191-10X	20
	2.0 mg/mL	Hexane	M-8120-09	25
	2.5 mg/mL	AcCN	AS-E0177	32
1,1,1,2-Tetrachloroethane 630-20-6	1 gram	NEAT	M-502-43N	30
	100 µg/mL	MeOH	APP-9-192	12
	0.2 mg/mL	MeOH	M-502-43	10
	1 mg/mL	MeOH	AS-E0335	32
	2 mg/mL	MeOH	M-502-43-10X	14
1,1,2,2-Tetrachloroethane 79-34-5	1 gram	NEAT	M-502-44N	40
	100 µg/mL	MeOH	APP-9-193	12
	0.2 mg/mL	MeOH	M-502-44	10
	2 mg/mL	MeOH	M-502-44-10X	14
	5 mg/mL	MeOH	AS-E0014	32
Tetrachloroethene 127-18-4	1 gram	NEAT	M-502-45N	20
	100 µg/mL	MeOH	APP-9-194	12
	0.2 mg/mL	MeOH	M-502-45	10
	2 mg/mL	MeOH	M-502-45-10X	14
	5 mg/mL	MeOH	AS-E0083	32
Tetrachloro-m-xylene 877-09-8	0.2 mg/mL	MeOH	S-279	10
	1 mg/mL	MeOH	S-279-5X	10
Tetradecylbenzene 1459-10-5	100 mg	NEAT	V-023	12
Tetrahydrofuran 109-99-9	0.2 mg/mL	MeOH	S-457S	10
	2 mg/mL	MeOH	S-457S-10X	10
	1 mg/mL	Water	M-1671A-IS	20
1,2,3,4-Tetramethylbenzene 488-23-3	100 mg	NEAT	V-024	12
1,2,3,5-Tetramethylbenzene 527-53-7	100 mg	NEAT	V-025	12
1,2,4,5-Tetramethylbenzene 95-93-2	100 mg	NEAT	V-026	12
Toluene 108-88-3	1 gram	NEAT	M-502-46N	20
	100 µg/mL	MeOH	APP-9-198	12
	0.2 mg/mL	MeOH	M-502-46	10
	1 mg/mL	MeOH	AS-E0084	32
	2 mg/mL	MeOH	M-502-46-10X	14
Toluene-d_8 2037-26-5	0.25 mg/mL	MeOH	CLP-PS-3	20
	2.5 mg/mL	MeOH	CLP-PS-3-10X	20
1,3,5-Tribromobenzene 626-39-1	50 µg/mL	Acetone	M-8121-IS	10
Trichloroacetonitrile 545-06-2	5 mg/mL	Acetone	M-551B-7	15
1,2,3-Trichlorobenzene 87-61-6	100 mg	NEAT	A-005	12
	1 gram	NEAT	M-502-47N	20
	0.2 mg/mL	MeOH	M-502-47	10
	2 mg/mL	MeOH	M-502-47-10X	14
	5 mg/mL	MeOH	AS-E0175	32
1,2,4-Trichlorobenzene 120-82-1	100 mg	NEAT	A-006	12
	1 gram	NEAT	M-502-48N	20
	100 µg/mL	MeOH	APP-9-201	$ 12
	0.2 mg/mL	MeOH	M-502-48	10
	1 mg/mL	MeOH	AS-E0007	32
	2 mg/mL	MeOH	M-502-48-10X	14
1,3,5-Trichlorobenzene 108-70-3	100 mg	NEAT	A-007	12
	5 mg/mL	MeOH	AS-E0176	32
1,1,1-Trichloroethane 71-55-6	100 µg/mL	MeOH	APP-9-202	12
	0.2 mg/mL	MeOH	M-502-49	10
	1 mg/mL	MeOH	AS-E0010	32
	2 mg/mL	MeOH	M-502-49-10X	14
1,1,2-Trichloroethane 79-00-5	1 gram	NEAT	M-502-50N	40
	100 µg/mL	MeOH	APP-9-203	12
	0.2 mg/mL	MeOH	M-502-50	10
	1 mg/mL	MeOH	AS-E0013	32
	2 mg/mL	MeOH	M-502-50-10X	14
Trichloroethene 79-01-6	1 gram	NEAT	M-502-51N	20
	100 µg/mL	MeOH	APP-9-204	12
	0.2 mg/mL	MeOH	M-502-51	10
	1 mg/mL	MeOH	AS-E0085	32
	2 mg/mL	MeOH	M-502-51-10X	14
Trichlorofluoromethane 75-69-4	100 µg/mL	MeOH	APP-9-205	12
	0.2 mg/mL	MeOH	M-502-52	10
	2 mg/mL	MeOH	M-502-52-10X	14
1,1,2-Trichloropropane 598-77-6	200 µg/mL	MeOH	S-1321B	30
1,2,3-Trichloropropane 96-18-4	1 gram	NEAT	M-502-53N	20
	100 µg/mL	MeOH	APP-9-208	12
	0.2 mg/mL	MeOH	M-502-53	10
	1 mg/mL	MeOH	APP-9-208-10X	10
	2 mg/mL	MeOH	M-502-53-10X	14
	5 mg/mL	MeOH	AS-E0368	32
a,a,a-Trichlorotoluene 98-07-7	0.2 mg/mL	MeOH	M-624-SS-14	10
Tridecylbenzene 123-02-4	100 mg	NEAT	V-027	12
1,2,3-Trimethylbenzene 526-73-8	100 mg	NEAT	V-028	12
1,2,4-Trimethylbenzene 95-63-6	100 mg	NEAT	V-029	12
	1 gram	NEAT	M-502-54N	20
	0.2 mg/mL	MeOH	M-502-54	10
	2 mg/mL	MeOH	M-502-54-10X	14
	5 mg/mL	MeOH	AS-E1107	32
1,3,5-Trimethylbenzene 108-67-8	100 mg	NEAT	V-016	12
	1 gram	NEAT	M-502-55N	20
	0.2 mg/mL	MeOH	M-502-55	10
	2 mg/mL	MeOH	M-502-55-10X	14
	5 mg/mL	MeOH	AS-E1103	32
1,2,3-Trimethylbenzene 526-73-8	3 % w/w	Isooctane	M-GRA-FP	20
1,3,5-Trinitrobenzene 99-35-4	100 µg/mL	MeOH	APP-9-210	12
	2 mg/mL	MeOH	M-8270-10	15
	2.0 mg/mL	CH_2Cl_2	APP-9-210-D-20X	20
Undecylbenzene 6742-54-7	100 mg	NEAT	V-030	12
Vinyl acetate 108-05-4	100 µg/mL	MeOH	APP-9-211	12
	2 mg/mL	MeOH	APP-9-211-20X ❄	20
	1 mg/mL	AcCN	AS-E0327	32
Vinyl chloride 75-01-4	100 µg/mL	MeOH	APP-9-212	12
	0.2 mg/mL	MeOH	M-502-56	10
	1 mg/mL	MeOH	AS-E0536	40
	2 mg/mL	MeOH	M-502-56-10X	14
Xylene (total) 1330-20-7	100 µg/mL	MeOH	APP-9-213	12
m-Xylene 108-38-3	1 gram	NEAT	M-502-58N	20
	0.2 mg/mL	MeOH	M-502-58	10
	1 mg/mL	MeOH	AS-E0202	32
	2 mg/mL	MeOH	M-502-58-10X	14
o-Xylene 95-47-6	1 gram	NEAT	M-502-57N	20
	0.2 mg/mL	MeOH	M-502-57	10
	1 mg/mL	MeOH	AS-E0201	32
	2 mg/mL	MeOH	M-502-57-10X	20
p-Xylene 106-42-3	1 gram	NEAT	M-502-59N	20
	0.2 mg/mL	MeOH	M-502-59	10
	1 mg/mL	MeOH	AS-E0203	32
	2 mg/mL	MeOH	**M-502-59-10X**	14

❄ A ColdPAK is required.

Individuals by Functional Group

In order to make it easier to find individual standards, AccuStandard has now organized them by functional group, as well as by application, and of course they are still listed with their applicable USEPA methods.



Search by

✔ **Functional Group**

Application

EPA Method

See also "Qualitative Kits" for material of these functional groups.

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Alcohol EPA Methods include: 1673, 8015

Neats are as stated, Solutions are 1 mL

Alcohols

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Allyl alcohol	107-18-6	1 mg/mL	MeOH	AS-E0475	$ 32
		10 mg/mL	Water	M-8015B/5031-05	25
Benzyl alcohol	100-51-6	100 µg/mL	MeOH	APP-9-021	12
		5 mg/mL	MeOH	APP-9-021-50X	25
		5 mg/mL	AcCN	AS-E0326	32
1-Butanol	71-36-3	10 mg/mL	Water	M-8015B/5031-06	25
t-Butanol	75-65-0	10 mg/mL	Water	M-8015B/5031-07	25
		2 mg/mL	MeOH	S-410	10
1,3-Dichloro-2-propanol	96-23-1	5 mg/mL	MeOH	AS-E0928	32
Ethanol	64-17-5	10 mg/mL	Water	M-8015B/5031-11	25
Ethylene glycol	107-21-1	10 mg/mL	Water	M-8015B/5031-13	25
Isobutanol (Isobutyl alcohol)	78-83-1	10 mg/mL	Water	M-8015B/5031-15	25
		100 µg/mL	MeOH	APP-9-120	12
		2.0 mg/mL	MeOH	APP-9-120-20X	20
Isopropanol	67-63-0	10 mg/mL	Water	M-8015B/5031-16	25
Methanol	67-56-1	10 mg/mL	Water	M-8015B/5031-17	20
2-Methyl-1-propanol (Isobutyl alcohol)	78-83-1	5 mg/mL	MeOH	AS-E0659	32
Polyethylene glycol (PEG-600)	25322-68-3	2.5 mg/mL	THF	M-1673	35
1-Propanol	71-23-8	10 mg/mL	Water	M-8015B/5031-24	25
Propargyl alcohol	107-19-7	1 mg/mL	Cyclo-hexanone	AS-E0543	32

Aldehydes EPA Methods include: 554, 556, 1667A, 8315, 8315A

Aldehydes and Derivatives

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Acetaldehyde	75-07-0	1 mg/mL	MeOH	M-554-01 ❄	$ 20
		1 mg/mL	Water	M-8315-01	20
Acetaldehyde-DNPH	1019-57-4	1 mg/mL	MeOH:AcCN	M-554-DNPH-01	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-01	20
Acrolein	107-02-8	100 µg/mL	MeOH:Water	APP-9-007 ❄	12
		1 mg/mL	MeOH:Water	APP-9-007-10X ❄	20
		100 µg/mL	Water	APP-9-007-W	10
		1.0 mg/mL	Water	APP-9-007-W-10X	15
		5 mg/mL	p-Dioxane	AS-E0002	32
		10 mg/mL	Water	M-8015B/5031-03	25
Acrolein-DNPH	888-54-0	0.1 mg/mL	AcCN	M-8315-R-DNPH-03	20
		1 µg/mL	AcCN	S-1275-1-03	30
Benzaldehyde-DNPH	1157-84-2	0.1 mg/mL	AcCN	M-8315-R-DNPH-04	20
Butanal	123-72-8	1 mg/mL	MeOH	M-554-02 ❄	20
Butanal-DNPH	1527-98-6	1 mg/mL	MeOH:AcCN	M-554-DNPH-02	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-05	20
Crotonaldehyde	123-73-9	1 mg/mL	AcCN	AS-E0479	32
		1 mg/mL	MeOH	M-554-03 ❄	20
		10 mg/mL	Water	M-8015B/5031-08	25
Crotonaldehyde-DNPH	1527-96-4	1 mg/mL	MeOH:AcCN	M-554-DNPH-03	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-06	20
Decanal	112-31-2	1 mg/mL	MeOH	M-554-05	20
Decanal-DNPH		1 mg/mL	MeOH:AcCN	M-554-DNPH-05	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-08	20
2,5-Dimethylbenzaldehyde-DNPH	152477-96-8	0.1 mg/mL	AcCN	M-8315-R-DNPH-09	20

Aldehydes continued on next page

❄ A ColdPAK is required.

Neats are as stated, Solutions are 1 mL

Aldehydes and Derivatives (continued)

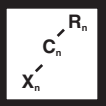
Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Formaldehyde	50-00-0	1 mg/mL	MeOH	M-554-06 ❄	$ 20
		1 mg/mL	Water	M-8315-02	20
Formaldehyde-DNPH	1081-15-8	1.0 mg/mL	AcCN	M-1667A-DNPH-01	35
		1 mg/mL	MeOH:AcCN	M-554-DNPH-06	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-10	20
Formamide	75-12-7	50 µg/mL	Water	M-1666A-DI-R-ADD2	30
2-Furaldehyde-DNPH		1.0 mg/mL	AcCN	M-1667A-DNPH-02	35
Heptanal	111-71-7	1 mg/mL	MeOH	M-554-07	20
Heptanal-DNPH		1 mg/mL	MeOH:AcCN	M-554-DNPH-07	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-11	20
Hexanal	66-25-1	1 mg/mL	MeOH	M-554-08	20
Hexanal-DNPH	1527-97-5	1 mg/mL	MeOH:AcCN	M-554-DNPH-08	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-12	20
Isobutyraldehyde-DNPH		1.0 mg/mL	AcCN	M-1667A-DNPH-03	35
		0.1 mg/mL	AcCN	M-8315-R-DNPH-13	20
Nonanal	124-19-6	1 mg/mL	MeOH	M-554-09	20
Nonanal-DNPH		1 mg/mL	MeOH:AcCN	M-554-DNPH-09	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-14	20
Octanal	124-13-0	1 mg/mL	MeOH	M-554-10	20
Octanal-DNPH		1 mg/mL	MeOH:AcCN	M-554-DNPH-10	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-15	20
Paraldehyde	123-63-7	10 mg/mL	Water	M-8015B/5031-21	25
Pentanal	110-62-3	1 mg/mL	MeOH	M-554-11	20
Pentanal-DNPH	2057-84-3	1 mg/mL	MeOH:AcCN	M-554-DNPH-11	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-16	20
Propanal	123-38-6	1 mg/mL	MeOH	M-554-12 ❄	20
Propanal-DNPH	725-00-8	1 mg/mL	MeOH:AcCN	M-554-DNPH-12	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-17	20
m-Tolualdehyde-DNPH	2880-05-9	0.1 mg/mL	AcCN	M-8315-R-DNPH-18	20
o-Tolualdehyde-DNPH	1773-44-0	0.1 mg/mL	AcCN	M-8315-R-DNPH-19	20
p-Tolualdehyde-DNPH	2571-00-8	0.1 mg/mL	AcCN	M-8315-R-DNPH-20	20

Ketones EPA Methods include: 554, 556, 8091, 8315, 8315A

Ketones

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Acetone	67-64-1	100 µg/mL	MeOH	APP-9-003 ❄	$ 12
		2 mg/mL	MeOH	APP-9-003-20X ❄	20
		5 mg/mL	MeOH	AS-E0284 ❄	32
		10 mg/mL	Water	M-8015B/5031-01	25
Acetone-DNPH	1567-89-1	0.1 mg/mL	AcCN	M-8315-R2-DNPH-02	20
Acetophenone	98-86-2	100 µg/mL	CH_2Cl_2	APP-9-004	12
		2 mg/mL	CH_2Cl_2	APP-9-004-20X	20
		5 mg/mL	MeOH	AS-E0411	32
2-Chloroacetophenone NEW	532-27-4	100 mg/mL	Hexane	IRT-001S	20
2'-Chloroacetophenone NEW	2142-68-9	100 mg/mL	Hexane	IRT-002S	20
3'-Chloroacetophenone NEW	99-02-5	100 mg/mL	Hexane	IRT-003S	25
4'-Chloroacetophenone NEW	99-91-2	100 mg/mL	Hexane	IRT-004S	25
Cyclohexanone	108-94-1	1 mg/mL	MeOH	M-554-04 ❄	20
Cyclohexanone-DNPH	1589-62-4	500 µg/mL	AcCN	AE-00046	20
		1 mg/mL	MeOH:AcCN	M-554-DNPH-04	20
		0.1 mg/mL	AcCN	M-8315-R-DNPH-07	20
1,1-Dichloro-2-propanone	513-88-2	5 mg/mL	Acetone	M-551B-6	15
2-Hexanone	591-78-6	100 µg/mL	MeOH	APP-9-118 ❄	12
		2.0 mg/mL	MeOH	APP-9-118-20X ❄	25
Isophorone	78-59-1	100 µg/mL	MeOH	APP-9-122	12
		1.0 mg/mL	MeOH	APP-9-122-10X	20
		1 mg/mL	MeOH	AS-E0052	20
Methyl ethyl ketone	78-93-3	100 µg/mL	MeOH	APP-9-129 ❄	12
		1 mg/mL	MeOH	APP-9-129-10X ❄	10
		2 mg/mL	MeOH	APP-9-129-20X ❄	20
		5 mg/mL	MeOH	AS-E0311 ❄	32
		10 mg/mL	Water	M-8015B/5031-18	25
4-Methyl-2-pentanone (Methyl isobutyl ketone)	108-10-1	10 mg/mL	Water	M-8015B/5031-19	25
		100 µg/mL	MeOH	APP-9-135	12
		2 mg/mL	MeOH	APP-9-135-20X	20
		5 mg/mL	MeOH	AS-E0349	32
2-Pentanone	107-87-9	10 mg/mL	Water	M-8015B/5031-22	25
1,1,1-Trichloro-2-propanone (1,1,1-Trichloroacetone)	918-00-3	5 mg/mL	Acetone	M-551B-8	15
		1 mg/mL	Acetone	AS-E1181	32
2',4',5'-Trifluoroacetophenone	129322-83-4	20 µg/mL	AcCN	M-556-SS	10
		2 mg/mL	AcCN	M-556-SS-100X	20

❄ A ColdPAK is required.



Phenols EPA Methods: 558, 604, 642, 8040, 8041, 8085

Phenols

Neats are as stated, Solutions are 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Bisphenol A (BPA)	80-05-7	1000 µg/mL	MeOH	M-1626-01S	$ 20
4-Chloro-3-cresol	59-50-7	1.0 mg/mL	MeOH	M-8040-01	20
(4-Chloro-3-methylphenol)		100 µg/mL	MeOH	APP-9-041	12
2-Chlorophenol	95-57-8	100 mg	NEAT	A-013	12
		100 µg/mL	MeOH	APP-9-046	12
		5.0 mg/mL	MeOH	APP-9-046-50X	20
		2 mg/mL	CH_2Cl_2	APP-9-046-D-20X	22
		5 mg/mL	MeOH	AS-E0022	32
3-Chlorophenol	108-43-0	100 mg	NEAT	A-014	12
		5 mg/mL	MeOH	AS-E0182	32
4-Chlorophenol	106-48-9	100 mg	NEAT	A-015	12
		5 mg/mL	MeOH	AS-E0183	32
2-Chlorophenol-d_4	93951-73-6	0.2 mg/mL	CH_2Cl_2	M-625-20	20
o-Chlorophenol	95-57-8	1.0 mg/mL	MeOH	M-8040-02	20
m-Cresol	108-39-4	100 µg/mL	CH_2Cl_2	APP-9-050	12
		1 mg/mL	CH_2Cl_2	APP-9-050-10X	15
		5 mg/mL	MeOH	AS-E0251	32
		1.0 mg/mL	MeOH	M-8040-03	20
o-Cresol	95-48-7	100 µg/mL	CH_2Cl_2	APP-9-051	12
		2 mg/mL	CH_2Cl_2	APP-9-051-20X	20
		1.0 mg/mL	MeOH	M-8040-04	20
		5 mg/mL	MeOH	AS-E0250	32
p-Cresol	106-44-5	100 µg/mL	CH_2Cl_2	APP-9-052	12
		2 mg/mL	CH_2Cl_2	APP-9-052-20X	20
		1.0 mg/mL	MeOH	M-8040-05	20
		5 mg/mL	MeOH	AS-E0252	32
2-Cyclohexyl-4,6-dinitrophenol	131-89-5	1.0 mg/mL	MeOH	M-8040-06	20
2,4-Dibromophenol	615-58-7	1.6 µg/mL	IPA	M-8041-SS	10
		16 µg/mL	IPA	M-8041-SS-10X	10
		160 µg/mL	IPA	M-8041-SS-100X	10
		1 mg/mL	IPA	M-8041-SS-625X	10
2,3-Dichlorophenol	576-24-9	100 mg	NEAT	A-016	12
2,4-Dichlorophenol	120-83-2	100 mg	NEAT	A-017	12
		100 µg/mL	MeOH	APP-9-075	12
		1.0 mg/mL	MeOH	M-8040-07	20
		5 mg/mL	MeOH	APP-9-075-50X	30
		5 mg/mL	MeOH	AS-E0029	32
		1 mg/mL	MtBE	M-552A-R-06	15
2,5-Dichlorophenol	583-78-8	100 mg	NEAT	A-018	12
2,6-Dichlorophenol	87-65-0	100 mg	NEAT	A-019	12
		100 µg/mL	CH_2Cl_2	APP-9-076	12
		1.0 mg/mL	MeOH	M-8040-08	20
		5 mg/mL	MeOH	APP-9-076-M-50X	30
3,4-Dichlorophenol	95-77-2	100 mg	NEAT	A-020	12
3,5-Dichlorophenol	591-35-5	100 mg	NEAT	A-021	12
2,4-Dimethylphenol	105-67-9	100 µg/mL	MeOH	APP-9-087	12
		5 mg/mL	MeOH	APP-9-087-50X	25
		1.0 mg/mL	MeOH	M-8040-09	20
2,4-Dimethylphenol-3,5,6-d_3	93951-75-8	0.1 mg/mL	Acetone	AS-E0190	32
4,6-Dinitro-o-cresol	534-52-1	100 mg	NEAT	R-057N	10
		100 µg/mL	Toluene	R-057S	10
		1 mg/mL	MeOH	APP-9-090-10X	20
		5 mg/mL	MeOH	AS-E0058	32
2,4-Dinitrophenol	51-28-5	100 µg/mL	MeOH	APP-9-091	12
		1.0 mg/mL	MeOH	M-8040-10	20
		5 mg/mL	MeOH	APP-9-091-50X	20
2-Fluorophenol	367-12-4	0.1 mg/mL	Acetone	AS-E0193	32
		2 mg/mL	MeOH	CLP-AS-1	20
		0.2 mg/mL	CH_2Cl_2	M-625-16	20
		2 mg/mL	CH_2Cl_2	M-625-16-10X	25
2-Methyl-4,6-dinitrophenol	534-52-1	1.0 mg/mL	MeOH	M-8040-12	20
2-Nitrophenol	88-75-5	100 mg	NEAT	R-051N	10
(o-Nitrophenol)		100 µg/mL	Toluene	R-051S	10
		100 µg/mL	MeOH	APP-9-144	12
		1.0 mg/mL	MeOH	M-8040-13	20
		5.0 mg/mL	MeOH	APP-9-144-50X	25
3-Nitrophenol	554-84-7	5 mg/mL	MeOH	AS-E0662	32
4-Nitrophenol	100-02-7	100 µg/mL	MeOH	APP-9-145	12
(p-Nitrophenol)		1.0 mg/mL	MeOH	M-8040-14	20
		5 mg/mL	MeOH	APP-9-145-50X	20

Phenols continued on next page

Phenols & Nitrosamines

Phenols and Nitrosamines can react with the active sites on a column which can sometimes give inconsistent results from run to run. By saturating these sites, the problem should go away. To do this, run a standard that is between 2 to 5 times higher than your highest calibration point. This can be repeated if necessary until the problem is alleviated. Alternatively, silylation can be performed on the column (contact column manufacturer for more details).

For New Nonylphenols and Octylphenols from ASTM D7065, see "Methods other than EPA" section, page 267.

Phenols (continued)

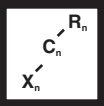
Neats are as stated, Solutions are 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Pentachlorophenol	87-86-5	100 mg	NEAT	A-031	$ 12
		100 µg/mL	MeOH	APP-9-176	12
		1 mg/mL	MeOH	APP-9-176-10X	20
		2 mg/mL	CH_2Cl_2	APP-9-176-D-20X	20
		5 mg/mL	MeOH	AS-E0062	32
		25 µg/mL	CH_2Cl_2	M-625C-2	20
		0.2 mg/mL	CH_2Cl_2	M-625C-2-10X	20
		1.0 mg/mL	MeOH	M-8040-15	20
Pentachlorophenol-$^{13}C_6$	85380-74-1	0.1 mg/mL	Acetone	AS-E0191	40
Pentafluorophenol	771-61-9	0.2 mg/mL	CH_2Cl_2	M-625-17	20
Phenol	108-95-2	100 µg/mL	CH_2Cl_2	APP-9-179	12
		5 mg/mL	MeOH	AS-E0063	32
Phenol-d_5	4165-62-2	0.1 mg/mL	Acetone	AS-E0189	32
		0.2 mg/mL	CH_2Cl_2	M-625-18	20
		2 mg/mL	CH_2Cl_2	M-625-18-10X	25
2,3,4,5-Tetrachlorophenol	4901-51-3	5 mg	NEAT	A-028	25
2,3,4,6-Tetrachlorophenol	58-90-2	10 mg	NEAT	A-029-10MG	12
		100 µg/mL	MeOH	APP-9-195	20
		1.0 mg/mL	MeOH	M-8040-17	20
2,3,5,6-Tetrachlorophenol	935-95-5	100 mg	NEAT	A-030	65
2,4,6-Tribromophenol	118-79-6	20 µg/mL	MtBE	M-8085-HERB-SS	20
		0.2 mg/mL	CH_2Cl_2	M-625-19	20
		0.2 mg/mL	MeOH	M-604-SS	20
		2 mg/mL	MeOH	CLP-AS-3	20
		6 mg/mL	MeOH	CLP-LC-SS-2	10
2,3,4-Trichlorophenol	15950-66-0	100 mg	NEAT	A-022	12
2,3,5-Trichlorophenol	933-78-8	100 mg	NEAT	A-023	12
		5 mg/mL	MeOH	AS-E0222	32
2,3,6-Trichlorophenol	933-75-5	100 mg	NEAT	A-024	12
		1 mg/mL	MeOH	AS-E0181	32
2,4,5-Trichlorophenol	95-95-4	100 mg	NEAT	A-025	12
		0.1 mg/mL	Acetone	CLP-FC	10
		100 µg/mL	MeOH	APP-9-206	12
		1.0 mg/mL	MeOH	M-8040-18	20
		5 mg/mL	MeOH	AS-E0179	32
2,4,6-Trichlorophenol	88-06-2	100 mg	NEAT	A-026	12
		100 µg/mL	MeOH	APP-9-207	12
		5 mg/mL	MeOH	APP-9-207-50X	20
		0.1 µg/mL	Acetone	M-1618-SE	10
		0.1 mg/mL	Acetone	M-1600-SPE	10
		1 mg/mL	MtBE	M-552A-7	15
		1.0 mg/mL	MeOH	M-8040-19	20
3,4,5-Trichlorophenol	609-19-8	10 mg	NEAT	A-027	25
		1 mg/mL	MeOH	M-1653-IS	35
		1 mg/mL	Acetone	M-1653-IS-R	35

Amines, Anilines and Amino Compounds EPA Methods: 605, 607, 620, 625, 1666, 8015, 8095, 8131, 8325

Amines, Anilines and Amino Compounds

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
2-Amino-4-nitrotoluene	99-55-8	100 µg/mL	AcCN	RAC-03	$ 25
		1 mg/mL	AcCN	RAC-03-10X	35
p-Aminoazobenzene	60-09-3	100 µg/mL	AcCN	RAC-21	25
		1000 µg/mL	AcCN	RAC-21-10X	35
o-Aminoazotoluene	97-56-3	100 µg/mL	AcCN	RAC-01	25
		1 mg/mL	AcCN	RAC-01-10X	35
2-Aminobiphenyl	90-41-5	10 mg	NEAT	R-062N	10
		100 µg/mL	Toluene	R-062S	15
		100 µg/mL	AcCN	RAC-22	25
		1000 µg/mL	AcCN	RAC-22-10X	35
4-Aminobiphenyl	92-67-1	10 mg	NEAT	R-063N	10
		100 µg/mL	Toluene	R-063S	15
		100 µg/mL	CH_2Cl_2	APP-9-011	20
		100 µg/mL	AcCN	RAC-02	25
		1 mg/mL	AcCN	RAC-02-10X	35
		1 mg/mL	MeOH	AS-E0578	32
Aniline	62-53-3	100 mg	NEAT	L-001N	12
		100 µg/mL	MeOH	APP-9-012	12
		1 mg/mL	MeOH	APP-9-012-10X	20
		5 mg/mL	MeOH	AS-E0542	32
Aniline-d_5	4165-61-1	0.2 mg/mL	CH_2Cl_2	M-625-01	20
		2 mg/mL	CH_2Cl_2	M-625-01-10X	20
o-Anisidine	90-04-0	100 µg/mL	AcCN	RAC-23	25
		1000 µg/mL	AcCN	RAC-23-10X	35



Amines, Anilines and Amino Compounds (continued)

Neats are as stated, Solutions are 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Benzidine	92-87-5	50 µg/mL	CH_2Cl_2	M-625C-1	$ 20
		2 mg/mL	CH_2Cl_2	M-625C-1-40X	20
		100 µg/mL	AcCN	RAC-04	25
		1 mg/mL	AcCN	RAC-04-10X	35
Benzidine (as dihydrochloride)	531-85-1	1 mg/mL	MeOH	AS-E0005	32
2-Bromo-4,6-dinitroaniline	1817-73-8	100 mg	NEAT	L-017N	12
4-Bromoaniline	106-40-1	100 mg	NEAT	L-007N	12
4-Chloro-2-nitroaniline	89-63-4	100 mg	NEAT	L-013N	12
2-Chloro-4,6-dinitroaniline	3531-19-9	100 mg	NEAT	L-015N	12
2-Chloro-4-nitroaniline	121-87-9	100 mg	NEAT	L-012N	12
2-Chloroaniline	95-51-2	100 mg	NEAT	L-002N	12
3-Chloroaniline	108-42-9	100 mg	NEAT	L-003N	12
4-Chloroaniline (p-Chloroaniline)	106-47-8	100 mg	NEAT	L-004N	12
		100 µg/mL	AcCN	RAC-05	25
		1 mg/mL	AcCN	RAC-05-10X	35
		100 µg/mL	MeOH	APP-9-038	12
		5 mg/mL	MeOH	AS-E0305	32
3-Chloro-o-toluidine	87-60-5	100 µg/mL	AcCN	RAC-24	25
		1000 µg/mL	AcCN	RAC-24-10X	35
4-Chloro-o-toluidine	95-69-2	100 µg/mL	AcCN	RAC-06	25
		1 mg/mL	AcCN	RAC-06-10X	35
p-Cresidine	120-71-8	100 µg/mL	AcCN	RAC-07	25
		1.0 mg/mL	AcCN	RAC-07-10X	35
2,4-Diaminoanisole sulfate hydrate	123333-56-2	100 µg/mL	Pyridine	RAC-08	25
		1 mg/mL	Pyridine	RAC-08-10X	35
3,3'-Diaminobenzidine	91-95-2	50 mg	NEAT	R-074N	10
		100 µg/mL	Toluene	R-074S	15
4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline)	101-77-9	100 mg	NEAT	R-077N	10
		100 µg/mL	Toluene	R-077S	15
		100 µg/mL	AcCN	RAC-09	25
		1 mg/mL	AcCN	RAC-09-10X	35
2,4-Diaminotoluene	95-80-7	100 mg	NEAT	R-078N	10
		100 µg/mL	Toluene	R-078S	15
		100 µg/mL	AcCN	RAC-10	25
		1 mg/mL	AcCN	RAC-10-10X	35
		1 mg/mL	MeOH	AS-E0932	32
2,6-Dibromo-4-nitroaniline	827-94-1	100 mg	NEAT	L-016N	12
2,6-Dichloro-4-nitroaniline	99-30-9	100 mg	NEAT	L-014N	12
3,4-Dichloroaniline	95-76-1	100 mg	NEAT	L-005N	12
3,3'-Dichlorobenzidine	91-94-1	50 mg	NEAT	R-075N	10
		100 µg/mL	MeOH	APP-9-067	20
		1 mg/mL	MeOH	AS-E0026	32
		100 µg/mL	Toluene	R-075S	15
		100 µg/mL	AcCN	RAC-11	25
		1 mg/mL	AcCN	RAC-11-10X	35
		2 mg/mL	MeOH	Z-014F-2	20
3,3'-Dimethoxybenzidine	119-90-4	50 mg	NEAT	R-076N	10
		100 µg/mL	Toluene	R-076S	15
		100 µg/mL	AcCN	RAC-12	25
		1 mg/mL	AcCN	RAC-12-10X	35
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	100 µg/mL	AcCN	RAC-14	25
		1 mg/mL	AcCN	RAC-14-10X	35
4-Dimethylaminoazobenzene	60-11-7	10 mg	NEAT	R-079N	10
		100 µg/mL	Toluene	R-079S	15
2,6-Dimethylaniline	87-62-7	100 mg	NEAT	L-018N	12
		100 µg/mL	AcCN	L-018S-CN	25
3,3'-Dimethylbenzidine	119-93-7	100 µg/mL	CH_2Cl_2	APP-9-085	20
		2.0 mg/mL	CH_2Cl_2	APP-9-085-20X	25
		100 µg/mL	AcCN	RAC-13	25
		1 mg/mL	AcCN	RAC-13-10X	35
a,a-Dimethylphenethylamine	122-09-8	100 µg/mL	CH_2Cl_2	APP-9-086	20
		2.0 mg/mL	CH_2Cl_2	APP-9-086-20X	30
2,4-Dinitroaniline	97-02-9	100 mg	NEAT	L-011N	12
Diphenylamine	122-39-4	100 µg/mL	CH_2Cl_2	APP-9-097	12
		1 mg/mL	MeOH	M-620	15
		5 mg/mL	MeOH	AS-E0263	32
Ethylenediamine	107-15-3	1 mg/mL	MeOH	AS-E0358	32
4-Fluoroaniline	371-40-4	0.2 mg/mL	CH_2Cl_2	M-625-08	20
		2 mg/mL	CH_2Cl_2	M-625-08-10X	20
2-Methyl-4-nitroaniline	99-52-5	100 µg/mL	AcCN	M-8095-SS-02	20
Methylamine	74-89-5	2500 µg/mL	Water	M-1666A-DI-R-ADD1	30
4,4'-Methylenebis(2-chloroaniline)	101-14-4	50 mg	NEAT	R-080N	10
		100 µg/mL	Toluene	R-080S	15
		100 µg/mL	AcCN	RAC-15	25
		1 mg/mL	AcCN	RAC-15-10X	35
		5 mg/mL	MeOH	AS-E0322	32
2-Naphthylamine	91-59-8	100 µg/mL	AcCN	RAC-16	25
		1 mg/mL	AcCN	RAC-16-10X	35

Amines, Anilines and Amino continued on next page

Amines, Anilines and Amino Compounds (continued)

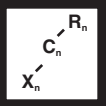
Neats are as stated, Solutions are 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
2-Nitroaniline	88-74-4	100 mg	NEAT	L-008N	$ 12
		100 mg	NEAT	R-054N	10
		100 µg/mL	Toluene	R-054S	10
3-Nitroaniline	99-09-2	100 mg	NEAT	L-009N	12
		100 µg/mL	Toluene	R-055S	10
4-Nitroaniline	100-01-6	100 mg	NEAT	L-010N	12
		100 µg/mL	Toluene	R-056S	10
m-Nitroaniline	99-09-2	100 µg/mL	CH_2Cl_2	APP-9-141	12
o-Nitroaniline	88-74-4	100 µg/mL	CH_2Cl_2	APP-9-140	12
		5 mg/mL	MeOH	AS-E0324	32
p-Nitroaniline	100-01-6	100 µg/mL	CH_2Cl_2	APP-9-142	12
		5 mg/mL	MeOH	AS-E0342	32
		5 mg/mL	AcCN	AS-E0392	32
5-Nitro-o-toluidine	99-55-8	100 µg/mL	CH_2Cl_2	APP-9-156	20
		5 mg/mL	MeOH	AS-E0344	32
N-Nitrosodiethylamine	55-18-5	100 µg/mL	CH_2Cl_2	APP-9-148	20
		2 mg/mL	CH_2Cl_2	APP-9-148-20X	20
		5 mg/mL	MeOH	AS-E0334	32
N-Nitrosodimethylamine	62-75-9	100 µg/mL	CH_2Cl_2	APP-9-149	20
		1 mg/mL	MeOH	APP-9-149-M-10X	30
		5 mg/mL	MeOH	AS-E0059	32
N-Nitrosodi-n-butylamine	924-16-3	100 µg/mL	CH_2Cl_2	APP-9-147	20
		2 mg/mL	CH_2Cl_2	APP-9-147-20X	30
		0.5 mg/mL	Water	M-8015B/5031-20	25
N-Nitrosodi-n-propylamine	621-64-7	100 µg/mL	CH_2Cl_2	APP-9-151	20
		2.5 mg/mL	CH_2Cl_2	APP-9-151-25X	30
		5 mg/mL	MeOH	AS-E0061	32
N-Nitrosodiphenylamine	86-30-6	100 µg/mL	CH_2Cl_2	APP-9-150	20
		1.0 mg/mL	MeOH	APP-9-150-M-10X	30
		5 mg/mL	MeOH	AS-E0060	32
N-Nitrosomethylethylamine	10595-95-6	100 µg/mL	CH_2Cl_2	APP-9-152	20
N-Nitroso-N-methyl ethylamine		1 mg/mL	MeOH	AS-E0974	32
1-Nitrosopiperidine	100-75-4	5 mg/mL	MeOH	AS-E0458	32
4,4'-Oxydianiline	101-80-4	100 µg/mL	AcCN	RAC-17	25
		1 mg/mL	AcCN	RAC-17-10X	35
p-Phenylenediamine	106-50-3	100 µg/mL	MeOH	APP-9-180	20
		1 mg/mL	AcCN	AS-E0275	32
		2 mg/mL	MeOH	APP-9-180-20X	20
1-Propanamine	107-10-8	1 mg/mL	MeOH	AS-E0657	32
Pyridine	110-86-1	100 µg/mL	CH_2Cl_2	APP-9-186	12
		2 mg/mL	CH_2Cl_2	APP-9-186-20X	20
		2 mg/mL	MeOH	APP-9-186-M-20X	20
		5 mg/mL	MeOH	AS-E0271	32
		10 mg/mL	Water	M-8015B/5031-26	25
Pyridine-d_5	7291-22-7	0.2 mg/mL	CH_2Cl_2	M-625-15	20
		2.0 mg/mL	CH_2Cl_2	M-625-15-10X	30
3,3',5,5'-Tetramethylbenzidene	54827-17-7	1 mg/mL	AcCN	RAC-IS	25
		1 mg/mL	Ethyl acetate	RAC-IS-EA	25
4,4'-Thiodianiline	139-65-1	100 µg/mL	AcCN	RAC-18	25
		1 mg/mL	AcCN	RAC-18-10X	35
o-Toluidine	95-53-4	100 µg/mL	MeOH	APP-9-199	12
		2 mg/mL	MeOH	AS-E0503	32
		100 µg/mL	AcCN	RAC-19	25
		1 mg/mL	AcCN	RAC-19-10X	35
		10 mg/mL	Water	M-8015B/5031-27	25
2,4,5-Trichloroaniline	636-30-6	100 mg	NEAT	L-006N	12
2,4,5-Trimethylaniline	137-17-7	100 µg/mL	AcCN	RAC-20	25
		1 mg/mL	AcCN	RAC-20-10X	35

Ether EPA Methods: 601, 8150

Ethers

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
bis(2-Chloroethyl)ether	111-44-4	4.0 mg/mL	MeOH	APP-9-027-40X	$ 20
2-Chloroethylvinyl ether	110-75-8	2 mg/mL	MeOH	M-601C-10X	10
2,4-Dichlorophenyl-3-methyl-4-nitrophenyl ether	42488-57-3	1.0 mg/mL	Isooctane	E-020S	15
Diethyl ether	60-29-7	10 mg/mL	Water	M-8015B/5031-09	25
Dinoseb methyl ether	6099-79-2	0.2 mg/mL	Hexane	M-8150-08	15
p-Dioxane	123-91-1	100 µg/mL	MeOH	APP-9-096	12
		1 mg/mL	MeOH	APP-9-096-10X	20
		10 mg/mL	MeOH	AS-E0480	32
1,4-Dioxane	123-91-1	10 mg/mL	Water	M-8015B/5031-10	25
MtBE	1634-04-4	0.2 mg/mL	MeOH	S-078	10
		2 mg/mL	MeOH	S-078-10X	12
TAME	994-05-8	0.2 mg/mL	MeOH	S-1019	10



Neats are as stated, Solutions are 1 mL

Halo Ethers

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
2-Chlorophenyl-4-nitrophenyl ether	209-61-4	1 mg/mL	Isooctane	E-005S	$ 15
3-Chlorophenyl-4-nitrophenyl ether	2303-23-3	1 mg/mL	Isooctane	E-006S	15
4-Chlorophenyl-4-nitrophenyl ether	1836-74-4	1 mg/mL	Isooctane	E-007S	15
2,4-Dibromophenyl-4-nitrophenyl ether	2671-93-4	1 mg/mL	Isooctane	E-004S	15
2,3-Dichlorophenyl-4-nitrophenyl ether	82239-20-1	1 mg/mL	Isooctane	E-008S	15
2,5-Dichlorophenyl-4-nitrophenyl ether	391-48-7	1 mg/mL	Isooctane	E-010S	15
2,6-Dichlorophenyl-4-nitrophenyl ether	2093-28-9	1 mg/mL	Isooctane	E-011S	15
3,5-Dichlorophenyl-4-nitrophenyl ether	21105-77-1	1 mg/mL	Isooctane	E-012S	15
2,4-Dichlorophenyl-4-nitrophenyl ether	1836-75-5	1 mg/mL	Isooctane	E-009S	15
3,4-Dichlorophenyl-4-nitrophenyl ether	22532-80-5	1 mg/mL	Isooctane	E-013S	15
4-Nitrophenyl phenyl ether	620-88-2	1 mg/mL	Isooctane	E-003S	15
2,3,5-Trichlorophenyl-4-nitrophenyl ether	142022-59-1	1 mg/mL	Isooctane	E-015S	15
2,3,6-Trichlorophenyl-4-nitrophenyl ether	142022-58-0	1 mg/mL	Isooctane	E-016S	15
2,3,4-Trichlorophenyl-4-nitrophenyl ether	142022-61-5	1 mg/mL	Isooctane	E-014S	15
2,4,5-Trichlorophenyl-4-nitrophenyl ether	22532-68-9	1 mg/mL	Isooctane	E-017S	15
2,4,6-Trichlorophenyl-4-nitrophenyl ether	1836-77-7	1 mg/mL	Isooctane	E-018S	15
3,4,5-Trichlorophenyl-4-nitrophenyl ether		1 mg/mL	Isooctane	E-019S	15

Haloacetic Acids EPA Methods: 552A, 552.1, 522.2, 515

Haloacetic Acids

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Bromoacetic acid	79-08-3	1 mg/mL	MtBE	M-552A-1	$ 15
Bromochloroacetic acid	5589-96-8	40 µg/mL	MtBE	M-552.2A-01	15
		1 mg/mL	MtBE	M-552A-R-02	25
Bromodichloroacetic acid	71133-14-7	40 µg/mL	MtBE	M-552.2A-02	20
Chloroacetic acid	79-11-8	1 mg/mL	MtBE	M-552A-2	15
Chlorodibromoacetic acid	5278-95-5	100 µg/mL	MtBE	M-552.2A-03	20
Dibromoacetic acid	631-64-1	20 µg/mL	MtBE	M-552.2A-05	15
		1 mg/mL	MtBE	M-552A-5	15
Dichloroacetic acid	79-43-6	60 µg/mL	MtBE	M-552.2A-06	15
		1 mg/mL	MtBE	M-552A-3	15
2,4-Dichlorophenylacetic acid	19719-28-9	2 µg/mL	Acetone	M-1618-SA	10
2,4-Dichlorophenylacetic methyl ester	55954-23-9	0.1 mg/mL	MtBE	M-515-SS	10
		5 mg/mL	MtBE	M-515-SS-50X	30
Methyl bromoacetate	96-32-2	40 µg/mL	MtBE	M-552.2-02	20
		200 µg/mL	MeOH	M-552.1-02	25
Methyl bromochloroacetate	20428-74-4	40 µg/mL	MtBE	M-552.2-03	20
		200 µg/mL	MeOH	M-552.1-03	25
		1 mg/mL	MtBE	M-552-R-03	30
Methyl bromodichloroacetate	20428-76-6	40 µg/mL	MtBE	M-552.2-04	20
Methyl chloroacetate	96-34-4	60 µg/mL	MtBE	M-552.2-05	20
		300 µg/mL	MeOH	M-552.1-04	25
		1 mg/mL	MtBE	M-552-R-04	30
Methyl chlorodibromoacetate	20428-75-5	100 µg/mL	MtBE	M-552.2-06	20
Methyl dibromoacetate	6482-26-4	20 µg/mL	MtBE	M-552.2-07	20
		100 µg/mL	MeOH	M-552.1-05	25
Methyl dichloroacetate	116-54-1	60 µg/mL	MtBE	M-552.2-08	20
		300 µg/mL	MeOH	M-552.1-06	25
Methyl tribromoacetate	3222-05-7	200 µg/mL	MtBE	M-552.2-09 ❄	20
Methyl trichloroacetate	598-99-2	20 µg/mL	MtBE	M-552.2-10	20
		100 µg/mL	MeOH	M-552.1-07	25
Monobromoacetic acid	79-08-3	40 µg/mL	MtBE	M-552.2A-07	15
Monochloroacetic acid	79-11-8	60 µg/mL	MtBE	M-552.2A-08	15
Tribromoacetic acid	75-96-7	200 µg/mL	MtBE	M-552.2A-09	15
Trichloroacetic acid	76-03-9	20 µg/mL	MtBE	M-552.2A-10	15

Fatty Acid Ethyl Esters (FAEEs)

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Ethyl arachidate	18281-05-5	100 mg	NEAT	FAEE-008N	$ 15
		10 µg/mL	Hexane	FAEE-008S	15
Ethyl behenate	5908-87-2	100 mg	NEAT	FAEE-009N	15
		10 µg/mL	Hexane	FAEE-009S	15
Ethyl caprate	110-38-3	100 mg	NEAT	FAEE-003N	15
		10 µg/mL	Hexane	FAEE-003S	15
Ethyl caprylate	106-32-1	100 mg	NEAT	FAEE-002N	15
		10 µg/mL	Hexane	FAEE-002S	15
Ethyl erucate	37910-77-3	100 mg	NEAT	FAEE-011N	15
		10 µg/mL	Hexane	FAEE-011S	15

Fatty Acid Ethyl Esters continued on next page

❄ A ColdPAK is required.

Fatty Acid Ethyl Esters (continued)

Neats are as stated, Solutions are 1 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Ethyl heptadecanoate	14010-23-2	100 mg	NEAT	FAEE-015N	$ 15
		10 µg/mL	Hexane	FAEE-015S	15
Ethyl laurate	106-33-2	100 mg	NEAT	FAEE-004N	15
		10 µg/mL	Hexane	FAEE-004S	15
Ethyl lignocerate	24634-95-5	100 mg	NEAT	FAEE-010N	25
		10 µg/mL	Hexane	FAEE-010S	25
Ethyl linoleate	544-35-4	100 mg	NEAT	FAEE-012N	15
		10 µg/mL	Hexane	FAEE-012S	15
Ethyl linolenate	1191-41-9	100 mg	NEAT	FAEE-016N	15
		10 µg/mL	Hexane	FAEE-016S	15
Ethyl linolenate gamma	31450-14-3	100 mg	NEAT	FAEE-020N	35
		10 µg/mL	Hexane	FAEE-020S	35
Ethyl myristate	124-06-1	100 mg	NEAT	FAEE-005N	15
		10 µg/mL	Hexane	FAEE-005S	15
Ethyl nervonate	137888-64-3	100 mg	NEAT	FAEE-013N	25
		10 µg/mL	Hexane	FAEE-013S	25
Ethyl oleate	111-62-6	100 mg	NEAT	FAEE-014N	15
		10 µg/mL	Hexane	FAEE-014S	15
Ethyl palmitate	628-97-7	100 mg	NEAT	FAEE-006N	15
		10 µg/mL	Hexane	FAEE-006S	15
Ethyl palmitoleate	56219-10-4	100 mg	NEAT	FAEE-001N	15
		10 µg/mL	Hexane	FAEE-001S	15
Ethyl stearate	111-61-5	100 mg	NEAT	FAEE-007N	15
		10 µg/mL	Hexane	FAEE-007S	15

Phthalates EPA Methods: 506, 606, 8061, 8270

Phthalates

4 New Phthalates

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Benzyl butyl phthalate	85-68-7	100 µg/mL	MeOH	APP-9-034	$ 20
		5 mg/mL	MeOH	AS-E0065	32
Diallyl phthalate	131-17-9	100 mg	NEAT	J-002	12
Dibenzylphthalate-d_4		100 µg/mL	MeOH	PHTH-D4-001S	30
Dibutyl phthalate	84-74-2	100 mg	NEAT	J-003	12
Dicyclohexyl phthalate	84-61-7	100 mg	NEAT	J-004	12
		1 mg/mL	AcCN	AS-E0318	32
Dicyclohexyl phthalate-3,4,5,6-d_4	358731-25-6	100 µg/mL	MeOH	PHTH-D4-004S	30
Diethyl phthalate	84-66-2	100 mg	NEAT	J-005	12
		100 µg/mL	MeOH	APP-9-081	12
		1 mg/mL	MeOH	APP-9-081-10X	20
		5 mg/mL	MeOH	AS-E0068	32
Diethyl phthalate-3,4,5,6-d_4	93952-12-6	100 µg/mL	MeOH	PHTH-D4-005S	30
Di-iso-butyl phthalate-3,4,5,6-d_4	358730-88-8	100 µg/mL	MeOH	PHTH-D4-003S	30
Diisodecyl phthalate	26761-40-0	100 mg	NEAT	J-006	12
Diisohexyl phthalate		100 mg	NEAT	J-007	12
Diisooctyl phthalate	27554-26-3	100 mg	NEAT	J-008	12
Diisopentyl phthalate NEW	605-50-5	100 mg	NEAT	J-127	12
Dimethyl isophthalate	1459-93-4	100 mg	NEAT	J-009	12
Dimethyl phthalate	131-11-3	100 mg	NEAT	J-010	12
		100 µg/mL	MeOH	APP-9-088	12
		1 mg/mL	MeOH	APP-9-088-10X	20
		5 mg/mL	MeOH	AS-E0069	32
		0.1 mg/mL	EtOAc	M-8032-IS	10
Dimethyl phthalate-3,4,5,6-d_4	93951-89-4	100 µg/mL	MeOH	PHTH-D4-007S	30
Di-n-butyl phthalate	84-74-2	100 µg/mL	MeOH	APP-9-063	12
		1 mg/mL	MeOH	APP-9-063-10X	20
		5 mg/mL	MeOH	AS-E0066	32
Di-n-butyl phthalate-d_4	93952-11-5	100 µg/mL	MeOH	PHTH-D4-002S	30
Di-n-hexyl phthalate-3,4,5,6-d_4		100 µg/mL	MeOH	PHTH-D4-006S	30
Di-n-octyl phthalate	117-84-0	100 mg	NEAT	J-011	12
		100 µg/mL	MeOH	APP-9-095	12
		5 mg/mL	MeOH	AS-E0067	32
Di-n-octyl phthalate-3,4,5,6-d_4	93952-13-7	100 µg/mL	MeOH	PHTH-D4-008S	30
Dinonyl phthalate NEW	84-76-4	100 mg	NEAT	J-105	12
Di-n-pentyl phthalate-3,4,5,6-d_4	358730-89-9	100 µg/mL	MeOH	PHTH-D4-009S	30
Di-n-propyl phthalate-3,4,5,6-d_4	358731-29-0	100 µg/mL	MeOH	PHTH-D4-010S	30
Diphenyl isophthalate	744-45-6	100 mg	NEAT	J-012	12
Diphenyl phthalate	84-62-8	100 mg	NEAT	J-013	12
bis(2-Ethylhexyl)phthalate	117-81-7	100 µg/mL	MeOH	APP-9-029	12
		1 mg/mL	MeOH	APP-9-029-10X	20
bis(2-Ethylhexyl)phthalate-3,4,5,6-d_4	93951-87-2	100 µg/mL	MeOH	PHTH-D4-011S	30
Hexyl-2-ethylhexyl phthalate NEW	75673-16-4	100 mg	NEAT	J-016	12
Isobutylcyclohexyl phthalate		100 mg	NEAT	J-014	12
bis(4-Methyl-2-pentyl)phthalate NEW	146-50-9	100 mg	NEAT	J-109	12
n-Octyl n-decyl phthalate	119-07-3	100 mg	NEAT	J-015	12

Organic Individuals by Application

Methods by Application:
Many different industries have specific needs for reference standards. In order to make it easy for chemists to find products applicable to their analyses, AccuStandard has created industry specific listings for these different applications.









Individuals by Application	93-121
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Explosives

Explosive standards are traditionally used for the remediation of soil and water in locations where explosives have been stored. These same standards are now being used to calibrate baggage screening detectors at airports and other secure locations (embassies and other government buildings) and the training of animals to sniff out dangerous compounds by police departments and the military.

Explosives

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price / 1 mL
2-Amino-4,6-dinitrotoluene ♦	35572-78-2	1 mg/mL	AcCN:MeOH	M-8330-13	$ 20
		0.1 mg/mL	AcCN:MeOH	M-8330-13-0.1X	20
4-Amino-2,6-dinitrotoluene ♦	19406-51-0	1 mg/mL	AcCN:MeOH	M-8330-14	20
		0.1 mg/mL	AcCN:MeOH	M-8330-14-0.1X	20
Ammonium picrate	131-74-8	0.1 mg/mL	AcCN	M-8330-ADD-27	25
DEGDN	693-21-0	100 µg/mL	AcCN:MeOH	M-8330-ADD-36	30
1,2-Diaminopropane	78-90-0	0.1 mg/mL	MeOH	M-8330-ADD-9	20
2,4-Diamino-6-nitrotoluene ♦	6629-29-4	0.1 mg/mL	AcCN	M-8330-ADD-12	40
2,6-Diamino-4-nitrotoluene ♦	59229-75-3	0.1 mg/mL	AcCN	M-8330-ADD-13	40
Diazodinitrophenol **NEW**	4682-03-5	0.1 mg/mL	AcCN	M-8330-ADD-48	45
		1 mg/mL	AcCN	M-8330-ADD-48-10X	45
2,3-Dimethyl-2,3-dinitrobutane (DMNB)	3964-18-9	100 µg/mL	AcCN	M-8330-ADD-21	30
3,5-Dinitroaniline	618-87-1	0.1 mg/mL	AcCN:MeOH	M-8330-ADD-4	20
1,2-Dinitrobenzene	528-29-0	1 mg/mL	MeOH	M-8330-SS	20
1,3-Dinitrobenzene	99-65-0	1 mg/mL	AcCN:MeOH	M-8330-01	15
		0.1 mg/mL	AcCN:MeOH	M-8330-01-0.1X	20
1,2-Dinitroglycerin	621-65-8	100 µg/mL	AcCN:MeOH	M-8330-ADD-33	20
1,3-Dinitroglycerin	623-87-0	100 µg/mL	AcCN:MeOH	M-8330-ADD-34	20
2,4-Dinitrotoluene ♦	121-14-2	1 mg/mL	AcCN:MeOH	M-8330-02	15
		0.1 mg/mL	AcCN:MeOH	M-8330-02-0.1X	20
2,6-Dinitrotoluene ♦	606-20-2	1 mg/mL	AcCN:MeOH	M-8330-03	15
		0.1 mg/mL	AcCN:MeOH	M-8330-03-0.1X	20
3,4-Dinitrotoluene	610-39-9	1 mg/mL	MeOH	M-8330-IS	15
3,5-Dinitrotoluene ♦	618-85-9	100 µg/mL	AcCN:MeOH	M-8330-ADD-39	75
EGDN	628-96-6	0.1 mg/mL	AcCN	M-8330-ADD-5	26
Erythritol tetranitrate (ETN) **NEW**	7297-25-8	0.1 mg/mL	AcCN	M-8330-ADD-47	20
		1 mg/mL	AcCN	M-8330-ADD-47-10X	30
Guanidine nitrate	506-93-7	0.1 mg/mL	MeOH	M-8330-ADD-10	20
Hexahydro-1,3-trinitroso-1,3,5-triazine **NEW**	13980-04-6	0.1 mg/mL	AcCN	M-8330-ADD-46	20
		1 mg/mL	AcCN	M-8330-ADD-46-10X	30
Hexanitrodiphenylamine	131-73-7	100 µg/mL	AcCN:MeOH	M-8330-ADD-37	40
Hexanitrostilbene (HNS) ♦	20062-22-0	0.1 mg/mL	AcCN	M-8330-ADD-26	60
Hexamethylenetriperoxide diamine (HMTD)	283-66-9	0.1 mg/mL	AcCN	M-8330-ADD-25	75
HMX	2691-41-0	1 mg/mL	AcCN:MeOH	M-8330-04	30
		0.1 mg/mL	AcCN:MeOH	M-8330-04-0.1X	20
Hydrazine	302-01-2	0.1 mg/mL	MeOH	M-8330-ADD-8	20
2-Hydroxylamino-4,6-dinitrotoluene ♦ (3 month stability)		0.1 mg/mL	AcCN	M-8330-ADD-18 ❄	115
4-Hydroxylamino-2,6-dinitrotoluene ♦ (3 month stability)		0.1 mg/mL	AcCN	M-8330-ADD-20 ❄	115
Nitrobenzene ♦	98-95-3	1 mg/mL	AcCN:MeOH	M-8330-06	15
		0.1 mg/mL	AcCN:MeOH	M-8330-06-0.1X	20
N-Nitrodimethylamine	4164-28-7	100 µg/mL	AcCN	M-8330-ADD-40	75
Nitroglycerin	55-63-0	0.1 mg/mL	EtOH	M-8330-ADD-1	20
		1.0 mg/mL	EtOH:MeOH (97:3)	M-8330-ADD-1-10X	30
1-Nitroglycerin	624-43-1	100 µg/mL	AcCN:MeOH	M-8330-ADD-31	20
2-Nitroglycerin	620-12-2	100 µg/mL	AcCN:MeOH	M-8330-ADD-32	20
Nitroguanidine	556-88-7	0.1 mg/mL	MeOH	M-8330-ADD-6	20
Nitromethane	75-52-5	0.1 mg/mL	MeOH	M-8330-ADD-7	20
2-Nitrotoluene ♦	88-72-2	1 mg/mL	AcCN:MeOH	M-8330-07	15
		0.1 mg/mL	AcCN:MeOH	M-8330-07-0.1X	15
3-Nitrotoluene ♦	99-08-1	1 mg/mL	AcCN:MeOH	M-8330-08	15
		0.1 mg/mL	AcCN:MeOH	M-8330-08-0.1X	15
4-Nitrotoluene ♦	99-99-0	1 mg/mL	AcCN:MeOH	M-8330-09	15
		0.1 mg/mL	AcCN:MeOH	M-8330-09-0.1X	15
PETN	78-11-5	0.1 mg/mL	MeOH	M-8330-ADD-2	20
		1 mg/mL	MeOH	M-8330-ADD-2-10X	30
Picramic acid	831-52-7	100 µg/mL	AcCN:MeOH	M-8330-ADD-22	30
Picric acid	88-89-1	0.1 mg/mL	AcCN:MeOH	M-8330-ADD-3	20
Propyleneglycol dinitrate	6423-43-4	100 µg/mL	MeOH	M-8330-ADD-35	35
PYX	38082-89-2	0.1 mg/mL	AcCN	M-8330-ADD-11	20
RDX	121-82-4	1 mg/mL	AcCN:MeOH	M-8330-05	30
		0.1 mg/mL	AcCN:MeOH	M-8330-05-0.1X	20
TATP	17088-37-8	0.1 mg/mL	AcCN	M-8330-ADD-24 ❄	95
TEGDN		0.1 mg/mL	AcCN:MeOH	M-8330-ADD-41-R1	30
2,2',6,6'-Tetranitro-4,4'-azotoluene ♦		0.1 mg/mL	AcCN	M-8330-ADD-17	100
4,4',6,6'-Tetranitro-2,2'-azotoluene ♦		0.1 mg/mL	AcCN	M-8330-ADD-19	100
2,2',6,6'-Tetranitro-4,4'-azoxytoluene ♦		0.1 mg/mL	AcCN	M-8330-ADD-15	75
Tetryl	479-45-8	1 mg/mL	AcCN:MeOH	M-8330-10	30
		0.1 mg/mL	AcCN:MeOH	M-8330-10-0.1X	20
TNT	118-96-7	1 mg/mL	AcCN:MeOH	M-8330-11	25
		0.1 mg/mL	AcCN:MeOH	M-8330-11-0.1X	20
1,3,5-Triamino-2,4,6-trinitrobenzene	3058-38-6	40 µg/mL	DMF	M-8330-ADD-14-DMF	40
2,4,6-Triaminotoluene trihydrochloride (TNT free)	634-87-7	5 mg	NEAT	M-8330-ADD-23N-5MG	150
Trimethylolethane trinitrate	3032-55-1	100 µg/mL	AcCN:MeOH	M-8330-ADD-28	30
1,3,5-Trinitrobenzene ♦	99-35-4	1 mg/mL	AcCN:MeOH	M-8330-12	20
		0.1 mg/mL	AcCN:MeOH	M-8330-12-0.1X	20
2,4,6-Trinitroresorcinol	82-71-3	1 mg/mL	AcCN:MeOH	M-8330-ADD-29	60

Widest selection of Explosives and their Metabolites

HMTD, TATP & HNS

EXCLUSIVELY from AccuStandard

Matrix Key

(SOLUTIONS in 1 mL **NEATS** in mg)

AcCN:MeOH in (1:1 ratio)
AcCN Acetonitrile
DMF Dimethyl formamide
EtOH Ethanol
MeOH Methanol

♦ TNT Metabolites

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Method 8330 Multi-Component Formulations for Explosive Analysis

The following A and B mixes provide better resolution between possible coeluting analytes, assisting the chemist to optimize the HPLC system. We suggest when first performing Method 8330 development, to purchase the high concentration 14 x 1 mL set "M-8330-R-10X-SET".

Mix A

M-8330A ❄ — **$ 40 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1) — 7 comps.
M-8330A-10X ❄ — **$ 50 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 7 comps.

- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- HMX
- Nitrobenzene
- RDX
- 1,3,5-Trinitrobenzene
- TNT

M-8330A-R ❄ — **$ 45 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1) — 8 comps.
M-8330A-R-10X ❄ — **$ 55 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 8 comps.

- 2-Amino-4,6-dinitrotoluene
- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- HMX
- Nitrobenzene
- RDX
- 1,3,5-Trinitrobenzene
- TNT

Composite Explosive Mixture

M-8330-R — **$ 110 / 1 x 1 mL**
M-8330-R-PAK — ***SAVE 20%*** **$ 440 / 5 x 1 mL**
1.0 mg/mL each in MeOH:AcCN (1:1) — 14 comps.

- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- HMX
- RDX
- Nitrobenzene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene
- Tetryl
- TNT
- 1,3,5-Trinitrobenzene
- 2-Amino-4,6-dinitrotoluene
- 4-Amino-2,6-dinitrotoluene

Internal Standard

M-8330-IS — **$ 15 / 1 x 1 mL**
M-8330-IS-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in MeOH

- 3,4-Dinitrotoluene

Explosives by HPLC Set

M-8330-R-SET ❄ — **$ 175 / 14 x 1 mL**
Each at 100 µg/mL in AcCN:MeOH (1:1)
M-8330-R-10X-SET ❄ — **$ 210 / 14 x 1 mL**
Each at 1000 µg/mL in AcCN:MeOH (1:1)

- 1,3-Dinitrobenzene (01)
- 2,4-Dinitrotoluene (02)
- 2,6-Dinitrotoluene (03)
- HMX (04)
- RDX (05)
- Nitrobenzene (06)
- 2-Nitrotoluene (07)
- 3-Nitrotoluene (08)
- 4-Nitrotoluene (09)
- Tetryl (10)
- TNT (11)
- 1,3,5-Trinitrobenzene (12)
- 2-Amino-4,6-dinitrotoluene (13)
- 4-Amino-2,6-dinitrotoluene (14)

Gun Surveillance Standard

EXP-GSS — **$ 35 / 1 x 1 mL**
At stated conc. (µg/mL) in AcCN — 9 comps.

Dimethyl phthalate	200	2,2'-Dinitrodiphenylamine	50
2,4'-Dinitrodiphenylamine	50	4,4'-Dinitrodiphenylamine	50
2,4-Dinitrodiphenylamine	50	Diphenylamine	200
2-Nitrodiphenylamine	50	N-Nitrosodiphenylamine	75
4-Nitrodiphenylamine	50		

Mix B

M-8330B ❄ — **$ 25 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1) — 5 comps.
M-8330B-10X ❄ — **$ 40 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 5 comps.

- Tetryl
- 2,6-Dinitrotoluene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene

M-8330B-R ❄ — **$ 30 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1) — 7 comps.
M-8330B-R-10X ❄ — **$ 45 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 7 comps.

- 2-Amino-4,6-dinitrotoluene
- 4-Amino-2,6-dinitrotoluene
- Tetryl
- 2,6-Dinitrotoluene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene

M-8330B-R2 ❄ — **$ 30 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1) — 6 comps.
M-8330B-R2-10X ❄ — **$ 40 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 6 comps.

- 4-Amino-2,6-dinitrotoluene
- Tetryl
- 2,6-Dinitrotoluene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene

Surrogate Standard

M-8330-SS — **$ 20 / 1 x 1 mL**
1.0 mg/mL in MeOH

- 1,2-Dinitrobenzene

DIN 38407-21 Explosives

Examination of water, wastewater, and sludge for determination of selected explosives and related compounds by HPLC with UV detection

DIN38407-21-A — **$ 95 / 1 x 1 mL**
10 µg/mL each in MeOH — 12 comps.

- Picric acid
- HMX
- RDX
- Tetryl
- EGDN
- DEGDN
- Nitroglycerin
- TNT
- 2-Nitrotoluene
- PETN
- 4-Nitrotoluene
- 3-Nitrotoluene

DIN 38407-21 Related Compounds

Examination of water, wastewater, and sludge for determination of selected explosives and related compounds by HPLC with UV detection

DIN38407-21-B — **$ 65 / 1 x 1 mL**
10 µg/mL each in MeOH:AcCN (98:2) — 8 comps.

- 1,3,5-Trinitrobenzene
- 1,3-Dinitrobenzene
- 4-Amino-2,6-dinitrotoluene
- 2,2',4,4',6,6'-Hexanitrodiphenylamine
- 2-Amino-4,6-dinitrotoluene
- 2,6-Dinitrotoluene
- 2,4-Dinitrotoluene
- Diphenylamine

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Explosive Standards

Method 529 Explosive & Related Compounds by SPE & Capillary Column GC/MS

Method 529 Calibration Curve

All in µg/mL in Ethyl acetate

M-529-	01	02	03	04	05	06	07	08	09
2-Amino-4,6-dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
4-Amino-2,6-dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
3,5-Dinitroaniline	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
1,3-Dinitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2,4-Dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2,6-Dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
RDX	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
Nitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
3-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
4-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
1,3,5-Trinitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
Tetryl	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
TNT	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10

Full Scan MS Calibration Set

M-529-MS-SET **$ 325 / 6 x 1 mL**
M-529-03, M-529-05, M-529-06, M-529-07, M-529-08, M-529-09

SIM Calibration Set

M-529-SIM-SET **$ 325 / 7 x 1 mL**
M-529-01, M-529-02, M-529-03, M-529-04, M-529-05, M-529-06, M-529-07

Storage Condition.: Freeze (<-10°C)

Internal Standard Stock Solution

M-529-IS **$ 20 / 1 x 1 mL**
2.0 mg/mL Ethyl acetate

3,4-Dinitrotoluene

Internal Standard Fortification Solution

M-529-ISFS **$ 90 / 1 x 1 mL**
200 µg/mL each in Ethyl acetate 14 comps.

2-Amino-4,6-dinitrotoluene
4-Amino-2,6-dinitrotoluene
3,5-Dinitroaniline
1,3-Dinitrobenzene
2,4-Dinitrotoluene
2,6-Dinitrotoluene
RDX
Nitrobenzene
2-Nitrotoluene
3-Nitrotoluene
4-Nitrotoluene
1,3,5-Trinitrobenzene
Tetryl
TNT

Surrogate Analyte Stock Solutions

M-529-SS1 **$ 55 / 1 x 1 mL**
M-529-SS1-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
1000 µg/mL each in MeOH 2 comps.

1,3,5-Trimethyl-2-nitrobenzene
1,2,4-Trimethyl-5-nitrobenzene

M-529-SS2 **$ 15 / 1 x 1 mL**
M-529-SS2-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2

Nitrobenzene-d_5

Surrogate Analyte Fortification Solution

M-529-SAFS **$ 60 / 1 x 1 mL**
100 µg/mL each in MeOH 3 comps.

1,3,5-Trimethyl-2-nitrobenzene
1,2,4-Trimethyl-5-nitrobenzene
Nitrobenzene-d_5

Method 8095 Explosives by GC/ECD

This method is a companion to EPA Method 8330, utilizing the sensitivity and selectivity of the ECD.

Explosive Stock Solution A

M-8095-SSA-100X **$ 55 / 1 x 1 mL**
M-8095-SSA-100X-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
100 µg/mL each in AcCN:MeOH (1:1) 10 comps.

2-Amino-4,6-dinitrotoluene
4-Amino-2,6-dinitrotoluene
1,3-Dinitrobenzene
2,6-Dinitrotoluene
2,4-Dinitrotoluene
1,3,5-Trinitrobenzene
TNT
RDX
Tetryl
HMX

Explosive Stock Solution B

M-8095-SSB-100X **$ 55 / 1 x 1 mL**
M-8095-SSB-100X-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
At stated conc. in AcCN:MeOH (1:1) 7 comps.

Nitrobenzene	(500 µg/mL)	Nitroglycerin	(500 µg/mL)
3-Nitrotoluene	(500 µg/mL)	PETN	(500 µg/mL)
2-Nitrotoluene	(500 µg/mL)	3,5-Dinitroaniline	(100 µg/mL)
4-Nitrotoluene	(500 µg/mL)		

Explosive Surrogate Standards

M-8095-SS-01 **$ 15 / 1 x 1 mL**
M-8095-SS-01-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
100 µg/mL in AcCN

3,4-Dinitrotoluene

M-8095-SS-02 **$ 20 / 1 x 1 mL**
M-8095-SS-02-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
100 µg/mL in AcCN

2-Methyl-4-nitroaniline

M-8095-SS-03 **$ 50 / 1 x 1 mL**
M-8095-SS-03-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
10 µg/mL in AcCN

2,5-Dinitrotoluene



Plastic Additives

Plastics and other polymeric materials have become indispensable in our everyday lives. Although they offer many benefits, hazardous chemicals may be present in these materials. These hazardous materials can be introduced either intentionally as additives, or unintentionally as pollutants.

58 New Plastic Additive Standards

AccuStandard has collected or synthesized many of these polymer adjuncts and is pleased to present them in this newest unique product line as certified reference materials for monitoring these chemicals.

The occurrence, toxicity and analytical methods used in the detection, monitoring (for both presence and levels) of these chemical classes and individual compounds within these classes are more thoroughly described in the book the "Handbook for the Chemical Analysis of Plastic and Polymer Additives" (published in 2007 by CRC Press). Both manufacturers and analytical laboratories will find the CRC book to be an authoritative source of information that compliments this catalog.

Calibrating with Certified Standards adds an additional layer of confidence in the analysis that can aid in meeting regulations, protecting in challenges from governmental regulations, and providing protection from legal issues that could be raised by consumers.

Below find a list of regulations that require analysis of many of these additives:

- EU Directives 2002/96/EC and 2002/95/EC WEEE (Waste Electrical and Electronic Equipment) that establishes limits for the content of a product that must be recyclable or reusable.
- EU Directive 2003/11/EC RoHS (restriction of the use of certain hazardous substances) restricting the use of six toxins from most electronic & electrical equipment.
- EU Directive 2002/72/EC relating to plastic materials and articles intended to come in contact with foodstuffs.
- EU Directive 2002/61/EC aryl amine breakdown products in azo dyes.
- EU Directive 67/548/EEC relating to the packaging of dangerous substances.
- FDA and The United States Code of Federal Regulations (CFR) - 21 CFR Parts 175-178 that regulate adhesives, components of coatings, paper and paperboard components, polymers and adjuvants and production aids.
- United States Environmental Protection Agency (USEPA) - Methods 606, 506-1 and 8061 regulating phthalates and adipates.

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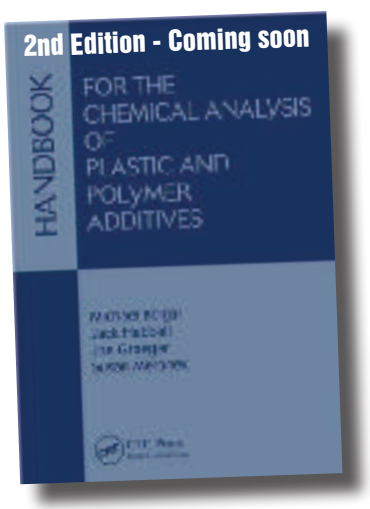


For chemical structure, formula and molecular weight, visit our website, to download our catalog.

PolyAdd ✔ Check™

The perfect companion for your analysis!

This reference book contains the compounds in this catalog, with important reference data to aid in testing and compliance.



Both the catalog and book are organized into classes by additive type. Manufacturers can easily find Standards that match their particular application and product formulation for the following product categories:

- Medical Devices
- Food Packaging
- Pharmaceutical Packaging
- Toys
- Wire and Cable
- etc.

...as well as information to help with real world examples, tips for analysis in challenging matrices, and much, much more!

The new book will be available soon.

Part Number: PLAS-CRC-BOOK2

see inside back cover for ordering details

Each Compound has:

Chemical Information
- Structure
- CAS Number (where applicable)
- RTECS Number (where available)
- Formula
- Molecular Weight
- IUPAC Name, other common names and some popular brand names

Physical Properties
- Appearance
- Melting and Boiling Points
- Stability
- Solubilities in several common solvents

Other Important Information
- Application
- Regulatory
- Environmental Impact
- Point of Release
- Toxicological Data

Analytical Data
- Mass Spectrum with key Ions tabulated
- Chromatogram with conditions

Plastic Additives

Accelerants

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Accelerator BBTS	N-(1,1-dimethylethyl)-2-benzo thiazolesulfenamide	95-31-8	PLAS-AC-003N	$ 50	PLAS-AC-003S	$ 18
Accelerator CBTS **NEW**	N-cyclohexyl-2-benzothioazole sulfenamide	95-33-0	PLAS-AC-007N	50	----------	---
Accelerator EZ & EZ-SP	Zinc diethyldithiocarbamate	14324-55-1	PLAS-AC-006N	50	PLAS-AC-006S	18
Accelerator MBT, MBT/MG	2-Mercaptobenzothiazole	149-30-4	PLAS-AC-001N	50	PLAS-AC-001S	18
Activator OT Urea	Urea	57-13-6	PLAS-AC-005N	50	PLAS-AC-005S-A	18
Akroform ETU-22 PM	Ethylene thiourea	96-45-7	PLAS-AC-002N	50	PLAS-AC-002S ☆	18
Cure-Rite® IBT	Tetraisobutylthiuram disulfide	3064-73-1	PLAS-AC-004N	50	PLAS-AC-004S	18

Antidegradants

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Akrochem® Antiox 12	Butylated reaction product of p-cresol and dicyclopentadiene	68610-51-5	PLAS-AD-001N	$ 50	PLAS-AD-001S	$ 18
Ethanox® 314	1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	27676-62-6	PLAS-AX-084N	50	PLAS-AX-084S	18
Ethanox® 703	2-,6-Di-tert-butyl-N-N-dimethylamino-p-cresol	88-27-7	PLAS-AX-085N	50	PLAS-AX-085S	18
Santoflex® IPPD	N-phenyl-N'-propan-2-yl-benzene-1,4-diamine	101-72-4	PLAS-AD-003N	50	PLAS-AD-003S ☆	18
Santoflex® 6PPD	N-phenyl-N'-propan-2-yl-benzene-1,4-diamine	101-72-4	PLAS-AD-004N	50	PLAS-AD-004S	18
Santoflex® 77PD	N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine	3081-14-9	PLAS-AD-002N	50	PLAS-AD-002S	18

Antifoams

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
SF100	Dimethyl silicone fluid	9016-00-6	PLAS-AF-001N	$ 50	PLAS-AF-001S	$ 18

Antioxidants

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Alkanox® P27	bis(2,4-Di-tert-butylphenyl)pentaerythritol diphosphate and magnesium aluminum hydroxy carbonate hydrate	26741-53-7 / 11097-59-9	PLAS-AX-032N	$ 50	----------	---
Alkanox® TNPP	Tris(mono-nonylphenyl) phosphite with up to 1% triisopropanol amine	26523-78-4	PLAS-AX-077N	50	PLAS-AX-077S	$ 18
Alox® PP18 **NEW**	Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propanoate	2082-79-3	PLAS-AX-114N	50	----------	---
Antioxidant 60	2H-benzimidazole-2-thione, 1,3-di-hydro-4(or 5)-methyl	53988-10-6	PLAS-AX-019N	50	PLAS-AX-019S-M	18
Antioxidant S	Benzenamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	68411-46-1	PLAS-AX-057N	50	PLAS-AX-057S	18
2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol ***NEW***		3147-75-9	PLAS-AX-094N	50	----------	---
BLS® 234 **NEW**	2-[2-Hydroxy-3,5-di-(1,1-dimethylbenzyl)]-2H-benzotriazole	70321-86-7	PLAS-AX-088N	50	----------	---
BLS® 292 **NEW**	bis(1,2,2,6,6-pentamethyl-4-piperidinyl)sebacate and Methyl(1,2,2,6,6-pentamethyl-4-piperidinyl)sebacate	41556-26-7 / 8219-37-7	PLAS-AX-089N	50	----------	---
BLS® 1622 **NEW**	Dimethyl succinate polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidine ethanol	65447-77-0	PLAS-AX-096N	50	----------	---
BLS® 1944 **NEW**	Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-s-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]]hexamethylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]	70624-18-9	PLAS-AX-090N	50	----------	---
BNX 1077 **NEW**	Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, isotridecyl ester	847488-62-4	PLAS-AX-087N	50	----------	---
BNX 1225TPR **NEW**	Blend of BNX® 1010, Benefos® 1680 and SIS Block Copolymer	6683-19-8/31570-04-4/ 25038-32-8	PLAS-AX-091N	50	----------	---
2-tert-Butyl-6-(5-chloro-2H-benzotriazol-2-yl)-4-methylphenol **NEW**		3896-11-5	PLAS-AX-093N	50	----------	---
4,4'-Butylidenebis(6-tert-butyl-m-cresol) **NEW**		85-60-9	PLAS-AX-105N	50		
Cyanox® 1212	Lauryl stearylthiopropionate	13103-52-1	PLAS-AX-047N	50	PLAS-AX-047S	18
Cyanox® 1790	1,3,5-Tris(4-tert-butyl-3-hydroxy-2,6-dimethylbenzyl)-1,3,5-triazine-2,4,6-(1h, 3h,5h)-trione	40601-76-1	PLAS-AX-005N	50	PLAS-AX-005S	18
Cyanox® 2246	2,2'-Methylene-bis-(4-methyl-6-tert-butyl-phenol)	119-47-1	PLAS-AX-013N	50	PLAS-AX-013S	18
Cyanox® 425	2,2'-Methylene-bis-(4-ethyl-6-tert-butyl-phenol)	88-24-4	PLAS-AX-012N	50	PLAS-AX-012S	18
Cyanox® LTDP	Dilaurylthiopropionate	123-28-4	PLAS-AX-041N	50	PLAS-AX-041S	18
Cyanox® STDP	Distearylthiopropionate	693-36-7	PLAS-AX-044N	50	PLAS-AX-044S	18
Dibenzylhydroxylamine **NEW**		621-07-8	PLAS-AX-092N	50	----------	---
3,9-Bis(2,4-dicumylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5,5]undecane **NEW**		154862-43-8	PLAS-AX-111N	50	----------	---
Diethyl 3,5-Di-tert-butyl-4-hydroxybenzyl phosphonate **NEW**		976-56-7	PLAS-AX-110N	50	----------	---
N,N'-Diethylthiourea **NEW**	1,3-Diethyl-2-thiourea	105-55-5	PLAS-AX-103N	50	----------	---
O,O'-Dioctadecylpentaerythritol bis(phosphite) **NEW**		3806-34-6	PLAS-AX-108N	50	----------	---
Dipentamethylenethiuram tetrasulfide **NEW**		120-54-7	PLAS-AX-104N	50	----------	---
1,3-Diphenyl-2-thiourea **NEW**		102-08-9	PLAS-AX-100N	50	----------	---
Distyryl biphenyl **NEW**		27344-41-8	PLAS-AX-099N	50	----------	---
1,3-Di-o-tolylguanidine **NEW**		97-39-2	PLAS-AX-101N	50	----------	---
2,6-Di-tert-butyl-4-ethylphenol **NEW**		4130-42-1	PLAS-AX-107N	50	----------	---
2,6-Di-tert-butylphenol **NEW**		128-39-2	PLAS-AX-112N	50	----------	---
Ethanox® 310	Pentaerythritol tetrakis (3-(3,5-di-t-butyl-4-hydroxyphenyl)propionate	6683-19-8	PLAS-AX-086N	50	PLAS-AX-086S	18
Ethanox® 323	Nonylphenol disulfide oligomer		PLAS-AX-082N	50	PLAS-AX-082S	18
Ethanox® 330	1,3,5-Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl) benzene	1709-70-2	PLAS-AX-021N	50	PLAS-AX-021S	18
Ethanox® 376	3,5-Di-tert-butyl-4-hydroxyhydrocinnamic acid, octadecyl ester	2082-79-3	PLAS-AX-054N	50	PLAS-AX-054S	18
Ethanox® 702	4,4'-Methylenebis(2,6-di-tert-butylphenol)	118-82-1	PLAS-AX-025N	50	PLAS-AX-025S	18

Antioxidants continued on next page



Trade-named products are usually technical mixtures.

Solutions at 1000 µg/mL in Hexane, except where indicated
☆ Hexane:Acetone, -A Acetone, -T Toluene, -M Methanol, - DMSO

Antioxidants (Continued)

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Ethaphos® 368	Tris(2,4-di-tert-butylphenyl) phosphite	31570-04-4	PLAS-AX-074N	50	PLAS-AX-074S	$ 18
2,2'-Ethylidene-bis(4,6-di-tert-butylphenol) **NEW**		35958-30-6	PLAS-AX-106N	50	----------	---
2-(2'-Hydroxy-3',5'-di-tert-amylphenyl) benzotriazole **NEW**		25973-55-1	PLAS-AX-095N	50	----------	---
Irganox® 245	Triethyleneglycol bis[3-(3'-tert-butyl-4'hydroxy-5'-methylphenol)propionate]	36443-68-2	PLAS-AX-070N	50	PLAS-AX-070S	18
Irganox 259	Hexamethylene bis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	35074-77-2	PLAS-AX-045N	50	PLAS-AX-045S	18
Irganox 565	2,4-bis(n-Octylthio)-6-(4-hydroxy-3,5-di-tert-butylanilino)-1,3,5-triazine	991-84-4	PLAS-AX-014N	50	PLAS-AX-014S	18
Irganox 1035	Thiodiethylene bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamate)	41484-35-9	PLAS-AX-069N	50	PLAS-AX-069S	18
Irganox 1081	6,6'-Di-tert-butyl-2,2'-thiodi-p-cresol	90-66-4	PLAS-AX-080N	50	PLAS-AX-080S	18
Irganox 1098	N,N'-1,6-Hexanediyl bis[3,5-bis(1,1-dimethylethyl)-4-hydroxy-benzenepropanamide]	23128-74-7	PLAS-AX-050N	50	PLAS-AX-050S ☆	18
Irganox 1425 WL	Ethyl 3,5-di-tert-butyl-4-hydroxybenzylphosphonate, calcium salt and polyethylene-wax mixture	65140-91-2 / 9002-88-4	PLAS-AX-079N	50	----------	---
Irganox 3125	3,5-Di-tert-butyl-4-hydroxyhydrocinnamic ester with 1,3,5-tris[2-hydroxyethyl]-s-triazine-2,4,6[1H,3H,5H]-trione	34137-09-2	PLAS-AX-020N	50	PLAS-AX-020S ☆	18
Irganox 3144 FF	1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	27676-62-6	PLAS-AX-078N	50	PLAS-AX-078S	18
Irganox E 201	alpha-Tocopherol	10191-41-0	PLAS-AX-027N	50	PLAS-AX-027S	18
Irganox MD 1024	1,2-bis(3,5-Di-tert-butyl-4-hydroxyhydrocinnamoyl)hydrazide	32687-78-8	PLAS-AX-001N	50	PLAS-AX-001S ☆	18
Isonox® 132	2,6-Di-tert-butyl-4-sec-butylphenol	17540-75-9	PLAS-AX-018N	50	PLAS-AX-018S	18
Isonox 232	2,6-Di-tert-butyl-4-nonylphenol	4306-88-1	PLAS-AX-063N	50	PLAS-AX-063S	18
Lowinox® AH25	2,5-bis(1,1-Dimethylpropyl)-1,4-benzenediol	79-74-3	PLAS-AX-016N	50	PLAS-AX-016S	18
Lowinox CPL	Polymeric sterically hindered phenol	68610-51-5	PLAS-AX-059N	50	PLAS-AX-059S	18
Lowinox TBM-6	4,4'-Thiobis(2-tert-butyl-5-methylphenol)	96-69-5	PLAS-AX-024N	50	PLAS-AX-024S	18
Markstat® 60	Polyethylene glycol ether (<20% $NaClO_4$)		PLAS-AX-028N	50	PLAS-AX-028S	18
Naugard® 412S	beta-Laurylthiopropionate	29598-76-3	PLAS-AX-030N	50	PLAS-AX-030S	18
Naugard 445	4,4'-bis(alpha,alpha-Dimethylbenzyl)diphenylamine	10081-67-1	PLAS-AX-022N	50	PLAS-AX-022S	18
Naugard 635 **NEW**	4-(1-phenylethyl)-N-[4-(1-phenylethyl)phenyl]aniline	68442-68-2	PLAS-AX-113N	50	----------	---
Naugard 956	Proprietary blend of primary and secondary antioxidants		PLAS-AX-060N	50	PLAS-AX-060S-T	18
Naugard A *	Acetone diphenylamine condensation products	68412-48-6	PLAS-AX-026N	50	PLAS-AX-026S	18
Naugard B-25	1:1 blend of Naugard® 10 and Naugard® 524	6683-19-8 / 31570-04-4	PLAS-AX-061N	50	PLAS-AX-061S	18
Naugard BHT	2,6-Di-tert-butyl-4-methylphenol	128-37-0	PLAS-AX-017N	50	PLAS-AX-017S	18
Naugard HM-22	Blend of phenolic primary and diphenylamine secondary antioxidants (Naugards 76 and 445)	10081-67-1 / 2082-79-3	PLAS-AX-033N	50	PLAS-AX-033S	18
Naugard J	N,N'-Diphenyl-p-phenylenediamine	74-31-7	PLAS-AX-048N	50	PLAS-AX-048S ☆	18
Naugard NBC	Nickel dibutyl dithiocarbamate	13927-77-0	PLAS-AX-051N	50	PLAS-AX-051S	18
Naugard PANA	N-Phenyl-1-naphthylamine	90-30-2	PLAS-AX-058N	50	PLAS-AX-058S	18
Naugard PHR	Tris(mono-nonylphenyl) phosphite with up to 1% triisopropanol amine	26523-78-4	PLAS-AX-076N	50	PLAS-AX-076S	18
Naugard PS-30	Benzenamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	68411-46-1	PLAS-AX-038N	50	PLAS-AX-038S	18
Naugard PS-35	Butylated, octylated diphenylamine 2,6 di-tert-butyl-4-sec-butyl phenol		PLAS-AX-046N	50	PLAS-AX-046S	18
Naugard Q Extra	1,2-Dihydro-2,2,4-trimethylquinoline (polymerized)	26780-96-1	PLAS-AX-002N	50	PLAS-AX-002S	18
Naugard RM-51	Tris(mono-nonylphenyl)phosphite,2,2'-methylene bis (4-methyl-6-nonyl phenol)	26523-78-4	PLAS-AX-034N	50	PLAS-AX-034S	18
Naugard Super Q	1,2-Dihydro-2,2,4-trimethylquinoline (polymerized)	147-47-7	PLAS-AX-003N	50	PLAS-AX-003S	18
Naugard XL-1	2,2'-Oxamidobis[ethyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	70331-94-1	PLAS-AX-008N	50	PLAS-AX-008S ☆	18
Propyl gallate **NEW**	propyl 3,4,5-trihydroxybenzoate	121-79-9	PLAS-AX-109N	50	----------	---
Santicizer® 278	Benzyl 3-isobutyrloxy-1-isopropyl-2,2-dimethylpropyl phthalate	16883-83-3	PLAS-AX-029N	50	PLAS-AX-029S	18
bis(2,2,6,6-Tetramethyl-4-piperidyl) sebacate **NEW**		52829-07-9	PLAS-AX-097N	50	----------	---
2,2'-(2,5-thiophenediyl)bis(5-tert-butylbenzoxazole) **NEW**		7128-64-5	PLAS-AX-098N	50	----------	---
Ultranox® 626	bis(2,4-Di-tert-butylphenyl)pentaerythritol diphosphite	26741-53-7	PLAS-AX-031N	50	PLAS-AX-031S	18

Antiozonants

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Antiozonant NIBUD	Nickel dibutyl dithiocarbamate	13927-77-0	PLAS-AZ-001N	$ 50	PLAS-AZ-001S	$ 18
Akrowax™ 195 **NEW**	Petroleum Wax	121-79-9	PLAS-AZ-002N	$ 50	----------	---

Blowing Agents, Plasticizers

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
CPW-100	Chlorinated paraffin wax	63449-39-8	PLAS-BA-001N	$ 50	PLAS-BA-001S	$ 18
Celogen® AZ	Carbamoyliminourea	123-77-3	PLAS-BA-002N **	50	PLAS-BA-002S-DMSO	18
Celogen® RA **NEW**	[(4-methylphenyl)sulfonylamino]urea	10396-10-8	PLAS-BA-003N	50	----------	---

PolyAdd ✔ Check™

** This product can not ship by air.

Plastic Additives

Coupling Agents

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Silquest® A-187	gamma-Glycidoxypropyltrimethoxysilane	2530-83-8	PLAS-CA-004N	$ 50	PLAS-CA-004S	$ 18
Silquest A-1100	gamma-Aminopropyltriethoxysilane	919-30-2	PLAS-CA-002N	50	PLAS-CA-002S	18
Silquest A-1102	gamma-Aminopropyltriethoxysilane (Tech grade)	919-30-2	PLAS-CA-003N	50	PLAS-CA-003S	18
Silquest A-1289	bis-(Triethoxysilypropyl)tetrasulfane	211519-85-6	PLAS-CA-001N	50	PLAS-CA-001S	18
Silquest A-137	Octyltriethoxysilane	2943-75-1	PLAS-CA-005N	50	PLAS-CA-005S	18
Silquest A-2171	Vinylmethyldimethoxysilane	16753-62-1	PLAS-CA-006N	50	PLAS-CA-006S	18

Cross-Linking Agents

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
F-300, F-1000, F-1500, F-2000, F-3000	Stearic acid	57-11-4	PLAS-CL-006N	$ 50	PLAS-CL-006S	$ 18
Perkacit® DPG	N,N'-Diphenylguanidine	102-06-7	PLAS-CL-004N	50	PLAS-CL-004S ☆	18
Perkacit MBT	2-Mercaptobenzothiazole	149-30-4	PLAS-CL-002N	50	PLAS-CL-002S	18
Perkacit MBTS	2,2'-Dithiobis(benzothiazole)	120-78-5	PLAS-CL-001N	50	PLAS-CL-001S	18
Perkacit NDBC	Nickel dibutyl dithiocarbamate	13927-77-0	PLAS-CL-005N	50	PLAS-CL-005S	18
Perkacit ZDEC	Zinc diethyldithiocarbamate	14324-55-1	PLAS-CL-007N	50	PLAS-CL-007S	18
Resimene® 3520	Hexamethoxy methyl melamine	3089-11-0	PLAS-CL-003N	50	PLAS-CL-003S	18

Flame Retardants (see PCB and PBDE section for complete listings)

Chemical Name	CAS No.	Matrix	Solution	Price/1 mL
Aroclor® 1016 (Tech Mix)	12674-11-2	1000 µg/mL in Hexane	C-216S-H-10X	$ 20
		50 mg	C-216N-50MG	40
Aroclor 1221 (Tech Mix)	11104-28-2	1000 µg/mL in Hexane	C-221S-H-10X	20
		50 mg	C-221N-50MG	50
Aroclor 1232 (Tech Mix)	11141-16-5	1000 µg/mL in Hexane	C-232S-H-10X	20
Aroclor 1242 (Tech Mix)	53469-21-9	1000 µg/mL in Hexane	C-242S-H-10X	20
		50 mg	C-242N-50MG	40
Aroclor 1248 (Tech Mix)	12672-29-6	1000 µg/mL in Hexane	C-248S-H-10X	20
		50 mg	C-248N-50MG	40
Aroclor 1254 (Tech Mix)	11097-69-1	1000 µg/mL in Hexane	C-254S-H-10X	20
		50 mg	C-254N-50MG	55
Aroclor 1260 (Tech Mix)	11096-82-5	1000 µg/mL in Hexane	C-260S-H-10X	20
		50 mg	C-260N-50MG	40
Aroclor 1262 (Tech Mix)	37324-23-5	1000 µg/mL in Hexane	C-262S-H-10X	20
		50 mg	C-262N-50MG	40
Aroclor 1268 (Tech Mix)	11100-14-4	1000 µg/mL in Hexane	C-298S-H-10X	20
Aroclor 5432 (Tech Mix)	63496-31-1	35 µg/mL in Toluene	T-432S	25
Aroclor 5442 (Tech Mix)	12642-23-8	35 µg/mL in Toluene	T-442S	25
Aroclor 5460 (Tech Mix)	11126-42-4	35 µg/mL in Toluene	T-440S	25
Aroclor 6050 (Tech Mix)		35 µg/mL in Toluene	T-6050S	25
Decabromodiphenyl ether	1163-19-5	50 µg/mL in Isooctane:Toluene	BDE-209S	50
Firemaster BP4A (4,4'-(1-methylethylidene) bis (2,6-dibromophenol))	79-94-7	100 µg/mL in Toluene	FRS-006S	15
		10 mg	FRS-006N	15
Halowax 1000 (26 %Cl)	58718-66-4	100 µg/mL in Methanol	N-1000S	20
Halowax 1001 (50 %Cl)	58718-67-5	100 µg/mL in Methanol	N-1001S	20
Halowax 1013 (56 %Cl)	1321-64-8	100 µg/mL in Methanol	N-1013S	20
Halowax 1014 (62 %Cl)	1335-87-1	100 µg/mL in Methanol	N-1014S	20
Halowax 1051 (70 %Cl)	2234-13-1	100 µg/mL in Methanol	N-1051S	20
Halowax 1099 (52 %Cl)	39450-05-0	100 µg/mL in Methanol	N-1099S	20
2,2',3,4,4',5',6-Heptabromodiphenyl ether	207122-16-5	50 µg/mL in Isooctane	BDE-183S	160
2,2',4,4'-Tetrabromodiphenyl ether	40088-47-9	50 µg/mL in Isooctane	BDE-047S	50
2,2',4,4',5-Pentabromodiphenyl ether	60348-60-9	50 µg/mL in Isooctane	BDE-099S	90
2,2',4,4',5,5'-Hexabromodiphenyl ether	36483-60-0	50 µg/mL in Isooctane	BDE-153S	90
2,2',4,4',5,6'-Hexabromodiphenyl ether	207122-15-4	50 µg/mL in Isooctane	BDE-154S	90
2,2',4,4',6-Pentabromodiphenyl ether	189084-64-8	50 µg/mL in Isooctane	BDE-100S	90
m-Terphenyl	92-06-8	100 mg	T-002N	13
o-Terphenyl	84-15-1	100 mg	T-001N	13
p-Terphenyl	92-94-4	100 mg	T-003N	13
Tetradecachloro-*m*-terphenyl		35 µg/mL in Toluene	T-005S	25
Tetradecachloro-*o*-terphenyl		35 µg/mL in Toluene	T-004S	25
Tetradecachloro-*p*-terphenyl		35 µg/mL in Toluene	T-006S	25

For chemical structure, formula and molecular weight, visit our website, to download our catalog.



PolyAdd ✔ Check™

Plastic Additives

Trade-named products are usually technical mixtures.

Solutions at 1000 µg/mL in Hexane, except where indicated
☆ Hexane:Acetone, -A Acetone, -T Toluene, -M Methanol, - DMSO, -D Dichloromethane

Plasticizers

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Benzoflex® 2-45	Diethylene glycol dibenzoate	120-55-8	PLAS-PL-015N	$ 50	PLAS-PL-015S	$ 18
Bisphenol A (BPA)	4,4'-Dihydroxy-2,2'-diphenylpropane	80-05-7			M-1626-01S	20
Celogen® SD-125	50% Azodicarbonamide in a phthalate plasticizer		PLAS-PL-009N	50	PLAS-PL-009S	18
Citroflex® 2	2-Hydroxy-1,2,3-propanetricarboxylic acid, triethyl ester	77-93-0	PLAS-PL-028N	50	PLAS-PL-028S	18
Citroflex 4	2-Hydroxy-1,2,3-propanetricarboxylic acid, tributyl ester	77-94-1	PLAS-PL-030N	50	PLAS-PL-030S	18
Citroflex A-2	2-(Acetyloxy)-1,2,3-propanetricarboxylic acid, triethyl ester	77-89-4	PLAS-PL-001N	50	PLAS-PL-001S	18
Citroflex A-4	2-Acetoxy-1,2,3-propanetricarboxylic acid, tributyl ester	77-90-7	PLAS-PL-002N	50	PLAS-PL-002S	18
Citroflex B-6	n-Butyltri-n-hexyl citrate	82469-79-2	PLAS-PL-025N	50	PLAS-PL-025S	18
Cresyl diphenyl phosphate **NEW**	(4-Methylphenyl) diphenyl phosphate	26444-49-5	PLAS-PL-043N	50	----------	---
Dibutyl phthalate		84-74-2	PLAS-PL-013N	50	PLAS-PL-013S	18
Dibutyl sebacate **NEW**	Dimethyl decanedioate	109-43-3	PLAS-PL-041N	50	----------	---
Diisooctyl phthalate **NEW**	bis(6-Methylheptyl)benzene-1,2-dicarboxylate	27554-26-3	PLAS-PL-051N	50	----------	---
Dimethyl adipate **NEW**	Dimethyl hexanedioate	627-93-0	PLAS-PL-050N	50	----------	---
Dimethyl sebacate **NEW**	Dimethyl decanedioate	106-79-6	PLAS-PL-040N	50	----------	---
Dioctyl phthalate (DOP)		117-81-7	PLAS-PL-019N	50	PLAS-PL-019S	18
Disflamoll® TKP **NEW**	Tricresyl phosphate	1330-78-5	PLAS-PL-053N	50	----------	---
Disflamoll® TP **NEW**	Triphenyl phosphate	115-86-6	PLAS-PL-049N	50	----------	---
2-Ethylhexyl sebacate **NEW**	bis(2-Ethylhexyl) decanedioate	122-62-3	PLAS-PL-044N	50	----------	---
Bis(2-Ethylhexyl) terephthalate **NEW**	bis(2-Ethylhexyl) benzene-1,4-dicarboxylate	6422-86-2	PLAS-PL-045N	50	----------	---
Hercoflex® 900	1,3-Isobenzofurandione, polymer with 2,2'-(1,2-ethanediylbis(oxy)) bis(ethanol), benzoate	68186-30-1	PLAS-PL-038N	50	PLAS-PL-038S	18
Hi-Point 90 (in DMP)	2-Butanone peroxide (in DMP)	1338-23-4	PLAS-PL-023N-R1	50	PLAS-PL-023S-R1	18
Hi-Point® PD-1	Methyl ethyl ketone peroxide solution	1338-23-4	PLAS-PL-024N	50	PLAS-PL-024S	18
Jayflex® 77	Diisoheptyl phthalate	71888-89-6	PLAS-PL-017N	50	PLAS-PL-017S	18
Jayflex DIDP	Diisodecyl phthalate	68515-49-1	PLAS-PL-016N	50	PLAS-PL-016S	18
Jayflex DINP	Diisononyl phthalate	68515-48-0	PLAS-PL-018N	50	PLAS-PL-018S	18
Jayflex DTDP	Diisotridecyl phthalate	68515-47-9	PLAS-PL-020N	50	PLAS-PL-020S	18
Jayflex L11P-E	Diundecyl phthalate	3648-20-2	PLAS-PL-021N	50	PLAS-PL-021S	18
Jayflex TINTM	Triisononyl trimellitate	53894-23-8	PLAS-PL-029N	50	PLAS-PL-029S	18
Laurex®	Zinc salt of lauric and related fatty acids		PLAS-PL-032N	50	PLAS-PL-032S	18
Markstat® 51	Poly(ethylene glycol) monolaurate	9004-81-3	PLAS-PL-003N	50	PLAS-PL-003S	18
Methyl O-Acetylricinoleate **NEW**	Methyl (Z)-12-acetyloxyoctadec-9-enoate	140-03-4	PLAS-PL-042N	50	----------	---
Morflex® 150	Dicyclohexyl phthalate	84-61-7	PLAS-PL-014N	50	PLAS-PL-014S	18
Morflex 190	Butylphthalyl butyl glycolate	85-70-1	PLAS-PL-008N	50	PLAS-PL-008S	18
Morflex 560	Tri-n-hexyl trimellitate	1528-49-0	PLAS-PL-031N	50	PLAS-PL-031S	18
Morflex x-1125	Di(tridecyl) phthalate	119-06-2	PLAS-PL-033N	50	PLAS-PL-033S	18
Paraplex® G-30	Proprietary dibasic acid polyester mixture		PLAS-PL-027N	50	PLAS-PL-027S	18
Plasthall® DINP **NEW**	Diisononyl phthalate	28553-12-0	PLAS-PL-052N	50	----------	---
Plasthall® ESO	Epoxidized soybean oil	8013-07-8	PLAS-PL-035N	50	----------	---
Polycizer® butyl oleate	Butyl oleate	142-77-8	PLAS-PL-007N	50	PLAS-PL-007S	18
Polycizer DP 500	Dipropylene glycol dibenzoate	27138-31-4	PLAS-PL-011N	50	PLAS-PL-011S	18
Santicizer® 141	2-Ethylhexyldiphenyl phosphate	1241-94-7	PLAS-PL-026N	50	PLAS-PL-026S	18
Santicizer 148	Mixture: isodecyldiphenyl phosphate (80-90%) / diisodecyl phenyl phosphate / triphenyl phosphate	29761-21-5	PLAS-PL-022N	50	PLAS-PL-022S	18
Santicizer 160	Benzyl butyl phthalate	85-68-7	PLAS-PL-004N	50	PLAS-PL-004S	18
Santicizer 261	Benzyl octyl phthalate	68515-40-2	PLAS-PL-005N	50	PLAS-PL-005S	18
Tributylphosphate **NEW**	Tributyl phosphate	126-73-8	PLAS-PL-048N	50	----------	---
Triethylphosphate **NEW**	Triethyl phosphate	78-40-0	PLAS-PL-047N	50	----------	---
2,2,4-Trimethyl-1,3-pentanediol-isobutyrate **NEW**		25265-77-4	PLAS-PL-046N	50	----------	---
Trimellitate **NEW**	1,2,4-Benzenetricarboxylic acid, tris(2-ethylhexyl) ester	3319-31-1	PLAS-PL-039N	50	----------	---
Vinsol® powder	Gum rosin	8050-09-7	PLAS-PL-037N	50	PLAS-PL-037S-D	18
Vinsol® resin	Gum rosin	8050-09-7	PLAS-PL-036N	50	PLAS-PL-036S-D	18

Processing Aids

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Akrochem® Ceresin Wax **NEW**		8001-75-0	PLAS-PA-002N	$ 50	----------	---
Kemamide® E ultra	Erucamide	112-84-5	PLAS-PA-001N	$ 50	PLAS-PA-001S	$ 18

Retarders

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Akrochem® Retarder BAX **NEW**		65-85-0	PLAS-RT-011N	$ 50	----------	---
2-Cyano-2-propyl benzodithioate **NEW**		201611-85-0	PLAS-RT-002N	50	PLAS-RT-002S ☆	$ 15
2-Cyano-2-propyl dodecyl trithiocarbomate **NEW**		870196-83-1	PLAS-RT-004N	50	PLAS-RT-004S	$ 15
4-Cyano-4-[(dodecylsulfanylthiocarbonyl)sulfanyl]pentanoic acid **NEW**		870196-80-8	PLAS-RT-005N	50	PLAS-RT-005S	$ 15
Cyanomethyl dodecyl trithiocarbonate **NEW**		796045-97-1	PLAS-RT-006N	50	PLAS-RT-006S	$ 15
Cyanomethyl methyl(phenyl)carbamodithioate **NEW**		76926-16-4	PLAS-RT-009N	50	PLAS-RT-009S	$ 15
2-(Dodecylthiocarbonothioylthio)-2-methylpropionic acid **NEW**		461642-78-4	PLAS-RT-010N	50	PLAS-RT-010S	$ 15
bis(dodecylsulfanylthiocarbonyl) disulfide **NEW**		870532-86-8	PLAS-RT-008N	50	PLAS-RT-008S	$ 15
Retarder AK	Phthalic anhydride	85-44-9	PLAS-RT-001N	50	PLAS-RT-001S ☆	$ 18
bis(thiobenzoyl) disulfide ***NEW***		5873-93-8	PLAS-RT-007N	95	PLAS-RT-007S	$ 25

Plastic Additives

Solutions at 1000 µg/mL in Hexane, except where indicated
☆ Hexane:Acetone, -A Acetone, -T Toluene, -M Methanol, - DMSO

Stearates

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Stearic acid RG (rubber grade)	Stearic acid	57-11-4	PLAS-ST-001N	$ 50	PLAS-ST-001S	$ 18
Stearic acid TP	Stearic acid	57-11-4	PLAS-ST-002N	50	PLAS-ST-002S	18

UV Stabilizers

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Tinuvin® PED	2-(2-Hydroxy-5-methylphenyl)benzo triazole	2440-22-4	PLAS-UV-005N	$ 50	PLAS-UV-005S	$ 18
Uvinul® 3000	2,4-Dihydroxybenzophenone	131-56-6	PLAS-UV-001N	50	PLAS-UV-001S	18
Uvinul 3008	2-Hydroxy-4-octyloxybenzophenone	1843-05-6	PLAS-UV-002N	50	PLAS-UV-002S	18
Uvinul 3040	2-Hydroxy-4-methoxybenzophenone	131-57-7	PLAS-UV-003N	50	PLAS-UV-003S	18
Uvinul 3049	2,2-Dihydroxy-4,4-dimethoxybenzophenone	131-54-4	PLAS-UV-004N	50	PLAS-UV-004S	18

Vegetable Oils

Trade Name	Chemical Name	CAS No.	Neat	50 mg / Price	Solution	1 mL / Price
Akrofax™A	Vulcanized vegetable oil		PLAS-VA-001N	$ 50	PLAS-VA-001S	$ 18
Akrofax B	Vulcanized vegetable oil		PLAS-VA-002N	50	PLAS-VA-002S	18

Deuterated Phthalates

Trade Name	Chemical Name	CAS No.	Neat	5 mg	Solution	1 mL / Price
Dibenzyl phthalate-d_4			PHTH-D4-001N		PHTH-D4-001S	$ 30
Di-n-butyl phthalate-d_4		93952-11-5	PHTH-D4-002N		PHTH-D4-002S	30
Di-iso-butyl phthalate-3,4,5,6-d_4		358730-88-8	PHTH-D4-003N		PHTH-D4-003S	30
Dicyclohexyl phthalate-3,4,5,6-d_4		358731-25-6	PHTH-D4-004N		PHTH-D4-004S	30
Diethyl phthalate-3,4,5,6-d_4		93952-12-6	PHTH-D4-005N		PHTH-D4-005S	30
Di-n-hexyl phthalate-3,4,5,6-d_4			PHTH-D4-006N		PHTH-D4-006S	30
Dimethyl phthalate-3,4,5,6-d_4		93951-89-4	PHTH-D4-007N		PHTH-D4-007S	30
Di-n-octyl phthalate-3,4,5,6-d_4		93952-13-7	PHTH-D4-008N		PHTH-D4-008S	30
Di-n-pentyl phthalate-3,4,5,6-d_4		358730-89-9	PHTH-D4-009N		PHTH-D4-009S	30
Di-n-propyl phthalate-3,4,5,6-d_4		358731-29-0	PHTH-D4-010N		PHTH-D4-010S	30
bis(2-Ethylhexyl) phthalate-3,4,5,6-d_4		93951-87-2	PHTH-D4-011N		PHTH-D4-011S	30
Sets of Deuterated Phthalates			**PHTH-D4N-SET**	**$ 525 / 11 x 5 mg**	**PHTH-D4S-SET**	**$ 225/ 11 x 1 mL**

Deuterated Phthalate Solutions in MeOH

Technical Mixtures

When a compound has a purity identified as “Technical” or “Tech Mixture” it means that the standard is not comprised of just one main compound. These are mixtures of multiple chemicals that make up a particular product and every chemical in the mix are components that define the product. The analysis considers all compounds in the product. Aroclors, flame retardants, PBDE technical grade, halowaxes, and some allergens, plastic additives, and dyes may be classified as “Technical Mixtures”.

PolyAdd ✔ Check™

Also see our Dyes and Breakdown Product in the Dye Standard section of this Catalog

ASTM Method D6042-92 Plastic Packaging Testing Standards

This method is used by both pharmaceutical companies and plastics manufacturers. The test ensures the quality of the plastic product during the manufacturing process, and as delivered to the pharmaceutical customer. Compounds are often added to the method's analyte list by pharmaceutical companies.

Calibration Mix

PLAS-CAL-001 **$ 29 / 1 x 1 mL**
PLAS-CAL-001-PAK ***SAVE 20%*** **$ 116 / 5 x 1 mL**
50 µg/mL each in Isopropanol 7 comps.

BHT
Erucamide Slip
Vitamin E
Irgafor 128
Irganox 3114
Irganox 1010
Irganox 1076

Internal Standard Mix

PLAS-IS-001 **$ 20 / 1 x 1 mL**
PLAS-IS-001-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
51.8 µg/mL in Isopropanol

Tinuvin P

Expanded List of Additives

Each at 50 µg/mL in Isopropanol, except Ethanox 703 at 1000 µg/mL

Ultranox 626	PLAS-CAL-002-1	$ 20 / 1 mL	Ethanox 702	PLAS-CAL-002-5	$ 20 / 1 mL
Santanox R	PLAS-CAL-002-2	20 / 1 mL	Ethanox 703	PLAS-CAL-002-6	20 / 1 mL
Ethanox 330	PLAS-CAL-002-3	20 / 1 mL	Irganox 1035	PLAS-CAL-002-7	20 / 1 mL
Ethanox 323	PLAS-CAL-002-4	20 / 1 mL			

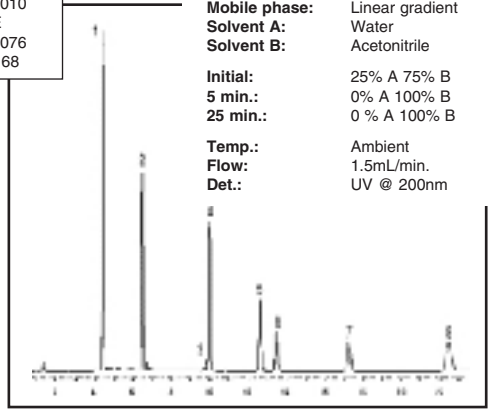
Component list:
1. Tinuvin® P
2. BHT
3. Erucamide
4. Irganox® 3114
5. Irganox 1010
6. Vitamin E
7. Irganox 1076
8. Irgafos® 168

Analysis Conditions:
10µL injection @ 50ppm each component, ASTM D6042-96 calibration mix and IS mix
Solvent: Isopropanol
Column: 150 X 4.6mm Ultra C8, 5µm, 100Å

Mobile phase: Linear gradient
Solvent A: Water
Solvent B: Acetonitrile

Initial: 25% A 75% B
5 min.: 0% A 100% B
25 min.: 0 % A 100% B

Temp.: Ambient
Flow: 1.5mL/min.
Det.: UV @ 200nm



The figure shows the separation of the compounds on the method's analyte list, as analyzed by our HPLC specialists. The primary calibration standard mixture contains the common antioxidants and slips listed in ASTM D6042-96.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Food Analysis
Food Constituents, Lipid Standards

Food chemists routinely use AccuStandard's analytical reference standards for their food analysis. These include lipid, vitamin, preservative and antimicrobial standards. Each standard is methodically prepared, undergoes various quality control analysis and procedures and is then packaged under the strict guidelines of our ISO Guide 34, 17025 and 9001 Quality System.



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Preservatives and Antimicrobials	107

- High Purity confirmed by GLC & TLC
- Packaged in Sealed Ampules under Nitrogen Blanket
- Certificate of Analysis

Unsaturated Methyl Esters

99% minimum purity **(Storage: -20°C, protect from light)**

Compound	CAS No.	Neat 100 mg	Each 10 mg/mL in Heptane Solution	Price / 1 mL
Methyl cis-9-hexadecenoate *(Palmitoleate)* C16:1	1120-25-8	UFA-001N	UFA-001S	$ 12
Methyl trans-9-hexadecenoate C16:1	10030-74-7	UFA-002N	UFA-002S	12
Methyl cis-6-octadecenoate *(Petroselinate)* C18:1	2777-58-4	UFA-003N	UFA-003S	12
Methyl trans-6-octadecenoate *(Petroselaidate)* C18:1		UFA-004N	UFA-004S	12
Methyl cis-9-octadecenoate *(Oleate)* C18:1	112-62-9	UFA-005N	UFA-005S	12
Methyl trans-9-octadecenoate *(Elaidate)* C18:1	2462-84-2	UFA-006N	UFA-006S	12
Methyl cis-11-octadecenoate *(Vaccenate)* C18:1	1937-63-9	UFA-007N	UFA-007S	12
Methyl 12-hydroxy-cis-9-octadecenoate *(Ricinoleate)* C18:1	141-24-2	UFA-008N	UFA-008S	12
Methyl linoleate *(Linoleate)* C18:2	112-63-0	UFA-010N	UFA-010S	12
Methyl linolelaidate *(Linoelaidate)* C18:2	2566-97-4	UFA-011N	UFA-011S	20
Methyl octadecadienoate *(Conjugated)* C18:2		UFA-012N ❄	UFA-012S	12
Methyl linolenate *(Linolenate)* C18:3	301-00-8	UFA-014N ❄	UFA-014S	12
Methyl g-linolenate *(Gamma Linolenate)* C18:3	16326-32-2	UFA-015N ❄	UFA-015S	30
Methyl trans-11-eicosenoate C20:1	69119-90-0	UFA-016N	UFA-016S	75
Methyl cis-8-eicosenoate C20:1	69119-99-9	UFA-017N	UFA-017S	95
Methyl cis-11-eicosenoate C20:1	2390-09-2	UFA-018N	UFA-018S	30
Methyl cis-5-eicosenoate C20:1	20839-34-3	UFA-019N	UFA-019S	60
Methyl cis-11,14-eicosadienoate C20:2	2463-02-7	UFA-020N ❄	UFA-020S	40
Methyl cis-8,11,14-eicosatrienoate *(Hom ogamma linolenate)* C20:3	1783-84-2	UFA-022N ❄	UFA-022S ❄	120
Methyl cis-11,14,17-eicosatrienoate C20:3	55682-88-7	UFA-023N ❄	UFA-023S ❄	50
Methyl arachidonate *(Arachidonate)* C 20:4	2566-89-4	UFA-024N ❄	UFA-024S	75
Methyl 5,8,11,14,17-Eicosapentaenoate C20:5	2734-47-6	UFA-025N ❄	UFA-025S ❄	95
Methyl cis-7,10,13,16,19-Docosapentaenoate (DPA) C22:5	108698-02-8	UFA-026N ❄	UFA-026S ❄	120
Methyl cis-13-docosenoate *(Erucate)* C22:1	1120-34-9	UFA-027N	UFA-027S	12
Methyl trans-13-docosenoate *(Brassidate)* C22:1	7439-44-3	UFA-028N	UFA-028S	30
Methyl cis-13,16-docosadienoate C22:2	61012-47-3	UFA-029N ❄	UFA-029S	120
Methyl cis-13,16,19-docosatrienoate C22:3	108698-01-7	UFA-030N ❄	UFA-030S ❄	120
Methyl cis-7,10,13,16-Docosatetraenoate C22:4	13487-42-8	UFA-031N ❄	UFA-031S ❄	120
Methyl cis-4,7,10,13,16,19-Docosahexenoate C22:6 95%	301-01-9	UFA-032N ❄	UFA-032S ❄	50
Methyl cis-15-tetracosenoate *(Nervonate)* C24:1	2733-88-2	UFA-033N	UFA-033S	20
Set of Unsaturated Fatty Acid Methyl Ester (UFA-001 to UFA-033)	**1 x 30 units**	**UFA-N-SET ❄ Same Price for Neat or Solutions**	**UFA-S-SET ❄**	**$ 1125**

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a ColdPAK.

Lipid Standards analyzed by both GLC and TLC are supplied with complete analytical documentation.

Saturated Methyl Esters

Compound	CAS No.	Neat 100 mg	10 mg/mL in Hexane Solution	Price / 1 mL
Methyloctanoate *(Caprylate)* C8:0	111-11-5	SFA-001N	SFA-001S	$ 12
Methylnonoate *(Pelargonate)* C9:0	1731-84-6	SFA-002N	SFA-002S	12
Methyldecanoate *(Caprate)* C10:0	110-42-9	SFA-003N	SFA-003S	12
Methylundecanoate C11:0	1731-86-8	SFA-004N	SFA-004S	12
Methyldodecanoate *(Laurate)* C12:0	111-82-0	SFA-005N	SFA-005S	12
Methyltridecanoate C13:0	1731-88-0	SFA-006N	SFA-006S	12
Methyltetradecanoate *(Myristate)* C14:0	124-10-7	SFA-007N	SFA-007S	12
Methylpentadecanoate C15:0	7132-64-1	SFA-008N	SFA-008S	12
Methylhexadecanoate *(Palmitate)* C16:0	112-39-0	SFA-009N	SFA-009S	12
Methylheptadecanoate *(Margarate)* C17:0	1731-92-6	SFA-010N	SFA-010S	12
Methyloctadecanoate *(Stearate)* C18:0	112-61-8	SFA-011N	SFA-011S	12
Methyl 12-hydroxystearate C18:0	141-23-1	SFA-012N	SFA-012S	12
Methylnonadecanoate C19:0	1731-94-8	SFA-013N	SFA-013S	12
Methyleicosanoate *(Arachidate)* C20:0	1120-28-1	SFA-014N	SFA-014S	12
Methylheneicosanoate C21:0	6064-90-0	SFA-015N	SFA-015S	20
Methyldocosanoate *(Behenate)* C22:0	929-77-1	SFA-016N	SFA-016S	12
Methyltricosanoate C23:0	2433-97-8	SFA-017N	SFA-017S	20
Methyltetracosanoate *(Lignocerate)* C24:0	2442-49-1	SFA-018N	SFA-018S	20
Set of Saturated Fatty Acids Methyl ester (SFA-001 to SFA-018)	**1 x 18 units**	**SFA-N-SET** Same Price for Neat or Solutions	**SFA-S-SET**	**$ 175**

ColdPAKs

ColdPAKs may be recommended or required with certain temperature sensitive products. Some standards are susceptible to change at room temperature or higher. In some of these cases, AccuStandard may recommend or require that these products ship in a "Cold Pak" (styrofoam container that has an ice pack in it). The purpose of the Cold Pak is to delay the exposure of the product to higher temperatures, and NOT to keep the product frozen. The product will not immediately go out of specifications when the Cold Pak melts or when the product reaches room temperature. The Cold Pak simply delays exposure to higher temperatures. When a product is shipped with a Cold Pak, the customer should also consider requesting next-day delivery (where available) and should avoid having the shipment sent on a Friday unless it is approved for Saturday Delivery.

Glycerides

Saturated Glycerides

Compound	CAS No.	Neat 100 mg	Price
Trioctanoin *(Caprylin)* C8:0	538-23-8	GS-001N	$ 20
Dicaprylin C8:0	36354-80-0	GS-002N	40
Monocaprylin C8:0	19670-49-6	GS-003N	20
Tridecanoin *(Caprin)* C10:0	621-71-6	GS-004N	10
Dicaprin C10:0	53988-07-1	GS-005N	20
Monocaprin C10:0	26402-22-2	GS-006N	40
Tridodecanoin *(Laurin)* C12:0	538-24-9	GS-007N	10
Dilaurin C12:0	27638-00-2	GS-008N	20
Monolaurin C12:0	142-18-7	GS-009N	20
Tritetradecanoin *(Myristin)* C14:0	555-45-3	GS-010N	10
Dimyristin C14:0	53563-63-6	GS-011N	40
Monomyristin C14:0	589-68-4	GS-012N	40
Trihexadecanoin *(Palmitin)* C16:0	555-44-2	GS-013N	10
Dipalmitin C16:0	26657-95-4	GS-014N	20
Monopalmitin C16:0	542-44-9	GS-015N	20
Trioctadecanoin *(Stearin)* C18:0	555-43-1	GS-016N	10
Distearin C18:0)	1323-83-7	GS-017N	20
Monostearin C18:0	22610-63-5	GS-018N	20
Trieicosanoin *(Arachidin)* C20:0	620-64-4	GS-019N	20
Diarachidin C20:0	60586-60-9	GS-020N	30
Monoarachidin C20:0		GS-021N	30
Tridocosanoin *(Behenin)* C22:0	18641-57-1	GS-022N	20
Dibehenin C22:0		GS-023N	30
Monobehenin C22:0	6916-74-1	GS-024N	30
Set of Saturated glyceride (GS-001 to GS-024)	**1 x 24 units**	**GS-SET**	**$ 320**

Unsaturated Glycerides

Compound	CAS No.	Neat 10 mg	Price
Myristolein C14:1 cis		UG-001N	$ 30
Dimyristolein C14:1		UG-002N	30
Monomyristolein C14:1	56399-71-4	UG-003N	30
Palmitolein C16:1 cis	20246-55-3	UG-004N	30
Dipalmitolein C16:1	113728-10-2	UG-005N	30
Monopalmitolein C16:1	37515-61-0	UG-006N	30
Petroselinin 6 C18:1 cis	3296-43-3	UG-007N	30
Dipetroselinin 6 C18:1		UG-008N	30
Monopetroselinin 6 C18:1		UG-009N	30
Olein 9 C18:1 cis	122-32-7	UG-010N	30
Diolein 9 C18:1	25637-84-7	UG-011N	30
Monoolein 9 C18:1	111-03-5	UG-012N	30
Trielaidin 9 C18:1 trans	537-39-3	UG-013N	30
Dielaidin 9 C18:1 trans	98168-52-6	UG-014N	30
Monoelaidin 9 C18:1 trans	2716-53-2	UG-015N	30
Vaccenin 11 C18:1 cis		UG-016N	30
Divaccenin 11 C18:1		UG-017N	30
Monovaccenin 11 C18:1		UG-018N	30
Linolein C18:2 cis,cis	537-40-6	UG-019N ❄	30
Dilinolein C18:2	30606-27-0	UG-020N ❄	30
Monolinolein C18:2	2277-28-3	UG-021N ❄	30
Linolenin C18:3 cis,cis,cis	14465-68-0	UG-022N ❄	30
Dilinolenin C18:3		UG-023N ❄	30
Monolinolenin C18:3	75685-75-5	UG-024N ❄	30
Gamma linolenin C18:3 cis,cis,cis		UG-025N ❄	30
Gamma di-linolenin C18:3		UG-026N ❄	30
Gamma mono-linolenin C18:3		UG-027N ❄	30
Trieicosenoin C20:1 cis	80380-39-8	UG-028N	30
Dieicosenoin C20:1	102783-82-4	UG-029N	30
Monoeicosenoin C20:1		UG-030N	30
11-14 cis Trieicosadienoin C20:2 cis,cis		UG-031N ❄	30
Dieicosadienoin C20:2		UG-032N ❄	30
Monoeicosadienoin C20:2		UG-033N ❄	30
Set of Unsaturated Glyceride (UFA-001 to UFA-033)	**1 x 33 units**	**UG-N-SET ❄**	**$ 840**

(Storage: -20°C, protect from light)

Lipid Standards analyzed by both GLC and TLC are supplied with complete analytical documentation.

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AOCS, Method Ce1-62 Animal & Vegetable Reference Mixes

AOCS Animal & Vegetable Reference Neat Mixtures)	Cat. No.	Price / Unit
Mix 1: Suitable standard for corn, cottonseed, kapok, poppyseed, rice, safflower, sesame, soybean, sunflower and walnut oils	AOCS-001N ❄	$ 35 / 100 mg
Mix 2: Suitable standard for hempseed, linseed, perrilla & rubberseed oils	AOCS-002N ❄	35 / 100 mg
Mix 3: Suitable standard for mustard seed, peanut and rapeseed oil	AOCS-003N ❄	35 / 100 mg
Mix 4: Suitable standard for neatsfoot, olive and teaseed oils	AOCS-004N ❄	35 / 100 mg
Mix 5: Suitable standard for babassu, coconut, ouri-curi & palm kernel oils	AOCS-005N ❄	35 / 100 mg
Mix 6: Suitable standard for lard, beef tallow, mutton tallow and palm oil	AOCS-006N ❄	35 / 100 mg
AOCS Rapeseed Mix, Suitable standard for modern low erucic acid oils	AOCS-007N ❄	35 / 100 mg
AOCS Animal & Vegetable Reference Mix Set (AOCS-001N to AOCS-007N)	**AOCS-SET ❄**	**$ 210 / 7 x 100 mg**

		Methyl Ester (% Composition by Weight)															
AOCS Reference Mix	Cat. No.	C8:0 Caprylate	C10:0 Caprate	C12:0 Laurate	C14:0 Myristate	C16:0 Palmitate	C16:1 Palmitoleate	C18:0 Stearate	C18:1 Oleate	C18:2 Linoleate	C18:3 Linolenate	C20:0 Arachidate	C20:1 Eicosenoate	C22:0 Behenate	C22:1 Eurcate	C24:0 Lignocerate
RM-1 ❄	AOCS-001N					6.0		3.0	35.0	50.0	3.0	3.0				
RM-2 ❄	AOCS-002N					7.0		5.0	18.0	36.0	34.0					
RM-3 ❄	AOCS-003N				1.0	4.0		3.0	45.0	15.0	3.0	3.0		3.0	20.0	3.0
RM-4 ❄	AOCS-004N					11.0		3.0	80.0	6.0						
RM-5 ❄	AOCS-005N	7.0	5.0	48.0	15.0	7.0		3.0	12.0	3.0						
RM-6 ❄	AOCS-006N				2.0	30.0	3.0	14.0	41.0	7.0	3.0					
Rapeseed ❄	AOCS-007N				1.0	4.0		3.0	60.0	12.0	5.0	3.0	1.0	3.0	5.0	3.0

NHI/NIH Fatty Acid Methyl Ester Profiling Mixes

Designed to test reliability of chromatographic system when performing quantitative analysis of Fatty Acids.

			Methyl Ester (% Composition by Weight)											
NHI/NIH Reference Mix	Cat. No.	Price per 100 mg	C8:0 Caprylate	C10:0 Caprate	C12:0 Laurate	C14:0 Myristate	C16:0 Palmitate	C16:1 Palmitoleate	C18:0 Stearate	C18:1 Oleate	C20:0 Arachidate	C22:0 Behenate	C24:0 Lignocerate
NHI-A	NHI-001N	$ 20					25.0	10.0		65.0			
NHI-B	NHI-002N	20					4.0	40.0		56.0			
NHI-C ❄	NHI-003N	20	1.5	3.0	6.0	12	19.4		24.9		33.2		
NHI-D	NHI-004N	20				11.8	23.6	6.9	13.1	44.6			
NHI-E	NHI-005N	20	6.3	9.1	12.0	23.3	49.2						
NHI-F ❄	NHI-006N	20				2.5	4.2		7.3		13.6	25.4	47.0
NHI-SET ❄	**$ 100 / 6 x 100 mg (NHI-001N to NHI-006N)**												

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Fatty Acid Methyl Esters (FAMEs)

These mixes and kits are suitable for determining peak identification & establishing chromatographic retention times.

Saturated Straight Chain Kit
FAME-001-R1-KIT **$ 150 / 10 units**
Methyl esters, purity 99%, 100 mg each

- Me Caproic acid (C6:0)
- Me Caprylic acid (C8:0)
- Me Capric acid (C10:0)
- Me Lauric acid (C12:0)
- Me Myristic acid (C14:0)
- Me Palmitic acid (C16:0)
- Me Stearic acid (C18:0)
- Me Arachidic acid (C20:0)
- Me Behenic acid (C22:0)
- Me Lignoceric acid (C24:0)

Unsaturated Straight Chain Kit
FAME-003-R1-KIT ❄ **$ 250 / 14 units**
Storage -20°C, Protect from light
Saturated methyl esters, purity 99%, 10 mg each

- Me Myristoleic acid (14:1)
- Me Palmitoleic acid (16:1)
- Me Petroselinic acid (18:1)
- Me Elaidic acid (18:1)
- Me cis-Vaccenic acid (18:1, cis)
- Me Linoleic acid (18:2, cis)
- Me Linolelaidic acid (18:2, trans)
- Me Linolenic acid (18:3)
- Me cis-11-Eicosenoic acid (20:1)
- Me Arachidonic acid (20:4)
- Me Erucic acid (22:1)
- Me cis-4,7,10,13,16,19-Docosahexaenoic acid (22:6)
- Me Nervonic acid (24:1)
- Me Oleic acid (18:1)

Methyl Ester Mix #1
FAMQ-001 ❄ **$ 90 / 40 mg**
Storage: -20°C, Protect from light 4 comps.
Approximately 10 mg of each in a qualitative mix

- 11-Eicosenoic acid methyl ester (20:1)
- 11,14-Eicosadienoic acid methyl ester (20:2)
- Arachidonic acid methyl ester (20:4)
- 5,8,11,14,17-Eicosapentaenoic acid methyl ester (20:5)

Fatty Acid Methyl Ester Mix #2
FAMQ-002 ❄ **$ 90 / 50 mg**
Storage: -20°C, Protect from light 5 comps.
Approximately 10 mg of each in a qualitative mix

- 11-Eicosenoic acid methyl ester (20:1)
- 11,14-Eicosadienoic acid methyl ester (20:2)
- 11,14,17-Eicosatriaenoic acid methyl ester (20:3)
- Arachidonic acid methyl ester (20:4)
- 5,8,11,14,17-Eicosapentaenoic acid methyl ester (20:5)

Volatile Acid Standard Solution
FAMQ-004 **$ 32 / 1 x 100 mL**
Storage: Refrigerate 10 comps.
10mM of each component in deionized H_2O.

- Formic acid
- Acetic acid
- Propionic acid
- Isobutyric acid
- Butyric acid
- Isovaleric acid
- *n*-Valeric acid
- Isocaproic acid *(4-Methyl valeric acid)*
- Hexanoic acid *(n-Caproic acid)*
- Heptanoic acid

Saturated Straight Chain Kit
FAME-002-R1-KIT **$ 475 / 19 units**
Methyl esters, 99% purity, 100 mg each

- Me Caproic acid (6:0)
- Me Heptanoic acid (7:0)
- Me Caprylic acid (8:0)
- Me Nonanoic acid (9:0)
- Me Capric acid (10:0)
- Me Undecanoic acid (11:0)
- Me Lauric Acid (12:0)
- Me Tridecanoic acid (13:0)
- Me Myristic acid (14:0)
- Me Pentadecanoic acid (15:0)
- Me Palmitic acid (16:0)
- Me Heptadecanoic acid (17:0)
- Me Stearic acid (18:0)
- Me Nonadecanoic acid (19:0)
- Me Arachidic acid (20:0)
- Me Heneicosanoic acid (21:0)
- Me Behenic acid (22:0)
- Me Tricosanoic acid (23:0)
- Me Lignoceric acid (24:0)

Odd Carbon Straight Chain Kit
FAME-005-R1-KIT **$ 215 / 9 units**
Methyl esters, 99+% purity, 100 mg each

- Me Heptanoic acid (C7:0)
- Me Nonanoic acid (C9:0)
- Me Undecanoic acid (C11:0)
- Me Tridecanoic acid (C13:0)
- Me Pentadecanoic acid (C15:0)
- Me Heptadecanoic acid (C17:0)
- Me Nonadecanoic acid (C19:0)
- Me Heneicosanoic acid (C21:0)
- Me Tricosanoic acid (C23:0)

Standards of Interest
For FAEE standards refer to BioFuels in the Petrochemical section.

FAME Quantitative Standard Mix
FAMQ-005 ❄ **$ 85 / 1 x 1 mL**
Storage: -20°C, Protect from light
At stated conc. in CH_2Cl_2 (total of 10 mg/mL) 37 comps.

	mg/mL
Me Butyric acid (C4:0)	0.4
Me Caproic acid (C6:0)	0.4
Me Caprylic acid (C8:0)	0.4
Me Capric acid (C10:0)	0.4
Me Undecanoic acid (C11:0)	0.2
Me Lauric acid (C12:0)	0.4
Me Tridecanoic acid (C13:0)	0.2
Me Myristic acid (C14:0)	0.4
Me Myristoleic acid (C14:1)	0.2
Me Pentadecanoic acid (C15:0)	0.2
Me cis-10-Pentadecenoic acid (C15:1)	0.2
Me Palmitic acid (C16:0)	0.6
Me Palmitoleic acid (C16:1)	0.2
Me Heptadecanoic acid (C17:0)	0.2
Me cis-10-Heptadecenoic acid (C17:1)	0.2
Me Stearic acid (C18:0)	0.4
Me Elaidic acid (C18:1n9t)	0.2
Me Oleic acid (C18:1n9c)	0.4
Me Linolelaidic acid (C18:2n6t)	0.2
Me Linoleic acid (C18:2n6c)	0.2
Me Arachidic acid (C20:0)	0.4
Me g-Linolenic acid (C18:3n6)	0.2
Me cis-11-Eicosenoic acid (C20:1)	0.2
Me Linolenic acid (C18:3n3)	0.2
Me Heneicosanoic acid (C21:0)	0.2
Me cis-11,14-Eicosadienoic acid (C20:2)	0.2
Me Behenic acid (C22:0)	0.4
Me cis-8,11,14-Eicosatrienoic acid (C20:3n6)	0.2
Me Erucic acid (C22:1n9)	0.2
Me cis-11,14,17-Eicosatrienoic acid (C20:3n3)	0.2
Me Arachidonic acid (C20:4n6)	0.2
Me Tricosanoic acid (C23:0)	0.2
Me cis-13,16-Docosadienoic acid (C22:2)	0.2
Me Lignoceric acid (C24:0)	0.4
Me cis-5,8,11,14,17-Eicosapentaenoic acid (C20:5n3)	0.2
Me Nervonic acid (C24:1)	0.2
Me cis-4,7,10,13,16,19-Docosahexaenoic acid (C22:6n3)	0.2

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a ColdPAK

Food Analysis

- 99+% Purity (except as noted)
- Convenient packaging size eliminates costly disposal
- Lot Analysis supplied with each Standard

Melamine Kit

Analysis for Melamine in pet food, formula milk, and other foodstuffs can now be more accurate and reliable with the Melamine Reference Standards Set which contains seven ampules: Melamine, Ammeline, Ammelide, Cyanuric acid, the method recommended Internal Standard, a column clean-up solution, and a Silylating Reagent.
Storage Cond. (0-5°C)

FDA-PROP-001-SET **$ 175 / 5 x 1 mL, 2 x 5 mL**

		Cat. No.	Price / 1 mL
Melamine	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001A	$ 10
Ammeline	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001B	65
Ammelide	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001C	65
Cyanuric acid	1000 µg/mL in Diethylamine:Water (1:4)	FDA-PROP-001D	10

Internal Standard

FDA-PROP-001-IS **$ 15 / 1 x 1 mL**
1000 µg/mL in Pyridine

2,6-Diamino-4-chloropyrimidine

Silylating Reagent

FDA-PROP-001-DER **$ 35 / 1 x 5 mL**

	vol/vol%
BSTFA [bis(trimethylsilyl)trifluoroacetamide]	99
TMCS	1

Column Clean-up Check

FDA-PROP-001-CHK **$ 25 / 1 x 5 mL**

	vol/vol%
Sylon BFT	50
Pyidine	50

EFSA for Isopropylthioxanthone (ITX)

Responding to the hazard found in Italy, France, Spain, and Portugal, we have formulated Isopropylthioxanth-9-one (a photographical chemical) found in baby milk in Italy. The 2-isomer as well as the technical mixture also contains the 4-isomer.



2-Isopropylthioxanthone (ITX)

EFSA-ITX-01 **$ 45 / 1 x 1 mL**
1.0 mg/mL in Isooctane

2-Isopropylthioxanth-9-one

Isopropylthioxanthone (ITX) mixed isomers

EFSA-ITX-02 **$ 25 / 1 x 1 mL**
1.0 mg/mL in Isooctane

2-and 4-Isopropylthioxanth-9-one

Vitamin Standards

Water Soluble		CAS No.	Unit	Cat. No.	Price
Thiamine • HCL	B1	67-03-8	1 gram	VIT-001N	$ 10
Riboflavin	B2	83-88-5	1 gram	VIT-002N	10
Pyridoxine • HCL	B6	58-56-0	1 gram	VIT-003N	10
L-Ascorbic acid	C	50-81-7	1 gram	VIT-004N	10
Nicotinic acid	Niacin	59-67-6	1 gram	VIT-005N	10
Nicotinamide		98-92-0	1 gram	VIT-006N	10
Folic Acid	M	59-30-3	1 gram	VIT-007N	10
Pantothenic acid		79-83-4	100 mg	VIT-008N	19
d-Biotin	H	58-85-5	100 mg	VIT-009N-R1	10
Cyanocobalamin	B12	68-19-9	25 mg	VIT-010N-R1	12
Water Soluble Vitamin Set, Includes: VIT-001N to VIT-010N			**10 units**	**VIT-WSK-R1-SET**	**$ 90**
Fat Soluble					
dl-alpha-Tocopherol	E	10191-41-0	100 mg	VIT-012N	$ 14
Cholecalciferol	D3	67-97-0	100 mg	VIT-013N	14
Retinol Palmitate	A, Palmitate	79-81-2	100 mg	VIT-014N	62
dl-alpha-Tocopherol acetate		7695-91-2	100 mg	VIT-015N	14
Phylloguinone	K1	84-80-0	100 mg	VIT-016N	14
Menaquinone	K2	11032-49-8	100 mg	VIT-017N	80
Menadione	K3	58-27-5	100 mg	VIT-018N	14
β-Carotene (Substantially free of alpha Carotene)		7235-40-7	10 mg	VIT-019N	20
d-alpha-Tocopherol succinate	E	4345-03-3	100 mg	VIT-020N	14
Ergocalciferol	D2	50-14-6	100 mg	VIT-022N	14
Fat Soluble Vitamin Set, Includes: VIT-012N to VIT-022N			**10 units**	**VIT-FSK-R2-SET**	**$ 175**

Technical Note

AccuStandard Vitamin Standards are thoroughly tested, packaged and stored under an ISO Guide 34, 17025 and 9001 and Quality System to provide the highest quality Vitamin Standards available. Remember to always store Standards properly, away from light sources. Each Standard is provided with an actual lot analysis and additional transfer vial and label.

Preservative and Antimicrobial Standards

Compound	Purity	CAS No.	Unit	Cat. No.	Price
Benzoic acid	99 %	65-85-0	1 gram	AP-001N	$ 10
Sodium benzoate	99 %	532-32-1	1 gram	AP-002N	10
Potassium nitrite	97 %	7758-09-0	1 gram	AP-003N	10
Sodium nitrite	99 %	7632-00-0	1 gram	AP-004N	10
Sodium nitrate	99 %	7631-99-4	1 gram	AP-005N	10
Potassium nitrate	99 %	7757-79-1	1 gram	AP-006N	10
Methyl paraben	99 %	99-76-3	1 gram	AP-007N	10
Ethyl paraben	99 %	120-47-8	1 gram	AP-008N	10
Butyl paraben	99 %	94-13-3	1 gram	AP-009N	10
Propionic acid	99 %	79-09-4	1 gram	AP-010N	10
Sodium propionate	97 %	137-40-6	1 gram	AP-011N	10
Calcium propionate	97 %	4075-81-4	1 gram	AP-012N	10
Sorbic acid	99 %	110-44-1	1 gram	AP-013N	10
Potassium sorbate	99 %	590-00-1	1 gram	AP-014N	10
Preservative & Antimicrobial Set			**14 x 1 gram**	**AP-SET**	**$ 120**

Set includes: AP-001N through AP-014N



Allergens

It has been estimated that 10% of the U.S. population is affected by allergens. Cosmetic allergens can be found in everything from shampoos to skin creams. The average person is now exposed to significantly higher levels of these chemicals than people were exposed to only a generation ago. The resulting synergistic effect, coupled with environmental exposure to chemicals, is the focus of an ever-increasing number of studies.

Phthalates are a health issue as well as a food safety concern as an Indirect Food Additive. They tend to migrate from plastic containers and wrappings into food. Finally, some pesticides are a cosmetic ingredient issue since they can be present with other ingredients such as lanolin.

AccuStandard now offers AllergenCheck™ Standards to meet analytical requirements of the cosmetic, pharmaceutical and food industries. These new products coupled with the widest selection of certified reference materials for pesticide and pesticide metabolite analysis, offer one-stop shopping for the analysis of allergens.

Many of the Standards are synthesized by AccuStandard and are not available elsewhere. If you do not see the chemicals or their metabolites that you need, let us know and we may be able to synthesize them. Additionally, if a certain custom mixture of allergens would make your analysis easier, we can provide you with a custom formulation that will save you time.

Allergen Standards are listed as follows:

- Neats and Single Solutions listed alphabetically by compound
- Allergens regulated by the EU
- Allergen standards listed by type



AllergenCheck™

Neats as stated, Solutions in 1 mL

Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
2-Acetylpyridine	1122-62-9	100 mg	Neat	ALR-066N	$ 25
		100 µg/mL	MeOH	ALR-066S	25
Alanroot (Inula helenium)	97676-35-2	1000 µg/mL	EtOH	ALR-027S-ET-10X	15
Alkylphenol ethoxylates:					
Nonylphenol-ethylene oxide condensate (Nonoxynol-9)	26027-38-3	100 mg	Neat	ALR-079N	35
		100 µg/mL	MeOH	ALR-079S	35
Polyethylene glycol nonaphenyl ether (Triton N-101)	123359-41-1	100 mg	Neat	ALR-078N	35
		100 µg/mL	MeOH	ALR-078S	35
Allylisothiocyanate	57-06-7	100 mg	Neat	ALR-028N	15
		1000 µg/mL	EtOH	ALR-028S-ET-10X	15
Amyl cinnamal	122-40-7	100 mg	Neat	ALR-001N	20
		1000 µg/mL	AcCN	ALR-001S-CN-10X	20
Amylcinnamyl alcohol	101-85-9	1000 µg/mL	EtOH	ALR-008S-ET-10X	20
Anisyl alcohol	105-13-5	100 mg	Neat	ALR-014N	20
		1000 µg/mL	EtOH	ALR-014S-ET-10X	20
Arsenic	7440-38-2	1000 µg/mL	2-5% HNO_3	ALR-MET-01S	34
Balsam of Peru	8007-00-9	100 mg	Neat	ALR-080N	15
		100 µg/mL	MeOH	ALR-080S	15
Benzophenone-3 (Bp-3)	131-57-7	100 mg	Neat	ALR-081N	10
		100 µg/mL	AcCN	ALR-081S-CN	10
Benzyl alcohol	100-51-6	100 mg	Neat	ALR-002N	20
		1000 µg/mL	EtOH	ALR-002S-ET-10X	20
Benzyl benzoate	120-51-4	100 mg	Neat	ALR-019N	20
		1000 µg/mL	EtOH	ALR-019S-ET-10X	20
Benzyl butyl phthalate	85-68-7	100 mg	Neat	ALR-082N	12
		100 µg/mL	MeOH	ALR-082S	12
Benzyl cinnamate	103-41-3	100 mg	Neat	ALR-015N	20
		1000 µg/mL	EtOH	ALR-015S-ET-10X	20
Benzyl cyanide	140-29-4	100 mg	Neat	ALR-029N	15
		1000 µg/mL	EtOH	ALR-029S-ET-10X	15
Benzyl paraben	94-18-8	100 mg	Neat	ALR-083N	10
		100 µg/mL	MeOH	ALR-083S	10
Benzyl salicylate	118-58-1	100 mg	Neat	ALR-009N	20
		1000 µg/mL	AcCN	ALR-009S-CN-10X	20
Bithionol	97-18-7	100 mg	Neat	ALR-084N	20
		100 µg/mL	MeOH	ALR-084S	20
5-Bromo-5-nitro-1,3-dioxane (Bronidox L) (BND)	30007-47-7	100 mg	Neat	ALR-074N	50
		100 µg/mL	MeOH	ALR-074S	50
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52-51-7	100 mg	Neat	ALR-067N	10
		100 µg/mL	MeOH	ALR-067S	10
2-(4-tert-Butylbenzyl)propionaldehyde (technical grade)	80-54-6	1000 µg/mL	AcCN	ALR-017S-CN-10X	20
Butylated hydroxyanisole (BHA)	25013-16-5	100 mg	Neat	ALR-087N	10
		100 µg/mL	MeOH	ALR-087S	10
Butylated hydroxytoluene (BHT & 2,6-DBPC)	128-37-0	100 mg	Neat	ALR-088N	20
		100 µg/mL	MeOH	ALR-088S	20
Butylene glycol	107-88-0	100 mg	Neat	ALR-089N	10
		100 µg/mL	MeOH	ALR-089S	10
Butyl-methoxydibenzoylmethane (B-MDM) Sunblock, Parsol1789	70356-09-1	100 µg/mL	MeOH	ALR-086S	75
Butyl paraben	94-26-8	100 mg	Neat	ALR-085N	10
		100 µg/mL	MeOH	ALR-085S	10



Neats as stated, Solutions in 1 mL

Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
p-tert-Butylphenol	98-54-4	100 mg	Neat	ALR-030N	$ 15
		1000 µg/mL	EtOH	ALR-030S-ET-10X	15
Cetone Alpha (technical grade)	127-51-5	1000 µg/mL	AcCN	ALR-024S-CN-10X	20
Chloroacetamide	79-07-2	100 mg	Neat	ALR-090N	25
		100 µg/mL	MeOH	ALR-090S	25
Chloroform	67-66-3	100 mg	Neat	ALR-091N	10
		100 µg/mL	MeOH	ALR-091S	10
2-Chloropyridine	109-09-1	100 mg	Neat	ALR-068N	25
		100 µg/mL	MeOH	ALR-068S	25
Chromium	7440-47-3	1000 µg/mL	2-5% HNO_3	ALR-MET-02S	34
Cinnamal	104-55-2	100 mg	Neat	ALR-010N	20
		1000 µg/mL	AcCN	ALR-010S-CN-10X	20
Cinnamyl alcohol	104-54-1	100 mg	Neat	ALR-003N	20
		1000 µg/mL	EtOH	ALR-003S-ET-10X	20
Citral	5392-40-5	100 mg	Neat	ALR-004N	20
		1000 µg/mL	AcCN	ALR-004S-CN-10X	20
β-Citronellol	106-22-9	100 mg	Neat	ALR-020N	20
		1000 µg/mL	EtOH	ALR-020S-ET-10X	20
Coal Tar (black)	8007-45-2	100 mg	Neat	ALR-094N	20
		100 µg/mL	Toluene	ALR-094S-T	20
Cobalt	7440-48-4	1000 µg/mL	2-5% HNO_3	ALR-MET-03S	34
Coumarin	91-64-5	100 mg	Neat	ALR-011N	20
		1000 µg/mL	AcCN	ALR-011S-CN-10X	20
2,4-Diaminoanisole sulfate hydrate	123333-56-2	100 µg/mL	Pyridine	ALR-070S-R1	30
2,4-Diaminophenol	137-09-7	100 mg	Neat	ALR-063N	15
		100 µg/mL	MeOH	ALR-063S	15
Diamyl phthalate	131-18-0	100 mg	Neat	ALR-098N	24
		100 µg/mL	MeOH	ALR-098S	24
Diazolidinyl urea	78491-02-8	100 mg	Neat	ALR-106N	15
		100 µg/mL	MeOH	ALR-106S	15
Dibromsalon (Halogenated salicylanilides)	87-12-7	100 mg	Neat	ALR-107N	50
		100 µg/mL	MeOH	ALR-107S	50
Dicyclohexyl phthalate	84-61-7	100 mg	Neat	ALR-099N	32
		100 µg/mL	MeOH	ALR-099S	32
Diethanolamine (DEA)	111-42-2	100 mg	Neat	ALR-109N	10
		100 µg/mL	MeOH	ALR-109S	10
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	100 mg	Neat	ALR-097N	12
		100 µg/mL	MeOH	ALR-097S	12
Diethyl maleate	141-05-9	100 mg	Neat	ALR-033N	15
		1000 µg/mL	EtOH	ALR-033S-ET-10X	15
Diethyl phthalate	84-66-2	100 mg	Neat	ALR-110N	12
		100 µg/mL	MeOH	ALR-110S	12
Di-hexyl phthalate	84-75-3	100 mg	Neat	ALR-100N	24
		100 µg/mL	MeOH	ALR-100S	24
Dihydrocoumarin	119-84-6	100 mg	Neat	ALR-034N	15
		1000 µg/mL	Acetone	ALR-034S-A-10X	15
Diisodecyl phthalate	26761-40-0	100 mg	Neat	ALR-101N	12
		100 µg/mL	MeOH	ALR-101S	12
Diisononyl phthalate	68515-48-0	100 mg	Neat	ALR-102N	32
		100 µg/mL	MeOH	ALR-102S	32
Diisooctyl phthalate	27554-26-3	100 mg	Neat	ALR-103N	12
		100 µg/mL	MeOH	ALR-103S	12
Dimethyl citraconate	617-54-9	100 mg	Neat	ALR-038N	35
		1000 µg/mL	EtOH	ALR-038S-ET-10X	35
Dimethyl phthalate (DMP)	131-11-3	100 mg	Neat	ALR-111N	12
		100 µg/mL	MeOH	ALR-111S	12
6,10-Dimethyl-3,5,9-undecatrien-2-one (Pseudoionone)	141-10-6	100 mg	Neat	ALR-040N	15
		1000 µg/mL	Acetone	ALR-040S-A-10X	15
Di-n-butyl phthalate (DBP)	84-74-2	100 mg	Neat	ALR-104N	12
		100 µg/mL	MeOH	ALR-104S	12
Di-n-octyl phthalate	117-84-0	100 mg	Neat	ALR-105N	12
		100 µg/mL	MeOH	ALR-105S	12
1,4-Dioxane	123-91-1	100 mg	Neat	ALR-062N	20
		100 µg/mL	MeOH	ALR-062S	20
Diphenylamine	122-39-4	100 mg	Neat	ALR-041N	10
		1000 µg/mL	EtOH	ALR-041S-ET-10X	10
2-Ethoxyethanol	110-80-5	100 mg	Neat	ALR-064N	40
		100 µg/mL	MeOH	ALR-064S	40
2-Ethoxyethanol acetate	111-15-9	100 mg	Neat	ALR-065N	25
		100 µg/mL	MeOH	ALR-065S	25
Ethyl acrylate	140-88-5	100 mg	Neat	ALR-042N	10
		1000 µg/mL	EtOH	ALR-042S-ET-10X	10
Ethyl paraben	120-47-8	100 mg	Neat	ALR-113N	10
		100 µg/mL	MeOH	ALR-113S	10
Ethylene diamine dihydrochloride	333-18-6	100 mg	Neat	ALR-114N	25
		100 µg/mL	MeOH	ALR-114S	25

Allergens continued on next page

Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
2-Ethylhexyl salicylate	118-60-5	100 mg	Neat	ALR-174N	$ 20
		100 µg/mL	AcCN	ALR-114S-CN	20
Eugenol	97-53-0	100 mg	Neat	ALR-005N	20
		1000 µg/mL	EtOH	ALR-005S-ET-10X	20
Farnesol	4602-84-0	100 mg	Neat	ALR-016N	20
		1000 µg/mL	EtOH	ALR-016S-ET-10X	20
Formaldehyde	50-00-0	100 µg/mL	Water	ALR-115S-W	10
Freon #11 Trichlorofluoromethane	75-69-4	200 µg/mL	MeOH	ALR-CFC-013S-2X	12
Freon #12 Dichlorodifluoromethane	75-71-8	200 µg/mL	MeOH	ALR-CFC-008S-2X	12
Freon #13 Chlorotrifluoromethane	75-72-9	200 µg/mL	MeOH	ALR-CFC-007S-2X	12
Freon #13b1 Bromotrifluoromethane	75-63-8	200 µg/mL	MeOH	ALR-CFC-001S-2X	12
Freon #21 Dichlorofluoromethane	75-43-4	200 µg/mL	MeOH	ALR-CFC-009S-2X	12
Freon #22 Chlorodifluoromethane	75-45-6	200 µg/mL	MeOH	ALR-CFC-003S-2X	12
Freon #23 Trifluoromethane	75-46-7	200 µg/mL	MeOH	ALR-CFC-015S-2X	12
Freon #40 Chloromethane	74-87-3	200 µg/mL	MeOH	ALR-CFC-005S-2X	12
Freon #113 1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	200 µg/mL	MeOH	ALR-CFC-014S-2X	10
Freon #114 1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	200 µg/mL	MeOH	ALR-CFC-010S-2X	20
Freon #115 Chloropentafluoroethane	76-15-3	200 µg/mL	MeOH	ALR-CFC-006S-2X	20
Freon #134a Tetrafluoroethane	811-97-2	200 µg/mL	MeOH	ALR-CFC-012S-2X	20
Freon #142b 1-Chloro-1,1-difluoroethane	75-68-3	200 µg/mL	MeOH	ALR-CFC-002S-2X	20
Freon #152a 1,1-Difluoroethane	75-37-6	200 µg/mL	MeOH	ALR-CFC-011S-2X	20
Freon #160 Chloroethane	75-00-3	200 µg/mL	MeOH	ALR-CFC-004S-2X	12
Geraniol	106-24-1	100 mg	Neat	ALR-012N	20
		1000 µg/mL	EtOH	ALR-012S-ET-10X	20
trans-2-Heptenal	18829-55-5	100 mg	Neat	ALR-044N	20
		1000 µg/mL	AcCN	ALR-044S-CN-10X	20
Heptyl paraben	1085-12-7	100 mg	Neat	ALR-117N	10
		100 µg/mL	MeOH	ALR-117S	10
trans-2-Hexenal diethyl acetal	67746-30-9	100 mg	Neat	ALR-045N	20
		1000 µg/mL	EtOH	ALR-045S-ET-10X	20
trans-2-Hexenal dimethyl acetal	18318-83-7	100 mg	Neat	ALR-046N	10
		1000 µg/mL	MeOH	ALR-046S-10X	10
Hexachlorophene (HCP)	70-30-4	100 mg	Neat	ALR-118N	10
		100 µg/mL	MeOH	ALR-118S	10
Hexyl cinnamaldehyde	101-86-0	1000 µg/mL	EtOH	ALR-021S-ET-10X	20
Homosalate (HMS)	118-56-9	100 µg/mL	AcCN	ALR-119S-CN	50
Hydroabietyl alcohol	13393-93-6	100 mg	Neat	ALR-047N	75
		1000 µg/mL	EtOH	ALR-047S-ET-10X	75
Hydroquinone monoethyl ether (4-Ethoxyphenol)	622-62-8	100 mg	Neat	ALR-048N	10
		1000 µg/mL	EtOH	ALR-048S-ET-10X	10
p-Hydroxyanisole	150-76-5	100 mg	Neat	ALR-145N	15
		100 µg/mL	MeOH	ALR-145S	15
4-Hydroxybenzoic acid (Paraben)	99-96-7	100 mg	Neat	ALR-069N	10
		100 µg/mL	AcCN	ALR-069S-CN	10
Hydroxy-citronellal	107-75-5	100 mg	Neat	ALR-006N	20
		1000 µg/mL	AcCN	ALR-006S-CN-10X	20
tris(Hydroxymethyl)nitromethane (Tris Nitro)	126-11-4	100 mg	Neat	ALR-169N	10
		100 µg/mL	MeOH	ALR-169S	10
Hydroxymethylpentylcyclohexenecarboxaldehyde	31906-04-4	100 mg	Neat	ALR-013N	20
		1000 µg/mL	AcCN	ALR-013S-CN-10X	20
Imidazolidinyl urea	39236-46-9	100 mg	Neat	ALR-120N	10
		100 µg/mL	MeOH	ALR-120S	10
α-Ionone	127-41-3	100 mg	Neat	ALR-171N	15
		100 µg/mL	MeOH	ALR-171S	15
β-Ionone	79-77-6	100 mg	Neat	ALR-172N	15
		100 µg/mL	MeOH	ALR-172S	15
Isobutyl paraben	4247-02-3	100 mg	Neat	ALR-121N	20
		100 µg/mL	MeOH	ALR-121S	20
Isoeugenol	97-54-1	100 mg	Neat	ALR-007N	20
		1000 µg/mL	EtOH	ALR-007S-ET-10X	20
Isopropyl paraben	4191-73-5	100 mg	Neat	ALR-122N	20
		100 µg/mL	MeOH	ALR-122S	20
Lanolin, anhydrous	8006-54-0	100 mg	Neat	ALR-123N	20
		100 µg/mL	MeOH	ALR-123S-A	20
Lead	7439-92-1	1000 µg/mL	2-5% HNO_3	ALR-MET-04S	34
d-Limonene	5989-27-5	100 mg	Neat	ALR-022N	20
		1000 µg/mL	EtOH	ALR-022S-ET-10X	20
Linalool	78-70-6	100 mg	Neat	ALR-018N	20
		1000 µg/mL	EtOH	ALR-018S-ET-10X	20
Mercury	7439-97-6	1000 µg/mL	2-5% HNO_3	ALR-MET-05S	34
Metabromsalon	2577-72-2	100 mg	Neat	ALR-128N	50
		100 µg/mL	MeOH	ALR-128S	50
7-Methoxycoumarin	531-59-9	100 mg	Neat	ALR-050N	10
		1000 µg/mL	AcCN	ALR-050S-CN-10X	10
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	1000 µg/mL	AcCN	ALR-051S-CN-10X	40
4-Methoxy-m-phenylenediamine-sulfate hydrate	6219-67-6	100 mg	Neat	ALR-072N	15
		100 µg/mL	MeOH	ALR-072S	15
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	100 mg	Neat	ALR-052N	20
		1000 µg/mL	AcCN	ALR-052S-CN-10X	20
4-Methyl-benzylidene camphor (4-MBC)	36861-47-9	100 mg	Neat	ALR-073N	50
		100 µg/mL	MeOH	ALR-073S	50



Neats as stated, Solutions in 1 mL

Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
6-Methylcoumarin (6-MC)	92-48-8	100 mg	Neat	ALR-075N	$ 25
		100 µg/mL	MeOH	ALR-075S	25
7-Methylcoumarin	2445-83-2	100 mg	Neat	ALR-054N	10
		1000 µg/mL	AcCN	ALR-054S-CN-10X	10
Methyl heptyne carbonate	111-12-6	100 mg	Neat	ALR-023N	20
		1000 µg/mL	EtOH	ALR-023S-ET-10X	20
5-Methyl-2,3-hexanedione (Acetyl isovaleryl)	13706-86-0	100 mg	Neat	ALR-055N	20
		1000 µg/mL	AcCN	ALR-055S-CN-10X	20
Methyl methacrylate monomer	80-62-6	100 mg	Neat	ALR-129N	10
		100 µg/mL	MeOH	ALR-129S	10
Methyl paraben	99-76-3	100 mg	Neat	ALR-130N	10
		100 µg/mL	MeOH	ALR-130S	10
Methyl trans-2-butenoate	623-43-8	100 mg	Neat	ALR-053N	30
		1000 µg/mL	MeOH	ALR-053S-10X	30
Methyldibromoglutaronitrile	35691-65-7	100 mg	Neat	ALR-132N	50
		100 µg/mL	MeOH	ALR-132S	50
Methylene chloride	75-09-2	100 mg	Neat	ALR-133N	35
		100 µg/mL	MeOH	ALR-133S	35
Methyleugenol	93-15-2	100 mg	Neat	ALR-061N	10
		1000 µg/mL	EtOH	ALR-061S-ET-10X	10
Monobenzyl phthalate (mBzP)	2528-16-7	100 mg	Neat	ALR-134N	24
		100 µg/mL	AcCN	ALR-134S-CN	24
Monobutyl phthalate (mBP)	131-70-4	100 mg	Neat	ALR-135N	12
		100 µg/mL	AcCN	ALR-135S-CN	12
Monoethanolamine (MEA) (2-Aminoethanol)	141-43-5	100 mg	Neat	ALR-136N	10
		100 µg/mL	MeOH	ALR-136S	10
Monoethyl phthalate (mEP)	2306-33-4	100 mg	Neat	ALR-137N	12
		100 µg/mL	AcCN	ALR-137S-CN	12
Monoethylhexyl phthalate (mEHP)	4376-20-9	100 mg	Neat	ALR-138N	24
		100 µg/mL	AcCN	ALR-138S-CN	24
Monomethyl phthalate	4376-18-5	100 mg	Neat	ALR-139N	12
		100 µg/mL	AcCN	ALR-139S-CN	12
Musk ambrette	83-66-9	1000 µg/mL	AcCN	ALR-056S-CN-10X	75
Nickel	7440-02-0	1000 µg/mL	2-5% HNO_3	ALR-MET-06S	34
N-Phenyl-p-phenylenediamine	101-54-2	100 mg	Neat	ALR-140N	15
		100 µg/mL	MeOH	ALR-140S	15
Oak Moss extract	90028-68-5	100 mg	Neat	ALR-026N	35
		1000 µg/mL	EtOH	ALR-026S-ET-10X	35
Octyl-dimethyl-PABA (OD-PABA)(Padimate O)	21245-02-3	100 mg	Neat	ALR-146N	15
		100 µg/mL	MeOH	ALR-146S	15
Octyl-methoxycinnamate (OMC)	5466-77-3	100 mg	Neat	ALR-144N	20
		100 µg/mL	MeOH	ALR-144S	20
4-Phenyl-3-buten-2-one	122-57-6	100 mg	Neat	ALR-058N	10
		1000 µg/mL	AcCN	ALR-058S-CN-10X	10
meta-Phenylenediamine (MPD)	108-45-2	100 mg	Neat	ALR-127N	10
		100 µg/mL	MeOH	ALR-127S	10
para-Phenylenediamine (PPD)	106-50-3	100 mg	Neat	ALR-147N	10
		100 µg/mL	MeOH	ALR-147S	10
Polyethylene glycol (PEG), appr. Molecular weight 200	25322-68-3	100 mg	Neat	ALR-149N-MW200	30
		100 µg/mL	MeOH	ALR-149S-MW200	30
Polyethylene glycol (PEG), appr. Molecular weight 400	25322-68-3	100 mg	Neat	ALR-149N-MW400	30
		100 µg/mL	MeOH	ALR-149S-MW400	30
Polyethylene glycol (PEG), appr. Molecular weight 600	25322-68-3	100 mg	Neat	ALR-149N-MW600	30
		100 µg/mL	MeOH	ALR-149S-MW600	30
Polyethylene glycol (PEG), appr. Molecular weight 1500	25322-68-3	100 mg	Neat	ALR-149N-MW1500	30
		100 µg/mL	MeOH	ALR-149S-MW1500	30
Polyethylene glycol (PEG), appr. Molecular weight 4000	25322-68-3	100 mg	Neat	ALR-149N-MW4000	30
		100 µg/mL	MeOH	ALR-149S-MW4000	30
Polyvinylpyrolidone PVP/PA Copolymer	9003-39-8	100 µg/mL	MeOH	ALR-150S	25
Potassium dichromate	7778-50-9	1000 µg/mL	Water	ALR-MET-07S	34
Potassium sorbate	24634-61-5	100 mg	Neat	ALR-152N	10
		100 µg/mL	MeOH	ALR-152S	10
Propyl paraben	94-13-3	100 mg	Neat	ALR-153N	10
		100 µg/mL	MeOH	ALR-153S	10
Propylene glycol (PG)	57-55-6	100 µg/mL	MeOH	ALR-154S	10
Protocatechuic acid	99-50-3	100 mg	Neat	ALR-155N	10
		100 µg/mL	AcCN	ALR-155S-CN	10
Pyrocatechol	120-80-9	100 mg	Neat	ALR-156N	10
		100 µg/mL	MeOH	ALR-156S	10
Quaternium-15	51229-78-8	100 mg	Neat	ALR-157N	20
		100 µg/mL	MeOH	ALR-157S	20
Resorcinol	108-46-3	100 mg	Neat	ALR-158N	35
		100 µg/mL	MeOH	ALR-158S	35
Salicylic acid	69-72-7	100 mg	Neat	ALR-173N	20
		100 µg/mL	Water	ALR-173S-W	20
Sodium hydroxide	1310-73-2	100 mg	Neat	ALR-159N	10
		100 µg/mL	MeOH	ALR-159S	10

Allergens continued on next page

Allergens & EU Directive List

Neats as stated, Solutions in 1 mL

Allergens

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Sodium nitrite	7632-00-0	100 mg	Neat	ALR-160N	$ 10
		100 µg/mL	Water	ALR-160S-W	10
Talc	14807-96-6	100 mg	Neat	ALR-161N	10
Tetrachlorosalicylanilide	1154-59-2	100 mg	Neat	ALR-162N	50
		100 µg/mL	MeOH	ALR-162S	50
Thimerosal	54-64-8	100 mg	Neat	ALR-163N	30
		100 µg/mL	MeOH	ALR-163S	30
Thiuram (Thiram) (Tetramethylthiouram disulfide)	137-26-8	100 mg	Neat	ALR-164N	10
		100 µg/mL	MeOH	ALR-164S	10
Tree Moss extract	90028-67-4	100 mg	Neat	ALR-025N	35
		1000 µg/mL	EtOH	ALR-025S-ET-10X	35
Tribomsalan	87-10-5	100 mg	Neat	ALR-167N	50
		100 µg/mL	MeOH	ALR-167S	50
Triethanolamine (TEA)	102-71-6	100 mg	Neat	ALR-168N	10
		100 µg/mL	MeOH	ALR-168S	10
Verbena oil (Lippia citriodora Kunth)	8024-12-2	100 mg	Neat	ALR-060N	20
		1000 µg/mL	EtOH	ALR-060S-ET-10X	20
Vinyl chloride	75-01-4	100 µg/mL	MeOH	ALR-170S	12
Zirconium	7440-67-7	1000 µg/mL	2-5% HNO_3	ALR-MET-08S	34

EU Directive 76/768/EEC

EU Directive List of 26 Regulated Contact Allergens:

Set of all 26 EU Allergens (in Solution) **ALR-EU26-R1-SET** **$ 425 /**
Each at 1000 µg/mL Conc. (1 mL) **26 x 1 mL**

Compound	CAS No.	Cat. No	Price/1 mL
Amyl cinnamal	122-40-7	ALR-001S-CN-10X	$ 20
Amylcinnamyl alcohol	101-85-9	ALR-008S-ET-10X	20
Anisyl alcohol	105-13-5	ALR-014S-ET-10X	20
Benzyl alcohol	100-51-6	ALR-002S-ET-10X	20
Benzyl benzoate	120-51-4	ALR-019S-ET-10X	20
Benzyl cinnamate	103-41-3	ALR-015S-ET-10X	20
Benzyl salicylate	118-58-1	ALR-009S-CN-10X	20
2-(4-tert-Butylbenzyl)propionaldehyde (technical grade)	80-54-6	ALR-017S-CN-10X	20
Cetone Alpha (technical grade)	127-51-5	ALR-024S-CN-10X	20
Cinnamal	104-55-2	ALR-010S-CN-10X	20
Cinnamyl alcohol	104-54-1	ALR-003S-ET-10X	20
Citral	5392-40-5	ALR-004S-CN-10X	20
b-Citronellol	106-22-9	ALR-020S-ET-10X	20
Coumarin	91-64-5	ALR-011S-CN-10X	20
Eugenol	97-53-0	ALR-005S-ET-10X	20
Farnesol	4602-84-0	ALR-016S-ET-10X	20
Geraniol	106-24-1	ALR-012S-ET-10X	20
Hexyl cinnamaldehyde	101-86-0	ALR-021S-ET-10X	20
Hydroxy-citronellal	107-75-5	ALR-006S-CN-10X	20
Hydroxymethylpentylcyclohexene carboxaldehyde	31906-04-4	ALR-013S-CN-10X	20
Isoeugenol	97-54-1	ALR-007S-ET-10X	20
d-Limonene	5989-27-5	ALR-022S-ET-10X	20
Linalool	78-70-6	ALR-018S-ET-10X	20
Methyl heptyne carbonate	111-12-6	ALR-023S-ET-10X	20
Oak Moss extract	90028-68-5	ALR-026S-ET-10X	35
Tree Moss extract	90028-67-4	ALR-025S-ET-10X	35

EU Directive List of substances that may be banned:

Set of 25 Allergens (in Solution) **ALR-EU36-R1-SET** **$ 400 /**
Neats at 100 mg, Solutions are in 1000 µg/mL Conc. (1 mL) **25 x 1 mL**

Compound	CAS No.	Cat. No	Price/1 mL
Alanroot (Inula helenium)	97676-35-2	ALR-027S-ET-10X	$ 15
Allylisothiocyanate	57-06-7	ALR-028S-ET-10X	15
Benzyl cyanide	140-29-4	ALR-029S-ET-10X	15
p-tert-Butylphenol	98-54-4	ALR-030S-ET-10X	15
Chenopodium oil (wormseed oil)	8006-99-3	ALR-031N (Only Neat) NOT IN SET	15
Diethyl maleate	141-05-9	ALR-033S-ET-10X	15
Dihydrocoumarin	119-84-6	ALR-034S-A-10X	15
Dimethyl citraconate	617-54-9	ALR-038S-ET-10X	35
6,10-Dimethyl-3,5,9-undecatrien-2-one (Pseudoionone)	141-10-6	ALR-040S-A-10X	15
Diphenylamine	122-39-4	ALR-041S-ET-10X	10
Ethyl acrylate	140-88-5	ALR-042S-ET-10X	10
trans-2-Heptenal	18829-55-5	ALR-044S-CN-10X	20
trans-2-Hexenal diethyl acetal	67746-30-9	ALR-045S-ET-10X	10
trans-2-Hexenal dimethyl acetal	18318-83-7	ALR-046S-10X	10
Hydroabietyl alcohol	13393-93-6	ALR-047S-ET-10X	75
Hydroquinone monoethyl ether (4-Ethoxyphenol)	622-62-8	ALR-048S-ET-10X	10
7-Methoxycoumarin	531-59-9	ALR-050S-CN-10X	10
4-(p-Methoxyphenyl)-3-butene-2-one	943-88-4	ALR-051S-CN-10X	40
1-(p-Methoxyphenyl)-1-penten-3-one	104-27-8	ALR-052S-CN-10X	20
7-Methylcoumarin	2445-83-2	ALR-054S-CN-10X	10
5-Methyl-2,3-hexanedione (Acetyl isovaleryl)	13706-86-0	ALR-055S-CN-10X	20
Methyl trans-2-butenoate	623-43-8	ALR-053S-10X	30
Methyleugenol	93-15-2	ALR-061S-ET-10X	10
Musk ambrette (solution only)	83-66-9	ALR-056S-CN-10X	75
4-Phenyl-3-buten-2-one	122-57-6	ALR-058S-CN-10X	10
Verbena oil (Lippia citriodora Kunth)	8024-12-2	ALR-060S-ET-10X	20

Technical Mixtures

When a compound has a purity identified as “Technical” or “Tech Mixture” it means that the standard is not comprised of just one main compound. These are mixtures of multiple chemicals that make up a particular product and every chemical in the mix are components that define the product. The analysis considers all compounds in the product. Aroclors, flame retardants, PBDE technical grade, halowaxes, and some allergens, plastic additives, and dyes are classified as “Technical Mixtures”.

Key to Catalog Numbers	
N	Neat, 100 mg
S	Solution in Methanol
S-A	Solution in Acetone
S-CN	Solution in Acetonitrile
S-ET	Solution in Ethanol
S-T	Solution in Toluene
S-W	Solution in Water

Sun Block

Set of 6 Sun Block Solutions **ALR-SUN-SET** **$ 176 / 6 x 1 mL**

Each at 100 µg/mL Conc. (1 mL)

Compound	CAS No.	Cat. No.	Price 1 mL
Benzophenone-3 (Bp-3)	131-57-7	ALR-081S-CN	$10
Butyl-methoxydibenzoylmethane(B-MDM) Sunblock, Parsol 1789	70356-09-1	ALR-086S	75
Homosalate (HMS)	118-56-9	ALR-119S	50
4-Methyl-benzylidene camphor (4-MBC)	36861-47-9	ALR-073S	50
Octyl-dimethyl-PABA (OD-PABA) (Padimate O)	21245-02-3	ALR-146S	15
Octyl-methoxycinnamate (OMC)	5466-77-3	ALR-144S	20

Parabens

Set of 11 Paraben Solutions **ALR-PAR-SET** **$ 104 / 11 x 1 mL**

Each at 100 µg/mL Conc. (1 mL)

Compound	CAS No.	Cat. No.	Price 1 mL
Benzyl paraben	94-18-8	ALR-083S	$ 10
Butyl paraben	94-26-8	ALR-085S	10
Ethyl paraben	120-47-8	ALR-113S	10
Heptyl paraben		ALR-117S	10
4-Hydroxybenzoic acid (Paraben)	99-96-7	ALR-069S-CN	10
Isobutyl paraben	4247-02-3	ALR-121S	20
Isopropyl paraben	4191-73-5	ALR-122S	20
Methyl paraben	99-76-3	ALR-130S	10
Potassium sorbate	24634-61-5	ALR-152S	10
Propyl paraben	94-13-3	ALR-153S	10
Protocatechuic acid	99-50-3	ALR-155S-CN	10

Phthalates

Set of 17 Phthalate Solutions **ALR-PHT-SET** **$ 234 / 17 x 1 mL**

Each at 100 µg/mL Conc. (1 mL)

Compound	CAS No.	Cat. No.	Price 1 mL
Benzyl butyl phthalate	85-68-7	ALR-082S	$ 12
Diamyl phthalate	131-18-0	ALR-098S	24
Dicyclohexyl phthalate	84-61-7	ALR-099S	32
Di(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ALR-097S	12
Diethyl phthalate	84-66-2	ALR-110S	12
Di-hexyl phthalate	84-75-3	ALR-100S	24
Diisodecyl phthalate	26761-40-0	ALR-101S	12
Diisononyl phthalate	68515-48-0	ALR-102S	32
Diisooctyl phthalate	27554-26-3	ALR-103S	12
Dimethyl phthalate (DMP)	131-11-3	ALR-111S	12
Di-n-butyl phthalate (DBP)	84-74-2	ALR-104S	12
Di-n-octyl phthalate	117-84-0	ALR-105S	12
Monobenzyl phthalate (mBzP)	2528-16-7	ALR-134S-CN	24
Monobutyl phthalate (mBP)	131-70-4	ALR-135S-CN	12
Monoethyl phthalate (mEP)	2306-33-4	ALR-137S-CN	12
Monoethylhexyl phthalate (mEHP)	4376-20-9	ALR-138S-CN	12
Monomethyl phthalate	4376-18-5	ALR-139S-CN	12

Metals

Set of 8 Metals Solutions **ALR-MET-SET** **$ 225 / 8 x 100 mL**

Each at 1000 µg/mL 2-5% HNO_3, except † in Water (100 mL Volume)

Compound	CAS No.	Cat. No.	Price 100 mL
Arsenic	7440-38-2	ALR-MET-01S	$ 34
Chromium	7440-47-3	ALR-MET-02S	34
Cobalt	7440-48-4	ALR-MET-03S	34
Lead	7439-92-1	ALR-MET-04S	34
Mercury	7439-97-6	ALR-MET-05S	34
Nickel	7440-02-0	ALR-MET-06S	34
Potassium dichromate	7778-50-9	ALR-MET-07S †	34
Zirconium	7440-67-7	ALR-MET-08S	34

† in Water

Key to Catalog Numbers	
N	Neat, 100 mg
S	Solution in Methanol
S-A	Solution in Acetone
S-CN	Solution in Acetonitrile
S-ET	Solution in Ethanol
S-T	Solution in Toluene
S-W	Solution in Water

Purchasing Neat Standards

There are two ways to purchase neat standards: Nominal weight and exact weight. With exact weight, the standards will come with the exact weight contained in the vial indicated on the label. The Cat. No. will have an X-WT to indicate that this is an exact weight. Rinse the sample out of the vial and cap with solvent and dilute to acheive the desired concentration. Unless specified, neat samples are provided with nominal weights. Typically, the vials contain up to 10 to 20% more product, however it is not known when you receive your standard what the exact amount is in the vial. Below is a standard procedure for removing all the neat material from the vial and determining the exact weight of the material in the vial.

Small amounts (5-10 mg) of powder often are spread over the surface of the vial and cap. If the chemical is a liquid it may coat the walls as a thin layer invisible to the eye.
To recover all of the contents contained in a vial of neat material please use the procedure described below:

1. Wipe the outside of the vial (containing the Standard) clean and dry (including the cap).
2. Weigh the entire unit on an analytical balance. Record the weight to the nearest 0.1 mg.
3. Carefully transfer the contents to a volumetric flask using a suitable solvent. Rinse the cap and vial several times to assure a complete transfer.
4. Dry inside and outside of the vial and cap with mild heat or inert gas.
5. Weigh the empty dry vial on the same analytical balance to the nearest 0.1 mg and calculate by difference the amount of material transferred.

Chlorofluorocarbon Propellants (CFCs)

Set of 15 ALR-CFCs Solutions **ALR-CFC-SET** **$ 175 / 15 x 1 mL**

Each at 200 µg/mL Conc. (1 mL)

Freon	Compound	CAS No.	Cat. No.	Price 1 mL
Freon #11	Trichlorofluoromethane	75-69-4	ALR-CFC-013S-2X	$ 12
Freon #12	Dichlorodifluoromethane	75-71-8	ALR-CFC-008S-2X	12
Freon #13	Chlorotrifluoromethane	75-72-9	ALR-CFC-007S-2X	12
Freon #13b1	Bromotrifluoromethane	75-63-8	ALR-CFC-001S-2X	12
Freon #21	Dichlorofluoromethane	75-43-4	ALR-CFC-009S-2X	12
Freon #22	Chlorodifluoromethane	75-45-6	ALR-CFC-003S-2X	12
Freon #23	Trifluoromethane	75-46-7	ALR-CFC-015S-2X	12
Freon #40	Chloromethane	74-87-3	ALR-CFC-005S-2X	12
Freon #113	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ALR-CFC-014S-2X	10
Freon #114	1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	ALR-CFC-010S-2X	20
Freon #115	Chloropentafluoroethane	76-15-3	ALR-CFC-006S-2X	20
Freon #134a	Tetrafluoroethane	811-97-2	ALR-CFC-012S-2X	20
Freon #142b	1-Chloro-1,1-difluoroethane	75-68-3	ALR-CFC-002S-2X	20
Freon #152a	1,1-Difluoroethane	75-37-6	ALR-CFC-011S-2X	20
Freon #160	Chloroethane	75-00-3	ALR-CFC-004S-2X	12

AllergenCheck™



Dyes

Azodyes may pose cancer risks and have been restricted in many countries, most notably of the European Union.

Neats at 100 mg. Solutions at 100 µg/mL in MeOH, except as noted.

Individual Dyes

Compound	Synonym	CAS No.	Neat Cat. No.	100 mg Price	Solution Cat. No.	1 mL Price
2-Amino-3-nitrophenol		603-85-0	DYE-107N	$ 22	DYE-107S	$ 22
2-Amino-4-chlorophenol		95-85-2	--------	---	DYE-034S *	12
2-Amino-5-(diethylamino)toluene monohydrochloride ***New***		2051-79-8	DYE-104N	12	DYE-104S	12
2-Aminophenol		95-55-6	DYE-108N	12	DYE-108S	12
Acid Red 26	*Ponceau Xylidine*	3761-53-3	--------	---	DYE-031S	12
Acid Violet 7 **NEW**		4321-69-1	DYE-121N	15	DYE-121S	15
Acid Violet 9 **NEW**		6552-76-2	DYE-122N	15	DYE-122S	15
Acid Violet 19 **NEW**		3244-88-0	DYE-123N	15	DYE-123S	15
Acid Violet 20 **NEW**			DYE-124N	15	DYE-124S	15
Acid Violet 30 **NEW**			DYE-125N-5MG	15	DYE-125S	15
Acid Violet 49 **NEW**		1694-09-3	DYE-120N	15	DYE-120S	15
Basic Blue 26	see Victoria Blue					
Basic Blue 7		2390-60-5	DYE-113N	12	DYE-113S	12
Basic Fuchsin		569-61-9	DYE-049N	15	DYE-049S	15
Basic Red 2		477-73-6	DYE-114N	12	DYE-114S	12
Basic Red 9		569-61-9	--------	---	DYE-030S	12
Basic Violet 1		8004-87-3	DYE-027N	12	DYE-027S	12
Basic Violet 3	Crystal Violet	548-62-9	DYE-028N	12	DYE-028S	12
Basic Violet 14		632-99-5	--------	---	DYE-012S	35
Congo Red	see Direct Red 28					
Crocein Scarlet 3b		5413-75-2	DYE-115N	12	DYE-115S	12
Crystal Violet	see Basic Violet 3					
D & C Red 7		5281-04-9	DYE-060N	12	DYE-060S	12
2,4-Diaminodiphenylamine		136-17-4	DYE-102N	22	--------	---
2,6-Diaminopyridine		141-86-6	DYE-103N	12	DYE-103S	12
N,N-Dimethyl-1,4-phenylenediamine		99-89-9	DYE-106N	12	DYE-106S	12
Direct Black 38		1937-37-7	--------	---	DYE-013S	35
Direct Blue 6		2602-46-2	--------	---	DYE-014S	35
Direct Red 28	*Congo Red*	573-58-0			DYE-064S	12
Disperse Blue 1		2475-45-8	--------	---	DYE-001S	25
Disperse Blue 3		2475-46-9	--------	---	DYE-004S	25
Disperse Blue 7		3179-90-6	--------	---	DYE-015S	35
Disperse Blue 26		3860-63-7	--------	---	DYE-016S	35
Disperse Blue 35		12222-75-2	--------	---	DYE-009S	25
Disperse Blue 102		12222-97-8	--------	---	DYE-017S	35
Disperse Blue 124		61951-51-7	--------	---	DYE-010S	25
Disperse Brown 1		23355-64-8	DYE-051N	25	DYE-051S	25
Disperse Orange 1		2581-69-3	--------	---	DYE-005S	25
Disperse Orange 3		730-40-5	--------	---	DYE-006S	35
Disperse Orange 11		82-28-0	--------	---	DYE-002S	25
Disperse Orange 37		13301-61-6	--------	---	DYE-011S	25
Disperse Red 1		2872-52-8	--------	---	DYE-007S	25
Disperse Red 11		2872-48-2	--------	---	DYE-018S	35
Disperse Red 17		3179-89-3	--------	---	DYE-019S	35
Disperse Yellow 1		119-15-3	--------	---	DYE-053S	25
Disperse Yellow 3		2832-40-8	DYE-003N	25	DYE-003S	25
Disperse Yellow 9		6373-73-5	--------	---	DYE-008S	25
Eriochrome Black A		3618-58-4	DYE-109N	12	DYE-109S	12
FD & C Blue 1		3844-45-9	DYE-062N	12	DYE-062S	12
FD & C Blue 2		860-22-0	DYE-063N	12	DYE-063S	12
FD & C Red 3		16423-68-0	DYE-057N	12	DYE-057S	12
FD & C Red 40		25956-17-6	DYE-056N	12	--------	---
FD & C Yellow 5		1934-21-0	DYE-058N	12	DYE-058S	12
FD & C Yellow 6		2783-94-0	DYE-059N	12	DYE-059S	12
Food Yellow 3	*Sunset Yellow FCF*	2783-94-0	DYE-024N	12	DYE-024S	12



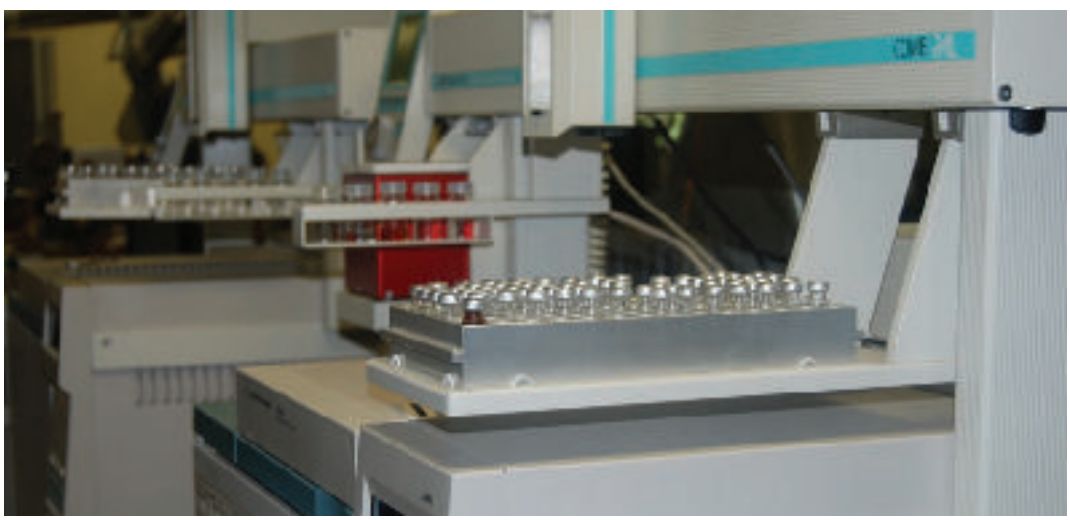
Neats at 100 mg. Solutions at 100 µg/mL in MeOH, except as noted.

Individual Dyes

Compound	Synonym	CAS No.	Neat Cat. No.	100 mg Price	Solution Cat. No.	1 mL Price
Mentanil Yellow **NEW**		587-98-4	DYE-117N	12	DYE-117S	12
2,3-Naphthalenediol		92-44-4	--------	---	DYE-033S *	35
2-Nitro-1,4-phenylenediamine		5307-14-2	DYE-110N	12	DYE-110S	12
Orange II sodium salt **NEW**		633-96-5	DYE-116N	12	DYE-116S	12
Para Red		6410-10-2	DYE-026N	12	DYE-026S	15
4-Phenylazoaniline hydrochloride		3457-98-5	DYE-046N	12	DYE-046S	12
Ponceau SX		4548-53-2	--------	---	DYE-112S	12
Ponceau Xylidine	see Acid Red 26					
Rhodamine B **NEW**		81-88-9	--------	---	DYE-118S	30
Solvent Orange 7	Sudan II	3118-97-6	DYE-021N	12	DYE-021S	12
Solvent Orange R	see Solvent Yellow 14					
Solvent Red 19	*Sudan Red 7B*	6368-72-5	DYE-025N	15	DYE-025S	15
Solvent Red 23	*Sudan III*	85-86-9	DYE-022N	12	DYE-022S	12
Solvent Red 24	*Sudan IV*	85-83-6	DYE-023N	15	DYE-023S	15
Solvent Yellow 1		3457-98-5	--------	---	DYE-029S	12
Solvent Yellow 14	*Sudan I, Solvent Orange R*	842-07-9	DYE-020N	12	DYE-020S	12
Sudan I	see Solvent Yellow 14					
Sudan II	Solvent Orange 7	3115-97-6	DYE-045N	12	DYE-045S	12
Sudan III	see Solvent Red 23					
Sudan IV	see Solvent Red 24					
Sudan Red 7B	see Solvent Red 19					
Sunfast D & C Red 34 **NEW**		569-61-9	DYE-061N	12	DYE-061S	12
Sunset Yellow FCF	see Food Yellow 3					
Timbasol Brown trans oxide **NEW**		569-61-9	DYE-055N	12	DYE-055S	12
Victoria Blue	*Basic Blue 26*	2580-56-5	DYE-111N	12	DYE-111S	12

* in AcCN

EU Directive Dyes on next page



Dyes

EU Directive 2002/61/EC Determination of Aryl Amine Breakdown Products in Azo Dyes

Individual Aryl Amine Standards

Compound	100 µg/mL in AcCN $ 25 / 1 mL	1000 µg/mL in AcCN $ 35 / 1 mL	10 µg/mL in Ethyl acetate for 10 mL $ 20 / 10 mL
o-Aminoazotoluene (01)	RAC-01	RAC-01-10X	RAC-01-EA-0.1X-10ML
4-Aminobiphenyl (02)	RAC-02	RAC-02-10X	RAC-02-EA-0.1X-10ML
2-Amino-4-nitrotoluene (03)	RAC-03	RAC-03-10X	RAC-03-EA-0.1X-10ML
Benzidine (04)	RAC-04	RAC-04-10X	RAC-04-EA-0.1X-10ML
4-Chloroaniline (05)	RAC-05	RAC-05-10X	RAC-05-EA-0.1X-10ML
4-Chloro-*o*-toluidine (06)	RAC-06	RAC-06-10X	RAC-06-EA-0.1X-10ML
p-Cresidine (07)	RAC-07	RAC-07-10X	RAC-07-EA-0.1X-10ML
2,4-Diaminoanisole * (08)	RAC-08	RAC-08-10X	RAC-08-EA-0.1X-10ML
4,4'-Diaminodiphenylmethane (09)	RAC-09	RAC-09-10X	RAC-09-EA-0.1X-10ML
2,4-Diaminotoluene (10)	RAC-10	RAC-10-10X	RAC-10-EA-0.1X-10ML
3,3'-Dichlorobenzidine (11)	RAC-11	RAC-11-10X	RAC-11-EA-0.1X-10ML
3,3'-Dimethoxybenzidine (12)	RAC-12	RAC-12-10X	RAC-12-EA-0.1X-10ML
3,3'-Dimethylbenzidine (13)	RAC-13	RAC-13-10X	RAC-13-EA-0.1X-10ML
3,3'-Dimethyl-4,4'-diaminodiphenylmethane (14)	RAC-14	RAC-14-10X	RAC-14-EA-0.1X-10ML
4,4'-Methylenebis(2-chloroaniline) (15)	RAC-15	RAC-15-10X	RAC-15-EA-0.1X-10ML
2-Naphthylamine (16)	RAC-16	RAC-16-10X	RAC-16-EA-0.1X-10ML
4,4'-Oxydianiline (17)	RAC-17	RAC-17-10X	RAC-17-EA-0.1X-10ML
4,4'-Thiodianiline (18)	RAC-18	RAC-18-10X	RAC-18-EA-0.1X-10ML
o-Toluidine (19)	RAC-19	RAC-19-10X	RAC-19-EA-0.1X-10ML
2,4,5-Trimethylaniline (20)	RAC-20	RAC-20-10X	RAC-20-EA-0.1X-10ML
p-Aminoazobenzene (21)	RAC-21	RAC-21-10X	RAC-21-EA-0.1X-10ML
2-Aminobiphenyl (22)	RAC-22	RAC-22-10X	RAC-22-EA-0.1X-10ML
o-Anisidine (23)	RAC-23	RAC-23-10X	RAC-23-EA-0.1X-10ML
3-Chloro-*o*-toluidine (24)	RAC-24	RAC-24-10X	RAC-24-EA-0.1X-10ML

RAC-R1-SET **$ 480 / 24 x 1 mL (Set includes the above ampules)** In Acetonitrile
100 µg/mL * In the form of the Sulfate hydrate 171 µg/mL in Pyridine (100 µg/mL as the base)

RAC-R1-10X-SET **$ 650 / 24 x 1 mL (Set includes the above ampules)** In Acetonitrile
1000 µg/mL in AcCN * In the form of the Sulfate hydrate 1,710 µg/mL in Pyridine (1000 µg/mL as the base)

Carcinogenic Aryl Amine Mix

AE-00049-R1 **$ 45 / 1 x 1 mL**
10 µg/mL in Ethyl acetate 23 comps.
AE-00049-SET **$ 55 / 2 x 1 mL**
Contains **AE-00049-R1** (23 comps. Mix) plus **RAC-08** (2,4-Diaminoanisole) listed on the left
AE-00049-R1-10ML **$ 245 / 1 x 10 mL**
10 µg/mL in Ethyl acetate 23 comps.

o-Aminoazotoluene (01)
4-Aminobiphenyl (02)
2-Amino-4-nitrotoluene (03)
Benzidine (04)
4-Chloroaniline (05)
4-Chloro-o-toluidine (06)
p-Cresidine (07)
4,4'-Diaminodiphenylmethane (09)
2,4-Diaminotoluene (10)
3,3'-Dichlorobenzidine (11)
3,3'-Dimethoxybenzidine (12)
3,3'-Dimethylbenzidine (13)
3,3'-Dimethyl-4,4'-diaminodiphenylmethane (14)
4,4'-Methylenebis(2-chloroaniline) (15)
2-Naphthylamine (16)
4,4'-Oxydianiline (17)
4,4'-Thiodianiline (18)
o-Toluidine (19)
2,4,5-Trimethylaniline (20)
p-Aminoazobenzene (21)
2-Aminobiphenyl (22)
o-Anisidine (23)
3-Chloro-*o*-toluidine (24)

Internal Standards

RAC-IS **$ 25 / 1 x 1 mL**
1000 µg/mL in AcCN
RAC-IS-EA **$ 25 / 1 x 1 mL**
1000 µg/mL in Ethyl acetate

3,3',5,5'-Tetramethylbenzidine

EU Directive 67/548/EEC Dyes

Criterion #22 Regulated Dyes
Carcinogenic

Compound	100 µg/ml in MeOH Cat. No.	1 mL
Disperse Blue 1	DYE-001S	$ 25
Disperse Orange 11	DYE-002S	25
Disperse Yellow 3	DYE-003S	25
Basic Violet 14	DYE-012S	35
Direct Black 38	DYE-013S	35
Direct Blue 6	DYE-014S	35

Criterion #23 Regulated Dye
Disperse dyes, Sensitizing

Compound	100 µg/ml in MeOH Cat. No.	1 mL
Disperse Blue 3	DYE-004S	$ 25
Disperse Orange 1	DYE-005S	25
Disperse Orange 3	DYE-006S	35
Disperse Red 1	DYE-007S	25
Disperse Yellow 9	DYE-008S	25
Disperse Blue 35	DYE-009S	25
Disperse Blue 124	DYE-010S	25
Disperse Orange 37	DYE-011S	25
Disperse Blue 7	DYE-015S	35
Disperse Blue 26	DYE-016S	35
Disperse Blue 102	DYE-017S	35
Disperse Red 11	DYE-018S	35
Disperse Red 17	DYE-019S	35

EU Directive 76/768/EEC Substances contained in Hair Dyes Ban

Compound	CAS No.	Neat 100 mg Cat. No.	Price	100 µg/ml in MeOH Cat. No.	1 mL Price
2-Amino-3-nitrophenol	603-85-0	DYE-107N	$ 22	DYE-107S	$ 22
2-Amino-5-(diethylamino)toluene monohydrochloride	2051-79-8	DYE-104N	12	DYE-104S	12
2-Aminophenol	95-55-6	DYE-108N	12	DYE-108S	12
Basic Blue 7	2390-60-5	DYE-113N	12	DYE-113S	12
Basic Red 2	477-73-6	DYE-114N	12	DYE-114S	12
Crocein Scarlet 3b	5413-75-2	DYE-115N	12	DYE-115S	12
2,4-Diaminodiphenylamine	136-17-4	DYE-102N	22	----------	---
2,6-Diaminopyridine	141-86-6	DYE-103N	12	DYE-103S	12
N,N-Diethyl-1,4-phenylenediamine Sulfate	6283-63-2	DYE-105N	12	DYE-105S	12
N,N-Dimethyl-1,4-phenylenediamine	99-89-9	DYE-106N	12	DYE-106S	12
Eriochrome Black A	3618-58-4	DYE-109N	12	DYE-109S	12
2-Nitro-1,4-phenylenediamine	5307-14-2	DYE-110N	12	DYE-110S	12
Ponceau SX	4548-53-2	----------	---	DYE-112S	12
Victoria Blue	2580-56-5	DYE-111N	12	DYE-111S	12

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

PFOA, Odor and Irritant Standards

Perfluorooctanoic Acid (PFOA)

The acronym PFOA is used to refer to not only the Perfluorooctanoic Acid, but also its principal salts. PFOS is used to refer to Perfluorooctane sulfonate. They are synthetic chemicals that do not occur naturally in the environment and are typically used to aid in the manufacturing of fluoropolymers. These polymers have valuable properties of fire resistance and oil, stain and grease repellence. Another common use is as fire fighting foams. Fluoroteloners will thermally and biologically decompose to form the PFOAs.

The EPA has indicated the potential need for concern and the necessity for additional analytical testing and monitoring. PFOAs have been determined to bioaccumulate and are highly persistent. Continued testing has shown that this class of compounds is widely distributed in the environment.

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price / 1 mL
Perfluoroctanoic acid	335-67-1	100 µg/mL	MeOH	PFOA-001S	$ 22
Perfluorooctane sulfonic acid	1763-23-1	100 µg/mL	MeOH	PFOS-001S	22
Potassium perfluorooctanesulfonate	2795-39-3	100 mg	NEAT	PFOS-002N	22
		100 µg/mL	MeOH	PFOS-002S	22
Scotchgard™ Pre-2002 Formulation (Tech mix)		100 µg/mL	MeOH	PFOS-SCG-001S	22
Scotchgard™ Post-2002 Formulation (Tech mix)		100 µg/mL	MeOH	PFOS-SCG-002S	22



Registered Trademarks
Scotchgard 3M

Odor Standards

The determination of odor in drinking water, waste water, and solids also include Japanese quantitative standards to meet the standard methods odor testing parameters. Odor Chemical Reference Materials, include both Quantitative and Qualitative Standards.

Individual Odor Standards

Solutions are in 1 mL, except * in 10 mL

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
Cumene	98-82-8	10 mg	NEAT	ODOR-06N	$ 20
(+/-) Geosmin	16423-19-1	2 µg/mL	MeOH	ODOR-01S	45
Indan	496-11-7	10 mg	NEAT	ODOR-12N	20
Indene	95-13-6	10 mg	NEAT	ODOR-11N	20
2-Isobutyl-3-methoxypyrazine *	24683-00-9	1000 µg/mL	MeOH	ODOR-17S-10ML	45
2-Isopropyl-3-methoxypyrazine *	25773-40-4	1000 µg/mL	MeOH	ODOR-16S-10ML	45
cis-3-Hexenyl acetate	3681-71-8	10 mg	NEAT	ODOR-08N	35
cis-3-Hexen-1-ol	928-96-1	10 mg	NEAT	ODOR-09N	35
2-Methylbenzofuran	4265-25-2	10 mg	NEAT	ODOR-14N	45
2-Methylisoborneol	2371-42-8	2 µg/mL	MeOH	ODOR-02S	45
Methyl isobutyl ketone	108-10-1	10 mg	NEAT	ODOR-10N	20
Naphthalene	91-20-3	10 mg	NEAT	ODOR-13N	20
trans-2, cis-6-Nonadienal	557-48-2	10 mg	NEAT	ODOR-03N	30
Styrene	100-42-5	10 mg	NEAT	ODOR-04N	20
Toluene	108-88-3	10 mg	NEAT	ODOR-05N	20
2,4,6-Trichloroanisole *	87-40-1	1000 µg/mL	MeOH	ODOR-15S-10ML	45
m-Xylene	108-38-3	10 mg	NEAT	ODOR-07N	20

Japan Drinking Water Odor Standard

ODOR-JDWOS **$ 80 / 1 x 1 mL**
100 µg/mL each in MeOH 2 comps.

(+/-) Geosmin
2-methylisoborneol



Odor Set

ODOR-STM-SET $ 200 / 12 x 10 mg

trans-2, cis-6-Nonadienal
Styrene
Toluene
Cumene
m-Xylene
cis-3-Hexenyl acetate
cis-3-Hexen-1-ol
Methyl isobutyl ketone
Indene
Indan
Naphthalene
2-Methylbenzofuran

Irritant Standards

Irritants are chemicals that can cause a reversible inflammation of nasal passages, tear ducts, or skin. Chemicals that are classified as irritants would usually be classified as corrosives, if they're in a more concentrated form such as tear gas and mace.

Compound	CAS No.	Conc.	Matrix	Cat. No.	Price
2-Chloroacetophenone **NEW**	532-27-4	100 mg/mL	Hexane	IRT-001S	$ 20
2'-Chloroacetophenone **NEW**	2142-68-9	100 mg/mL	Hexane	IRT-002S	20
3'-Chloroacetophenone **NEW**	99-02-5	100 mg/mL	Hexane	IRT-003S	25
4'-Chloroacetophenone **NEW**	99-91-2	100 mg/mL	Hexane	IRT-004S	25

CFCs and Refrigerants

Refrigerants - Chlorofluorohydrocarbons (CFCs)

Chlorofluorohydrocarbons (CFCs) are ozone-depleting substances that were used primarily in air-conditioning and refrigeration systems. Under the Clean Air Act, CFCs were to be phased out of production in the U.S. by January 1, 1996. In order to monitor various refrigerants that may be present in the environment, the following single and multi-component mixes are offered to help labs screen for these compounds.

Compound	CAS No.	Conc.	Solvent	Cat. No.	Price/ 1 mL
Bromochlorodifluoromethane	353-59-3	0.2 mg/mL	MeOH	M-REF-X-01	$ 20
Bromotrifluoromethane (Freon #13b1)	75-63-8	0.2 mg/mL	MeOH	M-REF-01	12
1-Chloro-1,1-difluoroethane (Freon #142b)	75-68-3	0.2 mg/mL	MeOH	M-REF-02	20
2-Chloro-1,1,1,2-tetrafluoroethane (Freon #124)	2837-89-0	0.2 mg/mL	MeOH	M-REF-X-02	20
Chlorodifluoromethane (Freon #22)	75-45-6	0.2 mg/mL	MeOH	M-REF-03	12
Chloroethane (Freon #160)	75-00-3	0.2 mg/mL	MeOH	M-REF-04	12
Chloromethane	74-87-3	0.2 mg/mL	MeOH	M-REF-05	12
Chloropentafluoroethane	76-15-3	0.2 mg/mL	MeOH	M-REF-06	20
Chlorotrifluoromethane (Freon #13)	75-72-9	0.2 mg/mL	MeOH	M-REF-07	12
1,2-Dibromotetrafluoroethane	124-73-2	0.2 mg/mL	MeOH	M-REF-X-03	20
1,1-Dichloro-1-fluoroethane (Freon #141B)	1717-00-6	0.2 mg/mL	MeOH	M-REF-X-04	20
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon #114)	76-14-2	0.2 mg/mL	MeOH	M-REF-10	20
2,2-Dichloro-1,1,1-trifluoroethane (Freon #123)	306-83-2	0.2 mg/mL	MeOH	M-REF-X-05	20
Dichlorodifluoromethane (Freon #12)	75-71-8	0.2 mg/mL	MeOH	M-REF-08	12
Dichlorofluoromethane (Freon #21)	75-43-4	0.2 mg/mL	MeOH	M-REF-09	12
1,1-Difluoroethane (Freon 152a)	75-37-6	0.2 mg/mL	MeOH	M-REF-11	20
Pentafluoroethane (Freon #125)	354-33-6	0.2 mg/mL	MeOH	M-REF-X-06	20
1,1,2,2-Tetrafluoroethane (Freon #134)	359-35-3	0.2 mg/mL	MeOH	M-REF-X-07	20
Tetrafluoroethane	811-97-2	0.2 mg/mL	MeOH	M-REF-12	20
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.2 mg/mL	MeOH	M-REF-14	10
		2.0 mg/mL	MeOH	M-REF-14-10X	20
Trichlorofluoromethane	75-69-4	0.2 mg/mL	MeOH	M-REF-13	12
1,1,1-Trifluoroethane (Freon #143A)	420-46-2	0.2 mg/mL	MeOH	M-REF-X-08	20
Trifluoromethane (Freon #23)	75-46-7	0.2 mg/mL	MeOH	M-REF-15	12



Refrigerant Solutions (CFCs)

Individuals

Each at 0.2 mg/mL in MeOH — **At stated prices / 1 mL**

Set

M-REF-SET — **$ 175 / 15 x 1 mL**
Each at 0.2 mg/mL in MeOH — (below 15 comps.)

Multi-Component Solution

M-REF — **$ 60 / 1 x 1 mL**
0.2 mg/mL each in MeOH — (below 15 comps.)

Freon #	Compound	Cat. No.	Price
13b1	Bromotrifluoromethane (01)	M-REF-01	$ 8
142b	1-Chloro-1,1-difluoroethane (02)	M-REF-02	20
22	Chlorodifluoromethane (03)	M-REF-03	8
160	Chloroethane (04)	M-REF-04	8
40	Chloromethane (05)	M-REF-05	8
115	Chloropentafluoroethane (06)	M-REF-06	20
13	Chlorotrifluoromethane (07)	M-REF-07	8
12	Dichlorodifluoromethane (08)	M-REF-08	8
21	Dichlorofluoromethane (09)	M-REF-09	8
114	1,2-Dichloro-1,1,2,2-tetrafluoroethane (10)	M-REF-10	20
152a	1,1-Difluoroethane (11)	M-REF-11	20
134a	Tetrafluoroethane (12)	M-REF-12	20
11	Trichlorofluoromethane (13)	M-REF-13	8
113	1,1,2-Trichloro-1,2,2-trifluoroethane (14)	M-REF-14	10
23	Trifluoromethane (15)	M-REF-15	8

Additional Individual Refrigerant Solutions (CFCs)

Individuals

Each at 0.2 mg/mL in MeOH — **At stated prices / 1 mL**

Set

M-REF-X-R1-SET — **$ 112 / set of 9 x 1 mL**
Each at 0.2 mg/mL in MeOH — (below 9 comps.)

Multi-Component Solution

M-REF-X — **$ 40 / 1 x 1 mL**
0.2 mg/mL each in MeOH — (below 8 comps., not including Freon 113a)

Freon #	Compound	Cat. No.	Price
12B1	Bromochlorodifluoromethane	M-REF-X-01	$ 20
124	2-Chloro-1,1,1,2-tetrafluoroethane	M-REF-X-02	20
114B2	1,2-Dibromotetrafluoroethane	M-REF-X-03	20
141b	1,1-Dichloro-1-fluoroethane	M-REF-X-04	20
123	2,2-Dichloro-1,1,1-trifluoroethane	M-REF-X-05	20
125	Pentafluoroethane	M-REF-X-06	20
134	1,1,2,2-Tetrafluoroethane	M-REF-X-07	20
113a	1,1,1-Trichlorotrifluoroethane (Freon 113a)	M-REF-X-09	18
143a	1,1,1-Trifluoroethane	M-REF-X-08	20

Qualitative Kits
PolyStandard™

These PolyStandard™ Kits were originally produced by Dr. Seaton Preston of the PolyScience Analytical Division 40 years ago. In 1999, AccuStandard acquired this division and renamed it PolyStandard. AccuStandard offers this selection of kits for qualitative and retention time analysis, and enables identification of unknown components or to analysis of a broad range of chemicals. All kits are in either vials or ampules (amps.) and each kit includes an empty transfer vial.

Alcohols

C_1-C_5 Alcohols
PS-111C-R1-SET
$ 110 / 14 ampules
Neats at 1 mL each.

(01) Methanol
(02) Ethanol
(03) 1-Propanol
(04) 2-Propanol
(05) 1-Butanol
(06) 2-Butanol
(07) 2-Methyl-1-propanol
(08) 2-Methyl-2-propanol
(09) 1-Pentanol
(10) 2-Pentanol
(11) 3-Pentanol
(12) 2-Methyl-1-butanol
(13) 3-Methyl-1-butanol
(14) 2-Methyl-2-butanol

C_6-C_8 Alcohols
PS-131C-R1-SET
$ 185 / 14 ampules
Neats at 1 mL each.

(01) 1-Hexanol
(02) 2-Hexanol
(03) 3-Hexanol
(04) 2-Methyl-1-pentanol
(05) 4-Methyl-2-pentanol
(06) 2-Methyl-3-pentanol
(07) 3-Methyl-3-pentanol
(08) 2-Ethyl-1-butanol
(09) 3,3-Dimethyl-2-butanol
(10) 1-Heptanol
(11) 2-Heptanol
(12) 2,4-Dimethyl-3-pentanol
(13) 1-Octanol
(14) 2-Octanol

nC_6-C_{22} Alcohols
PS-121C-R1-SET
$ 250 / 14 ampules
Neat at 10 mg each. Solutions are weight % in Ethylbenzene, 1 mL each.

(01) 1-Hexanol	Neat
(02) 1-Heptanol	Neat
(03) 1-Octanol	Neat
(04) 1-Nonanol	Neat
(05) 1-Decanol	Neat
(06) 1-Undecanol	Neat
(07) 1-Dodecanol	10%
(08) 1-Tridecanol	10%
(09) 1-Tetradecanol	10%
(10) 1-Pentadecanol	10%
(11) 1-Hexadecanol	10%
(12) 1-Octadecanol	5%
(13) 1-Eicosanol	5%
(14) 1-Docosanol	5%

Ketones

Normal Ketones
PS-411C-R1-SET
$ 160 / 14 ampules
Neats at 1 mL each.

(01) 2-Butanone
(02) 2-Pentanone
(03) 3-Pentanone
(04) 2-Hexanone
(05) 2-Heptanone
(06) 3-Heptanone
(07) 4-Heptanone
(08) 2-Octanone
(09) 3-Octanone
(10) 2-Nonanone
(11) 5-Nonanone
(12) 2-Methylcyclohexanone
(13) 3-Methylcyclohexanone
(14) 4-Methylcyclohexanone

Branched Ketones
PS-421D-R1-SET
$ 220 / 14 ampules
Neats at 1 mL each.

(01) 3-Methyl-2-butanone
(02) 3,3-Dimethyl-2-butanone
(03) 2-Methyl-3-pentanone
(04) 4-Methyl-2-pentanone
(05) 2,4-Dimethyl-3-pentanone
(06) 2-Methyl-3-hexanone
(07) 5-Methyl-2-hexanone
(08) 2-Methyl-3-heptanone
(09) 5-Methyl-3-heptanone
(10) 2,6-Dimethyl-4-heptanone
(11) Mesityl oxide
(12) Acetophenone
(13) Cyclopentanone
(14) Cyclohexanone

Food Additives

Antioxidants
PS-920CX-R1-SET
$ 180 / 15 vials
Neats at 10 mg each.

(01) BHA (2 and 3-*tert*-Butyl-4-methoxy phenol)
(02) BHT (2,6-*di*-*tert*-Butyl-4-methyl phenol)
(03) 4-Hydroxymethyl-2,6-*di*-*tert*-butyl phenol
(04) THBP (2,4,5-Trihydroxybutyrophenone)
(05) Ethoxyquin (1,2-Dihydro-6-ethoxy-2,2,4-trimethyl quinoline)
(06) *tert*-Butyl hydroquinone
(07) DLTDP (Dilaurylthiodipropionate)
(08) Thiodipmpionic acid
(09) Propyl gallate
(10) Ascorbyl palmitate
(11) Ascorbic acid
(12) Erythorbic acid (*iso*-Ascorbic acid)
(13) Tocopherols (mixed)
(14) Glycine
(15) Lecithin

Aromatics

Aromatics C_6-C_{16}
PS-251C-R1-SET
$ 180 / 14 ampules
Neats at 1 mL each.

(01) Benzene
(02) Toluene
(03) *o*-Xylene
(04) *m*-Xylene
(05) *p*-Xylene
(06) Ethylbenzene
(07) Cumene
(08) Mesitylene
(09) *p*-Cymene
(10) *n*-Propylbenzene
(11) *n*-Butylbenzene
(12) *n*-Hexylbenzene
(13) *n*-Octylbenzene
(14) *n*-Decylbenzene

Aromatics C_6-C_9
PS-252C-R1-SET
$ 195 / 14 ampules
Neats at 1 mL each.

(01) Toluene
(02) *o*-Xylene
(03) *m*-Xylene
(04) *p*-Xylene
(05) Ethylbenzene
(06) Cumene
(07) Mesitylene
(08) *n*-Propylbenzene
(09) 1,2,4-Trimethybenzene
(10) 1,2,3-Trimethybenzene
(11) 1-Ethyl-2-Methylbenzene
(12) 1-Ethyl-3-Methylbenzene
(13) 1-Ethyl-4-Methylbenzene
(14) Benzene

Sugars & Sugar Alcohols

Sugars & Sugar Alcohols
PS-960C-R1-SET $ 160 / 15 vials
Neats at 10 mg each.

(01) D-Xylose
(02) D-Ribose
(03) L-Arabinose
(04) D-Fructose
(05) D-Galactose
(06) α-D-Glucose
(07) D-Mannose
(08) L-Rhamnose monohydrate
(09) L-Sorbose
(10) Xylitol
(11) Ribitol (Adonitol)
(12) D-Arabitol
(13) L-Arabitol
(14) D-Mannitol
(15) D-Sorbitol



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Hydrocarbons

Alkanes nC_6-nC_{19}
PS-211C-R1-SET **$ 115 / 14 ampules**

Neats at 10 mg each. Solutions are weight % in Ethylbenzene, 1 mL each.

(01) *n*-Hexane	Neat
(02) *n*-Heptane	Neat
(03) *n*-Octane	Neat
(04) *n*-Nonane	Neat
(05) *n*-Decane	Neat
(06) *n*-Undecane	Neat
(07) *n*-Dodecane	Neat
(08) *n*-Tridecane	Neat
(09) *n*-Tetradecane	Neat
(10) *n*-Pentadecane	Neat
(11) *n*-Hexadecane	10%
(12) *n*-Heptadecane	10%
(13) *n*-Octadecane	10%
(14) *n*-Nonadecane	10%

Alkenes C_6-C_{10}
PS-231C-R1-SET **$ 250 / 14 ampules**

Neats at the stated quantities.

(01) Hexene-1	1 mL
(02) Hexene-2 (*cis, trans*)	0.5 mL
(03) 2-Methylpentene-1	1 mL
(04) 4-Methylpentene-1	1 mL
(05) 4-Methylpentene-2 (*cis, trans*)	0.5 mL
(06) 2-Ethylbutene-1	0.5 mL
(07) Heptene-1	1 mL
(08) Heptene-2 (*cis, trans*)	0.5 mL
(09) Heptene-3 (*cis, trans*)	0.5 mL
(10) Octene-1	1 mL
(11) Octene-2	1 mL
(12) 2-Ethylhexene-1	0.5 mL
(13) Nonene-1	1 mL
(14) Decene-1	1 mL

Alkenes C_8-C_{22}
PS-241D-R1-SET **$ 185 / 14 vials**

Neats at the stated quantities.

(01) 2,4,4-Trimethylpentene-1	1 mL
(02) 2,4,4-Trimethylpentene-2	0.5 mL
(03) Nonene-1	0.5 mL
(04) Nonene-4 (*cis, trans*)	0.5 mL
(05) 3,5,5-Trimethyl-1-hexene	0.5 mL
(06) Decene-1	1 mL
(07) Undecene-1	1 mL
(08) Dodecene-1	1 mL
(09) Tridecene-1	1 mL
(10) Tetradecene-1	1 mL
(11) Hexadecene-1	1 mL
(12) Octadecene-1	1 mL
(13) Eicosene-1	1 mL
(14) Docosene-1	0.5 mL

Alkanes nC_{19}-nC_{40}
PS-261C-R1-SET **$ 220 / 14 ampules**

At the stated conc. by weight % in Ethylbenzene, 1 mL each.

(01) *n*-Nonadecane	10%
(02) *n*-Eicosane	10%
(03) *n*-Heneicosane	10%
(04) *n*-Docosane	10%
(05) *n*-Tricosane	10%
(06) *n*-Tetracosane	10%
(07) *n*-Pentacosane	10%
(08) *n*-Hexacosane	10%
(09) *n*-Octacosane	10%
(10) *n*-Triacontane	1%
(11) *n*-Dotriacontane	1%
(12) *n*-Hexatriacontane	1%
(13) *n*-Octatriacontane	1%
(14) *n*-Tetracontane	1%

Naphthenes C_5-C_{10}
PS-281C-R1-SET **$ 210 / 14 ampules**

Neats at 1 mL each.

(01) Cyclopentane
(02) Methylcyclopentane
(03) Cyclohexane
(04) Methylcyclohexane
(05) *cis*-1,2-Dimethylcyclohexane
(06) *trans*-1,2-Dimethylcyclohexane
(07) *cis* & *trans*-1,3-Dimethylcyclohexane
(08) *cis* & *trans*-1,4-Dimethylcyclohexane
(09) Ethylcyclohexane
(10) *n*-Propylcyclohexane
(11) *iso*-Propylcyclohexane
(12) *n*-Butylcyclohexane
(13) *iso*-Butylcyclohexane
(14) *tert*-Butylcyclohexane

Glycols & Glycol Ethers

Glycols C_3-C_{12}
PS-151C-SET **$ 175 / 15 ampules**

Neats at 1 mL each. Solutions at the stated conc. by weight % in MeOH, at 1 mL each.

(01) 1,2-Propanediol	Neat	(09) 1,6-Hexanediol	10%
(02) 1,3-Propanediol	Neat	(10) 2,5-Hexanediol	10%
(03) 1,2-Butanediol	Neat	(11) 1,7-Heptanediol	10%
(04) 1,3-Butanediol	Neat	(12) 1,8-Octanediol	10%
(05) 1,4-Butanediol	Neat	(13) 1,9-Nonanediol	10%
(06) 2,3-Butanediol	Neat	(14) 1,10-Decanediol	10%
(07) 1,5-Pentanediol	Neat	(15) 1,12-Dodecanediol	10%
(08) 2,4-Pentanediol	Neat		

Glycols Ethers C_3-C_{10}
PS-160C-R1-SET **$ 160 / 15 ampules**

Neats at 1 mL each.

(01) Ethylene glycol methyl ether (2-Methoxyethanol)
(02) Ethylene glycol ethyl ether (2-Ethoxyethanol)
(03) Ethylene glycol *n*-butyl ether (2-*n*-Butoxyethanol)
(04) Ethylene glycol *n*-hexyl ether (2-Hexoxyethanol)
(05) Ethylene glycol phenyl ether (2-Phenoxyethanol)
(06) Diethylene glycol methyl ether [2-(2-Methoxyethoxy)-ethanol]
(07) Diethylene glycol ethyl ether [2-(2-Ethoxyethoxy)-ethanol]
(08) Diethylene glycol *n*-butyl ether [2-(2-*n*-Butoxyethoxy)-ethanol]
(09) Diethylene glycol *n*-hexyl ether [2-(2-*n*-Hexoxyethoxy)-ethanol]
(10) Propylene glycol methyl ether (1-Methoxy-isopropanol)
(11) Propylene glycol *n*-propyl ether (1-Propoxy-isopropanol)
(12) Propylene glycol *n*-butyl ether (1-*n*-Butoxy-isopropanol)
(13) Dipropylene glycol methyl ether [1-(1-Methoxyisopropoxy)isopropanol]
(14) Tripropylene glycol methyl ether
(15) Glycol ethers Mixture PS-16C
Neat at the stated weight %.
Ethylene glycol ethyl ether 10%
Ethylene glycol butyl ether 10%
Diethylene glycol ethyl ether 30%
Diethylene glycol butyl ether 50%

Aldehydes

Aldehydes
PS-450E-R2-SET **$ 190 / 15 ampules**

Solutions at the stated conc. by weight % in Toluene, at 1 mL each.

(01) Propionaldehyde *(Propanal)*	Neat
(02) Butyraldehyde *(Butanal)*	Neat
(03) Isobutyraldehyde *(2-Methylpropanal)*	Neat
(04) Valeraldehyde *(Pentanal)*	Neat
(05) Isovaleraldehyde *(3-Methylbutanal)*	Neat
(06) Caproicaldehyde *(Hexanal)*	Neat
(07) Enanthaldehyde *(Heptanal)*	Neat
(08) Caprylaldehyde *(Octanal)*	Neat
(09) Pelargonaldehyde *(Nonanal)*	Neat
(10) Capraldehyde *(Decanal)*	10%
(11) Undecylaldehyde *(Hendecanal)*	10%
(12) Lauraldehyde *(Dodecanal)*	10%
(13) Tridecylaldehyde *(Tridecanal)*	10%
(15) Benzaldehyde *(Benzenecarbonal)*	Neat



Acids & Esters

Saturated Fatty Acids Methyl Ester

SFA-N-SET $ 175 / 18 vials

Neats at 100 mg each.

(01) Methyloctanoate*(Caprylate)* C8:0
(02) Methylnonoate *(Pelargonate)* C9:0
(03) Methyldecanoate*(Caprate)* C10:0
(04) Methylundecanoate C11:0
(05) Methyldodecanoate *(Laurate)* C12:0
(06) Methyltridecanoate C13:0
(07) Methyltetradecanoate*(Myristate)* C14:0
(08) Methylpentadecanoate C15:0
(09) Methylhexadecanoate*(Palmitate)* C16:0
(10) Methylheptadecanoate*(Margarate)* C17:0
(11) Methyloctadecanoate*(Stearate)* C18:0
(12) Methyl 12-hydroxystearate C18:0
(13) Methylnonadecanoate C19:0
(14) Methyleicosanoate*(Arachidate)* C20:0
(15) Methylheneicosanoate C21:0
(16) Methyldocosanoate*(Behenate)* C22:0
(17) Methyltricosanoate C23:0
(18) Methyltetracosanoat*(Lignocerate)* C24:0

Mixture

SFA-N-SET $ 175 / 18 vials

Mixture at 100 mg each.

Ethyl Esters

PS-621C-R1-SET $ 160 / 14 vials

Solution at stated conc. by weight % in Hexane in 1 mL. Neats at 1 mL each.

(01) Ethyl acetate	Neat
(02) Ethyl propionate	Neat
(03) Ethyl butyrate	Neat
(04) Ethyl valerate	Neat
(05) Ethyl caproate	Neat
(06) Ethyl heptanoate	Neat
(07) Ethyl caprylate	Neat
(08) Ethyl pelargonate	Neat
(09) Ethyl caprate	Neat
(10) Ethyl undecanoate	Neat
(11) Ethyl laurate	Neat
(12) Ethyl myristate	10%
(13) Ethyl palmitate	10%
(14) Ethyl stearate	10%

Fatty Acids C_3-C_{18}

PS-651C-R1-SET $ 155 / 14 vials

Neat at the stated quantities

(01) Propionic acid	1 mL
(02) Butyric acid	1 mL
(03) Valeric acid	1 mL
(04) Caproic acid	1 mL
(05) Heptanoic acid	1 mL
(06) Caprylic acid	1 mL
(07) Pelargonic acid	1 mL
(08) Capric acid	1 mL
(09) *n*-Hendecanoic acid	1 mL
(10) 10-Hendecenoic acid	10 mg
(11) Lauric acid	10 mg
(12) Myristic acid	10 mg
(13) Palmitic acid	10 mg
(14) Stearic acid	10 mg

Dicarboxylic Acids

PS-670CX-R1-SET $ 160 / 15 vials

Neats at 10 mg each.

(01) Oxalic acid
(02) Malonic acid
(03) Maleic acid
(04) Fumaric acid
(05) Succinic acid
(06) Glutaric acid
(07) Adipic acid
(08) Pimelic acid
(09) Suberic acid
(10) Azelaic acid
(11) Sebacic acid
(12) 1,12-Dodecanedioic acid
(13) Phthalic acid
(14) Isophthalic acid
(15) Terephthalic acid

Amino Acids

L-Amino Acid Kit

PS-970C-R1-SET $ 160 / 22 vials

Neats at 10 mg each.

(01) L-Alanine
(02) L-Arginine
(03) L-Asparagine
(04) L-Aspartic acid
(05) L-Cysteine
(06) L-Cystine
(07) L-Glutamic acid
(08) L-Glutamine
(09) Glycine
(10) L-Histidine
(11) *trans*-4-Hydroxy-L-proline
(12) L-Isoleucine
(13) L-Leucine
(14) L-Lycine
(15) L-Methionine
(16) L-Phenylalanine
(17) L-Proline
(18) L-Serine
(19) L-Threonine
(20) L-Tryptophan
(21) L-Tyrosine
(22) L-Valine

Phenols

PS-170D-R1-SET $ 105 / 14 vials

At the stated quantities and conc. by weight % in Toluene.

(01) Phenol	1 mL/Neat
(02) *o*-Cresol	1 mL/Neat
(03) *m*-Cresol	1 mL/Neat
(04) *p*-Cresol	1 mL/Neat
(05) *o*-Ethylphenol	1 mL/10%
(06) *p*-Ethylphenol	1 mL/10%
(07) 2-*iso*-Propylphenol	1 mL/10%
(08) 2,3-Xylenol	1 mL/10%
(09) 2,4-Xylenol	1 mL/10%
(10) 2,5-Xylenol	1 mL/10%
(11) 2,6-Xylenol	1 mL/10%
(12) 3,4-Xylenol	1 mL/10%
(13) 3,5-Xylenol	1 mL/10%
(14) 2,3,5-Trimethylphenol	1 mL/5%

Pesticides & Herbicides

Chlorinated Pesticides

PS-510D-R1-SET
$ 180 / 15 ampules

Solution at 0.1% in MeOH, 1 mL each.

(01) DDT
(02) BHC
(03) DDE
(04) Endrin
(05) Lindane
(06) Toxaphene
(07) Chlordane
(08) Methoxychlor
(09) Heptachlor
(10) Strobane
(11) Aldrin
(12) Dieldrin
(13) TDE
(14) Endosulfan (mix of isomers)
(15) Chloropicrin

Organophosphorus Insecticides

PS-520E-R1-SET
$ 215 / 13 ampules

Solution at 0.1% in MeOH, 1 mL each.

(01) Methyl Parathion
(02) Ethion
(03) Co-Ral
(04) Guthion *(Azinphos methyl)*
(05) Di-Syston *(Disulfoton)*
(06) Phosdrin
(07) Naled (Dibrom)
(08) Diazinon
(09) DDVP *(Vapona) (Dichlorvos)*
(11) Cygon
(12) Malathion
(13) Zolone
(15) Phorate *(Thimet)*

Capillary Column Probe Solutions (also Grob Mixes)

The PS-CP-01 mixture provides a more complete capillary column test because a wider variety of organic compounds is included. Test mixture PS-CP-01 contains interactive and labile components. Refrigerate when not in use.

Non-Polar Columns Test Mix

PS-CP-01-1ML $ 95 / 1 mL

At the stated conc. in CH_2Cl_2
12 comps.

Methyl decanoate	0.42 mg/mL
Methyl undecanoate	0.42 mg/mL
Methyl dodecanoate	0.41 mg/mL
2,3-Butanediol	0.53 mg/mL
Dicyclohexylamine	0.31 mg/mL
2,6-Dimethylaniline	0.32 mg/mL
2,6-Dimethylphenol	0.32 mg/mL
2-Ethylhexanoic acid	0.38 mg/mL
Nonanal	0.40 mg/mL
Octanol	0.36 mg/mL
Undecane	0.29 mg/mL
Decane	0.28 mg/mL

Sulfur Compounds

PS-710C-R1-SET
$ 325 / 14 ampules

Neats at 1 mL each.

(01) *iso*-Propyl mercaptan
(02) *n*-Propyl mercaptan
(03) *iso*-Butyl mercaptan
(04) *n*-Butyl mercaptan
(05) *sec*-Butyl mercaptan
(06) *tert*-Butyl mercaptan
(07) *n*-Amyl mercaptan
(08) *tert*-Amyl mercaptan
(09) *n*-Hexyl mercaptan
(10) *n*-Heptyl mercaptan
(11) Ethyl sulfide
(12) Allyl sulfide
(13) Di-*n*-propyl sulfide
(14) Di-*n*-butyl sulfide

Calibration Mixture

PS-71C $ 50 / 1 mL vial

Neat at the stated weight % listed

Mercaptan Mixture PS-71C

Ethyl mercaptan	*13.4%*
n-Propyl mercaptan	*22.4%*
iso-Butyl mercaptan	*28.6%*
n-Butyl mercaptan	*35.6%*

Phthalate Esters

PS-840C-R1-SET
$ 260 / 15 vials

Neats at 1 mL each.

(01) Dimethyl phthalate
(02) Diethyl phthalate
(03) Di-*n*-propyl phthalate
(04) Di-*iso*-propyl phthalate
(05) Di-*n*-butyl phthalate
(06) Di-*iso*-butyl phthalate
(07) Dipentyl phthalate
(08) Dihexyl phthalate
(09) Diheptyl phthalate
(10) Dioctyl phthalate
(11) Dinonyl phthalate
(12) Didecyl phthalate
(13) Diundecyl phthalate
(14) Didodecyl phthalate
(15) Phthalate Mixture PS-84C
Neat at stated weight %

Dimethyl phthalate	*16.7%*
Diethyl phthalate	*16.7%*
Di-n-propyl phthalate	*33.3%*
Di-n-butyl phthalate	*33.3%*

Calibration Mixture

PS-84C-1ML $ 70 / 1 mL vial

Neat at the stated weight % listed above.

PCBs

PS-590D-R1-SET
$ 260 / 15 ampules

At 100 µg/mL in MeOH, 1 mL each.

(01) Aroclor 1016
(02) Aroclor 1221
(03) Aroclor 1232
(04) Aroclor 1242
(05) Aroclor 1248
(06) Aroclor 1254
(07) Aroclor 1260
(08) p,p-DDT
(09) p,p'-DDE
(10) p,p'-TDE
(11) Heptachlor
(12) Heptachlor epoxide
(13) Aldrin
(14) Dieldrin
(15) Lindane

Environmental Protection Agency (EPA) Methods

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*** These Methods can be found in the SW-846 update II, Nov. 1992, rev. 2**

Analytes in EPA Methods

Alphabetical List of Individual Standards for EPA Methods
AccuStandard has compiled an easy to use alphabetical list of all the popular single component solutions available for EPA methods, alphabetized by Chemical Name. Additionally, the CAS number index in the back of the catalog can easily be used to find a component with multiple synonyms.

The following have been excluded from this listing and are shown elsewhere in the catalog:

- PCB Congeners start on page 30 listed by Congener Number.
- PBDE Congeners start on page 53 listed by Congener Number equivalent.
- The complete Appendix IX list can be found pages 212-214.
- A comprehensive list of Pesticides can be found on pages 69-85.

If you would like a different solvent or concentration than is listed, please contact our Technical Service Department.



Solvent Key for Individual Solutions
M Methanol **D** Methylene chloride **H** Hexane **W** Water
A Acetone **CN** Acetonitrile **MT** *tert*-Butyl methyl ether

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price	Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Acenaphthene	100	M	APP-9-001	$ 15	**4-Aminobiphenyl**	100	D	APP-9-011	$ 20
83-32-9	1,000	M	APP-9-001-10X	25	92-67-1				
Acenaphthene-d_{10}	500	M	M-548.1-IS	30	**Aminocarb**	100	CN	M-632-01	12
15067-26-2					2032-59-9				
Acenaphthylene	100	M	APP-9-002	15	**2-Amino-4,6-dinitrotoluene**	100	M:CN	M-8330-13-0.1X	20
208-96-8	1,000	M	APP-9-002-10X	25	35572-78-2	1,000	M:CN	M-8330-13	20
Acephate	100	A	P-200S-A	12	**4-Amino-2,6-dinitrotoluene**	100	M:CN	M-8330-14-0.1X	20
30560-19-1	1,000	A	P-200S-A-10X	24	19406-51-0	1,000	M:CN	M-8330-14	20
Acetaldehyde	1,000	W	M-8315-01	20	**4-Aminopyridine**	100	M	P-407S	12
75-07-0	1,000	M	M-554-01 ❄	20	504-24-5				
Acetaldehyde-DNPH	100	CN	M-8315-R-DNPH-01	20	**Anilazine**	100	H	P-287S-H	12
1019-57-4	1,000	M:CN	M-554-DNPH-01	20	101-05-3				
Acetochlor	100	M	P-465S	32	**Aniline**	100	M	APP-9-012	12
34256-82-1					62-53-3	1,000	M	APP-9-012-10X	20
Acetone	100	M	APP-9-003 ❄	12	**Aniline-d_5**	200	D	M-625-01	20
67-64	10,000	W	M-8015B/5031-01	25	4165-61-1	2,000	D	M-625-01-10X	20
Acetone-DNPH	100	CN	M-8315-R2-DNPH-02	20	**Anthracene**	100	M	APP-9-013	15
1567-89-1					120-12-7	1,000	M	APP-9-013-10X	25
Acetonitrile	100	M	APP-9-005	12	**Anthracene-d_{10}**	200	D	M-625-02	20
75-05-8	1,000	M	APP-9-005-10X	12	1719-06-8				
Acetophenone	100	D	APP-9-004	12	**Aramite**	100	M	P-132S	22
98-86-2					140-57-8				
2-Acetylaminofluorene	100	D	APP-9-006	20	**Asulam**	100	M	P-276S	12
53-96-3					3337-71-1				
Acifluorfen	100	M	P-245S	12	**Atrazine**	100	M	P-005S	12
50594-66-6	1,000	M	P-245S-10X	24	1912-24-9	1,000	M	P-005S-10X	24
Acifluorfen methyl ester	100	M	P-246S	12	**Atrazine desethyl**	100	M	P-343S	22
50594-67-7	1,000	M	P-246S-10X	24	6190-65-4				
Acrolein	100	M:W	APP-9-007 ❄	12	**Atrazine-desisopropyl**	100	M	P-345S	22
107-02-8	1,000	M:W	APP-9-007-10X ❄	20	1007-28-9				
Acrolein-DNPH	100	CN	M-8315-R-DNPH-03	20	**Azamethiphos**	100	M	P-352S	12
888-54-0	1,000	CN	M-8315-R-DNPH-03-10X	30	35575-96-3				
Acrylamide	1,000	M	M-8032	10	**Azinphos-ethyl**	100	M	P-201S	32
79-06-1					2642-71-9	1,000	H	M-8141A-1-01	20
Acrylonitrile	100	M	APP-9-008	12	**Azinphos-methyl**	1,000	H	M-8140-01	20
107-13-1	1,000	M	APP-9-008-10X	20	86-50-0				
Alachlor	100	M	P-102S	12	**Azobenzene**	2,000	D	Z-014B-1	20
15972-60-8	1,000	M	P-102S-10X	24	103-33-3				
Alanap	100	M	P-274S	12	**Barbamate (Barban)**	100	M	P-202S	12
132-66-1					101-27-9	100	CN	M-632-02	12
Aldicarb	100	CN	M-531-06	12	**Baycarb**	100	M	P-347S	12
116-06-3					3766-81-2				
Aldicarb sulfone	100	CN	M-531-02	20	**Baygon**	100	M	P-009S	12
1646-88-4					114-26-1	100	CN	M-531-07	12
Aldicarb sulfoxide	100	M	P-131S	22	**Benazolin**	100	M	P-397S	22
1646-87-3	100	CN	M-531-01	20	3813-05-6				
Aldrin	100	M	P-002S	12	**Bendiocarb**	100	CN	M-639	20
309-00-2	1,000	M	P-002S-10X	24	22781-23-3				
Allethrin	100	M	P-267S	32	**Benfluralin**	100	M	P-237S	12
584-79-2					1861-40-1				
Allyl alcohol	10,000	W	M-8015B/5031-05	25	**Benfuracarb**	100	M	P-454S	42
107-18-6					82560-54-1				
Allyl chloride	100	M	APP-9-010	12	**Benomyl**	100	CN	P-104S-CN ❄	12
107-05-1					17804-35-2				
Ametryn	100	M	P-003S	12	**Bensulfuron-methyl**	100	M	P-597S	32
834-12-8	1,000	M	P-003S-10X	24	83055-99-6				



Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Bensulide 741-58-2	100	CN	M-636	$ 32
Bentazon 25057-89-0	100	CN	P-177S-CN	12
Bentazon methyl 61592-45-8	100	M	P-241S	42
Benz[a]anthracene 56-55-3	100	M	APP-9-016	15
	1,000	M	APP-9-016-10X	20
Benz[a]anthracene-d_{12} 1718-53-2	200	D	M-625-03	20
	2,000	D	M-625-03-10X	20
Benzaldehyde-DNPH 1157-84-2	100	CN	M-8315-R-DNPH-04	20
Benzene 71-43-2	200	M	M-502-01	10
	2,000	M	M-502-01-10X	14
Benzene-d_6 1076-43-3	200	M	M-624-SS-01	20
	2,000	M	M-624-SS-01-10X	25
Benzidine 92-87-5	50	D	M-625C-1	20
Benzo[a]pyrene 50-32-8	100	M	APP-9-020	20
	500	CN	M-8310-FL-05	25
Benzo[b]fluoranthene 205-99-2	100	M	APP-9-017	20
	1,000	M	APP-9-017-10X	20
Benzo[g,h,i]perylene 191-24-2	100	D	APP-9-019	20
	1,000	D	APP-9-019-10X	25
Benzo[k]fluoranthene 207-08-9	100	M	APP-9-018	20
	500	CN	M-8310-FL-08	30
Benzoic acid 65-85-0	2,000	D	Z-014D-1	20
Benzyl alcohol 100-51-6	100	M	APP-9-021	12
Benzyl benzoate 120-51-4	5,000	H	M-8061-IS	10
Benzyl butyl phthalate 85-68-7	100	M	APP-9-034	20
Benzyl chloride 100-44-7	200	M	M-8010-01	10
α-BHC 319-84-6	100	M	P-010S	22
	1,000	M	P-010S-10X	34
β-BHC 319-85-7	100	M	P-011S	22
	1,000	M	P-011S-10X	34
δ-BHC 319-86-8	100	M	P-012S	32
	1,000	M	P-012S-10X	52
BHC Tech 608-73-1	100	M	P-081S	12
Bifenox 42576-02-3	100	M	P-257S	12
Bifenthrin 82657-04-3	100	M	P-445S	42
Bitertanol 55179-31-2	100	M	P-351S	12
Bloc 60168-88-9	100	M	P-086S	22
Bolstar 35400-43-2	100	M	P-108S	12
	1,000	H	M-8140-02	30
Botran 99-30-9	100	M	P-013S	12
Bromacil 314-40-9	100	M	P-181S	12
Brominal 1689-84-5	100	M	P-256S	12
Bromoacetic acid 79-08-3	1,000	MT	M-552A-1	15
Bromoanisole	50	M	BAN-03	45
Bromobenzene 108-86-1	200	M	M-502-02	10
	2,000	M	M-502-02-10X	14
2-Bromobiphenyl 2052-07-5	1,000	A	M-8081-SS-X	10
Bromochloroacetic acid 5589-96-8	40	MT	M-552.2A-01	15
	1,000	MT	M-552A-R-02	25
Bromochloroacetonitrile 83463-62-1	5,000	A	M-551B-1	15
2-Bromochlorobenzene 694-80-4	200	M	M-624-SS-12	10
4-Bromochlorobenzene 106-39-8	2,000	M	M-8020-SS-1	20
Bromochlorodifluoromethane 353-59-3	200	M	M-REF-X-01	$ 20
Bromochloromethane 74-97-5	200	M	M-502-03	10
	2,000	M	M-502-03-10X	14
2-Bromo-1-chloropropane 3017-95-6	200	M	M-624-SS-04	10
Bromodichloroacetic acid 71133-14-7	40	MT	M-552.2A-02	20
Bromodichloromethane 75-27-4	200	M	M-502-04	10
	2,000	M	M-502-04-10X	14
4-Bromo-3,5-dimethylphenyl-N-methylcarbamate 672-99-1	100	CN	M-531-IS	25
p-Bromofluorobenzene 460-00-4	100	A	M-551.1-IS	10
	200	M	M-624-SS-03	10
Bromoform 75-25-2	200	M	M-502-05	10
	2,000	M	M-502-05-10X	14
Bromomethane 74-83-9	200	M	M-502-06	10
	2,000	M	M-502-06-10X	14
1-Bromo-2-nitrobenzene 577-19-5	1,000	A	M-8081-IS-DC	10
4-Bromophenyl phenyl ether 101-55-3	100	M	APP-9-033	15
Bromophos-ethyl 4824-78-6	100	M	P-372S	42
	1,000	M	P-372S-10X	54
2-Bromopropanoic acid 598-72-1	1,000	MT	M-552.1-SS	10
Bromotrifluoromethane (Freon #13b1)	200	M	M-REF-01	12
Bueno 2163-80-6	100	M	P-279S	12
Butachlor 23184-66-9	100	M	P-191S	12
	1,000	M	P-191S-10X	24
1,3-Butadiene 106-99-0	200	M	S-406A	10
	2,000	M	S-406A-10X	20
Butanal 123-72-8	1,000	M	M-554-02 ❄	20
Butanal-DNPH 1527-98-6	100	CN	M-8315-R-DNPH-05	20
	1,000	M:CN	M-554-DNPH-02	20
1-Butanol 71-36-3	10,000	W	M-8015B/5031-06	25
t-Butanol 75-65-0	2,000	M	S-410	10
	10,000	W	M-8015B/5031-07	25
Butylate 2008-41-5	100	M	P-088S	12
	1,000	M	P-088S-10X	24
n-Butylbenzene 104-51-8	200	M	M-502-07	10
	2,000	M	M-502-07-10X	14
sec-Butylbenzene 135-98-8	200	M	M-502-08	10
	2,000	M	M-502-08-10X	14
tert-Butylbenzene 98-06-6	200	M	M-502-09	10
	2,000	M	M-502-09-10X	14
Captafol 2425-06-1	100	M	P-254S	12
Captan 133-06-2	100	M	P-182S ❄	12
Carbaryl 63-25-2	100	M	P-083S	12
	1,000	M	P-083S-10X	24
Carbazole 86-74-8	1,000	M	M-634-IS	15
Carbendazim 10605-21-7	100	CN	M-631	20
Carbofuran 1563-66-2	100	CN	M-531-08	12
Carbon disulfide 75-15-0	100	M	APP-9-035	12
Carbon tetrachloride 56-23-5	200	M	M-502-10	10
	2,000	M	M-502-10-10X	14
Carbophenothion 786-19-6	100	M	P-095S	12
	1,000	H	M-8141A-1-02	20
Carbosulfan 55285-14-8	100	M	P-446S	22
Carboxin 5234-68-4	100	M	P-216S	12
Chloral hydrate 302-17-0	5,000	A	M-551B-2	15

❄ A ColdPAK is required.

Analytes in EPA Methods continued on next page

Analytes in EPA Methods

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price	Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Chloramben 133-90-4	100	M	P-243S	$ 12	**3-Chloro-1,2-propanediol** 96-24-2	100	M	P-408S	$ 12
Chloramben methyl ester 7286-84-2	100	M	P-272S	22	**Chloropropylate** 5836-10-2	100	M	P-213S	12
Chlorbenside 103-17-3	100 1,000	M M	P-107S P-107S-10X	22 44	**2-Chloro-1,1,1,2-tetrafluoroethane** (Freon #124)	200	M	M-REF-X-02	20
α-Chlordane 5103-71-9	100 100	M H	P-134S P-134S-H	22 22	**Chlorothalonil** 1897-45-6	100 1,000	M M	P-222S P-222S-10X	12 24
Chlordane 57-74-9	100 1,000	M M	P-017S P-017S-10X	12 15	**2-Chlorotoluene** 95-49-8	200 2,000	M M	M-502-15 M-502-15-10X	10 14
γ-Chlordane 5103-74-2	100 1,000	M M	P-135S P-135S-10X	22 34	**4-Chlorotoluene** 106-43-4	200 2,000	M M	M-502-16 M-502-16-10X	10 14
Chlordene 3734-48-3	100	M	P-136S	22	**Chlorotrifluoromethane** (Freon #13)	200	M	M-REF-07	12
Chlorfenvinphos 470-90-6	100 1,000	M H	P-139S M-8141A-1-03	22 20	**Chlorpropham** 101-21-3	100	CN	M-632-05	12
Chlorflurecol-methyl ester 2536-31-4	100	M	P-401S	52	**Chlorpyrifos** 2921-88-2	1,000	H	M-8140-03	20
Chlorimuron-ethyl 90982-32-4	100	CN	P-284S-CN	50	**Chlorpyrifos-methyl** 5598-13-0	100	M	P-223S	12
bis(2-Chloro-1-methylethyl)ether 108-60-1	100	D	APP-9-028	20	**Chlorsulfuron** 64902-72-3	100	CN	P-262S-CN	22
Chloroacetic acid 79-11-8	1,000	MT	M-552A-2	15	**Chrysene** 218-01-9	100 500	M CN	APP-9-049 M-8310-FL-09	15 25
p-Chloroaniline 106-47-8	100	M	APP-9-038	12	**Chrysene-d_{12}** 1719-03-5	4,000	D	Z-014J-2	20
Chlorobenzene 108-90-7	200 2,000	M M	M-502-11 M-502-11-10X	10 14	**Clethodim** 99129-21-2	100 1,000	CN CN	P-602S-CN P-602S-CN-10X	32 44
Chlorobenzilate 510-15-6	100 1,000	CN CN	P-133S-CN P-133S-CN-10X	12 24	**Clopyralid methyl ester** 1532-24-7	100	M	P-488S	32
Chlorodibromoacetic acid 5278-95-5	100	MT	M-552.2A-03	20	**Coumaphos** 56-72-4	100 1,000	M H	P-019S M-8140-04	12 20
1-Chloro-1,1-difluoroethane (Freon #142b)	200	M	M-REF-02	20	**4-CPA** 122-88-3	100	M	P-373S	12
Chlorodifluoromethane (Freon #22)	200	M	M-REF-03	12	**m-Cresol** 108-39-4	100 1,000	D D	APP-9-050 APP-9-050-10X	12 15
Chloroethane 75-00-3	200 2,000	M M	M-502-12 M-502-12-10X	10 14	**o-Cresol** 108-39-4	100 2,000	D D	APP-9-051 APP-9-051-20X	12 20
Chloroethane (Freon #160)	200	M	M-REF-04	12	**p-Cresol** 106-44-5	100	D	APP-9-052	12
bis(2-Chloroethoxy)methane 111-91-1	100 1,000	D M	APP-9-026 APP-9-026-M-10X	20 20	**Crotonaldehyde** 123-73-9	1,000	M	M-554-03 ❄	20
bis(2-Chloroethyl)ether 111-44-4	100	M	APP-9-027	20	**Crotonaldehyde-DNPH** 1527-96-4	100 1,000	CN M:CN	M-8315-R-DNPH-06 M-554-DNPH-03	20 20
2-Chloroethylvinyl ether 110-75-8	200 2,000	M M	M-601C M-601C-10X	10 10	**Crufomate** 299-86-5	100	M	P-292S	12
1-Chloro-2-fluorobenzene 348-51-6	2,000	M	S-163	10	**Cyanazine** 21725-46-2	100	CN	M-629	20
1-Chloro-4-fluorobenzene 352-33-0	200	M	M-624-SS-13	10	**Cycloate** 1134-23-2	100	M	P-248S	12
Chloroform 67-66-3	200 2,000	M M	M-502-13 M-502-13-10X	10 14	**Cyclohexanone** 108-94-1	1,000	M	M-554-04 ❄	20
1-Chlorohexane 544-10-5	200 2,000	M M	M-8010R-1-04 M-8010R-1-04-10X	15 20	**Cyclohexanone-DNPH** 1589-62-4	100	CN	M-8315-R-DNPH-07	20
Chloromethane 74-87-3	200 2,000	M M	M-502-14 M-502-14-10X	10 14	**Cypermethrin** 52315-07-8	100 1,000	M M	P-225S P-225S-10X ❄	42 54
bis-(Chloromethyl)ether 542-88-1	100	H	S-006	20	**Cyprazine** 22936-86-3	100	M	P-420S	22
4-Chloro-3-methylphenol 59-50-7	100	M	APP-9-041	12	**Cyromazine** 66215-27-8	100	M	P-296S	22
2-Chloronaphthalene 91-58-7	100	M	APP-9-045	12	**2,4-D** 94-75-7	100 1,000	M M	P-020S P-020S-10X	12 24
4-Chloro-3-nitrobenzotrifluoride 121-17-5	1,000	A	M-8081-SS-DC	20	**2,6-D acid** 575-90-6	100 100	M CN	P-690S P-690S-CN	22 22
Chloropentafluoroethane 76-15-3	200	M	M-REF-06	20	**2,4-D butoxyethyl ester** 1929-73-3	100 1,000	H H	P-438S-H P-438S-H-10X	12 24
2-Chlorophenol 95-57-8	100	M	APP-9-046	12	**2,4-D ethyl ester** 533-23-3	100	M	P-636S	12
2-Chlorophenol-d_4 93951-73-6	200	D	M-625-20	20	**2,4-D ethylhexyl ester** 1928-43-4	100	H	P-439S-H	12
4-Chlorophenyl phenyl ether 7005-72-3	100	M	APP-9-047	20	**2,4-D methyl ester** 1928-38-7	100 200	M H	P-021S M-8150-01	12 15
Chloropicrin 76-06-2	5,000	A	M-551B-3	15	**Dacthal** 1861-32-1	100	M	P-196S	12
Chloroprene 126-99-8	100 1,000	M M	APP-9-048-R1 APP-9-048-R1-10X	12 20	**Dalapon acid** 75-99-0	40 100	MT CN	M-552.2A-04 P-140S-CN	15 12

Analytes in EPA Methods



Solvent Key for Individual Solutions
M Methanol **D** Methylene chloride **H** Hexane **W** Water
A Acetone **CN** Acetonitrile **MT** *tert*-Butyl methyl ether

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Dalapon methyl ester 17640-02-7	200	M	M-552.1-01	$ 25
Danitol 39515-41-8	100	M	P-263S	42
	1,000	M	P-263S-10X	54
Dasanit 115-90-2	100	M	P-235S	22
Dazomet 533-74-4	25	A	M-1659-MS	10
2,4-D-PFB	100	MT	M-8150-02-PFB	30
2,4-DB acid 94-82-6	100	M	P-141S	12
	200	M	M-8150S-A-02	15
2,4-DB methyl ester 18625-12-2	100	M	P-228S	22
	200	H	M-8150-02	15
DCPA diacid 2136-79-0	100	M	P-320S	22
	100	CN	P-320S-CN	22
p,p'-DDA 83-05-6	100	M	P-444S	32
o,p'-DDD 53-19-0	100	M	P-024S	12
p,p'-DDD 72-54-8	100	M	P-025S	12
o,p'-DDE 3424-82-6	100	M	P-026S	22
p,p'-DDE 72-55-9	100	M	P-027S	12
4,4'-DDMU 1022-22-6	100	M	P-424S	22
o,p'-DDT 789-02-6	100	M	P-028S	22
p,p'-DDT 50-29-3	100	M	P-029S	12
DDT, Tech 50-29-3	100	M	P-346S	12
	100	CN	P-346S-CN	12
Decachlorobiphenyl 2051-24-3	35	TP	C-209S	12
	500	MT	M-508-SS-2	10
Decafluorobiphenyl 434-90-2	200	D	M-625-04	20
	2,000	D	M-625-04-10X	22
Decafluorotriphenylphosphine 5074-71-5	10	D	M-680-TS	10
	25	D	M-625C-3	20
Decanal 112-31-2	1,000	M	M-554-05	20
Decanal-DNPH	100	CN	M-8315-R-DNPH-08	20
	1,000	M:CN	M-554-DNPH-05	20
Deet (Off®)	100	M	P-255S	12
DEF 6 78-48-8	100	M	P-150S	12
Deltamethrin 52918-63-5	100	M	P-355S	32
Demeton-S 126-75-0	100	M	P-271S	22
Demeton-S-methyl 919-86-8	100	M	P-482S	42
DFTPP 5074-71-5	50	A	M-1653-TS	20
	100	D	M-525-TS	20
DFTPPO	100	CN	M-553-PC	15
Diallate 2303-16-4	100	M	P-142S	12
2,6-Diamino-4-nitrotoluene 59229-75-3	100	CN	M-8330-ADD-13	40
2,4-Diamino-6-nitrotoluene 6629-29-4	100	CN	M-8330-ADD-12	40
Diazinon 333-41-5	100	M	P-033S	12
	1,000	M	P-033S-10X	24
Dibenz[a,h]anthracene 53-70-3	100	M	APP-9-058	15
	500	CN	M-8310-FL-10	20
Dibenzofuran 132-64-9	100	M	APP-9-059	12
Dibromoacetic acid 631-64-1	20	MT	M-552.2A-05	$ 15
	1,000	MT	M-552A-5	15
Dibromoacetonitrile 3252-43-5	5,000	A	M-551B-4	15
4,4'-Dibromobiphenyl 92-86-4	200	D	M-625-05	20
	2,000	D	M-625-05-10X	20
Dibromochloromethane 124-48-1	200	M	M-502-17	10
	2,000	M	M-502-17-10X	14
1,2-Dibromo-3-chloropropane 96-12-8	200	M	M-502-18	10
	2,000	M	M-502-18-10X	14
1,2-Dibromoethane 106-93-4	200	M	M-502-19	10
	2,000	M	M-502-19-10X	14
Dibromofluoromethane 1868-53-7	200	M	M-8260-SS-2	20
	2,000	M	M-8260-SS-2-10X	25
Dibromomethane 74-95-3	200	M	M-502-20	10
	2,000	M	M-502-20-10X	14
a,a-Dibromo-m-xylene 626-15-3	1,000	A	M-8081-IS-X	10
4,4'-Dibromooctafluorobiphenyl 10386-84-2	200	D	M-625-06	20
	2,000	D	M-625-06-10X	20
1,2-Dibromopropane 78-75-1	5,000	M	M-552-IS	15
	10,000	H	M-556-IS	30
2,3-Dibromopropionic acid 600-05-5	1,000	MT	M-552.2-SS	10
	20,000	MT	M-552-SS	15
1,2-Dibromotetrafluoroethane 124-73-2	200	M	M-REF-X-03	20
Dibutylchlorendate 1770-80-5	100	M	P-109S	12
Dicamba 1918-00-9	100	M	P-008S	12
	1,000	M	P-008S-10X	24
Dicamba methyl ester 6597-78-0	100	M	P-071S	22
	200	H	M-8150-06	15
Dicapthon 2463-84-5	100	M	P-035S	12
	1,000	M	P-035S-10X	24
Dichlobenil 1194-65-6	100	M	P-275S	12
Dichlofenthion 97-17-6	100	M	P-211S	12
Dichlone 117-80-6	100	M	P-253S	12
Dichlormid 37764-25-3	100	M	P-675S	32
Dichloroacetic acid 79-43-6	60	MT	M-552.2A-06	15
	1,000	MT	M-552A-3 ❄	15
Dichloroacetonitrile 3018-12-0	5,000	A	M-551B-5	15
1,2-Dichlorobenzene 95-50-1	200	M	M-502-21	10
	2,000	M	M-502-21-10X	14
1,3-Dichlorobenzene 541-73-1	200	M	M-502-22	10
	2,000	M	M-502-22-10X	14
1,4-Dichlorobenzene 106-46-7	200	M	M-502-23	10
	2,000	M	M-502-23-10X	14
m-Dichlorobenzene 541-73-1	100	M	APP-9-065	12
p-Dichlorobenzene 106-46-7	100	M	APP-9-066	12
1,2-Dichlorobenzene-d_4 2199-69-1	200	M	M-624-SS-11	20
	2,000	M	M-624-SS-11-10X	20
1,4-Dichlorobenzene-d_4 3855-82-1	2,000	M	Z-014J-3-M-0.5X	20
	4,000	D	Z-014J-3	20
3,3'-Dichlorobenzidine 91-94-1	100	M	APP-9-067	20
	2,000	M	Z-014F-2	20
3,5-Dichlorobenzoic acid 51-36-5	100	M	P-242S	12
	1,000	M	P-242S-10X	14
4,4'-Dichlorobenzophenone 90-98-2	100	M	P-295S	12
	1,000	M	P-295S-10X	24
4,4'-Dichlorobiphenyl 2050-68-2	500	MT	M-508-SS	10
1,4-Dichlorobutane 110-56-5	200	M	M-624-SS-05	10

❄ A ColdPAK is required.

Analytes in EPA Methods continued on next page

Analytes in EPA Methods

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price	Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
trans-1,4-Dichloro-2-butene 110-57-6	100	M	APP-9-068	$ 12	**2,2'-Difluorobiphenyl** 388-82-9	200 2,000	D D	M-625-07 M-625-07-10X	$ 20 20
Dichlorodifluoromethane 75-71-8	200 2,000	M M	M-502-24 M-502-24-10X	10 14	**4,4'-Difluorobiphenyl** 398-23-2	100	CN	M-550-IS	20
Dichlorodifluoromethane (Freon #12)	200	M	M-REF-08	12	**1,1-Difluoroethane** (Freon 152a)	200	M	M-REF-11	20
1,1-Dichloroethane 75-34-3	200 2,000	M M	M-502-25 M-502-25-10X	10 14	**Dimefox** 115-26-4	100	M	P-299S	32
1,2-Dichloroethane 107-06-2	200 2,000	M M	M-502-26 M-502-26-10X	10 14	**Dimethoate** 60-51-5	100 1,000	M M	P-039S P-039S-10X	22 34
cis-1,2-Dichloroethene 156-59-2	200 2,000	M M	M-502-28 M-502-28-10X	10 14	**Dimethyl phosphate** 813-78-5	100	M	P-442S	12
1,2-Dichloroethane-d_4 17060-07-0	200 2,000	M M	M-624-SS-06 M-624-SS-06-10X	20 20	**Dimethyl phthalate** 131-11-3	100 1,000	M M	APP-9-088 APP-9-088-10X	12 20
1,1-Dichloroethene 75-35-4	200 2,000	M M	M-502-27 M-502-27-10X	10 14	**2,3-Dimethyl-2,3-dinitrobutane (DMNB)** 3964-18-9	100	CN	M-8330-ADD-21	30
trans-1,2-Dichloroethene 156-60-5	200 2,000	M M	M-502-29 M-502-29-10X	10 14	**1,3-Dimethyl-2-nitrobenzene** 81-20-9	250 1,000	MT MT	M-507-SS M-507-SS-4X	10 20
1,1-Dichloro-1-fluoroethane (Freon #141B)	200	M	M-REF-X-04	20	**4-Dimethylaminoazobenzene** 60-11-7	100	D	APP-9-083	20
Dichlorofluoromethane 75-43-4	200 2,000	M M	M-502-61 M-502-61-10X	10 14	**7,12-Dimethylbenz[a]anthracene** 57-97-6	100	D	APP-9-084	20
Dichlorofluoromethane (Freon #21)	200	M	M-REF-09	12	**2,5-Dimethylbenzaldehyde-DNPH** 152477-96-8	100	CN	M-8315-R-DNPH-09	20
Dichloromethane 75-09-2	200 2,000	M M	M-502-39 M-502-39-10X	10 10	**3,3'-Dimethylbenzidine** 119-93-7	100	D	APP-9-085	20
Dichlorophen 97-23-4	100	M	P-232S	12	**a,a-Dimethylphenethylamine** 122-09-8	100	D	APP-9-086	20
2,4-Dichlorophenol 120-83-2	100	M	APP-9-075	12	**2,4-Dimethylphenol** 105-67-9	100	M	APP-9-087	12
2,6-Dichlorophenol 87-65-0	100	D	APP-9-076	12	**Di-n-butyl phthalate** 84-74-2	100 1,000	M M	APP-9-063 APP-9-063-10X	12 20
2,3-Dichlorophenoxyacetic acid 2976-74-1	100 100	M CN	P-470S P-470S-CN	12 12	**Dinex** 131-89-5	100 1,000	M M	P-427S P-427S-10X	22 34
2,4-Dichlorophenylacetic acid 19719-28-9	100 1,000	A A	M-8150B-SS M-8150B-SS-10X	10 20	**3,5-Dinitroaniline** 618-87-1	100	CN:M	M-8330-ADD-4	20
1,2-Dichloropropane 78-87-5	200 2,000	M M	M-502-30 M-502-30-10X	10 14	**1,2-Dinitrobenzene** 528-29-0	1,000	M	M-8330-SS	20
1,3-Dichloropropane 142-28-9	200 2,000	M M	M-502-31 M-502-31-10X	10 14	**1,3-Dinitrobenzene** 99-65-0	100 1,000	M:CN M:CN	M-8330-01-0.1X M-8330-01	20 15
2,2-Dichloropropane 594-20-7	200 2,000	M M	M-502-32 M-502-32-10X	10 14	**4,6-Dinitro-o-cresol** 534-52-1	100	M	P-384S	12
1,1-Dichloro-2-propanone 513-88-2	5,000	A	M-551B-6	15	**2,4-Dinitrophenol** 51-28-5	100	M	APP-9-091	12
1,1-Dichloropropene 563-58-6	200 2,000	M M	M-502-33 M-502-33-10X	10 14	**2,4-Dinitrophenylhydrazine** 119-26-6	1,000	CN	M-1667A-DERV-10ML in 10 mL	13
trans-1,3-Dichloropropene 10061-02-6	100	M	APP-9-079	12	**2,4-Dinitrotoluene** 121-14-2	100 1,000	M:CN M:CN	M-8330-02-0.1X M-8330-02	20 15
1,3-Dichloropropene (cis/trans) 542-75-6	400 4,000	M M	M-502-34-R M-502-34-R-10X	10 15	**2,5-Dinitrotoluene** 619-15-8	100	CN	M-8095-SS-03	50
cis-1,3-Dichloropropene 10061-01-5	100	M	APP-9-078	12	**2,6-Dinitrotoluene** 606-20-2	100 1,000	M:CN M:CN	M-8330-03-0.1X M-8330-03	20 15
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon #114)	200	M	M-REF-10	20	**3,4-Dinitrotoluene** 610-39-9	100 1,000	CN M	M-8095-SS-01 M-8330-IS	15 15
2,2-Dichloro-1,1,1-trifluoroethane (Freon #123)	200	M	M-REF-X-05	20	**Dinocap** 39300-45-3	100	M	P-288S	12
Dichlorprop 120-36-5	100 200	M M	P-143S M-8150S-A-07	12 15	**Di-n-octyl phthalate** 117-84-0	100	M	APP-9-095	12
Dichlorprop methyl ester 57153-17-0	100 200	M H	P-229S M-8150-07	12 15	**Dinoseb** 88-85-7	100 1,000	M M	P-144S P-144S-10X	12 24
Dichlorvos 62-73-7	100 1,000	M H	P-036S M-8140-07	12 20	**Dinoseb methyl ether** 6099-79-2	100 200	M H	P-230S M-8150-08	12 15
Diclofop methyl 51338-27-3	100	M	P-303S	12	**Dioxacarb** 6988-21-2	100	M	P-264S	22
Dicrotophos 141-66-2	100	M	P-178S	22	**p-Dioxane** 123-91-1	100 1,000	M M	APP-9-096 APP-9-096-10X	12 20
Dieldrin 60-57-1	100 1,000	M M	P-037S P-037S-10X	22 34	**Dioxathion** 78-34-2	100 1,000	M H	P-219S P-219S-H-10X	42 54
Diethyl ether 60-29-7	10,000	W	M-8015B/5031-09	25	**Diphenamid** 957-51-7	100	M	P-173S	12
Diethyl phosphate (mono- & di-) 598-02-7	100	M	P-443S	12	**Diphenylamine** 122-39-4	100 1,000	D M	APP-9-097 M-620	12 15
Diethyl phthalate 84-66-2	100 1,000	M M	APP-9-081 APP-9-081-10X	12 20	**Diquat dibromide monohydrate** **(as Diquat)**	100 1,000	M M	P-231S P-231S-10X	12 24
1,4-Difluorobenzene 540-36-3	200 2,000	M M	M-624-SS-07 M-624-SS-07-10X	10 20	**Disulfoton** 298-04-4	100 1,000	M M	P-042S P-042S-10X	12 24



Solvent Key for Individual Solutions
M Methanol **D** Methylene chloride **H** Hexane **W** Water
A Acetone **CN** Acetonitrile **MT** *tert*-Butyl methyl ether

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Disulfoton sulfone 2497-06-5	100	M	P-582S	$ 52
2,4-DP ethyl hexyl 79270-78-3	100	M	P-429S	22
Dursban 2921-88-2	100	M	P-094S	12
	1,000	M	P-094S-10X	24
Dyfonate 944-22-9	100	M	P-087S	12
EGDN 628-96-6	100	CN	M-8330-ADD-5	20
Endosulfan I 959-98-8	100	M	P-091S	22
	1,000	M	P-091S-10X	34
Endosulfan II 33213-65-9	100	M	P-092S	22
	1,000	M	P-092S-10X	34
Endosulfan sulfate 1031-07-8	100	M	P-145S	22
	1,000	M	P-145S-10X	34
Endothall 145-73-3	100	M	P-183S	24
	1,000	M	P-183S-10X	36
Endothall dimethyl ester	100	M	P-603S	22
Endothall pentafluorophenyl hydrazine derivative	100	MT	M-548-CAL	35
Endrin 72-20-8	100	M	P-045S	22
	1,000	M	P-045S-10X	34
Endrin aldehyde 7421-93-4	100	M	P-046S	22
	1,000	M	P-046S-10X	34
Endrin ketone 53494-70-5	100	M	P-146S	22
EPN 2104-64-5	100	A	P-220S-A	12
	1,000	H	M-8141-02	12
Ethalfluralin 55283-68-6	100	M	P-269S	12
Ethanol 64-17-5	10,000	W	M-8015B/5031-11	25
Ethephon 16672-87-0	100	M	P-239S	12
Ethion 563-12-2	100	M	P-048S	12
Ethoprop 13194-48-4	100	M	P-129S	22
	1,000	H	M-8140-09	30
Ethyl acetate 141-78-6	10,000	W	M-8015B/5031-12	25
Ethyl carbamate 51-79-6	100	M	P-419S	12
Ethyl methacrylate 97-63-2	100	M	APP-9-105	12
Ethyl methanesulfonate 62-50-0	100	D	APP-9-106	20
Ethylbenzene 100-41-4	200	M	M-502-35	10
	2,000	M	M-502-35-10X	14
Ethylbenzene-d_{10} 25837-05-2	200	M	M-624-SS-08	20
Ethylene glycol 107-21-1	10,000	W	M-8015B/5031-13	25
Ethylene oxide ❄ 75-21-8	5,000	W	M-8015B/5031-14-R1	20
bis(2-Ethylhexyl)adipate 103-23-1	100	M	P-233S	12
	1,000	M	P-233S-10X	24
bis(2-Ethylhexyl)phthalate 117-81-7	100	M	APP-9-029	12
	1,000	M	APP-9-029-10X	20
Famphur 52-85-7	100	M	P-147S	12
	1,000	H	M-8141A-1-06	20
Fenaminosulf 140-56-7	100	M	P-058S	12
	1,000	M	P-058S-10X	24
Fenamiphos 22224-92-6	100	M	P-114S	32
Fenitrothion 122-14-5	100	M	P-259S	12
Fenoxaprop-ethyl 66441-23-4	100	M	P-365S	22
Fenoxycarb 79127-80-3	100	M	P-686S	$ 22
Fensulfothion 115-90-2	1,000	H	M-8140-10	20
Fenthion 55-38-9	100	M	P-148S	12
	1,000	M	P-148S-10X	24
Fenuron 101-42-8	100	M	P-004S	12
	100	CN	M-632-07	12
Fenuron TCA 4482-55-7	100	M	P-006S	12
	100	CN	M-632-08	12
Fenvalerate ❄ 51630-58-1	100	M	P-194S	12
Ferbam 14484-64-1	100	M	P-110S	12
Fipronil 120068-37-3	100	A	P-738S-A	42
Fipronil sulfide 120067-83-6	100	A	P-781S-A	75
Fipronil sulfone 120068-36-2	100	A	P-780S-A	50
Flamprop-methyl 52756-25-9	100	M	P-366S	12
Fluazifop butyl 69806-50-4	100	M	P-310S	22
Fluazifop-p-butyl 79241-46-6	100	M	P-601S	52
Fluchloralin 33245-39-5	100	M	P-270S	22
Fluometuron 2164-17-2	100	M	P-014S	12
	100	CN	M-632-09	12
Fluoranthene 206-44-0	100	M	APP-9-108	15
	500	CN	M-8310-FL-11	20
Fluorene 86-73-7	100	M	APP-9-109	15
	1,000	M	APP-9-109-10X	25
4-Fluoroaniline 371-40-4	200	D	M-625-08	20
	2,000	D	M-625-08-10X	20
Fluorobenzene 462-06-6	20	M	M-524-IS-2-10X	20
	2,000	M	M-524-IS-2	12
2-Fluorobiphenyl 321-60-8	200	D	M-625-09	20
	2,000	D	M-625-09-10X	20
1-Fluoronaphthalene 321-38-0	200	D	M-625-10	20
	2,000	D	M-625-10-10X	30
2-Fluoronaphthalene 323-09-1	200	D	M-625-11	20
2-Fluorophenol 367-12-4	200	D	M-625-16	20
	2,000	D	M-625-16-10X	25
Flurenol methyl ester 1216-44-0	100	M	P-412S	12
Fluridone 59756-60-4	100	M	P-193S	12
Tau-Fluvalinate 102851-06-9	100	CN	P-356S-CN	22
Folpet 133-07-3	100	M	P-258S	12
Formaldehyde 50-00-0	1,000	W	M-8315-02	20
	1,000	M	M-554-06 ❄	20
Formaldehyde-DNPH 1081-15-8	100	CN	M-8315-R-DNPH-10	20
	1,000	M:CN	M-554-DNPH-06	20
Formothion 2540-82-1	100	CN	P-149S-CN	42
Glyphosate 1071-83-6	100	W	P-015S-W	12
	1,000	W	P-015S-W-10X	22
Guanidine nitrate 506-93-7	100	M	M-8330-ADD-10	20
Haloxyfop 69806-34-4	100	M	P-496S	32
	100	CN	P-496S-CN	32
Haloxyfop-methyl 69806-40-2	100	M	P-497S	32
Heptachlor 76-44-8	100	M	P-053S	12
	1,000	M	P-053S-10X	24

❄ A ColdPAK is required.

Analytes in EPA Methods continued on next page

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Heptachlor epoxide (Isomer A) 28044-83-9	100	M	P-294S	$ 32
Heptachlor epoxide (Isomer B) 1024-57-3	100	M	P-054S	22
	1,000	M	P-054S-10X	34
Heptanal 111-71-7	1,000	M	M-554-07	20
Heptanal-DNPH	100	CN	M-8315-R-DNPH-11	20
	1,000	M:CN	M-554-DNPH-07	20
Hexachlorobenzene 118-74-1	100	M	APP-9-112	12
Hexachlorobutadiene 87-68-3	200	M	M-502-36	10
	2,000	M	M-502-36-10X	14
Hexachlorocyclopentadiene 77-47-4	100	M	APP-9-114	12
	1,000	M	APP-9-114-10X	20
Hexachloroethane 67-72-1	100	M	APP-9-115	12
Hexachlorophene 70-30-4	100	M	APP-9-116	12
Hexachloropropene 1888-71-7	100	M	APP-9-117	12
Hexanal 66-25-1	1,000	M	M-554-08 ❄	20
Hexanal-DNPH 1527-97-5	100	CN	M-8315-R-DNPH-12	20
	1,000	M:CN	M-554-DNPH-08	20
2-Hexanone 591-78-6	100	M	APP-9-118 ❄	12
Hexazinone 51235-04-2	100	M	P-123S	12
	1,000	M	P-123S-10X	24
HMX 2691-41-0	100	M:CN	M-8330-04-0.1X	20
	1,000	M:CN	M-8330-04	30
Hydrazine 302-01-2	100	M	M-8330-ADD-8	20
2-Hydroxyatrazine 2163-68-0	100	M	P-326S	22
3-Hydroxycarbofuran 16655-82-6	100	CN	M-531-05	20
1-Hydroxychlordene 24009-05-0	100	M	P-151S	52
Imidan 732-11-6	100	M	P-055S	12
Indeno[1,2,3-cd]pyrene 193-39-5	100	M	APP-9-119	20
Iodofenphos 18181-70-9	100	M	P-379S	22
Ioxynil 1689-83-4	100	M	P-522S	22
Iprodione 36734-19-7	100	A	P-016S-A	12
	100	CN	P-016S-CN	12
Isobutyl alcohol 78-83-1	100	M	APP-9-120	12
	10,000	W	M-8015B/5031-15	25
Isodrin 465-73-6	1,000	M	APP-9-121-10X	30
Isofenphos 25311-71-1	100	M	P-018S	12
Isophorone 78-59-1	100	M	APP-9-122	12
	1,000	M	APP-9-122-10X	20
Isopropalin 33820-53-0	100	M	P-100S	12
Isopropanol 67-63-0	10,000	W	M-8015B/5031-16	25
Isopropylbenzene 98-82-8	200	M	M-502-37	10
	2,000	M	M-502-37-10X	14
p-Isopropyltoluene (p-Cymene) 99-87-6	200	M	M-502-38	10
	2,000	M	M-502-38-10X	14
Isosafrole 120-58-1	100	D	APP-9-123	20
Isovaleraldehyde-DNPH 2256-01-1	100	CN	M-8315-R-DNPH-13	20
Karmex 330-54-1	100	M	P-227S	12
	100	CN	M-632-06	12
Kelthane 115-32-2	100	M	P-057S	22
Kepone 143-50-0	100	M	P-152S	12
	1,000	M	P-152S-10X	24
3-Ketocarbofuran	100	A	P-298S-A	52

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Leptophos 21609-90-5	100	M	P-206S	$ 12
	1,000	H	P-206S-H-10X	20
Lindane (γ-BHC) 58-89-9	100	M	P-059S	12
	1,000	M	P-059S-10X	24
Linuron 330-55-2	100	M	P-022S	12
	100	CN	M-632-10	12
Lontrel 1702-17-6	100	M	P-224S	22
Malathion 121-75-5	1,000	H	M-8141-03	12
Marathon 138261-41-3	100	M	P-616S	52
MCPA acid 94-74-6	100	M	P-153S	12
	2,000	M	M-8150S-A-09	15
MCPA methyl ester 2436-73-9	100	M	P-038S	12
	2,000	H	M-8150-09	15
MCPB acid 94-81-5	100	M	P-370S	12
MCPB methyl ester 57153-18-1	100	M	P-371S	22
MCPP acid 7085-19-0	100	CN	P-154S-CN	12
MCPP methyl ester 2786-19-7	100	M	P-040S	12
MCPP methyl ester 2786-19-7	2,000	H	M-8150-10	15
Mecoprop, 2-Ethylhexyl ester	100	M	P-502S	22
Mercaptobenzothiazole 149-30-4	100	CN	M-640	20
Merphos 150-50-5	1,000	H	M-8140-12	20
Metalaxyl 57837-19-1	100	M	P-120S	32
Metaldehyde 9002-91-9	100	M	P-600S	12
Metamitron 41394-05-2	100	M	P-252S	12
Metazachlor 67129-08-2	100	M	P-249S	12
Methacrylonitrile 126-98-7	100	M	APP-9-125	20
Methanol 67-56-1	10,000	W	M-8015B/5031-17	20
Methapyrilene 91-80-5	100	D	APP-9-126	20
	1,000	D	APP-9-126-10X	30
Methidathion 950-37-8	100	M	P-195S	12
Methiocarb 2032-65-7	100	M	P-156S	12
	100	CN	M-531-11	12
Methomyl 16752-77-5	100	CN	M-531-04	12
	1,000	CN	M-531-04-10X	20
Methoprene 40596-69-8	100	M	P-157S	12
Methoxychlor 72-43-5	100	M	P-064S	12
	1,000	M	P-064S-10X	24
o,p'-Methoxychlor 30667-99-3	100	M	P-535S	52
p,p'-Methoxychlor-olefin 2132-70-9	100	M	P-466S	52
	1,000	M	P-466S-10X	79
Methyl-2,3-dibromopropionate 1729-67-5	1,000	MT	M-552.2-SS-ME	10
Methyl bromoacetate 96-32-2	200	M	M-552.1-02	25
Methyl bromochloroacetate 20428-74-4	200	M	M-552.1-03	25
	1,000	MT	M-552-R-03	30
Methyl bromodichloroacetate	40	MT	M-552.2-04	20
Methyl 2-bromopropionate 5445-17-0	1,000	MT	M-552.1-SS-ME	10
Methyl chlorodibromoacetate 20428-75-5	100	MT	M-552.2-06	20
3-Methylcholanthrene 56-49-5	100	D	APP-9-128	$ 20
Methyl dibromoacetate 6482-26-4	20	MT	M-552.2-07	20
	100	M	M-552.1-05	25

Analytes in EPA Methods



Solvent Key for Individual Solutions
M Methanol **D** Methylene chloride **H** Hexane **W** Water
A Acetone **CN** Acetonitrile **MT** *tert*-Butyl methyl ether

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Methyl dichloroacetate 116-54-1	60 300	MT M	M-552.2-08 M-552.1-06	$ 20 25
Methyl-3,5-dichlorobenzoate 2905-67-1	100 1,000	M M	P-247S P-247S-10X	12 14
Methyl-2,4-Dichlorophenylacetate 55954-23-9	100	M	P-214S	12
Methylene chloride-d_2 1665-00-5	2,000	M	M-502-IS-2-3	20
Methyl ethyl ketone 78-93-3	1,000 10,000	M W	APP-9-129-10X ❄ M-8015B/5031-18	10 25
Methyl iodide 74-88-4	100	M	APP-9-130	12
Methyl isobutyl ketone 108-10-1	10,000	W	M-8015B/5031-19	25
Methyl isothiocyanate 556-61-6	25	A	M-1659-RPS	10
Methyl methacrylate 80-62-6	100	M	APP-9-131	12
Methyl methanesulfonate 66-27-3	100	D	APP-9-132	20
1-Methylnaphthalene 90-12-0	500	CN	M-8310-FL-14	20
2-Methylnaphthalene 91-57-6	100 500	D CN	APP-9-133 M-8310-FL-15	12 20
2-Methyl-4-nitroaniline 99-52-5	100	CN	M-8095-SS-02	20
3-Methyl-4-nitrophenol 2581-34-2	100	M	P-509S	12
Methyl nonyl ketone 112-12-9	100 100	M CN	P-415S P-415S-CN	12 12
Methyl paraoxon 298-00-0	100	M	P-311S	32
Methyl parathion 298-00-0	100 1,000	M M	P-065S P-065S-10X	12 24
4-Methyl-2-pentanone 108-10-1	100	M	APP-9-135	12
Methyl tribromoacetate 3222-05-7	200	MT	M-552.2-09 ❄	20
Methyl trichloroacetate 598-99-2	100 200	M MT	M-552.1-07 M-552.2-10	25 20
Metolachlor 51218-45-2	100 1,000	M M	P-158S P-158S-10X	12 24
Metribuzin 21087-64-9	100 1,000	M M	P-089S P-089S-10X	12 24
Metsulfuron methyl 74223-64-6	100	M	P-463S	22
Mevinphos 7786-34-7	100 1,000	M H	P-074S M-8140-14	12 20
Mexacarbate 315-18-4	100 100	M CN	P-030S M-632-13	22 12
MGK-264 113-48-4	100	M	P-082S	12
MGK-326 136-45-8	100	M	P-342S	12
Mirex 2385-85-5	100	M	P-066S	12
Molinate 2212-67-1	100	M	P-176S	32
Monitor 10265-92-6	100	M	P-155S	42
Monobromoacetic acid 79-08-3	40	MT	M-552.2A-07	15
Monochloroacetic acid 79-11-8	60	MT	M-552.2A-08	15
Monocrotophos 6923-22-4	100	M	P-112S	32
Monuron 150-68-5	100	CN	M-632-14	12
Monuron TCA 140-41-0	100 100	M CN	P-034S M-632-15	12 12
MtBE 1634-04-4	2,000	M	S-078-10X	12

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Myclobutanil 88671-89-0	100 1,000	M M	P-330S P-330S-10X	$ 22 34
Nabam 142-59-6	100	M	P-383S	12
Naled 300-76-5	100 1,000	M H	P-159S M-8140-15	12 20
Naphthalene 91-20-3	200 2,000	M M	M-502-40 M-502-40-10X	10 14
1-Naphthalene acetamide 86-86-2	100	M	P-512S	12
Naphthalene-d_8 1146-65-2	200 4,000	D D	M-625-12 Z-014J-4	20 20
1-Naphthol 90-15-3	100	CN	M-531-10	12
1,4-Naphthoquinone 130-15-4	100	D	APP-9-137	20
1-Naphthylamine 134-32-7	100	D	APP-9-138	20
2-Naphthylamine 91-59-8	100	D	APP-9-139	20
Napropamide 15299-99-7	100 100	M CN	P-179S M-632.1-3	12 12
Neburon 555-37-3	100 100	M CN	P-041S M-632-16	12 12
Niclosamide 50-65-7	100	M	P-160S	22
m-Nitroaniline 99-09-2	100	D	APP-9-141	12
o-Nitroaniline 88-74-4	100	D	APP-9-140	12
p-Nitroaniline 100-01-6	100	D	APP-9-142	12
4-Nitroanisole 100-17-4	100	M	P-273S	12
Nitrobenzene 98-95-3	100 1,000	M:CN M:CN	M-8330-06-0.1X M-8330-06	20 15
Nitrobenzene-d_5 4165-60-0	200 2000	D D	M-625-13 M-625-13-10X	20 20
Nitroguanidine 556-88-7	100	M	M-8330-ADD-6	20
Nitromethane 75-52-5	100	M	M-8330-ADD-7	20
5-Nitro-o-toluidine 99-55-8	100	D	APP-9-156	20
o-Nitrophenol 88-75-5	100	M	APP-9-144	12
p-Nitrophenol 100-02-7	100	M	APP-9-145	12
4-Nitroquinoline-1-oxide 56-57-5	100	D	APP-9-146	20
N-Nitrosodiethylamine 55-18-5	100	D	APP-9-148	20
N-Nitrosodimethylamine 62-75-9	100 1,000	D M	APP-9-149 APP-9-149-M-10X	20 30
N-Nitrosodi-n-butylamine 924-16-3	100 500	D W	APP-9-147 M-8015B/5031-20	20 25
N-Nitrosodi-n-propylamine 621-64-7	100	D	APP-9-151	20
N-Nitrosodiphenylamine 86-30-6	100 1,000	D M	APP-9-150 APP-9-150-M-10X	20 30
N-Nitrosomethylethylamine 10595-95-6	100	D	APP-9-152	20
N-Nitrosomorpholine 59-89-2	100	D	APP-9-153	20
N-Nitrosopiperidine 100-75-4	100	D	APP-9-154	20
N-Nitrosopyrrolidine 930-55-2	100	D	APP-9-155	20
2-Nitrotoluene 88-72-2	100 1,000	M:CN M:CN	M-8330-07-0.1X M-8330-07	15 15
3-Nitrotoluene 99-08-1	100 1,000	M:CN M:CN	M-8330-08-0.1X M-8330-08	15 15

❄ A ColdPAK is required.

Analytes in EPA Methods continued on next page

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
4-Nitrotoluene	100	M:CN	M-8330-09-0.1X	$ 15
99-99-0	1,000	M:CN	M-8330-09	15
cis-Nonachlor	100	M	P-297S	52
5103-73-1	1,000	M	P-297S-10X	64
trans-Nonachlor	100	M	P-184S	22
39765-80-5				
Nonanal	1,000	M	M-554-09	20
124-19-6				
Nonanal-DNPH	100	CN	M-8315-R-DNPH-14	20
	1,000	M:CN	M-554-DNPH-09	20
Octanal	1,000	M	M-554-10	20
124-13-0				
Octanal-DNPH	100	CN	M-8315-R-DNPH-15	20
	1,000	M:CN	M-554-DNPH-10	20
Omethoate	100	M	P-121S	22
1113-02-6	1,000	M	P-121S-10X	34
Oryzalin	100	CN	M-638	20
19044-88-3				
Oxadiazon	100	M	P-236S	12
19666-30-9	1,000	M	P-236S-10X	24
Oxamyl	100	M	P-161S	12
23135-22-0	100	CN	M-531-03	12
Oxycarboxin	100	M	P-391S	12
5259-88-1				
Oxychlordane	100	M	P-331S	77
27304-13-8	100	H	P-331S-H	77
Oxydemeton-methyl	100	M	P-290S	22
301-12-2				
Oxyfluorfen	100	M	P-277S	42
42874-03-3				
Paraldehyde	10,000	W	M-8015B/5031-21	25
123-63-7				
Paraoxon	100	M	P-453S	22
311-45-5	1,000	M	P-453S-10X	34
Paraquat CL tetrahydrate	100	M	P-051S	12
1910-42-5 **(as Paraquat)**				
Parathion	100	M	P-070S	12
56-38-2	1,000	M	P-070S-10X	24
Pendimethalin	100	M	P-097S	12
40487-42-1	1,000	M	P-097S-10X	24
Pentachloroanisole	100	M	P-199S	12
1825-21-4				
Pentachlorobenzene	100	M	APP-9-173	12
608-93-5				
Pentachloroethane	100	M	APP-9-174	12
76-01-7				
Pentachloronitrobenzene	100	MT	M-508-IS	10
82-68-8	1,000	MT	M-508-IS-10X	20
Pentachlorophenol	100	M	APP-9-176	12
87-86-5	1,000	M	APP-9-176-10X	20
Pentafluorobenzene	200	M	M-624-SS-10	10
363-72-4				
Pentafluoroethane	200	M	M-REF-X-06	20
(Freon #125)				
Pentafluorophenol	200	D	M-625-17	20
771-61-9				
Pentanal	1,000	M	M-554-11	20
110-62-3				
Pentanal-DNPH	100	CN	M-8315-R-DNPH-16	20
	1,000	M:CN	M-554-DNPH-11	20
2-Pentanone	10,000	W	M-8015B/5031-22	25
107-87-9				
Permethrin	100	M	P-128S	12
52645-53-1				
Perthane	100	M	P-162S	12
72-56-0				
PETN	100	M	M-8330-ADD-2	20
78-11-5				
Phenacetin	100	D	APP-9-177	20
62-44-2	1,000	D	APP-9-177-10X	30
Phenanthrene	100	M	APP-9-178	15
85-01-8	200	D	Z-013-15	15
Phenanthrene-d_{10}	200	D	M-625-14	20
1517-22-2				
Phenol	100	D	APP-9-179	12
108-95-2				
Phenol-d_5	200	D	M-625-18	$ 20
4165-62-2	2,000	D	M-625-18-10X	25
Phenthoate	100	M	P-476S	32
2597-03-7				
p-Phenylenediamine	100	M	APP-9-180	20
106-50-3				
o-Phenylphenol	100	M	P-460S	12
90-43-7				
Phorate	100	M	P-170S	12
298-02-2	1,000	M	P-170S-10X	24
Phorate sulfone	100	H	P-655S-H	32
2588-04-7				
Phosalone	100	M	P-163S	12
2310-17-0				
Phosfolan	100	M	P-234S	12
947-02-4	1,000	M	P-234S-10X	24
Phosphamidon	100	M	P-075S	22
13171-21-6	1,000	H	M-8141A-1-09	20
Picloram	100	M	P-047S	32
1918-02-1	1,000	M	P-047S-10X	44
Picloram methyl ester	100	M	P-198S	22
14143-55-6				
2-Picoline	100	M	APP-9-182	20
109-06-8	10,000	W	M-8015B/5031-23	25
Picramic acid	100	M	M-8330-ADD-22	30
831-52-7				
Picric acid	100	CN:M	M-8330-ADD-3	20
88-89-1				
Pirimicarb	100	M	P-304S	12
23103-98-2				
Pirimiphos-methyl	100	M	P-305S	12
29232-93-7				
Prebane	100	M	P-119S	12
886-50-0				
Profenofos	100	M	P-260S	12
41198-08-7				
Profluoralin	100	M	P-099S	12
26399-36-0	1,000	M	P-099S-10X	24
Promecarb	100	M	P-265S	22
2631-37-0				
Prometon	100	M	P-077S	12
1610-18-0				
Prometryne	100	M	P-078S	12
7287-19-6				
Pronamide	100	M	P-164S	12
23950-58-5				
Propachlor	100	M	P-215S	12
1918-16-7	1,000	M	P-215S-10X	24
Propanal	1,000	M	M-554-12 ❄	20
123-38-6				
Propanal-DNPH	100	CN	M-8315-R-DNPH-17	20
725-00-8	1,000	M:CN	M-554-DNPH-12	20
Propanil	100	CN	M-632.1-2	12
709-98-8				
1-Propanol	10,000	W	M-8015B/5031-24	25
71-23-8				
Propargite	100	M	P-251S	12
2312-35-8				
Propazine	100	M	P-079S	12
139-40-2				
Propham	100	CN	M-632-18	12
122-42-9				
Propionitrile	100	M	APP-9-184	12
107-12-0				
n-Propylbenzene	200	M	M-502-41	10
103-65-1	2,000	M	M-502-41-10X	14
Propyleneglycol dinitrate	100	M	M-8330-ADD-35	35
6423-43-4				
Pyrazon	100	M	P-395S	22
1698-60-8	1,000	M	P-395S-10X	34
Pyrazoxyfen	100	M	P-618S	22
71561-11-0				
Pyrene	100	M	APP-9-185	15
129-00-0	1,000	M	APP-9-185-10X	25
Pyrene-d_{10}	50	A	M-525-SS	30
1718-52-1				



Solvent Key for Individual Solutions
M Methanol **D** Methylene chloride **H** Hexane **W** Water
A Acetone **CN** Acetonitrile **MT** *tert*-Butyl methyl ether

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Pyridine 110-86-1	100 10,000	D W	APP-9-186 M-8015B/5031-26	$ 12 25
Pyridine-d_5 7291-22-7	200 2000	D D	M-625-15 M-625-15-10X	20 30
PYX 38082-89-2	100	CN	M-8330-ADD-11	20
Quizalofop ethyl 76578-14-8	100	M	P-293S	22
RDX 121-82-4	100 1,000	M:CN M:CN	M-8330-05-0.1X M-8330-05	20 30
Ronnel 299-84-3	100 1,000	M H	P-080S M-8140-17	12 20
Rotenone 83-79-4	100 100	M CN	P-056S ❄ M-635	12 20
Safrole 94-59-7	100	M	APP-9-187	20
Secbumeton 26259-45-0	100	M	P-165S	22
Siduron 1982-49-6	100 100	M CN	P-063S M-632-20	12 12
Silvex 93-72-1	100 1,000	M M	P-084S P-084S-10X	12 24
Silvex methyl ester 4841-20-7	100	M	P-115S	12
Simazine 122-34-9	100 1,000	M M	P-085S P-085S-10X	12 24
Simetryn 1014-70-6	100	M	P-166S	22
Stirophos 961-11-5	1,000	H	M-8140-18	30
Styrene 100-42-5	200 2,000	M M	M-502-42 M-502-42-10X	10 14
Sulfometuron methyl ester 74222-97-2	100	M	P-336S	22
Sulfotep 3689-24-5	100 1,000	M H	P-167S M-8141-06	22 50
Sulfoxide 120-62-7	100	M	P-396S	12
Sumithrin 26002-80-2	100	M	P-050S	32
Swep 1918-18-9	100 100	M CN	P-061S M-632-21	12 12
2,4,6-T 575-89-3	100 100	M CN	P-523S P-523S-CN	12 12
2,4,5-T acid 93-76-5	100 1,000	M M	P-168S P-168S-10X	12 24
2,4,5-T butoxyethyl ester 2545-59-7	100	CN	P-441S-CN	12
2,4,5-T methyl ester 1928-37-6	100 200	M H	P-067S M-8150-03	12 15
2,4,5-T n-butyl ester 93-79-8	100	CN	P-440S-CN	12
TAME 994-05-8	200	M	S-1019	10
TCMX 877-09-8	100 1,000	H H	M-8082-SS M-8082-SS-10X	20 20
Tebuconazol 107534-96-3	100	M	P-451S	22
Tebuthiuron 34014-18-1	100	M	P-188S	12
Tefluthrin 79538-32-2	100	M	P-568S ❄	52
TEPP 107-49-3	1,000	H	M-8141-07	12
Terbacil 5902-51-2	100	M	P-096S	12
Terbufos 13071-79-9	100 1,000	M H	P-208S P-208S-H-10X	12 54
Terbuthylazine 5915-41-3	100	M	P-169S	32
p-Terphenyl-d_{14} 1718-51-0	500	D	M-525-FS-2	$ 20
Terrazole 2593-15-9	100	M	P-190S	12
1,2,4,5-Tetrachlorobenzene 95-94-3	100 1,000	M M	APP-9-191 APP-9-191-10X	12 20
1,1,1,2-Tetrachloroethane 630-20-6	200 2,000	M M	M-502-43 M-502-43-10X	10 14
1,1,2,2-Tetrachloroethane 79-34-5	200 2,000	M M	M-502-44 M-502-44-10X	10 14
Tetrachloroethene 127-18-4	200 2,000	M M	M-502-45 M-502-45-10X	10 14
2,3,5,6-Tetrachloronitrobenzene 117-18-0	100	M	P-467S	12
2,3,4,6-Tetrachlorophenol 58-90-2	100	M	APP-9-195	20
Tetrachlorvinphos 961-11-5	100 1,000	M CN	P-125S AE-00047	12 20
Tetradifon 116-29-0	100	M	P-261S	12
Tetrafluoroethane 811-97-2	200	M	M-REF-12	20
1,1,2,2-Tetrafluoroethane (Freon #134)	200	M	M-REF-X-07	20
Tetrahydrofuran 109-99-9	1,000	W	M-1671A-IS	20
Tetryl 479-45-8	100 1,000	M:CN M:CN	M-8330-10-0.1X M-8330-10	20 30
Thiabendazole 148-79-8	100 100	M CN	P-068S M-641	12 20
Thiobencarb 28249-77-6	100 1,000	M M	P-180S P-180S-10X	12 24
4,4'-Thiodiphenol 2664-63-3	100 1,000	M M	P-117S P-117S-10X	12 24
Thiofanox 39196-18-4	100	M	P-266S	22
Thionazin 297-97-2	100	M	P-171S	12
Thiophanate 23564-06-9	100 100	M CN	P-321S P-321S-CN	12 12
Thiram 137-26-8	100 1,000	M M	P-118S P-118S-10X	12 24
Tillam 1114-71-2	100 1,000	M M	P-105S P-105S-10X	12 24
Tilt 60207-90-1	100	M	P-280S	42
TNT 118-96-7	100 1,000	M:CN M:CN	M-8330-11-0.1X M-8330-11	20 25
Tokuthion 34643-46-4	100 1,000	M H	P-126S M-8140-19	32 30
m-Tolualdehyde-DNPH 2880-05-9	100	CN	M-8315-R-DNPH-18	20
o-Tolualdehyde-DNPH 1773-44-0	100	CN	M-8315-R-DNPH-19	20
p-Tolualdehyde-DNPH 2571-00-8	100	CN	M-8315-R-DNPH-20	20
Toluene 108-88-3	200 2,000	M M	M-502-46 M-502-46-10X	10 14
o-Toluidine 95-53-4	100 10,000	M W	APP-9-199 M-8015B/5031-27	12 25
Toxaphene 8001-35-2	1,000 2,500	M A	P-093S-10X M-525-5	24 20
2,4,5-TP 93-72-1	200	M	M-8150S-A-04	15
2,4,5-TP methyl ester 4841-20-7	200	H	M-8150-04	15
2,4,5-TP-PFB	100	MT	M-8150-04-PFB	30
Triadimefon 43121-43-3	100	M	P-069S	12

❄ A ColdPAK is required.

Analytes in EPA Methods continued on next page

Analytes in EPA Methods

Solvent Key for Individual Solutions
M Methanol **D** Methylene chloride **H** Hexane **W** Water
A Acetone **CN** Acetonitrile **MT** *tert*-Butyl methyl ether

Analytes in EPA Methods

Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price	Compound CAS No.	Conc. (µg/mL)	Solv.	Cat. No.	1 mL Price
Triallate 2303-17-5	100	M	P-268S	$ 12	**Triclopyr methyl ester** 60825-26-5	100	M	P-291S	$ 22
1,2,4-Triazole 288-88-0	100	M	P-627S	22	**Tricresyl phosphate** 1330-78-5	100	M	P-209S	12
Triazophos 24017-47-8	100	M	P-334S	12	**Tricyclazole** 41814-78-2	100	M	P-090S	22
Tribromoacetic acid 75-96-7	200	MT	M-552.2A-09	15	**Triethylphosphate** 78-40-0	100	M	P-335S	12
1,3,5-Tribromobenzene 626-39-1	50	A	M-8121-IS	10	**o,o,o-Triethylphosphorothioate** 126-68-1	100 1,000	M H	P-172S P-172S-H-10X	12 24
2,4,6-Tribromophenol 118-79-6	200 200	D M	M-625-19 M-604-SS	20 20	**2',4',5'-Trifluoroacetophenone** 129322-83-4	20	CN	M-556-SS	10
2,4,6-Tribromophenol-PFB	200	M	M-604-SS-PFB	20	**1,1,1-Trifluoroethane** (Freon #143A)	200	M	M-REF-X-08	20
Tributylphosphate 126-73-8	1,000	A	M-8141A-SS-01	20	**Trifluoromethane** (Freon #23)	200	M	M-REF-15	12
Trichlorfon 52-68-6	100	M	P-044S	12	**a,a,a-Trifluorotoluene** 98-08-8	200 2,000	M M	M-602-SS M-602-SS-10X	20 20
1,1,2-Trichloro-1,2,2-trifluoroethane 76-13-1	200 2,000	M M	M-REF-14 M-REF-14-10X	10 20	**Trifluralin** 1582-09-8	100 1,000	M M	P-197S P-197S-10X	12 24
1,1,1-Trichloro-2-propanone 918-00-3	5,000	A	M-551B-8	15	**2,3,5-Triiodobenzoic acid** 88-82-4	100 100	M CN	P-507S P-507S-CN	12 12
Trichloroacetic acid 76-03-9	20 1,000	MT MT	M-552.2A-10 M-552A-4 ❄	15 15	**2,3,5-Trimethacarb** 2655-15-4	100	M	P-515S	52
Trichloroacetonitrile 545-06-2	5,000	A	M-551B-7	15	**3,4,5-Trimethacarb** 2686-99-9	100	M	P-516S	52
1,2,3-Trichlorobenzene 87-61-6	200 2,000	M M	M-502-47 M-502-47-10X	10 14	**Trimethyl phosphate** 512-56-1	100	M	P-210S	12
1,2,4-Trichlorobenzene 120-82-1	200 2,000	M M	M-502-48 M-502-48-10X	10 14	**1,2,4-Trimethylbenzene** 95-63-6	200 2,000	M M	M-502-54 M-502-54-10X	10 14
2,3,5-Trichlorobenzoic acid 50-73-7	100 100	M CN	P-508S P-508S-CN	12 12	**1,3,5-Trimethylbenzene** 108-67-8	200 2,000	M M	M-502-55 M-502-55-10X	10 14
1,1,1-Trichloroethane 71-55-6	200 2,000	M M	M-502-49 M-502-49-10X	10 14	**1,3,5-Trinitrobenzene** 99-35-4	100 1,000	M:CN M:CN	M-8330-12-0.1X M-8330-12	20 20
1,1,2-Trichloroethane 79-00-5	200 2,000	M M	M-502-50 M-502-50-10X	10 14	**Triphenylphosphate** 115-86-6	500 5,000	MT MT	M-507-IS M-507-IS-10X	10 20
Trichloroethene 79-01-6	200 2,000	M M	M-502-51 M-502-51-10X	10 14	**Vacor** 53558-25-1	100 100	M CN	P-240S M-632.1-1	12 12
Trichlorofluoromethane (Freon #11) 75-69-4	200 2,000	M M	M-502-52 M-502-52-10X	10 14	**Vernolate** 1929-77-7	100	M	P-111S	12
Trichloronate 327-98-0	100	M	P-127S	22	**Vinclozolin** 50471-44-8	100 1,000	M M	P-122S P-122S-10X	12 24
2,4,5-Trichlorophenol 95-95-4	100	M	APP-9-206	12	**Vinyl acetate** 108-05-4	100	M	APP-9-211 ❄	12
2,4,6-Trichlorophenol 88-06-2	100	M	APP-9-207	12	**Vinyl chloride** 75-01-4	200 2,000	M M	M-502-56 M-502-56-10X	10 14
3,4,5-Trichlorophenol 609-19-8	1,000 1,000	M A	M-1653-IS M-1653-IS-R	35 35	**o-Xylene** 95-47-6	200 2,000	M M	M-502-57 M-502-57-10X	10 14
1,1,2-Trichloropropane 598-77-6	200	M	S-1321B	30	**m-Xylene** 108-38-3	200 2,000	M M	M-502-58 M-502-58-10X	10 14
1,2,3-Trichloropropane 96-18-4	200 2,000	M M	M-502-53 M-502-53-10X	10 14	**p-Xylene** 106-42-3	200 2,000	M M	M-502-59 M-502-59-10X	10 14
a,a,a-Trichlorotoluene 98-07-7	200	M	M-624-SS-14	10	**Xylene (total)** 1330-20-7	100	M	APP-9-213	12
Triclopyr 55335-06-3	100 100	M CN	P-289S P-289S-CN	12 12	**Ziram** 137-30-4	100	CN	M-630-1-0.1X	15

❄ A ColdPAK is required.

Custom Services

Custom Synthesis

The AccuStandard Synthesis Department employs several PhD. Organic Chemists with many years of pertinent academic and industrial experience. The experienced staff has developed hundreds of pure chemical compounds for companies and governmental agencies around the world. The very well-equipped synthetic laboratory, with significant analytical support has made many notable synthesis projects possible. We specialize in synthesizing chemicals of high purity to be used as reference standards, and also offer custom synthesis capability on milligram to kilogram scales.



Analytical Capabilities

- GC-MS, GC-FID, GC-ECD, GC-NPD
- HPLC, LC-MS
- ICP, ICP-MS
- access to more anlytical instrumentation if necessary

Synthesis and Purification

- Milligram to Kilogram Glassware
- Inert Conditions Equipment
- High Performance Flash Chromatography
- Distillation Equipment - High Vacuum, Molecular (Kugelrohr), and Spinning Band Columns Preparative TLC
- Parr Pressure and Hydrogenation Reactor

Custom Synthesized Products

- PCBs (all 209 congeners), & hydroxy, methoxy, and methylsulfonyl metabolites
- Halo-Dibenzodioxins and Furans
- PBDEs (205 out of 209 congeners) & hydroxy, methoxy, and chloro metabolites
- Fluorinated PBDEs
- Other Brominated Flame Retardants
- PBBs
- PAHs, Nitro-PAHs, Methyl-PAHs
- Pesticides and metabolites
- Explosives and metabolites
- Nonyl- and Octylphenol Ethoxylates
- Mono- and Diester Phthalates
- Organophosphates
- Other Rare Chemicals

AccuStandard is renowned for its quick response to the needs for new compounds. The company's especially strong Synthesis Department allows the synthesis of important and unique products. Featured in its history of firsts, are all of the 209 congeners of polychlorinated biphenyls (PCBs), 205 out of the 209 congeners of polybrominated diphenyl ethers (PBDEs) as well as many halogenated dioxins and dibenzofurans, PAHs, pesticides and fluorinated surrogates substituting the expensive isotopically labelled compounds.

Among the more recent introductions are the hydroxy and methoxy PBDE congeners, mixed bromo/chloro hydroxy and methoxy diphenyl ethers, organophosphate flame retardants, biofuels, plastic additives (AccuStandard authored the Handbook for the Chemical Analysis of Plastic and Polymer Additives published by CRC Press), EPA Method 535 pesticide derivatives and previously unavailable explosive standards.

Custom Formulations

With over 30,000+ custom and 10,000+ listed standards, there is a good chance that AccuStandard will have a standard to meet your needs. However, if your laboratory requires something specific, our Chemists will manufacture a Custom Standard to meet your unique requirements. Custom Standards are an economical and time saving way to have a Standard prepared for your individual needs.



Custom QC options

1. Gravimetric/Volumetric Certification: Each purity is measured gravimetrically and QC verified instrumentally (where available). Every component in the Standard is guaranteed to be within +/-0.5% of the requested value unless otherwise stated on the Certificate of Analysis. The solutions are diluted to volume using Class A glassware. A Certificate of Analysis accompanies each Standard and documents the gravimetric values used.
2. Full Quantitative Certification: This QA/QC method includes extended GC analysis using both internal calibration standards plus statistical analysis. A data package containing analytical and gravimetric data can be provided if requested during the quotation phase (Organic Customs only).

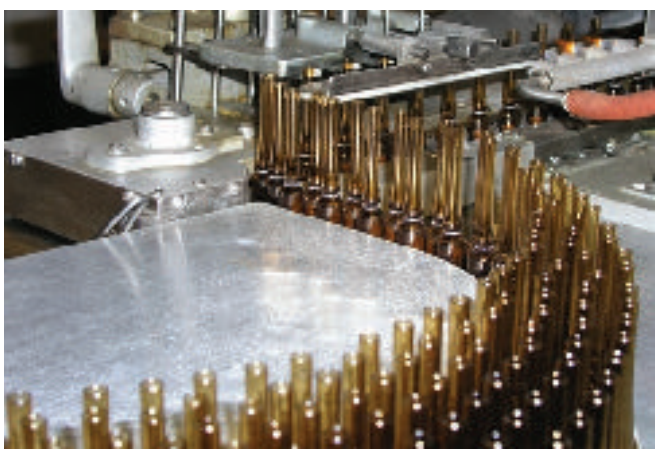
Custom Packaging & Bulk Quantity Requirements

AccuStandard has the resources and equipment to meet your custom packaging requirements.

- Automated ampule filling & sealing 0.2 mL up to 20 mL and ampule sizes from 1 mL to 20 mL
- Quantities from 500 to over 500,000 ampules
- Homogeneity testing
- Amber ampules for added product stability
- Private labeling and packaging (OEM)

We can reduce your costs using the Cozzoli Auto Filling/Sealing Machine to package just the right size product for your application. OEM Standards - Privately labeled standards manufactured and tested to your specifications. Cold and under Nitrogen sealing available.







Each CLP Standard is furnished with:

- Quantitative analysis of the product by comparison to a separately prepared Standard.
- Target concentration analytically determined to be within a 95% confidence interval.
- A chromatogram of the product lot with analytes listed by order of elution and instrumental parameters shown.
- Certificate showing actual gravimetric/volumetric weights, purities and analyte CAS No.'s.

Certificate of Analysis

Front and Back

125 Market Street
New Haven, CT 06513
USA

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Web AccuStandard.com

PRODUCT: CLP-024R
EXPIRATION: Nov 6, 2011
DESCRIPTION: Individual Pesticide Standard
LOT #: B8110036
SOLVENT: Isooctane

The maximum uncertainty in the preparation of this standard is ±3%.

Component	CAS #	Purity % (GC/FID)	Gravimetric Concentration[1] mg/mL		Analyte Concentration[2] mg/mL	±95% C.I.
Aldrin	309-00-2	97.6	52.2	*	50.9	±
β-BHC	319-85-7	100	51.2		51.2	±
δ-BHC	319-86-8	95.4	53.5	*	51.0	±
α-Chlordane	5103-71-9	100	51.0		51.0	±
γ-Chlordane	5103-74-2	99.8	51.2		51.1	±
p,p'-DDE	72-55-9	100	102.2		102.2	±
Decachlorobiphenyl	2051-24-3	100	102.1		102.1	±
Endosulfan II	33213-65-9	100	102.1		102.1	±
Endosulfan sulfate	1031-07-8	99.3	102.0		101.3	±
Endrin aldehyde	7421-93-4	100	102.3		102.3	±
Endrin ketone	53494-70-5	100	102.2		102.2	±
Heptachlor epoxide (isomer B)	1024-57-3	100	51.1		51.1	±
Tetrachloro-m-xylene	877-09-8	96.0	53.2	*	51.1	±

13 Components

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/264400

2. Analyte Concentration = Purity x Gravimetric Concentration

* Weight compensated to 100% purity

Certified by: R. Cooper

NOTE: The Lot Number on the actual product may include a suggice not shown on this certificate (ex: -1A, -2B, etc.) This is a modifier indicating the lot expiration date has been extended.
AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

OR-ORG-INO-001
Rev: A08

T-Test

Component	Run #1	Run #2	Run #3	Mean	Std Dev.	% RSD	C.I. Lot# B8110143	Run #1	Run #2	Run #3	Mean	Std Dev.	% RSD	t.025 -test	C.I. Lot# B8110036
1 Tetrachloro-m-xylene	2012	2085	2096	2064	37.28	1.8%	4.0	2228	2257	2247	2240	14.45	0.6%	8.8	1.4
2 β-BHC	1433	1481	1478	1464	21.95	1.5%	1.9	1385	1414	1399	1399	11.64	0.8%	5.2	1.1
3 δ-BHC	3170	3243	3246	3219	41.63	1.3%	2.3	3228	3246	3213	3229	16.77	0.5%	5.2	1.1
4 Aldrin	3080	3243	3190	3171	77.55	2.4%	2.3	3228	3246	3213	3229	16.77	0.5%	5.2	1.1
5 Heptachlor epoxide (isomer B)	2946	3083	3087	3039	85.55	2.8%	2.6	3169	3314	3298	3260	64.91	2.0%	4.8	2.4
6 α-Chlordane	3017	3167	3166	3117	70.48	2.3%	4.1	3372	3430	3408	3396	28.58	0.8%	7.3	1.5
7 γ-Chlordane	3007	3158	3167	3111	73.40	2.4%	2.6	3235	3379	3369	3328	65.65	2.0%	4.4	2.2
8 p,p'-DDE	6006	6298	6296	6200	137.18	2.2%	8.3	6498	6773	6751	6674	142.7	1.9%	8.3	3.5
9 Endosulfan II	3971	4211	4132	4105	99.87	2.4%	3.1	4358	4548	4350	4419	168.03	3.9%	2.5	4.0
10 Endrin aldehyde	5271	5560	5427	5419	118.11	2.2%	5.5	5668	5848	5819	5778	78.91	1.4%	5.1	3.5
11 Endosulfan sulfate	5529	5756	5720	5672	99.81	1.8%	4.8	5921	6147	6153	6074	107.98	1.8%	5.5	4.9
12 Endrin ketone	3469	3674	3692	3612	101.15	2.8%	7.9	3884	3953	3959	3920	41.64	1.1%	5.6	3.0
13 Decachlorobiphenyl															

Contract Laboratory Program (CLP)

In 1980, the US Congress addressed the problem of cleaning up abandoned and inactive dump sites by enacting the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA). These acts mandated the clean-up of the worst abandoned or inactive waste sites in the nation as well as leaking underground storage tanks.

These standards are routinely used for other testing protocols. An outgrowth of this legislation was the Contract Laboratory Program (CLP) which was established to perform Superfund analyses.

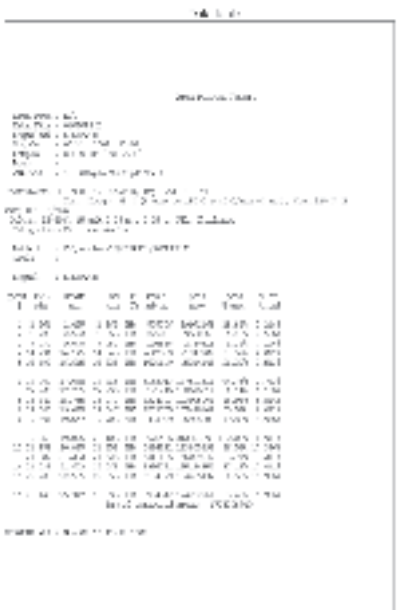
CLP methods are designed for both volatile and semi-volatile compounds. The most recent EPA Target Compounds are listed in the OLM 04.1 and OLM 04.2 Statement of Work.

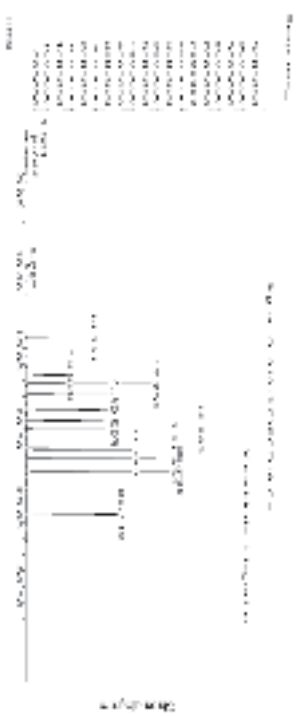
CLP Contents

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All the Analytical Documentation required in CLP Analysis

Data Table — Inside — Chromatogram





Contract Laboratory Program (CLP)
Volatiles

VOC Selected Target Compound Solutions

Volatile Target Compounds List (TCL)

CLP-022-SET ❄ — **$ 60 / set of 2 x 1 mL (CLP-022-PART-A, CLP-022-PART-B)**

Part A

CLP-022-PART-A — **$ 55 / 1 x 1 mL**
0.5 mg/mL each in MeOH — 29 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,1-Dichloroethane
- Dichloromethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *cis*-1,2-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethylbenzene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl chloride
- *m*-Xylene
- *p*-Xylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Part B

CLP-022-PART-B ❄ — **$ 25 / 1 x 1 mL**
0.5 mg/mL each in MeOH — 8 comps.

- Acetone
- 2-Butanone
- Carbondisulfide
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- Vinyl acetate
- *o*-Xylene

Volatile Target Compounds List (TCL)

CLP-022 ❄ — **$ 60 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 37 comps.

- Acetone
- Benzene
- Bromodichloromethane
- Bromoform
- Bromomethane
- 2-Butanone
- Carbondisulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,1-Dichloroethane
- Dichloromethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *cis*-1,2-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethylbenzene
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl acetate
- Vinyl chloride
- *m*-Xylene
- *o*-Xylene
- *p*-Xylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Volatile Target Compounds List (TCL)

Gases

CLP-022G	0.2 mg/mL each in MeOH		**$ 20 / 1 x 1 mL**
CLP-022G-PAK	0.2 mg/mL each in MeOH	*SAVE 20%*	**$ 80 / 5 x 1 mL**
CLP-022G-10X	2.0 mg/mL each in MeOH		**$ 20 / 1 x 1 mL**
CLP-022G-10X-PAK	2.0 mg/mL each in MeOH	*SAVE 20%*	**$ 80 / 5 x 1 mL**

4 comps.

- Bromomethane
- Chloroethane
- Chloromethane
- Vinyl chloride

Ketones

CLP-022K ❄	0.2 mg/mL each in MeOH	**$ 20 / 1 x 1 mL**
CLP-022K-10X ❄	2.0 mg/mL each in MeOH	**$ 25 / 1 x 1 mL**
CLP-022K-25X ❄	5.0 mg/mL each in MeOH	**$ 25 / 1 x 1 mL**

4 comps.

- Acetone
- 2-Butanone
- 2-Hexanone
- 4-Methyl-2-pentanone

CLP-022-R2 ❄ — **$ 60 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 36 comps.

- Acetone
- Benzene
- Bromodichloromethane
- Bromoform
- Bromomethane
- 2-Butanone
- Carbondisulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,1-Dichloroethane
- Dichloromethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- cis-1,2-Dichloroethylene
- trans-1,2-Dichloroethylene
- 1,2-Dichloropropane
- cis-1,3-Dichloropropene *
- trans-1,3-Dichloropropene **
- Ethylbenzene
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl chloride
- m-Xylene
- o-Xylene
- p-Xylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Technical Note

AccuStandard provides CLP Volatile Target Compound List in a single solution in two versions. CLP-022-R2 (Vinyl acetate was removed from the TCL PLM03.1), for CLP laboratories following SOW OLM01.8 (August 1994). CLP-022-SET will continue to be available as an alternate source of reference material.

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a ColdPAK.

Contract Laboratory Program (CLP)
Auxiliary Volatiles

Volatiles

Volatile Calibration Check Compounds (CCC)

CLP-020	0.2 mg/mL each in MeOH		**$ 30 / 1 x 1 mL**
CLP-020-PAK	0.2 mg/mL each in MeOH	*SAVE 20%*	**$ 120 / 5 x 1 mL**
CLP-020-10X	2.0 mg/mL each in MeOH		**$ 30 / 1 x 1 mL**
CLP-020-10X-PAK	2.0 mg/mL each in MeOH	*SAVE 20%*	**$ 120 / 5 x 1 mL**

6 comps.

Chloroform
1,1-Dichloroethene
1,2-Dichloropropane
Ethylbenzene
Toluene
Vinyl chloride

Volatile System Performance Check Compounds (SPCC)

CLP-021	0.2 mg/mL each in MeOH		**$ 30 / 1 x 1 mL**
CLP-021-PAK	0.2 mg/mL each in MeOH	*SAVE 20%*	**$ 120 / 5 x 1 mL**
CLP-021-10X	2.0 mg/mL each in MeOH		**$ 30 / 1 x 1 mL**
CLP-021-10X-PAK	2.0 mg/mL each in MeOH	*SAVE 20%*	**$ 120 / 5 x 1 mL**

5 comps.

Bromoform
Chlorobenzene
Chloromethane
1,1-Dichloroethane
1,1,2,2-Tetrachloroethane

Hexadecane Extraction Volatiles

CLP-BTEX	0.2 mg/mL each in MeOH		**$ 30 / 1 x 1 mL**
CLP-BTEX-PAK	0.2 mg/mL each in MeOH	*SAVE 20%*	**$ 120 / 5 x 1 mL**
CLP-BTEX-10X	2.0 mg/mL each in MeOH		**$ 30 / 1 x 1 mL**
CLP-BTEX-10X-PAK	2.0 mg/mL each in MeOH	*SAVE 20%*	**$ 120 / 5 x 1 mL**

6 comps.

Benzene
Ethylbenzene
Toluene
m-Xylene
o-Xylene
p-Xylene

CLP-001B **$ 15 / 1 x 1 mL**
1.0 mg/mL each in MeOH 2 comps.

n-Decane
n-Nonane

Instrument Performance Check Solution

CLP-004	25 µg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-PAK	25 µg/mL in MeOH	*SAVE 20%*	**$ 40 / 5 x 1 mL**
CLP-004-10X	250 µg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-10X-PAK	250 µg/mL in MeOH	*SAVE 20%*	**$ 40 / 5 x 1 mL**
CLP-004-80X	2000 µg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-80X-PAK	2000 µg/mL in MeOH	*SAVE 20%*	**$ 40 / 5 x 1 mL**
CLP-004-100X	2500 µg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-100X-PAK	2500 µg/mL in MeOH	*SAVE 20%*	**$ 40 / 5 x 1 mL**
CLP-004-1000X	25 mg/mL in MeOH		**$ 20 / 1 x 1 mL**

p-Bromofluorobenzene

Aldehydes and Ketones in Alcohol Solvents

Standards containing aldehydes and ketones in methanol are given shorter expiration periods because of their ability to form acetals and ketals. AccuStandard adds stabilizers to inhibit this reaction. To enhance stability, freezer storage is required.

Purgeable Surrogate Standard

CLP-PS	0.25 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-PS-PAK	0.25 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**
CLP-PS-4X	1.0 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-PS-4X-PAK	1.0 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**
CLP-PS-10X	2.5 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-PS-10X-PAK	2.5 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**

3 comps.

p-Bromofluorobenzene
1,2-Dichloroethane-d_4
Toluene-d_8

Purgeable Internal Standard

CLP-PI-0.25X	0.25 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-PI-0.25X-PAK	0.25 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**
CLP-PI	1.0 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-PI-PAK	1.0 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**
CLP-PI-2.5X	2.5 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-PI-2.5X-PAK	2.5 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**

3 comps.

Bromochloromethane
Chlorobenzene-d_5
1,4-Difluorobenzene

Purgeable Internal/Surrogate Standard

CLP-PIPS		**$ 40 / 1 x 1 mL**
CLP-PIPS-PAK	*SAVE 20%*	**$ 160 / 5 x 1 mL**

2.5 mg/mL each in MeOH 6 comps.

Bromochloromethane
p-Bromofluorobenzene
Chlorobenzene-d_5
1,2-Dichloroethane-d_4
1,4-Difluorobenzene
Toluene-d_8

Purgeable Organic Matrix Spiking Solution

CLP-003-R	0.25 mg/mL each in MeOH		**$ 20 / 1 x 1 mL**
CLP-003-R-PAK	0.25 mg/mL each in MeOH	*SAVE 20%*	**$ 80 / 5 x 1 mL**
CLP-003-R-10X	2.5 mg/mL each in MeOH		**$ 20 / 1 x 1 mL**
CLP-003-R-10X-PAK	2.5 mg/mL each in MeOH	*SAVE 20%*	**$ 80 / 5 x 1 mL**

5 comps.

Benzene
Chlorobenzene
1,1-Dichloroethene
Toluene
Trichloroethene

Many Higher Concentrations are the Same Price

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



Contract Laboratory Program (CLP)
Volatiles (continued)

CLP OLM 04.1 & 04.2 - Volatiles

The set of volatile standards along with a complete semi-volatile series meets OLM 04.1, and also can be used for OLM 04.2.

CLP OLM 04.1 & 04.2 - Volatiles Set
CLP-VOC-SET ❄ **$ 200 / 9 x 1 mL (CLP-022-R3, M-601B, CLP-022K-10X, CLP-BTEX, CLP-PS-10X,CLP-PI-2.5X, CLP-PIPS, CLP-003R-10X, CLP-004-10X)**

CLP OLM 04.1 & 04.2 - Volatile Target Compound List
CLP-022-R3 **$ 40 / 1x 1 mL**
CLP-022-R3-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
200 µg/mL in MeOH 40 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 1,2-Dibromo-3-chloropropane
- Cyclohexane
- Dibromochloromethane
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *cis*-1,2-Dichloroethene
- *trans*-1,2-dichloroethene
- Dichloromethane
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene
- *trans*-1,3-Dichloropropene
- Ethylbenzene
- Isopropylbenzene
- Methyl acetate
- Methylcyclohexane
- MtBE
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- 1,1,2-Trichloro-1,2,2-trifluoroethane
- *m*-Xylene
- *p*-Xylene
- *o*-Xylene

Gases
M-601B **$ 25 / 1 x 1 mL**
M-601B-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH 6 comps.

- Bromomethane
- Chloromethane
- Chloroethane
- Dichlorodifluoromethane
- Trichlorofluoromethane
- Vinyl chloride

Ketones
CLP-022K **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH
CLP-022K-10X **$ 25 / 1 x 1 mL**
2.0 mg/mL each in MeOH 4 comps.

- Acetone
- 2-Butanone
- 2-Hexanone
- 4-Methyl-2-pentanone

CLP 04.1 & 04.2 Screening Mix
CLP-BTEX **$ 30 / 1 x 1 mL**
CLP-BTEX-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH 6 comps.
CLP-BTEX-10X **$ 30 / 1 x 1 mL**
CLP-BTEX-10X-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH 6 comps.

- Benzene
- Ethylbenzene
- Toluene
- *m*-Xylene
- *o*-Xylene
- *p*-Xylene

Purgeable Surrogate Standard
CLP-PS-10X **$ 25 / 1 x 1 mL**
CLP-PS-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.5 mg/mL each in MeOH 3 comps.

- *p*-Bromofluorobenzene
- 1,2-Dichloroethane-d_4
- Toluene-d_8

Purgeable Internal Standard
CLP-PI-2.5X **$ 25 / 1 x 1 mL**
CLP-PI-2.5X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.5 mg/mL each in MeOH 3 comps.

- Bromochloromethane
- Chlorobenzene-d_5
- 1,4-Difluorobenzene

Purgeable Internal/Surrogate Standard
CLP-PIPS **$ 40 / 1 x 1 mL**
CLP-PIPS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.5 mg/mL each in MeOH 6 comps.

- Bromochloromethane
- *p*-Bromofluorobenzene
- Chlorobenzene-d_5
- 1,2-Dichloroethane-d_4
- 1,4-Difluorobenzene
- Toluene-d_8

Purgeable Organic Matrix Spiking Solution
CLP-003-R-10X **$ 20 / 1 x 1 mL**
CLP-003-R-10X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.5 mg/mL each in MeOH 5 comps.

- Benzene
- Chlorobenzene
- 1,1-Dichloroethene
- Tol*uene*
- Trichloroethene

Instrument Performance Check Solution
CLP-004-10X **$ 10 / 1 x 1 mL**
CLP-004-10X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
250 µg/mL in MeOH
CLP-004-100X **$ 10 / 1 x 1 mL**
CLP-004-100X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
2500 µg/mL in MeOH

- *p*-Bromofluorobenzene

❄ A ColdPAK is required.

Low Concentration SOW (10/92) Organic Analysis of Water

Volatile Target Compounds Mix

CLP-022-LC — **$ 70 / 1 x 1 mL**
0.2 mg/mL each in MeOH (except indictated) — 42 comps.

- Acetone (1.0 mg/mL)
- Benzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- 2-Butanone (1.0 mg/mL)
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- Dichloromethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *cis*-1,2-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethylbenzene
- 2-Hexanone (1.0 mg/mL)
- 4-Methyl-2-pentanone (1.0 mg/mL)
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl chloride
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Internal Standard Mix

CLP-LC-IS	25 µg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-LC-IS-PAK	25 µg/mL each in MeOH	***SAVE 20%***	**$ 100 / 5 x 1 mL**
CLP-LC-IS-10X	0.25 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-LC-IS-10X-PAK	0.25 mg/mL each in MeOH	***SAVE 20%***	**$ 100 / 5 x 1 mL**
CLP-LC-IS-100X	2.5 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
CLP-LC-IS-100X-PAK	2.5 mg/mL each in MeOH	***SAVE 20%***	**$ 100 / 5 x 1 mL**

3 comps.

- Chlorobenzene-d_5
- 1,4-Dichlorobenzene-d_4
- 1,4-Difluorobenzene

Tuning Solution / Surrogate Standard Mix

CLP-004	25 µg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-PAK	25 µg/mL in MeOH	***SAVE 20%***	**$ 40 / 5 x 1 mL**
CLP-004-10X	0.25 mg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-10X-PAK	0.25 mg/mL in MeOH	***SAVE 20%***	**$ 40 / 5 x 1 mL**
CLP-004-100X	2.5 mg/mL in MeOH		**$ 10 / 1 x 1 mL**
CLP-004-100X-PAK	2.5 mg/mL in MeOH	***SAVE 20%***	**$ 40 / 5 x 1 mL**
CLP-004-1000X	25 mg/mL in MeOH		**$ 20 / 1 x 1 mL**

- *p*-Bromofluorobenzene

Laboratory Control Sample Spiking Solution

CLP-LCS-V — **$ 25 / 1 x 1 mL**
CLP-LCS-V-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 12 comps.

- Benzene
- Bromoform
- Carbon tetrachloride
- 1,2-Dibromoethane
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- Tetrachloroethene
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl chloride

* may contain trace amounts of *trans* isomer

Storage Conditions

All products come with storage conditions listed on the label of the ampule or bottle. Some chemical formulations require refrigeration or freezer storage to inhibit adverse reactions among the components. Other standards require sonication prior to use because they are near their saturation for the particular formulation. It is imperative that these conditions are followed to insure the chemical reference standard will be at the stated concentration.



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Priority Pollutant Standards

Priority Pollutants - Standards for Calibration of Capillary GC/MS

The EPA procedures call for fused silica capillary column analysis of priority pollutants. AccuStandard has assembled the following mixtures to be used in calibrating this analytical system. These mixtures are highly concentrated to aid in the establishment of response factors.

Base/Neutrals - Mix #1

Z-014A **$ 50 / 1 x 1 mL**
Z-014A-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 14 comps.

- 4-Bromophenylphenyl ether
- Butyl benzyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 4-Chlorophenylphenyl ether
- Diethyl phthalate
- Dimethyl phthalate
- Di-*n*-butyl phthalate
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- N-Nitrosodimethylamine
- N-Nitrosodi-*n*-propylamine
- N-Nitrosodiphenylamine

Base/Neutrals - Mix #2

Z-014B **$ 50 / 1 x 1 mL**
Z-014B-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 14 comps.

- Azobenzene
- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Isophorone
- Nitrobenzene
- 1,2,4-Trichlorobenzene

Benzidine Mix

Z-014F **$ 30 / 1 x 1 mL**
Z-014F-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH 2 comps.

- Benzidine
- 3,3'-Dichlorobenzidine

Phenols Mix

Z-014H **$ 30 / 1 x 1 mL**
Z-014H-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 11 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Toxic Substances - Mix #1

Z-014D **$ 25 / 1 x 1 mL**
Z-014D-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 4 comps.

- Benzoic acid
- 2-Methylphenol
- 4-Methylphenol
- 2,4,5-Trichlorophenol

Toxic Substances - Mix #2

Z-014E **$ 30 / 1 x 1 mL**
Z-014E-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 8 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline

Internal Standards Mixture

Z-014J **$ 80 / 1 x 1 mL**
Z-014J-PAK ***SAVE 37%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

PAH Mix

Z-014G **$ 65 / 1 x 1 mL**
Z-014G-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) 16 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PAH Mix

Z-014G-R **$ 65 / 1 x 1 mL**
Z-014G-R-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) 17 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Carbazole
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

Expanded PAH Mix

Z-014G-FL **$ 85 / 1 x 1 mL**
2.0 mg/mL each in Dichloromethane:Benzene(1:1) 18 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene
- 1-Methylnaphthalene
- 2-Methylnaphthalene

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Priority Pollutant Standards

Priority Pollutants - Standards for Calibration of Capillary GC/MS - Complete Sets (Continued)

Z-014R-SET **$ 350 / 9 x 1 mL**
Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014C	Pesticides - Mix #1
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G-R	PAH Mix
Z-014H	Phenols Mix
Z-014J	Internal Standard Mix

Z-014R-1-SET **$ 350 / 9 x 1 mL**
Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014C-R	Pesticides - Mix #2
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G-R	PAH Mix
Z-014H	Phenols Mix
Z-014J	Internal Standard Mix

Z-014R-2-SET **$ 230 / 7 x 1 mL**
Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G	PAH Mix
Z-014H	Phenols Mix

Z-014R-3-SET **$ 230 / 7 x 1 mL**
Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G-R	PAH Mix
Z-014H	Phenols Mix

Order a complete Set and Save

Pesticides - Mix #1

Z-014C **$ 75 / 1 x 1 mL**
Z-014C-PAK ***SAVE 20%*** **$ 300 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1)
16 comps.

Aldrin	Dieldrin
α-BHC	Endosulfan I
β-BHC	Endosulfan II
γ-BHC	Endosulfan sulfate
δ-BHC	Endrin
4,4'-DDD	Endrin aldehyde
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide

Pesticides - Mix #2

Z-014C-R **$ 95 / 1 x 1 mL**
Z-014C-R-PAK ***SAVE 20%*** **$ 380 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1)
20 comps.

Aldrin	Dieldrin
α-BHC	Endosulfan I
β-BHC	Endosulfan II
γ-BHC	Endosulfan sulfate
δ-BHC	Endrin
α-Chlordane	Endrin aldehyde
γ-Chlordane	Endrin ketone
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor

Pesticides - Mix #3

Z-014C-R2 **$ 85 / 1 x 1 mL**
Z-014C-R2-PAK ***SAVE 20%*** **$ 340 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1)
18 comps.

Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
γ-BHC	Endrin
δ-BHC	Endrin aldehyde
4,4'-DDD	Endrin ketone
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide
Dieldrin	Methoxychlor

Tuning Standards for EPA Methods

M-625-TS **$ 40 / 1 x 1 mL**
M-625-TS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
50 µg/mL each in CH_2Cl_2
4 comps.

Benzidine	DFTPP
p,p'-DDT	Pentachlorophenol

CLP-TS **$ 20 / 1 x 1 mL**
CLP-TS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
50 µg/mL in CH_2Cl_2

Perfluorokerosene

EPA Method 625 GC/MS Calibration Standards

M-625C-SET **$ 80 / set of 5 x 1 mL**

Individual Solutions M-625C-# **$ 20 / each**
At stated conc. in CH_2Cl_2

(1) Benzidine (50 µg/mL)
(2) Pentachlorophenol (25 µg/mL)
(3) Decafluorotriphenylphosphine (25 µg/mL)
(4) Benzidine (50 µg/mL) + DFTPP (25 µg/mL)
(5) Pentachlorophenol (25 µg/mL) + DFTPP (25 µg/mL)

Base/Neutral & Acid Composite Mixtures
For CLP Semi-Volatiles Analysis

CLP Target List

The following composite mixes were formulated to allow flexibility of preparing a final semi-volatile mix to meet your laboratory's specific needs. CLP-HC-BN-SET contains 46 of the Base-Neutral analytes on the CLP semi-volatile Target List . These Base-Neutral analytes are now available in a two ampule set to extend the useful life of your stock calibration standards. CLP-HC-A contains the acidic compounds found in the CLP Target List. An additional composite mix can then be selected to complement your exact requirements for semi-volatile analysis.

Base-Neutral

CLP-HC-BN-R 44 comps.
2.0 mg/mL each in Benzene : CH_2Cl_2: AcCN (2:2:1)

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl)ether
- bis(2-Chloro-1-methylethyl) ether
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- Dibenz[a,h]anthracene
- Di-*n*-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno[1,2,3-cd]pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene

Technical Note

Azobenzene was substituted for 1,2-Diphenylhydrazine since the 1,2-Diphenylhydrazine oxidizes to azobenzene under GC operating conditions.

Benzidine

Z-014F 2 comps.
2.0 mg/mL each in MeOH

- Benzidine
- 3,3'-Dichlorobenzidine

CLP-HC-BN-R **$ 160 / 1 x 1 mL**
CLP-HC-BN-R-PAK ***SAVE 20%*** **$ 640 / 5 x 1 mL**
Z-014F **$ 30 / 1 x 1 mL**

CLP Target List Set

CLP-HC-BN-SET **$ 190 / 2 x 1 mL (CLP-HC-BN-R, Z-014F)**
CLP-HC-BN-SET-PAK ***SAVE 20%*** **$ 760 / 5 x (2 x 1 mL)**

Acid Composite Mix

CLP-HC-A-R **$ 55 / 1 x 1 mL**
CLP-HC-A-R-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 19 comps.

- Benzoic acid
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- *o*-Cresol
- *p*-Cresol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-2-methylphenol
- 2,4-Dinitrophenol
- Ethyl methanesulfonate
- Methyl methanesulfonate
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Additional Composite Mixtures

Composite #1

Z-014E **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 8 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline

Composite #2

Z-014E-R **$ 32 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 9 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- Pyridine

Composite #3

Z-014E-R3 **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 10 comps.

- Aniline
- Benzyl alcohol
- Carbazole
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- Pyridine

GC/MS Analysis of Semi-Volatiles

Method Analytes Mixture
CLP-TCLSV — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 3 comps.

- Benzoic acid
- Benzyl alcohol
- N-Nitrosodimethylamine

Calibration Check Compounds (CCC) Set
CLP-011-SET — **$ 35 / 2 x 1 mL (CLP-011A, CLP-011B)**

Base/Neutrals
CLP-011A — **1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 7 comps.

- Acenaphthene
- Benzo[a]pyrene
- 1,4-Dichlorobenzene
- Di-*n*-octylphthalate
- Hexachlorobutadiene
- Fluoranthene
- N-Nitroso-diphenylamine

Acids
CLP-011B — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 6 comps.

- 4-Chloro-3-methylphenol
- 2,4-Dichlorophenol
- 2-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Base/Neutrals & Acids Matrix Standard Spiking Sets

CLP-007-R-SET	**$ 35 / 2 x 1 mL (CLP-007A, CLP-007-2)**
CLP-007-R-SET-PAK	**$ 140 / 5 x (2 x 1 mL) (CLP-007A, CLP-007-2)**
CLP-007-SET	**$ 35 / 2 x 1 mL (CLP-007A, CLP-007B)**

Base/Neutrals
CLP-007A — **$ 20 / 1 x 1 mL**
1.0 mg/mL each in MeOH — 6 comps.

- Acenaphthene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- N-Nitroso-di-*n*-propylamine
- Pyrene
- 1,2,4-Trichlorobenzene

Acids
CLP-007-2 — **$ 20 / 1 x 1 mL**
1.5 mg/mL each in MeOH — 5 comps.
CLP-007B — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 5 comps.

- 2-Chlorophenol
- 4-Chloro-3-methylphenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol

Surrogate Standard
CLP-BNS-3-2X — **$ 10 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2

- 4-Terphenyl-d_{14}

Internal Standards Mixture
Z-014J — **$ 80 / 1 x 1 mL**
Z-014J-PAK — ***SAVE 37%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 — 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

System Performance Check Compounds (SPCC)
CLP-010 — **$ 25 / 1 x 1 mL**
0.2 mg/mL each in CH_2Cl_2
CLP-010-10X — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 4 comps.

- 2,4-Dinitrophenol
- Hexachlorocyclopentadiene
- 4-Nitrophenol
- N-nitroso-di-*n*-propylamine

Semi-Volatile Organic Extract Calibration (Screening Mix)
CLP-009 — **$ 20 / 1 x 1 mL**
0.1 mg/mL each in CH_2Cl_2
CLP-009-10X — **$ 20 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 3 comps.

- Di-*n*-octylphthalate
- Phenanthrene
- Phenol

Initial Calibration Target Compounds List
CLP-012 — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 9 comps.

- Benzoic acid
- 2,4-Dinitrophenol
- 4,6-Dinitro-2-methylphenol
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- 4-Nitrophenol
- Pentachlorophenol
- 2,4,5-Trichlorophenol

Acid Surrogate Standard
CLP-AS — **$ 25 / 1 x 1 mL**
CLP-AS-PAK — ***SAVE 36%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH
CLP-AS-10X — **$ 50 / 1 x 1 mL**
CLP-AS-10X-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
20 mg/mL each in MeOH — 3 comps.

- 2-Fluorophenol
- Phenol-d_5
- 2,4,6-Tribromophenol

Base/Neutrals Surrogate Standard
CLP-BNS — **$ 25 / 1 x 1 mL**
CLP-BNS-PAK — ***SAVE 36%*** **$ 80 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2
CLP-BNS-10X — **$ 50 / 1 x 1 mL**
CLP-BNS-10X-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 3 comps.

- 2-Fluorobiphenyl
- Nitrobenzene-d_5
- *p*-Terphenyl-d_{14}

Base/Neutral & Acid Composite Mixtures
For CLP Semi-Volatiles Analysis

August 1994 Statement of Work

Acid Surrogate Standards

CLP-029 **$ 35 / 1 x 1 mL**
CLP-029-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH
CLP-029-0.75X **$ 35 / 1 x 1 mL**
CLP-029-0.75X-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1.5 mg/mL each in MeOH 4 comps.

- 2-Chlorophenol-d_4
- 2-Fluorophenol
- Phenol-d_5
- 2,4,6-Tribromophenol

Semi-Volatile Surrogate Mixes

CLP-031-R **$ 75 / 1 x 1 mL**
CLP-031-R-PAK ***SAVE 20%*** **$ 300 / 5 x 1 mL**
At stated conc. in MeOH : CH_2Cl_2 (1:1) 8 comps.

2-Chlorophenol-d_4	(1.5 mg/mL)	Nitrobenzene-d_5	(1.0 mg/mL)
1,2-Dichlorobenzene-d_4	(1.0 mg/mL)	Phenol-d_5	(1.5 mg/mL)
2-Fluorobiphenyl	(1.0 mg/mL)	*p*-Terphenyl-d_{14}	(1.0 mg/mL)
2-Fluorophenol	(1.5 mg/mL)	2,4,6-Tribromophenol	(1.5 mg/mL)

CLP-031-R2 **$ 75 / 1 x 1 mL**
CLP-031-R2-PAK ***SAVE 20%*** **$ 300 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 8 comps.

- 2-Chlorophenol-d_4
- 1,2-Dichlorobenzene-d_4
- 2-Fluorobiphenyl
- 2-Fluorophenol
- Nitrobenzene-d_5
- Phenol-d_5
- *p*-Terphenyl-d_{14}
- 2,4,6-Tribromophenol

Base/Neutral Surrogate Standard

CLP-030 **$ 35 / 1 x 1 mL**
CLP-030-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 4 comps.

- 1,2-Dichlorobenzene-d_4
- 2-Fluorobiphenyl
- Nitrobenzene-d_5
- *p*-Terphenyl-d_{14}

Instrument Performance Check Solution

CLP-033 **$ 20 / 1 x 1 mL**
CLP-033-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.25 mg/mL in CH_2Cl_2

- Decafluorotriphenylphosphine (DFTPP)

GC/MS Tuning Solution

CLP-TS **$ 20 / 1 x 1 mL**
CLP-TS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
50 µg/mL in CH_2Cl_2

- Perfluorokerosene

GPC Solutions for Sample Clean-up

Semi-Volatiles (Gel Permeation)

GPC Calibration Standard Solution

CLP-027 **$ 25 / 1 x 1 mL**
CLP-027-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in CH_2Cl_2 5 comps.

Corn Oil	(250 mg/mL)	Perylene	(0.2 mg/mL)
bis(2-Ethylhexyl)phthalate	(10 mg/mL)	Sulfur	(0.8 mg/mL)
Methoxychlor	(2 mg/mL)		

8/94 SOW OLM03.1

CLP-027-R2 **$ 25 / 1 x 1 mL**
CLP-027-R2-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in CH_2Cl_2 5 comps.

Corn Oil	(250 mg/mL)	Perylene	(0.2 mg/mL)
bis(2-Ethylhexyl)phthalate	(5 mg/mL)	Sulfur	(0.8 mg/mL)
Methoxychlor	(1 mg/mL)		

Method 3640 - GPC Calibration Solutions and Set

Solution A

CLP-008A **$ 20 / 1 x 1 mL**
200 mg/mL in CH_2Cl_2

- Corn Oil

Solution B

CLP-008B-R **$ 20 / 1 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 2 comps.

- bis(2-Ethylhexyl)phthalate
- Pentachlorophenol

CLP-008-R-SET **$ 30 / 2 x 1 mL (CLP-008A, CLP-008B-R)**

Contract Laboratory Program (CLP)
Low Concentration SOW (10/92) for Organic Analysis of Water

Low Concentration SOW Semi-Volatiles

Base/Neutrals - Mix #1
Z-014A-LC **$ 50 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 13 comps.

- 4-Bromophenylphenyl ether
- Butyl benzyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 4-Chlorophenylphenyl ether
- Diethyl phthalate
- Dimethyl phthalate
- Di-*n*-butyl phthalate
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- N-Nitrosodiphenylamine
- N-Nitrosodi-n-propylamine

Base/Neutrals - Mix #2
Z-014B-LC **$ 50 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 14 comps.

- 4-Chloroaniline
- 2-Chloronaphthalene
- Dibenzofuran
- 3,3'-Dichlorobenzidine
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Isophorone
- 2-Methylnaphthalene
- Nitrobenzene
- 1,2,4-Trichlorobenzene

Base/Neutrals - Mix #3
Z-014K-LC **$ 40 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 8 comps.

- 2,4-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- 4-Nitrophenol
- Pentachlorophenol
- 2,4,5-Trichlorophenol

Technical Note

60 Target Compounds in these five mixtures are designed to conveniently prepare initial and continuing calibration solutions.

Polynuclear Aromatic Hydrocarbon Mix
Z-014G **$ 65 / 1 x 1 mL**
Z-014G-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) 16 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i,]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

Phenols Mixture
Z-014H-LC **$ 30 / 1 x 1 mL**
Z-014H-LC-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 9 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2-Methylphenol
- 4-Methylphenol
- 2-Nitrophenol
- Phenol
- 2,4,6-Trichlorophenol

Laboratory Control Sample Spiking Solution
CLP-LCS-SV-SET **$ 50 / 2 x 1 mL**

CLP-LCS-SV-R1 **1 x 1 mL**
At stated conc. in Acetone:MeOH (9:1)
14 comps.

Benzo[a]pyrene	(20 µg/mL)
2-Chlorophenol	(40 µg/mL)
bis(2-Chloroethyl) ether	(20 µg/mL)
Diethylphthalate	(20 µg/mL)
2,4-Dinitrotoluene	(20 µg/mL)
Hexachlorobenzene	(20 µg/mL)
Hexachloroethane	(20 µg/mL)
Isophorone	(20 µg/mL)
Naphthalene	(20 µg/mL)
N-Nitrosos-di-*n*-propylamine	(20 µg/mL)
N-Nitrosodiphenylamine	(20 µg/mL)
Phenol	(40 µg/mL)
1,2,4-Trichlorobenzene	(20 µg/mL)
2,4,6-Trichlorophenol	(40 µg/mL)

CLP-LCS-SV-ADD **1 x 1 mL**
40 µg/mL in Acetone:MeOH (9:1)

- 4-Chloroaniline

Tuning Solution
M-625C-3-2X **$ 20 / 1 x 1 mL**
50 µg/mL in CH_2Cl_2

- Decafluorotriphenylphosphine

Internal Standard
Z-014J-0.5X **$ 50 / 1 x 1 mL**
Z-014J-0.5X-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Surrogate Standards
CLP-LC-SS-1 **$ 40 / 1 x 1 mL**
CLP-LC-SS-1-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH:CH_2Cl_2 (1:4) 5 comps.

- 2-Fluorobiphenyl
- 2-Fluorophenol
- Nitrobenzene-d_5
- Phenol-d_5
- *p*-Terphenyl-d_{14}

CLP-LC-SS-2 **$ 10 / 1 x 1 mL**
CLP-LC-SS-2-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
6.0 mg/mL in MeOH

- 2,4,6-Tribromophenol

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



CLP OLM 04.1 & 04.2 - Semi-Volatiles

CLP OLM 04.1 & 04.2 - Base Neutrals
CLP-HC-SVR-SET — **$ 120 / 3 x 1 mL**
(CLP-HC-SV-MIX1, CLP-HC-SV-MIX2, CLP-HC-SV-MIX4)

Base Neutrals Mix #1
CLP-HC-SV-MIX1 — **$ 50 / 1 x 1 mL**
2000 µg/mL each in CH_2Cl_2 — 13 comps.

- Benzyl butyl phthalate
- 4-Bromophenyl phenyl ether
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 4-Chlorophenyl phenyl ether
- Dibutyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine

CLP Base Neutral & PAH Mix #2
CLP-HC-SV-MIX2 — **$ 95 / 1 x 1 mL**
2000 µg/mL each in CH_2Cl_2 — 31 comps.

- Acenaphthene
- Acenaphthylene
- Acetophenone
- Anthracene
- Atrazine
- Benzaldehyde
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- Biphenyl
- e-Caprolactam
- Carbazole
- 2-Chloronaphthalene
- Chrysene
- Dibenz[a,h]anthracene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno[1,2,3-cd]pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- Phenanthrene
- Pyrene

CLP Toxic Substance Mix #4
CLP-HC-SV-MIX4 — **$ 35 / 1 x 1 mL**
2000 µg/mL each in CH_2Cl_2 — 7 comps.

- 4-Chloroaniline
- Dibenzofuran
- 3,3'-Dichlorobenzidine
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline

Phenols
CLP-HC-A-R5 — **$ 45 / 1 x 1 mL**
CLP-HC-A-R5-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 — 14 comps.

- 4-Chloro-3-methylphenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2-Chlorophenol
- 2-Methyl-4,6-dinitrophenol
- *o*-Cresol
- *p*-Cresol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Base/Neutral Matrix Spike Solution
CLP-BN-MS — **$ 30 / 1 x 1 mL**
CLP-BN-MS-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
1000 µg/mL each in MeOH — 4 comps.

- Acenaphthene
- 2,4-Dinitrotoluene
- N-Nitrosodi-*n*-propylamine
- Pyrene

Semi-Volatile Organic Extract Calibration (Screening Mix)
CLP-009-10X — **$ 20 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 3 comps.

- Di-*n*-octylphthalate
- Phenanthrene
- Phenol

Instrument Performance Check Solution
CLP-033 — **$ 20 / 1 x 1 mL**
CLP-033-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.25 mg/mL in CH_2Cl_2

- Decafluorotriphenylphosphine (DFTPP)

Acids
CLP-007-2 — **$ 20 / 1 x 1 mL**
1.5 mg/mL each in MeOH — 5 comps.

- 2-Chlorophenol
- 4-Chloro-3-methylphenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol

Semi-Volatile Surrogate Mixture
CLP-031-R — **$ 75 / 1 x 1 mL**
CLP-031-R-PAK — ***SAVE 20%*** **$ 300 / 5 x 1 mL**
At stated conc. in MeOH : CH_2Cl_2 (1:1) — 8 comps.

- 2-Chlorophenol-d_4 (1.5 mg/mL)
- 1,2-Dichlorobenzene-d_4 (1.0 mg/mL)
- 2-Fluorobiphenyl (1.0 mg/mL)
- 2-Fluorophenol (1.5 mg/mL)
- Nitrobenzene-d_5 (1.0 mg/mL)
- Phenol-d_5 (1.5 mg/mL)
- *p*-Terphenyl-d_{14} (1.0 mg/mL)
- 2,4,6-Tribromophenol (1.5 mg/mL)

Internal Standards Mixture
Z-014J — **$ 80 / 1 x 1 mL**
Z-014J-PAK — ***SAVE 37%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 — 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Pesticides Mixture
Z-014C-R — **$ 95 / 1 x 1 mL**
Z-014C-R-PAK — ***SAVE 20%*** **$ 380 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1) — 20 comps.

- Aldrin
- α-BHC
- β-BHC
- γ-BHC
- δ-BHC
- α-Chlordane
- γ-Chlordane
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- Heptachlor
- Heptachlor epoxide
- Methoxychlor

Technical Note
Poor recoveries for endrin and DDT can result from an injector port problem. Try cleaning the port or replacing the liner. Most times this will correct the problem. Removing the first few inches of a capillary column can also help. Since elevated temperatures contribute to the breakdown problem, using cool on-column injection methods may avoid this issue.

CLP OLM 04.1 & 04.2 - Semi-Volatiles Set
CLP-SVC-KIT3 — **$ 425 / 11 x 1 mL**
Set includes: CLP-HC-SV-MIX1 ,CLP-HC-SV-MIX2 ,CLP-HC-SV-MIX4, CLP-HC-A-R5, CLP-BN-MS,CLP-009-10X, CLP-033, CLP-007-2, CLP-031-R, Z-014J, Z-014C-R

Contract Laboratory Program (CLP)
Pesticide Mixtures

CLP - Pesticide Mixtures

CLP-018-10X — **$ 55 / 1 x 1 mL**
CLP-018-10X-PAK — ***SAVE 20%*** **$ 220 / 5 x 1 mL**
At stated conc. in Isooctane — 11 comps.

Aldrin	(1.0 µg/mL)	Endosulfan II	(2.0 µg/mL)
γ-BHC	(0.5 µg/mL)	Endrin aldehyde	(2.5 µg/mL)
p,p'-DDT	(2.0 µg/mL)	Heptachlor	(1.0 µg/mL)
Dibutylchlorendate	(5.0 µg/mL)	Heptachlor epoxide	(1.0 µg/mL)
Dieldrin	(1.0 µg/mL)	Methoxychlor	(10 µg/mL)
Endosulfan I	(1.0 µg/mL)		

CLP-019-10X — **$ 60 / 1 x 1 mL**
CLP-019-10X-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
At stated conc. in Isooctane — 12 comps.

Aldrin	(1.0 µg/mL)	p,p'-DDD	(2.0 µg/mL)
α-BHC	(0.5 µg/mL)	p,p'-DDE	(1.0 µg/mL)
β-BHC	(1.0 µg/mL)	Dibutylchlorendate	(5.0 µg/mL)
δ-BHC	(1.0 µg/mL)	Endosulfan sulfate	(2.0 µg/mL)
α-Chlordane	(1.0 µg/mL)	Endrin	(1.0 µg/mL)
γ-Chlordane	(1.0 µg/mL)	Endrin ketone	(2.0 µg/mL)

Pesticide Set

CLP-018/019-10X-SET — **$ 100 / 2 x 1 mL (CLP-018-10X, CLP-019-10X)**

CLP - Pesticide Surrogates

CLP-032-R — **$ 15 / 1 x 1 mL**
CLP-032-R-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
200 µg/mL each in Acetone — 2 comps.

Decachlorobiphenyl — Tetrachloro-*m*-xylene

CLP-034 — **$ 15 / 1 x 1 mL**
CLP-034-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
200 µg/mL each in Acetone — 2 comps.

Dibutylchlorendate — Tetrachloro-*m*-xylene

CLP-PES-A — **$ 20 / 1 x 1 mL**
CLP-PES-A-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
200 µg/mL in Acetone
CLP-PES-A-20X — **$ 20 / 1 x 1 mL**
4000 µg/mL in Acetone

Dibutylchlorendate

Pesticide Calibration Mixtures - Statement of Work 2/88 to 8/94

Working Level Pesticide Standard

At stated conc. (ng/mL) in Isooctane — 11 comps.

Compound	Level 1 CLP-023R	2 (-4X)	3 (-10X)	4 (-30X)	5 (-160X)
α-BHC	50	200	500	1,500	8,000
γ-BHC	50	200	500	1,500	8,000
p,p'-DDD	100	400	1,000	3,000	16,000
p,p'-DDT	100	400	1,000	3,000	16,000
Decachlorobiphenyl	100	400	1,000	3,000	16,000
Dieldrin	100	400	1,000	3,000	16,000
Endosulfan I	50	200	500	1,500	8,000
Endrin	100	400	1,000	3,000	16,000
Heptachlor	50	200	500	1,500	8,000
Methoxychlor	500	2,000	5,000	15,000	80,000
Tetrachloro-*m*-xylene	50	200	500	1,500	8,000

CLP-023R-CAL-SET — **$ 100 / 3 x 1 mL (Level 1, Level 2, Level 5)**

Level 1	**CLP-023R**	**$ 40 / 1 mL**
Level 2	**CLP-023R-4X**	**40 / 1 mL**
Level 3	**CLP-023R-10X**	**40 / 1 mL**
Level 4	**CLP-023R-30X**	**40 / 1 mL**
Level 5	**CLP-023R-160X**	**40 / 1 mL**

Level 2 Daily QC (for mid level curves)

CLP-023R-WL-4X-10ML — **$ 50 / 1 x 10 mL**
CLP-023R-WL-4X-25ML — **$ 75 / 1 x 25 mL**
CLP-023R-WL-4X-100ML — **$ 100 / 1 x 100 mL**
At stated conc. in Isooctane — 11 comps.

α-BHC	(20 ng/mL)	Endosulfan I	(20 ng/mL)
γ-BHC	(20 ng/mL)	Endrin	(40 ng/mL)
p,p'-DDD	(40 ng/mL)	Heptachlor	(20 ng/mL)
p,p'-DDT	(40 ng/mL)	Methoxychlor	(200 ng/mL)
Decachlorobiphenyl	(40 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Dieldrin	(40 ng/mL)		

Working Level Pesticide Standard

At stated conc. (ng/mL) in Isooctane — 13 comps.

Compound	Level 1 CLP-024R	2 (-4X)	3 (-10X)	4 (-30X)	5 (-160X)
Aldrin	50	200	500	1,500	8,000
β-BHC	50	200	500	1,500	8,000
δ-BHC	50	200	500	1,500	8,000
α-Chlordane	50	200	500	1,500	8,000
γ-Chlordane	50	200	500	1,500	8,000
p,p'-DDE	100	400	1,000	3,000	16,000
Decachlorobiphenyl	100	400	1,000	3,000	16,000
Endosulfan II	100	400	1,000	3,000	16,000
Endosulfan sulfate	100	400	1,000	3,000	16,000
Endrin aldehyde	100	400	1,000	3,000	16,000
Endrin ketone	100	400	1,000	3,000	16,000
Heptachlor epoxide	50	200	500	1,500	8,000
Tetrachloro-*m*-xylene	50	200	500	1,500	8,000

CLP-024R-CAL-SET — **$ 100 / 3 x 1 mL (Level 1, Level 2, Level 5)**

Level 1	**CLP-024R**	**$ 40 / 1 mL**
Level 2	**CLP-024R-4X**	**40 / 1 mL**
Level 3	**CLP-024R-10X**	**40 / 1 mL**
Level 4	**CLP-024R-30X**	**40 / 1 mL**
Level 5	**CLP-024R-160X**	**40 / 1 mL**

Level 2 Daily QC (for mid level curves)

CLP-024R-WL-4X-10ML — **$ 50 / 1 x 10 mL**
CLP-024R-WL-4X-25ML — **$ 75 / 1 x 25 mL**
CLP-024R-WL-4X-100ML — **$ 100 / 1 x 100 mL**
At stated conc. in Isooctane — 13 comps.

Aldrin	(20 ng/mL)	Endosulfan II	(40 ng/mL)
β-BHC	(20 ng/mL)	Endosulfan sulfate	(40 ng/mL)
δ-BHC	(20 ng/mL)	Endrin aldehyde	(40 ng/mL)
α-Chlordane	(20 ng/mL)	Endrin ketone	(40 ng/mL)
γ-Chlordane	(20 ng/mL)	Heptachlor epoxide	(20 ng/mL)
p,p'-DDE	(40 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(40 ng/mL)		

Pesticide Calibration Sets

CLP-023R/024R-SET	**$ 75 / 2 x 1 mL (CLP-023R, CLP-024R)**	**CLP-023R/024R-40X-SET**	**$ 75 / 2 x 1 mL (CLP-023R-40X, CLP-024R-40X)**
CLP-023R/024R-4X-SET	**$ 75 / 2 x 1 mL (CLP-023R-4X, CLP-024R-4X)**	**CLP-023R/024R-160X-SET**	**$ 75 / 2 x 1 mL (CLP-023R-160X, CLP-024R-160X)**

Pesticides
Working Levels

CLP - Pesticides

Evaluation Standard Mixture
CLP-017 — **$ 25 / 1 x 1 mL**
CLP-017-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in Isooctane — 4 comps.

Aldrin	(1 µg/mL)	Dibutylchlorendate	(1 µg/mL)
4,4'-DDT	(2 µg/mL)	Endrin	(2 µg/mL)

Florisil Cartridge Check Solution
CLP-FC — **$ 10 / 1 x 1 mL**
CLP-FC-PAK — *SAVE 20%* **$ 40 / 5 x 1 mL**
100 µg/mL in Acetone

2,4,5-Trichlorophenol

Pesticide Matrix Spiking Solutions
CLP-026-R2 — **$ 25 / 1 x 1 mL**
CLP-026-R2-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in Acetone — 6 comps.

Aldrin	(5 µg/mL)	Dieldrin	(10 µg/mL)
γ-BHC	(5 µg/mL)	Endrin	(10 µg/mL)
4,4'-DDT	(10 µg/mL)	Heptachlor	(5 µg/mL)

CLP-026-R2-10X — **$ 25 / 1 x 1 mL**
CLP-026-R2-10X-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in Acetone — 6 comps.

Aldrin	(50 µg/mL)	Dieldrin	(100 µg/mL)
γ-BHC	(50 µg/mL)	Endrin	(100 µg/mL)
4,4'-DDT	(100 µg/mL)	Heptachlor	(50 µg/mL)

Pesticide Matrix Spiking Solution
CLP-026-R2-WL — **$ 10 / 1 x 1 mL**
CLP-026-R2-WL-25ML — **$ 50 / 1 x 25 mL**
CLP-026-R2-WL-50ML — **$ 75 / 1 x 50 mL**
At stated conc. in Acetone — 6 comps.

Aldrin	(0.5 µg/mL)	Dieldrin	(1.0 µg/mL)
γ-BHC	(0.5 µg/mL)	Endrin	(1.0 µg/mL)
4,4'-DDT	(1.0 µg/mL)	Heptachlor	(0.5 µg/mL)

Resolution Check Solution
CLP-028-WL — **$ 20 / 1 x 1 mL**
CLP-028-WL-10ML — **$ 45 / 1 x 10 mL**
At stated conc. in Isooctane — 9 comps.

γ-Chlordane	(10 ng/mL)	Endosulfan sulfate	(20 ng/mL)
Endosulfan I	(10 ng/mL)	Endrin ketone	(20 ng/mL)
p,p'-DDE	(20 ng/mL)	Methoxychlor	(100 ng/mL)
Decachlorobiphenyl	(20 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Dieldrin	(20 ng/mL)		

High Conc. Pesticide Matrix Spiking Solutions
For Water
CLP-014-1000X — **$ 25 / 1 x 1 mL**
CLP-014-1000X-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in MeOH — 6 comps.

Aldrin	(200 µg/mL)	Endrin	(500 µg/mL)
4,4'-DDT	(500 µg/mL)	Heptachlor	(200 µg/mL)
Dieldrin	(500 µg/mL)	Lindane	(200 µg/mL)

For Soil/Sediment
CLP-016-1000X — **$ 25 / 1 x 1 mL**
CLP-016-1000X-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in MeOH — 6 comps.

Aldrin	(2,000 µg/mL)	Endrin	(5,000 µg/mL)
4,4'-DDT	(5,000 µg/mL)	Heptachlor	(2,000 µg/mL)
Dieldrin	(5,000 µg/mL)	Lindane	(2,000 µg/mL)

Laboratory Control Sample Spiking Solution
CLP-LCS-P-1000X — **$ 35 / 1 x 1 mL**
CLP-LCS-P-1000X-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
At stated conc. in Acetone — 7 comps.

γ-BHC	(100 µg/mL)	Endosulfan sulfate	(200 µg/mL)
γ-Chlordane	(100 µg/mL)	Endrin	(200 µg/mL)
Dieldrin	(200 µg/mL)	Heptachlor epoxide	(100 µg/mL)
4,4'-DDE	(200 µg/mL)		

Performance Evaluation Solution
CLP-025-WL — **$ 20 / 1 x 1 mL**
CLP-025-WL-10ML — **$ 45 / 1 x 10 mL**
At stated conc. in Isooctane — 8 comps.

α-BHC	(10 ng/mL)	Decachlorobiphenyl	(20 ng/mL)
β-BHC	(10 ng/mL)	Endrin	(50 ng/mL)
γ-BHC	(10 ng/mL)	Methoxychlor	(250 ng/mL)
4,4'-DDT	(100 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)

PREP NOTES

The addition of 1 mL of Surrogate / Spiking solution is sufficient to check the extraction efficiency and to verify spike recoveries for the analytical batch.

Pesticide Surrogate Mixtures
CLP-032R-WL-0.2X-10ML — **$ 20 / 1 x 10 mL**
CLP-032R-WL-0.2X-50ML — **$ 40 / 1 x 50 mL**
CLP-032R-WL-0.2X-100ML — **$ 60 / 1 x 100 mL**
0.2 µg/mL each in Acetone — 2 comps.

Decachlorobiphenyl Tetrachloro-*m*-xylene

Pesticide and PCBs

Performance Evaluation Solution
CLP-025 — **$ 45 / 1 x 1 mL**
CLP-025-PAK — *SAVE 20%* **$ 180 / 5 x 1 mL**
At stated conc. in Isooctane — 8 comps.

α-BHC	(100 ng/mL)	Decachlorobiphenyl	(200 ng/mL)
β-BHC	(100 ng/mL)	Endrin	(500 ng/mL)
γ-BHC	(100 ng/mL)	Methoxychlor	(2500 ng/mL)
4,4'-DDT	(1000 ng/mL)	Tetrachloro-*m*-xylene	(200 ng/mL)

Resolution Mixture
CLP-028 — **$ 50 / 1 x 1 mL**
CLP-028-PAK — *SAVE 20%* **$ 200 / 5 x 1 mL**
At stated conc. in Isooctane — 9 comps.

γ-Chlordane	(100 ng/mL)	Dieldrin	(200 ng/mL)
Endosulfan I	(100 ng/mL)	Endosulfan sulfate	(200 ng/mL)
p,p'-DDE	(200 ng/mL)	Endrin ketone	(200 ng/mL)
Decachlorobiphenyl	(200 ng/mL)	Methoxychlor	(1000 ng/mL)
		Tetrachloro-*m*-xylene	(200 ng/mL)

Polychlorinated Biphenyls, Chlordane & Toxaphene
Each at 1,000 µg/mL in Hexane — *SAVE 20%*

Aroclors #	Cat. No.	1 mL	Cat. No. (5 x 1 mL)	PAK
Aroclor 1016	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H-10X	20	C-268S-H-10X-PAK	80
Pesticides				
Chlordane	P-017S-H-10X	$ 15	P-017S-H-10X-PAK	$ 60
Toxaphene	P-093S-H-10X	15	P-093S-H-10X-PAK	60

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Aroclors
Working Levels

Aroclors at Working Levels

Aroclors 1016/1260 with Surrogates

CLP-216/260-WL — **$ 10 / 1 x 1 mL**
CLP-216/260-WL-5ML — **$ 15 / 1 x 5 mL**
CLP-216/260-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in Isooctane — 4 comps.

Aroclor 1016	(100 ng/mL)	Decachlorobiphenyl	(20 ng/mL)
Aroclor 1260	(100 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)

Aroclor 1221 with Surrogates

CLP-221-WL — **$ 10 / 1 x 1 mL**
CLP-221-WL-5ML — **$ 15 / 1 x 5 mL**
CLP-221-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in Isooctane — 3 comps.

Aroclor 1221	(200 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(20 ng/mL)		

Aroclor 1232 with Surrogates

CLP-232-WL — **$ 10 / 1 x1 mL**
CLP-232-WL-5ML — **$ 15 / 1 x 5 mL**
CLP-232-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in Isooctane — 3 comps.

Aroclor 1232	(100 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(20 ng/mL)		

Aroclor 1242 with Surrogates

CLP-242-WL — **$ 10 / 1 x 1 mL**
CLP-242-WL-5ML — **$ 15 / 1 x 5 mL**
CLP-242-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in Isooctane — 3 comps.

Aroclor 1242	(100 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(20 ng/mL)		

Technical Note

The profiles of some Aroclor products may not always look the same, but the percent chlorine by weight will be.

Aroclor 1248 with Surrogates

CLP-248-WL — **$ 10 / 1 x 1 mL**
CLP-248-WL-5ML — **$ 15 / 1 x 5 mL**
CLP-248-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in Isooctane — 3 comps.

Aroclor 1248	(100 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(20 ng/mL)		

Aroclor 1254 with Surrogates

CLP-254-WL — **$ 10 / 1 x 1 mL**
CLP-254-WL-5ML — **$ 15 / 1 x 5 mL**
CLP-254-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in Isooctane — 3 comps.

Aroclor 1254	(100 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(20 ng/mL)		

Toxaphene with Surrogates

P-093-WL-10X — **$ 12 / 1 x 1 mL**
P-093-WL-10X-5ML — **$ 15 / 1 x 5 mL**
P-093-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane — 3 comps.

Toxaphene	(500 ng/mL)	Tetrachloro-*m*-xylene	(20 ng/mL)
Decachlorobiphenyl	(20 ng/mL)		



Sample Clean-up Solutions at Working Levels

GPC Calibration Solution

CLP-027-WL-10ML — **$ 30 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 — 5 comps.

Corn Oil	(25 mg/mL)	Perylene	(0.02 mg/mL)
bis(2-Ethylhexyl)phthalate	(1.0 mg/mL)	Sulfur	(0.08 mg/mL)
Methoxychlor	(0.2 mg/mL)		

GPC Calibration Solution for 8/94 SOW OLM03.1

CLP-027-R2-WL-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 — 5 comps.

Corn Oil	(25 mg/mL)	Perylene	(0.02 mg/mL)
bis(2-Ethylhexyl)phthalate	(0.5 mg/mL)	Sulfur	(0.08 mg/mL)
Methoxychlor	(0.1 mg/mL)		

AccuStandard provides the solutions to meet sample clean-up parameters!

Florisil Cartridge Check Solution

CLP-FC-WL-10ML — **$ 20 / 1 x 10 mL**
0.1 µg/mL in Acetone

2,4,5-Trichlorophenol

GPC Calibration Check Solutions

GPC-CC-A-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 — 6 comps.

Aldrin	(0.1 µg/mL)	Dieldrin	(0.2 µg/mL)
γ-BHC *(Lindane)*	(0.1 µg/mL)	Endrin	(0.2 µg/mL)
4,4'-DDT	(0.2 µg/mL)	Heptachlor	(0.1 µg/mL)

GPC-CC-B-WL-10ML — **$ 20 / 1 x 10 mL**
0.2 µg/mL each in CH_2Cl_2 — 2 comps.

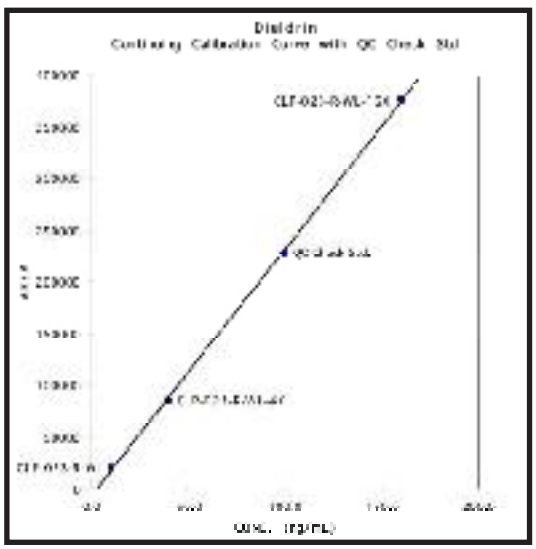
Aroclor 1016 Aroclor 1260

Working Levels and Curves

AccuStandard's QC protocol provides assurance and confidence in Working Level Standards:

Each Calibration Set is prepared using raw materials which have been tested for chemical purity and identity by GC/MS. After checking the identity and purity of each analyte, its concentration in the Calibration Solution is confirmed by rigorous analysis.

All individual component responses in the Calibration Set are then plotted using least squares linear regression. The resultant line drawn through the data points must have a coefficient of correlation no less than 0.99. An independently prepared QC check standard, having a concentration at the midpoint is analyzed to verify the accuracy of the calibration curve.



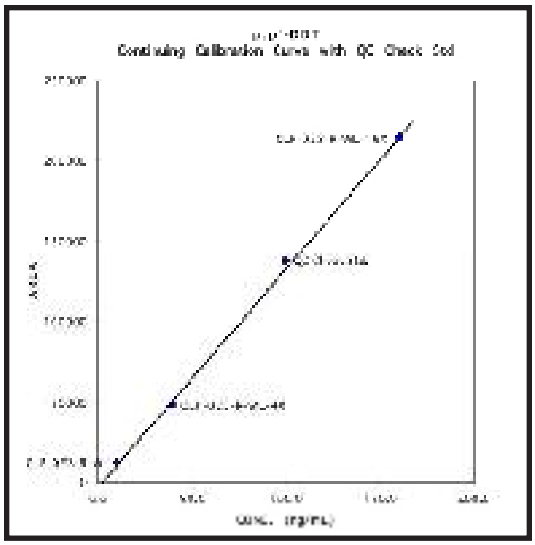
CLP-023R-CAL-SET Analyte: **Dieldrin**

Cat. No.	Lot No.	Conc.	Area
CLP-023-R-WL	025-279	10 ng/mL	20523
CLP-023-R-WL-4X	025-278	40 ng/mL	85767
CLP-023-R-WL-16X	025-277	160 ng/mL	375897

M-8080-WL-25X **Lot No. 025-340**

TARGET VALUE	100	ANALYTICAL VALUE	98.1
ANALYTICAL AREA	227622	% DIFF. FROM TARGET	-1.9%

The AccuStandard CCC Product Line Improves Efficiency:
Load the calibration curve Standards at the end of the day with your samples and working level check, and review a verified curve with your sample results the next day.



CLP-023R-CAL-SET Analyte: **p,p'-DDT**

Cat. No.	Lot No.	Conc.	Area
CLP-023-R-WL	025-279	10 ng/mL	12334
CLP-023-R-WL-4X	025-278	40 ng/mL	48513
CLP-023-R-WL-16X	025-277	160 ng/mL	214379

M-8080-WL-25X **Lot No. 025-340**

TARGET VALUE	100	ANALYTICAL VALUE	103.4
ANALYTICAL AREA	137012	% DIFF. FROM TARGET	3.4%

AccuStandard's QC protocol provides the end user with assurance when calibrating with Working Level Standards. This extra level of confidence will allow your laboratory to concentrate on analyzing samples, rather than preparing calibration solutions.

Documentation of our analysis are available upon request with order.

Validated for You !!



Working Level Standards & Continuing Calibration Check (CCC)

Standard Mixtures for EPA 500 Series
For Drinking Water

Background Information
In 1974, the Safe Drinking Water Act was passed by the US Congress. Under the Act, the USEPA established national standards for drinking water from both surface and ground water sources. The EPA 500 Series Methods have evolved from the passage of the Clean Water Act, and from several amendments to the original Act.

The 500 Series product line contains standards used in proposed and promulgated methods for the identification and quantification of organic compounds in drinking water. The organic compounds listed in the various methods include volatile organic compounds (VOCs), pesticides, synthetic organic compounds (SOCs), and trihalomethane disinfection by-products.

Analytical techniques used in the identification and quantification include gas chromatography with selective detectors (PID, ELCD, ECD, FID, NPD, FPD), gas chromatography/mass spectrometry (GC/MS) and high performance liquid chromatography (HPLC).

Complete analysis of the target compounds with these 500 Series Methods can be accomplished by using the series of standards formulated by AccuStandard for each method along with the required internal and surrogate standards.

For your convenience we offer either large mixes containing all the target analytes, or smaller sub-mixes at higher concentrations to allow for flexibility in your analysis.

Method #	Method Description	153-180
501	Trihalomethanes (ECD or PID/ELCD)	153
502.2	Volatiles (PID/ELCD) & Volatile Surrogates & Internal Standards	154-157
503.1	VOC - Aromatics & Alkenes (PID/ELCD)	158
504	EDB & DBCP (ECD)	158
504.1	EDB, DBCP, TCP (ECD)	158
505	Organohalide Pesticides & Aroclors (ECD)	158
506	Phthalate Esters	158
507	Nitrogen/Phosphorous Pesticides (NPD)	159
508 & 508.A	Chlorinated Pesticides & Aroclors (ECD)	160
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EPA Hazardous Substances List (Volatiles)

HSL Volatiles Standard Mixture

M-HSL ❄ — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 8 comps.

- Acetone
- 2-Butanone
- Carbon disulfide
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- Vinyl acetate
- *o*-Xylene

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a "ColdPAK"

Method 501 Trihalomethane Analysis by P&T-GC/ECD or PID

Trihalomethanes

M-501 — **$ 17 / 1 x 1 mL**
M-501-PAK — ***SAVE 20%*** **$ 68 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.
M-501-SET — **$ 50 / set of 5 x 1 mL**
Set contain Each component at 0.2 mg/mL in MeOH + **M-501** Mix
M-501-10X — **$ 20 / 1 x 1 mL**
M-501-10X-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.

- Bromoform
- Chloroform
- Dibromochloromethane
- Dichlorobromomethane

Method 502.2 Volatile Organic Compounds by PID/ELCD

The following solutions represent a breakdown of Method 502 components into groups containing liquid and gaseous components:

54 Liquid Components

Benzene (01)
Bromobenzene (02)
Bromochloromethane (03)
Bromodichloromethane (04)
Bromoform (05)
n-Butylbenzene (07)
sec-Butylbenzene (08)
tert-Butylbenzene (09)
Carbon tetrachloride (10)
Chlorobenzene (11)
Chloroform (13)
2-Chlorotoluene (15)
4-Chlorotoluene (16)
Dibromochloromethane (17)
1,2-Dibromo-3-chloropropane (18)
1,2-Dibromoethane (19)
Dibromomethane (20)
1,2-Dichlorobenzene (21)
1,3-Dichlorobenzene (22)
1,4-Dichlorobenzene (23)
1,1-Dichloroethane (25)
1,2-Dichloroethane (26)
1,1-Dichloroethene (27)
cis-1,2-Dichloroethene (28)
trans-1,2-Dichloroethene (29)
1,2-Dichloropropane (30)
1,3-Dichloropropane (31)
2,2-Dichloropropane (32)
1,1-Dichloropropene (33)
cis-1,3-Dichloropropene (34A) *
trans-1,3-Dichloropropene (34B) **
Ethylbenzene (35)
Hexachlorobutadiene (36)
Isopropylbenzene *(Cumene)* (37)
p-Isopropyltoluene *(p-Cymene)* (38)
Methylene chloride (39)
Naphthalene (40)
n-Propylbenzene (41)
Styrene (42)
1,1,1,2-Tetrachloroethane (43)
1,1,2,2-Tetrachloroethane (44)
Tetrachloroethene (45)
Toluene (46)
1,2,3-Trichlorobenzene (47)
1,2,4-Trichlorobenzene (48)
1,1,1-Trichloroethane (49)
1,1,2-Trichloroethane (50)
Trichloroethene (51)
1,2,3-Trichloropropane (53)
1,2,4-Trimethylbenzene (54)
1,3,5-Trimethylbenzene (55)
o-Xylene (57)
m-Xylene (58)
p-Xylene (59)

*cis (1.06 x conc.) (34A)
**trans (0.94 x conc.) (34B)

6 Gas Components

Bromomethane (06)
Chloroethane (12)
Chloromethane (14)
Dichlorodifluoromethane (24)
Trichlorofluoromethane (52)
Vinyl chloride (56)

54 Liquid Components

M-502A-R	0.2 mg/mL each in MeOH		**$ 60 / 1 x 1 mL**
M-502A-R-PAK	0.2 mg/mL each in MeOH	*SAVE 20%*	**$ 240 / 5 x 1 mL**
M-502A-R-10X	2.0 mg/mL each in MeOH		**$ 80 / 1 x 1 mL**
M-502A-R-10X-PAK	2.0 mg/mL each in MeOH	*SAVE 20%*	**$ 320 / 5 x 1 mL**

6 Gas Components

M-502B	0.2 mg/mL each in MeOH		**$ 25 / 1 x 1 mL**
M-502B-PAK	0.2 mg/mL each in MeOH	*SAVE 20%*	**$ 100 / 5 x 1 mL**
M-502B-10X	2.0 mg/mL each in MeOH		**$ 35 / 1 x 1 mL**
M-502B-10X-PAK	2.0 mg/mL each in MeOH	*SAVE 20%*	**$ 140 / 5 x 1 mL**

54 Liquid and 6 Gas Component Sets

M-502A-R/B-SET — **$ 80 / 2 x 1 mL**
0.2 mg/mL each in MeOH — **(M-502A-R, M-502B)**
M-502A-R/B-10X-SET — **$ 105 / 2 x 1 mL**
2.0 mg/mL each in MeOH — **(M-502A-R-10X, M-502B-10X)**

Internal & Surrogate Standard

M-502-IS/SS — **$ 20 / 1 x 1 mL**
M-502-IS/SS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.

1-Chloro-3-fluorobenzene
2-Chloropropane
Fluorobenzene
α,α,α-Trifluorotoluene

Technical Note

M-502-IS/SS is useful for DB-624/VRX analysis by GC/ELCD/PID. 2-Chloropropane has been included in the standard to be used as an early eluting Internal Standard. The use of this Internal Standard aids in quantitating the gaseous components in purgeable volatiles.

Internal/Surrogate Standard

M-502-IS-ASL — **$ 20 / 1 x 1 mL**
Alternate Source
M-502-IS-ASL-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

2-Bromo-1-chloropropane
1-Chloro-2-fluorobenzene

o,m,p-Xylenes Mix

M-502-60	0.2 mg/mL in MeOH	**$ 10 / 1 x 1 mL**
M-502-60-10X	2.0 mg/mL in MeOH	**$ 14 / 1 x 1 mL**
		3 comps.

o-Xylene (57)
m-Xylene (58)
p-Xylene (59)

Technical Note

Solutions containing volatile components (such as gases) should be chilled before opening to ensure gases are in the solution and not the headspace.

All 60 liquid & gas components in One Solution

Liquids (54 comps.) and Gases (6 comps.)

M-502 — **$ 75 / 1 x 1 mL**
M-502-PAK — *SAVE 20%* **$ 300 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 60 comps.
M-502-10X — **$ 100 / 1 x 1 mL**
M-502-10X-PAK — *SAVE 20%* **$ 400 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 60 comps.

Liquids (54 comps.) & Gases (6 comps.) plus p-Isoproyltoluene

M-502-R1 — **$ 75 / 1 x 1 mL** (liquid and gases)
M-502-R1-PAK — *SAVE 20%* **$ 300 / 5 x 1 mL** (liquid and gases)
0.2 mg/mL each in MeOH — 61 comps.

Liquids (54 comps.) plus MtBE

M-502A-R3 — **$ 60 / 1 x 1 mL**
0.2 mg/mL each in MeOH
M-502A-R3-10X — **$ 80 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 55 comps.

59 Component Set

As a complete set of each component in individual ampules.

M-502-SET	0.2 mg/mL in MeOH	**$ 300 / 59 x 1 mL**
M-502-10X-SET	2.0 mg/mL in MeOH	**$ 350 / 59 x 1 mL**

Individual Component Solutions

To order, specify identity (#) and conc. (0.2 or 2.0 mg/mL)

M-502-#	0.2 mg/mL in MeOH	**$ 10 / 1 x 1 mL**
M-502-#-10X	2.0 mg/mL in MeOH	**$ 14 / 1 x 1 mL**

M-502-34A & M-502-34B only available as mixture: M-502-34R

M-502-34-R — **$ 10 / 1 x 1 mL**
0.4 mg/mL each in MeOH
M-502-34-R-10X — **$ 15 / 1 x 1 mL**
4.0 mg/mL each in MeOH — 2 comps.

cis-1,3-Dichloropropene
trans-1,3-Dichloropropene

Individual Component Neats

To order, specify identity
M-502-#N — **$ 20 / 1 x 1 gram**
except,

$ 40 / 1 x 1 gram

M-502-04N
M-502-08N
M-502-17N
M-502-18N
M-502-28N
M-502-29N
M-502-31N
M-502-32N
M-502-34N
M-502-43N
M-502-44N

$ 60 / 1 x 1 gram

M-502-49N

Method 502.2 (Continued) VOCs by PID/ELCD

The following solutions represent an alternate source formulation of Method 502/524 components based on similar volatility groups.

M-502-K1-SET — **$ 150 / 6 x 1 mL**
(M-502B-10X, M-502C-02, M-502C-03, M-502C-04, M-502C-05, M-502C-06)

M-502B-10X — **$ 35 / 1 x 1 mL**
M-502B-10X-PAK Alternate Source *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 6 comps.

- Bromomethane
- Chloroethane
- Chloromethane
- Dichlorodifluoromethane
- Trichlorofluoromethane
- Vinyl chloride

M-502C-02 — **$ 35 / 1 x 1 mL**
M-502C-02-PAK Alternate Source *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 6 comps.

- Bromodichloromethane
- Dibromochloromethane
- 1,1,-Dichloroethylene
- *cis*-1,2-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- Methylene chloride

M-502C-03 — **$ 35 / 1 x 1 mL**
M-502C-03-PAK Alternate Source *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 9 comps.

- Bromochloromethane
- Bromoform
- Carbon tetrachloride
- Chloroform
- Dibromomethane
- 1,1-Dichloroethane
- 2,2-Dichloropropane
- Tetrachloroethylene
- 1,1,1-Trichloroethane

M-502C-04 — **$ 35 / 1 x 1 mL**
M-502C-04-PAK Alternate Source *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 14 comps.

- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 1,1-Dichloropropylene
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Hexachlorobutadiene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- 1,2,3-Trichloropropane

* cis (1.06 x conc.)
** trans (0.94 x conc.)

M-502C-05 — **$ 35 / 1 x 1 mL**
M-502C-05-PAK Alternate Source *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 13 comps.

- Benzene
- Bromobenzene
- *n*-Butylbenzene
- Ethylbenzene
- *p*-Isopropyltoluene
- Naphthalene
- Styrene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- *m*-Xylene

M-502C-06 — **$ 35 / 1 x 1 mL**
M-502C-06-PAK Alternate Source *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 12 comps.

- *sec*-Butylbenzene
- *tert*-Butylbenzene
- Chlorobenzene
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Isopropylbenzene
- *n*-Propylbenzene
- *o*-Xylene
- *p*-Xylene

Method 502.2 Volatile Organic Mixtures

Custom Unregulated VOC's

M-502C-09 — **$ 60 / 1 x 1 mL**
2.0 mg/mL each in MeOH 39 comps.

- Bromobenzene
- Bromochloromethane
- Bromodichloromethane
- Bromoform
- Bromomethane
- *n*-Butylbenzene
- *sec*-Butylbenzene
- *tert*-Butylbenzene
- Chloroethane
- Chloroform
- Chloromethane
- 2-Chlorotoluene
- 4-Chlorotoluene
- Dibromochloromethane
- Dibromomethane
- 1,3-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- 1,1-Dichloropropene
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Hexachlorobutadiene
- Isopropylbenzene *(Cumene)*
- *p*-Isopropyltoluene *(p-Cymene)*
- Dichloromethane *(Methylene chloride)*
- Naphthalene
- *n*-Propylbenzene
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,2-Trichloroethane
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene *(Mesitylene)*

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Wisconsin DNR VOC Mixture

S-989 — **$ 100 / 1 x 1 mL**
2.0 mg/mL each in MeOH 52 comps.

- Benzene
- Bromobenzene
- Bromodichloromethene
- *n*-Butylbenzene
- *sec*-Butylbenzene
- *tert*-Butylbenzene
- Carbon tetrachloride
- Chlorobenzene
- Chlorodibromomethane
- Chloroethane
- Chloroform
- Chloromethane
- 2-Chlorotoluene
- 4-Chlorotoluene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *cis*-1,2-Dichloroethene
- *trans*-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 2,2-Dichloropropane
- Diisopropyl ether
- Ethylbenzene
- Hexachlorobutadiene
- Isopropylbenzene
- *p*-Isopropyltoluene
- Methylene chloride
- Methyl tert-butyl ether
- Naphthalene
- n-Propylbenzene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Vinyl chloride
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

Technical Note

Each ampule contains at least 120% of the stated volume of a solution, allowing easy transfer. Transfer the required amount using a clean calibration syringe. Excess solution can be stored in a tightly capped vial, but this is not recommended. AccuStandard cannot guarantee the integrity of the solution once the ampule has been opened. See the EPA method protocol for storage instructions.

Alternate Source

Alternate Source = Matches Competitive Product

AccuStandard enhances your laboratory's analytical results while streamlining your purchasing efforts through the Alternate Source Line (ASL) of Analytical Standards. Use ASL's for Independent lots to other Standard suppliers' formulations.

We compiled a list of most requested CLP, and EPA 500, 600, 8000 series analytical Standard formulations currently offered in the marketplace. See our complete list of ASL products in QC section of this catalog.

Method 502.2 (continued) Volatile Organic Compounds

The solutions below have been designed in cooperation with laboratories in the Contract Laboratory Program and have proven useful in this particular configuration for the separation and quantitation of all of the 60 components on a single column.

M-502D/E/F-SET — **$ 120 / set of 3 x 1 mL** (set includes **M-502D**, **M-502E** & **M-502F**)

Mix D

M-502D — **$ 45 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 26 comps.

- Benzene
- Bromobenzene
- Bromochloromethane
- Bromoform
- *sec*-Butyl benzene
- Carbon tetrachloride
- Chloroethane
- 4-Chlorotoluene
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethene
- *trans*-1,2-Dichloroethene
- Dichlorodifluoromethane
- 2,2-Dichloropropane
- Ethyl benzene
- Ethylene dibromide
- Isopropylbenzene
- Tetrachloroethene
- 1,1,1,2-Tetrachloroethane
- Toluene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- Trichloroethene
- Vinyl chloride
- *o*-Xylene

Mix E

M-502E — **$ 45 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 21 comps.

- Bromomethane
- Chlorobenzene
- Chloromethane
- 2-Chlorotoluene
- Dibromochloromethane
- 1,3-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- *cis*-1,2-Dichloroethene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene*
- *trans*-1,3-Dichloropropene**
- Hexachlorobutadiene
- Methylene chloride
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichlorofluoromethane
- Styrene
- 1,2,3-Trichloropropane
- 1,2,4-Trimethylbenzene
- *m*-Xylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Mix F

M-502F — **$ 45 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 13 comps.

- Bromodichloromethane
- *n*-Butyl benzene
- *tert*-Butyl benzene
- Chloroform
- 1,2-Dibromo-3-chloropropane
- 1,3-Dichloropropane
- 1,1-Dichloropropene
- *p*-Isopropyl toluene
- Naphthalene
- *n*-Propyl benzene
- 1,1,2,2-Tetrachloroethane
- 1,3,5-Trimethyl benzene
- *p*-Xylene

Analyzing Volatiles

Special Considerations for Volatile Analytes
Volatile Analytes, especially gases, can be troublesome to analyze. To provide the best possible standard we suggest the following procedures:
1. Keep the ampules cool (follow the storage conditions on the label).
2. Prior to use, invert the ampule several times to ensure the gases are in the solution, not in the headspace. Mixing too vigorously can cause the gases to be lost as well.
3. Use freshly opened ampules whenever possible.
4. When transferring, take care to avoid losses of the very volatile components. For example, holding the barrel of a syringe in your hand can warm it enough to lose some of the most volatile components.
5. If using the purge and trap (PT) system is giving questionable results, try a direct liquid injection. If the results are not as expected, there may be a problem with the PT apparatus.

Mixtures of Internal, Surrogate Standards & Fortification Solutions

Internal Standard

M-502-IS — **$ 20 / 1 x 1 mL**
M-502-IS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 1-Chloro-2-bromopropane
- Fluorobenzene

Internal Standard 2

M-502-IS-2 — **$ 30 / 1 x 1 mL**
M-502-IS-2-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

- 1-Chloro-2-bromopropane
- Fluorobenzene
- Methylene chloride-d_2

Internal Standard 3

M-502-IS-2-3 — **$ 20 / 1 x 1 mL**
2.0 mg/mL in MeOH

- Methylene chloride-d_2

Internal Standard

M-524-IS — **$ 20 / 1 x 1 mL**
M-524-IS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 1,2-Dichlorobenzene-d_4
- Fluorobenzene

Internal Standard 2

M-524-IS-2 — **$ 12 / 1 x 1 mL**
M-524-IS-2-PAK — ***SAVE 20%*** **$ 48 / 5 x 1 mL**
2.0 mg/mL in MeOH

- Fluorobenzene

Fortification Solution

M-524-FS — **$ 25 / 1 x 1 mL**
M-524-FS-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4
- Fluorobenzene

Surrogate Standard

M-524-SS — **$ 20 / 1 x 1 mL**
M-524-SS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4

Method 502.2 Internal and Surrogate Standards

With more proposed and promulgated methods available, analytical chemists are trying to combine analyte lists and shorten run-time while still demonstrating method equivalence. AccuStandard has formulated a core evaluation deuterated solution, and a second conventional internal/surrogate evaluation solution. Use of these formulations allows the analyst to quickly evaluate new ISTD/SS combinations for PID, Hall, FID or GC/MS applications.

Popular Internal Standards

M-502-IS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

1-Chloro-2-bromopropane
Fluorobenzene

M-524-IS-2 — **$ 12 / 1 x 1 mL**
2.0 mg/mL in MeOH

Fluorobenzene

M-524-IS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

1,2-Dichlorobenzene-d_4
Fluorobenzene

M-502-IS-2 — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

1-Chloro-2-bromopropane
Fluorobenzene
Methylene chloride-d_2

M-001R — **$ 15 / 1 x 1 mL**
20 mg/mL each in MeOH — 3 comps.

Bromochloromethane
1,4-Dichlorobutane
2-Bromo-1-chloropropane

M-8020-IS — **$ 25 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 2 comps.

4-Bromofluorobenzene
α,α,α-Trifluorotoluene

M-8240/60-IS — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 5 comps.

Bromochloromethane
Chlorobenzene-d_5
1,4-Dichlorobenzene-d_4
1,4-Difluorobenzene
Pentafluorobenzene

M-8260-IS-R — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.

2-Bromo-1-chloropropane
1,4-Difluorobenzene
1,4-Dichlorobenzene-d_4
Pentafluorobenzene

M-8260-IS — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.

Chlorobenzene-d_5
1,4-Difluorobenzene
1,4-Dichlorobenzene-d_4
Pentafluorobenzene

M-8260A/B-IS — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 3 comps.

Chlorobenzene-d_5
1,4-Dichlorobenzene-d_4
Fluorobenzene

ISTD/SS Evaluation Mixtures

Conventional ISTD/SS Evaluation MIxture

M-CONV-IS/SS — **$ 60 / 1 x 1 mL**
200 µg/mL each in MeOH — 15 comps.

2-Bromochlorobenzene
4-Bromochlorobenzene
Bromochloromethane
p-Bromofluorobenzene
2-Bromo-1-chloropropane
1-Chloro-2-fluorobenzene
1-Chloro-3-fluorobenzene
1-Chloro-4-fluorobenzene
2-Chloropropane
Dibromofluoromethane
1,4-Dichlorobutane
1,4-Difluorobenzene
Fluorobenzene
Pentafluorobenzene
α,α,α-Trifluorotoluene

Deuterated ISTD/SS Evaluation Mixture

M-DEUT-IS/SS — **$ 60 / 1 x 1 mL**
200 µg/mL each in MeOH — 8 comps.

Benzene-d_6
Chlorobenzene-d_5
1,2-Dichlorobenzene-d_4
1,4-Dichlorobenzene-d_4
1,2-Dichloroethane-d_4
Ethylbenzene-d_{10}
Methylene chloride-d_2
Toluene-d_8

Popular Surrogate Standards

M-502-IS-ASL — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

2-Bromo-1-chloropropane
1-Chloro-2-fluorobenzene

M-524-SS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

4-Bromofluorobenzene
1,2-Dichlorobenzene-d_4

M-624-SS-M — **$ 25 / 1 x 1 mL**
20 mg/mL each in MeOH — 3 comps.

4-Bromofluorobenzene
Fluorobenzene
Pentafluorobenzene

M-8020-SS — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

4-Bromochlorobenzene
1,4-Difluorobenzene
Fluorobenzene

M-8021-SS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

4-Bromochlorobenzene
1,4-Dichlorobutane

M-8021-SS-M — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

Bromochloromethane
1,4-Dichlorobutane

M-8021A-SS — **$ 20 / 1 x 1 mL**
20 mg/mL each in MeOH — 4 comps.

4-Bromochlorobenzene
Bromochloromethane
1,4-Dichlorobutane
2-Bromo-1-chloropropane

M-8240/60-SS — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.

p-Bromofluorobenzene
Dibromofluoromethane
1,2-Dichloroethane-d_4
Toluene-d_8

Popular ISTD/SS Standards

M-502-IS/SS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.

1-Chloro-3-fluorobenzene
2-Chloropropane
Fluorobenzene
α,α,α-Trifluorotoluene

M-502-IS-QC — **$ 20 / 1 x 1 mL**
1.0 mg/mL each in MeOH — 3 comps.

1-Chloro-2-bromopropane
1-Chloro-2-fluorobenzene
Fluorobenzene

M-524-FS — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

4-Bromofluorobenzene
1,2-Dichlorobenzene-d_4
Fluorobenzene

M-8010-IS/SS — **$ 25 / 1 x 1 mL**
150 µg/mL each in MeOH — 3 comps.

4-Bromochlorobenzene
Bromochloromethane
4-Bromofluorobenzene

M-8020-IS/SS-ASL — **$ 35 / 1 x 1 mL**
1.5 mg/mL each in MeOH — 5 comps.

4-Bromochlorobenzene
p-Bromofluorobenzene
1,4-Difluorobenzene
Fluorobenzene
α,α,α-Trifluorotoluene

M-8240/60-IS/SS — **$ 45 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 9 comps.

Bromochloromethane
p-Bromofluorobenzene
Chlorobenzene-d_5
Dibromofluoromethane
1,4-Dichlorobenzene-d_4
1,2-Dichloroethane-d_4
1,4-Difluorobenzene
Pentafluorobenzene
Toluene-d_8

M-8260A/B-IS/SS — **$ 40 / 1 x 1 mL**
200 µg/mL each in MeOH — 7 comps.

p-Bromofluorobenzene
Chlorobenzene-d_5
Dibromofluoromethane
1,4-Dichlorobenzene-d_4
1,2-Dichloroethane-d_4
Fluorobenzene
Toluene-d_8

EPA Method 500 Series

Method 503.1 Purgeable Aromatics & Alkenes

Purgeable Aromatics & Alkenes

M-503 **$ 40 / 1 x 1 mL**
M-503-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
0.2 mg/mL each in MeOH 28 comps.

Benzene	4-Isopropyltoluene
Bromobenzene	Naphthalene
n-Butylbenzene	*n*-Propylbenzene
sec-Butylbenzene	Styrene
tert-Butylbenzene	Tetrachloroethene
Chlorobenzene	Toluene
2-Chlorotoluene	1,2,3-Trichlorobenzene
4-Chlorotoluene	1,2,4-Trichlorobenzene
1,2-Dichlorobenzene	Trichloroethene
1,3-Dichlorobenzene	1,2,4-Trimethylbenzene
1,4-Dichlorobenzene	1,3,5-Trimethylbenzene
Ethylbenzene	*o*-Xylene
Hexachlorobutadiene	*m*-Xylene
Isopropylbenzene	*p*-Xylene

Internal Standard

M-602-SS **$ 20 / 1 x 1 mL**
M-602-SS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.2 mg/mL in MeOH

α,α,α-Trifluorotoluene

Method 504 EDB & DBCP by ECD

EDB & DBCP

M-504 **$ 15 / 1 x 1 mL**
M-504-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-504-10X **$ 15 / 1 x 1 mL**
M-504-10X-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
2.0 mg/mL each in MeOH 2 comps.

1,2-Dibromoethane *(EDB)* 1,2-Dibromo-3-chloropropane *(DBCP)*

Method 504.1 EDB, DBCP & TCP by ECD

Calibration Stock Solution

M-504.1-CSS **$ 15 / 1 x 1 mL**
M-504.1-CSS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.2 mg/mL each in MeOH 3 comps.

1,2-Dibromoethane *(EDB)*
1,2-Dibromo-3-chloropropane *(DBCP)*
1,2,3-Trichloropropane

Laboratory Fortified Blank Sample Concentrate

M-504.1-LFB **$ 15 / 1 x 1 mL**
M-504.1-LFB-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.25 µg/mL each in MeOH 3 comps.

1,2-Dibromoethane *(EDB)*
1,2-Dibromo-3-chloropropane *(DBCP)*
1,2,3-Trichloropropane

MDL Check Sample Concentrate

M-504.1-MDL **$ 15 / 1 x 1 mL**
M-504.1-MDL-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.02 µg/mL each in MeOH 3 comps.

1,2-Dibromoethane *(EDB)*
1,2-Dibromo-3-chloropropane *(DBCP)*
1,2,3-Trichloropropane

Method 504 Set

M-504.1-SET **$ 30 / 3 x 1 mL**
(M-504.1-CSS, M-504.1-LFB, M-504.1-MDL)

Method 505 Organohalide Pesticides by Microextraction & GC/ECD

M-505R-2 **$ 45 / 1 x 1 mL**
M-505R-2-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
At stated conc. in MeOH 16 comps.

Alachlor	(10 µg/mL)	Heptachlor epoxide	(1 µg/mL)
Aldrin	(1 µg/mL)	Hexachlorobenzene	(1 µg/mL)
Atrazine	(250 µg/mL)	Hexachlorocyclopentadiene	(1 µg/mL)
α-Chlordane	(1 µg/mL)	Lindane	(1 µg/mL)
γ-Chlordane	(1 µg/mL)	Methoxychlor	(5 µg/mL)
Dieldrin	(1 µg/mL)	*cis*-Nonachlor	(1 µg/mL)
Endrin	(1 µg/mL)	*trans*-Nonachlor	(1 µg/mL)
Heptachlor	(1 µg/mL)	Simazine	(250 µg/mL)

Multi-Component Analytes (Polychlorinated Biphenyls, Chlordane & Toxaphene)

Each at 1,000 µg/mL in Hexane **AccuPAK™** ***(5 x 1 mL)***
SAVE 20%

Aroclors #	Cat. No.	1 mL	Cat. No.	PAK
Aroclor 1016	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H-10X	20	C-268S-H-10X-PAK	80
Pesticides				
Chlordane	P-017S-H-10X	$ 15	P-017S-H-10X-PAK	$ 60
Toxaphene	P-093S-H-10X	15	P-093S-H-10X-PAK	60

Degradation Standard

P-045S **$ 22 / 1 x 1 mL**
100 µg/mL in MeOH

Endrin

Method 506 Phthalate Esters by PID

Phthalate Esters

M-506 **$ 25 / 1 x 1 mL**
M-506-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
1.0 mg/mL each in Isooctane 7 comps.

Benzyl butyl phthalate	bis(2-Ethylhexyl)adipate
Dimethyl phthalate	bis(2-Ethylhexyl)phthalate
Diethyl phthalate	Di-*n*-octyl phthalate
Di-*n*-butyl phthalate	

M-506-QC **$ 25 / 1 x 1 mL**
M-506-QC-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in MeOH 7 comps.

Benzyl butyl phthalate	(0.25 mg/mL)	bis(2-Ethyl hexyl)adipate	(1.2 mg/mL)
Dimethyl phthalate	(0.1 mg/mL)	bis(2-Ethylhexyl)phthalate	(0.25 mg/mL)
Diethyl phthalate	(0.1 mg/mL)	Di-*n*-octyl phthalate	(0.65 mg/mL)
Di-*n*-butyl phthalate	(0.1 mg/mL)		

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 507 Nitrogen & Phosphorus Containing Pesticides by GC/NPD

Method 507 Set
M-507-R-SET — **$ 325 / 8 x 1 mL (M-507A, M-507B,M-507C, M-507D,M-507E, M-507F-R2,M-507G, M-507H)**

Mix A
M-507A — **$ 30 / 1 x 1 mL**
M-507A-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
1.0 mg/mL each in MtBE — 6 comps.

- Ametryn
- Cycloate
- Disulfoton
- Fenamiphos
- Merphos
- Prometon

Mix B
M-507B — **$ 45 / 1 x 1 mL**
M-507B-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
1.0 mg/mL each in MtBE — 9 comps.

- Atrazine
- Diphenamid
- EPTC
- Ethoprop
- Mevinphos
- Prometryne
- Propazine
- Terbutryn
- Triadimefon

Mix C
M-507C — **$ 75 / 1 x 1 mL**
M-507C-PAK — ***SAVE 20%*** **$ 300 / 5 x 1 mL**
1.0 mg/mL each in MtBE — 9 comps.

- Butachlor
- Carboxin
- Diazinon
- Metolachlor
- Metribuzin
- MGK-264
- Norflurazon
- Terbufos
- Vernolate

Mix D
M-507D — **$ 80 / 1 x 1 mL**
M-507D-PAK — ***SAVE 20%*** **$ 320 / 5 x 1 mL**
1.0 mg/mL each in MtBE — 10 comps.

- Alachlor
- Atraton
- Bromacil
- Butylate
- Chlorpropham
- Hexazinone
- Molinate
- Pronamide
- Stirofos
- Tricyclazole

Mix E
M-507E — **$ 60 / 1 x 1 mL**
M-507E-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
1.0 mg/mL each in MtBE — 8 comps.

- Dichlorvos
- Fenarimol
- Fluridone
- Napropamide
- Pebulate *(Tillam)*
- Simetryn
- Tebuthiuron
- Terbacil

Mix F
M-507F-R2 — **$ 25 / 1 x 1 mL**
M-507F-R2-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
1.0 mg/mL each in Acetone — 2 comps.

- Methyl paraoxon
- Simazine

Mix G
M-507G — **$ 60 / 1 x 1 mL**
M-507G-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
1.0 mg/mL each in MtBE — 8 comps.

- Benefin
- Isopropalin
- Pendimethalin
- Oxadiazon
- Oxyfluorfen
- Propachlor
- Profluralin
- Trifluralin

Mix H
M-507H — **$ 15 / 1 x 1 mL**
M-507H-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL each in MtBE

- DEF (for Merphos quantitation)

Performance Check Solution
M-507-QC — **$ 30 / 1 x 1 mL**
M-507-QC-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in MtBE — 6 comps.

Atrazine	(150 ng/mL)	Prometon	(300 ng/mL)
DNB	(2500 ng/mL)	TPP	(2500 ng/mL)
Bromacil	(5000 ng/mL)	Vernolate	(50 ng/mL)

Internal Standard
M-507-IS — **$ 10 / 1 x 1 mL**
M-507-IS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.5 mg/mL in MtBE
M-507-IS-10X — **$ 20 / 1 x 1 mL**
5.0 mg/mL in MtBE

- Triphenyl phosphate

Surrogate Standard
M-507-SS — **$ 10 / 1 x 1 mL**
M-507-SS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.25 mg/mL in MtBE
M-507-SS-4X — **$ 20 / 1 x 1 mL**
1.0 mg/mL in MtBE

- 1,3-Dimethyl-2-nitrobenzene

Mix H
M-507H — **$ 15 / 1 x 1 mL**
M-507H-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL each in MtBE

- DEF (for Merphos quantitation)

Method 508 Chlorinated Pesticides by GC/ECD

Chlorinated Pesticides Mix A

M-508P-A **$ 55 / 1 x 1 mL**
M-508P-A-PAK *SAVE 20%* **$ 220 / 5 x 1 mL**
1.0 mg/mL each in MtBE 17 comps.

Aldrin	4,4'-DDE	Endrin
α-BHC	4,4'-DDT	Endrin aldehyde
β-BHC	Dieldrin	Heptachlor
δ-BHC	Endosulfan I	Heptachlor epoxide
γ-BHC	Endosulfan II	Methoxychlor
4,4'-DDD	Endosulfan sulfate	

Technical Note

Endrin & DDT can break down in the injection port at elevated temperatures. Breakdown can be monitored by running the Pesticide Degradation Standard (M-8081-DS). The problem can be alleviated by replacing the dirty injection port liner, or by using cool, on-column injection.

Internal Standard

M-508-IS **$ 10 / 1 x 1 mL**
M-508-IS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
0.1 mg/mL in MtBE
M-508-IS-10X **$ 20 / 1 x 1 mL**
1.0 mg/mL in MtBE

Pentachloronitrobenzene

Surrogate Standards

M-508-SS **$ 10 / 1 x 1 mL**
M-508-SS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
0.5 mg/mL in MtBE

4,4'-Dichlorobiphenyl

M-508-SS-2 **$ 10 / 1 x 1 mL**
M-508-SS-2-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
0.5 mg/mL in MtBE

Decachlorobiphenyl

Decomposition Solution

M-508-DS-100X **$ 15 / 1 x 1 mL**
M-508-DS-100X-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
At stated conc. in MtBE 2 comps.

p,p'-DDT	(200 µg/mL)	Endrin	(100 µg/mL)

Performance Check Solution

M-508-QC **$ 25 / 1 x 1 mL**
M-508-QC-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in MtBE 4 comps.

δ-BHC	(40 ng/mL)	Chlorpyrifos	(2 ng/mL)
Chlorothalonil	(50 ng/mL)	Dacthal	(50 ng/mL)

Chlorinated Pesticides Mix B

M-508P-B-R **$ 45 / 1 x 1 mL**
M-508P-B-R-PAK *SAVE 20%* **$ 180 / 5 x 1 mL**
1.0 mg/mL each in MtBE 13 comps.

α-Chlordane	Chlorpyrifos	*cis*-Permethrin (0.5 mg/mL)
γ-Chlordane	DCPA	*trans*-Permethrin (1.5 mg/mL)
Chlorobenzilate	Etridiazole	Propachlor
Chloroneb	Hexachlorobenzene	Trifluralin
Chlorothalonil		

Certificate will reflect actual cis/trans permethrin ratio

M-508P-B-R2 **$ 45 / 1 x 1 mL**
M-508P-B-R2-PAK *SAVE 20%* **$ 180 / 5 x 1 mL**
1.0 mg/mL each in MtBE 15 comps.

α-Chlordane	Chlorpyrifos	*cis*-Permethrin (0.5 mg/mL)
γ-Chlordane	DCPA	*trans*-Permethrin (1.5 mg/mL)
Chlorobenzilate	Etridiazole	Propachlor
Chloroneb	Hexachlorobenzene	Trifluralin
Chlorothalonil	Cyanazine	trans-Nonachlor

Certificate will reflect actual cis/trans permethrin ratio

Method 508A PCBs by Perchlorination / GC

Aroclor® Stock Solution

M-508A-1 **$ 15 / 1 x 1 mL**
M-508A-1-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
5.0 mg/mL in MeOH

Aroclor 1260

DCB Stock Solution

M-508A-2 **$ 15 / 1 x 1 mL**
M-508A-2-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
1.0 mg/mL in Toluene

Decachlorobiphenyl

Perchlorinated Aromatics

Neats	Cat. No.	Price / Unit
Decachlorobiphenyl	C-209N	$ 12 / 10 mg
Hexachlorobenzene	A-012	12 / 100 mg
Octachlorodibenzofuran	F-801N	30 / 50 mg
Octachlorodibenzo-*p*-dioxin	D-801N	80 / 50 mg

Solutions	35 µg/mL in Toluene	1 mL
Octachlorostyrene	PC-001S	$ 25
Perchlorinated p,p'-DDE	PC-002S	25
Tetradecachloro-*o*-terphenyl	T-004S	25
Tetradecachloro-*m*-terphenyl	T-005S	25
Tetradecachloro-*p*-terphenyl	T-006S	25
Aroclor 5442	T-442S	25

Method 508.1 Chlorinated Pesticides, Herbicides & Organo-Halides by Liquid - Solid Extraction & ECD

Chlorinated Pesticide Mix #1

M-508.1-X1 **$ 70 / 1 x 1 mL**
M-508.1-X1-PAK ***SAVE 20%*** **$ 280 / 5 x 1 mL**
500 µg/mL each in Ethyl acetate 19 comps.

- Aldrin
- α-BHC
- β-BHC
- δ-BHC
- γ-BHC
- α-Chlordane
- γ-Chlordane
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide (B)
- Methoxychlor

Chlorinated Pesticide Mix #2

M-508.1-X2 **$ 70 / 1 x 1 mL**
M-508.1-X2-PAK ***SAVE 20%*** **$ 280 / 5 x 1 mL**
500 µg/mL each in Ethyl acetate 17 comps.

- Alachlor
- Atrazine
- Chlorobenzilate
- Chloroneb
- Chlorothalonil
- Cyanazine
- DCPA
- Etridiazole
- Hexachlorobenzene
- Hexachlorocyclopentadiene
- Metrolachlor
- Metribuzin
- *cis*-Permethrin
- *trans*-Permethrin
- Propachlor
- Simazine
- Trifluralin

Certificate will reflect actual cis/trans permethrin ratio

Decomposition Solution

M-508.1-DS-100X **$ 15 / 1 x 1 mL**
M-508.1-DS-100X-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
100 µg/mL each in Ethyl acetate 2 comps.

- 4,4'-DDT
- Endrin

Internal Standard Solution

M-508.1-IS **$ 15 / 1 x 1 mL**
M-508.1-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
100 µg/mL each in Ethyl acetate

- Pentachloronitrobenzene

Surrogate Standard Solution

M-508.1-SS **$ 15 / 1 x 1 mL**
M-508.1-SS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
100 µg/mL each in Ethyl acetate

- 4,4'-Dibromobiphenyl

Performance Check Solution

M-508.1-QC **$ 25 / 1 x 1 mL**
M-508.1-QC-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in MtBE 4 comps.

δ-BHC	(400 ng/mL)	Chlorpyrifos	(20 ng/mL)
Chlorothalonil	(500 ng/mL)	DCPA	(500 ng/mL)

Method 509 Ethylene Thiourea by GC/NPD

Performance Check Solution

M-509-PC **$ 50 / 1 x 1 mL**
At stated conc. in Ethyl acetate containing 0.1% w/v DTT (scavenger) 3 comps.

Ethylene thiourea	(10 ng/mL)
4-Methylimidazolidine-2-thione	(100 ng/mL)
3,4,5,6-Tetrahydro-2-pyrimidinethiol	(1000 ng/mL)

Ethylene Thiourea Standard

M-509 **$ 15 / 1 x 1 mL**
0.1 mg/mL in Ethyl acetate containing 0.1% w/v DTT (scavenger)

- Ethylene thiourea

Internal Standard

M-509-IS **$ 15 / 1 x 1 mL**
0.1 mg/mL in Ethyl acetate containing 0.1% w/v DTT (scavenger)

- 3,4,5,6-Tetrahydro-2-pyrimidinethiol *(THP)*

Surrogate Standard

M-509-SS **$ 35 / 1 x 1 mL**
0.1 mg/mL in Ethyl acetate containing 0.1% w/v DTT (scavenger)

- 4-Methylimidazolidine-2-thione

Radical Scavenger Solution

M-509-RS-10ML **$ 25 / 1 x 10 mL**
1.0 mg/mL in Ethyl acetate

- Dithiothreitol *(DTT)*

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Just a click away



There is an **easier** way to get
Chemical Reference Standards

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EPA Method 500 Series

Method 515.1 Chlorinated Acids in Water by GC/ECD

Methyl Derivatives

M-515-R **$ 115 / 1 x 1 mL**
M-515-R-PAK *SAVE 20%* **$ 460 / 5 x 1 mL**
1.0 mg/mL each in MtBE as methyl derivatives 16 comps.

Acifluorfen, ME
Bentazon, ME
Chloramben, ME
2,4-D, ME
Dalapon, ME
2,4-DB, ME
DCPA, Di ME
Dicamba, ME
3,5-Dichlorobenzoic acid, ME
Dichlorprop, ME
Dinoseb, ME
4-Nitrophenol, ME
Pentachlorophenol, ME
Picloram, ME
2,4,5-T, ME
2,4,5-TP, ME

Underivatized Analytes

M-515A-R2 **$ 90 / 1 x 1 mL**
M-515A-R2-PAK *SAVE 20%* **$ 360 / 5 x 1 mL**
At stated conc. in MeOH 16 comps.

Acifluorfen	(100 µg/mL)	3,5-Dichlorobenzoic acid	(100 µg/mL)
Bentazon	(200 µg/mL)	Dichloroprop	(300 µg/mL)
Chloramben	(100 µg/mL)	Dinoseb	(200 µg/mL)
2,4-D	(200 µg/mL)	4-Nitrophenol	(100 µg/mL)
Dalapon	(1300 µg/mL)	Pentachlorophenol	(100 µg/mL)
2,4-DB	(800 µg/mL)	Picloram	(100 µg/mL)
DCPA acid	(100 µg/mL)	2,4,5-T	(100 µg/mL)
Dicamba	(100 µg/mL)	2,4,5-TP	(100 µg/mL)

Technical Note

If you require the complete absence of partial esterification, we recommend M-515.4A and M-515.3A products.

Performance Check Solution

M-515-QC **$ 20 / 1 x 1 mL**
M-515-QC-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in MtBE 3 comps.

3,5-Dichlorobenzoic acid methyl ester	(600 ng/mL)
Dinoseb methyl ether	(4 ng/mL)
4-Nitroanisole	(1600 ng/mL)

Performance Check Solution with ISTD & SS

M-515-QC-R **$ 30 / 1 x 1 mL**
M-515-QC-R-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
At stated conc. in MtBE 5 comps.

4,4'-Dibromooctafluorobiphenyl (ISTD)	(250 ng/mL)
3,5-Dichlorobenzoic acid methyl ester	(600 ng/mL)
2,4-Dichlorophenyl acetic acid methyl ester (SS)	(500 ng/mL)
Dinoseb methyl ether	(4 ng/mL)
4-Nitroanisole	(1600 ng/mL)

Internal Standard

M-515-IS **$ 20 / 1 x 1 mL**
M-515-IS-PAK *SAVE 20%* **$ 80 / 1 x 1 mL**
0.1 mg/mL in MtBE

4,4'-Dibromooctafluorobiphenyl

Surrogate Standards

M-515-SS **$ 10 / 1 x 1 mL**
M-515-SS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
0.1 mg/mL in MtBE
M-515-SS-50X **$ 30 / 5 x 1 mL**
5.0 mg/mL in MtBE

2,4-Dichlorophenylacetic acid methyl ester

P-244S **$ 12 / 1 x 1 mL**
0.1 mg/mL in MeOH

2,4-Dichlorophenylacetic acid

Method 515.2 Chlorinated Acids in Water by GC/ECD

Methyl Derivatives

M-515.2-1 **$ 75 / 1 x 1 mL**
M-515.2-1-PAK *SAVE 20%* **$ 300 / 5 x 1 mL**
At stated conc. in MeOH 6 comps.

DCPA, ME	(100 µg/mL)	Dinoseb, ME	(200 µg/mL)
3,5-Dichlorobenzoic acid, ME	(500 µg/mL)	Pentachlorophenol, ME	(100 µg/mL)
Dichlorprop, ME	(100 µg/mL)	2,4,5-T, ME	(100 µg/mL)

M-515.2-2 **$ 80 / 1 x 1 mL**
M-515.2-2-PAK *SAVE 20%* **$ 320 / 5 x 1 mL**
At stated conc. in MeOH 7 comps.

Acifluorfen, ME	(200 µg/mL)	Dicamba, ME	(300 µg/mL)
Bentazon, ME	(1000 µg/mL)	Picloram, ME	(300 µg/mL)
2,4-D, ME	(100 µg/mL)	2,4,5-TP, ME	(100 µg/mL)
2,4-DB, ME	(1000 µg/mL)		

Underivatized Analytes

M-515.2A-1 **$ 40 / 1 x 1 mL**
M-515.2A-1-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
At stated conc. in MeOH 6 comps.

DCPA acid	(100 µg/mL)	Dinoseb	(200 µg/mL)
3,5-Dichlorobenzoic acid	(500 µg/mL)	Pentachlorophenol	(100 µg/mL)
Dichlorprop	(100 µg/mL)	2,4,5-T	(100 µg/mL)

M-515.2A-2 **$ 45 / 1 x 1 mL**
M-515.2A-2-PAK *SAVE 20%* **$ 180 / 5 x 1 mL**
At stated conc. in MeOH 7 comps.

Acifluorfen	(200 µg/mL)	Dicamba	(300 µg/mL)
Bentazon	(1000 µg/mL)	Picloram	(300 µg/mL)
2,4-D	(100 µg/mL)	2,4,5-TP	(100 µg/mL)
2,4-DB	(1000 µg/mL)		

Method 515.1 & 515.2 Chlorinated Acids in Water by GC/ECD

Laboratory Performance Check Solution

M-8150/51-LPC-5ML **$ 20 / 1 x 5 mL**
At stated conc. in Isooctane 5 comps.

3,5-Dichlorobenzoic acid	(600 ng/mL)	DCAA	(500 ng/mL)
Dinoseb	(4 ng/mL)	DBOB	(250 ng/mL)
4-Nitrophenol	(1600 ng/mL)		

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 515.3 Chlorinated Acids in Drinking Water by ECD

Underivatized Acids

M-515.3A **$ 70 / 1 x 1 mL**
M-515.3A-PAK ***SAVE 20%*** **$ 280 / 5 x 1 mL**
At stated conc. in Acetone 17 comps.

Acifluorfen	(50 µg/mL)	3,5-Dichlorobenzoic acid	(50 µg/mL)
Bentazon	(100 µg/mL)	Dichlorprop	(100 µg/mL)
Chloramben	(50 µg/mL)	Dinoseb	(100 µg/mL)
2,4-D	(100 µg/mL)	4-Nitrophenol	(100 µg/mL)
Dalapon	(100 µg/mL)	Pentachlorophenol	(10 µg/mL)
2,4-DB	(100 µg/mL)	Picloram	(100 µg/mL)
DCPA Diacid	(50 µg/mL)	2,4,5-T	(25 µg/mL)
DCPA monoacid	(50 µg/mL)	Silvex	(25 µg/mL)
Dicamba	(50 µg/mL)		

Laboratory Performance Check Methyl Derivatives

M-515.3-LPC **$ 30 / 1 x 1 mL**
M-515.3-LPC-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in MtBE 4 comps.

2,4-DB methyl ester	(25 µg/mL)	Chloramben methyl ester	(12.5 µg/mL)
Dinoseb methyl ether	(25 µg/mL)	4-Nitroanisole	(25 µg/mL)

Independent Check Standard Methyl Derivatives

M-515.3-ICS **$ 105 / 1 x 1 mL**
M-515.3-ICS-PAK ***SAVE 20%*** **$ 420 / 5 x 1 mL**
At stated conc. in MtBE 16 comps.

Acifluorfen methyl ester	(50 µg/mL)	Methyl-3,5-Dichlorobenzoate	(50 µg/mL)
Bentazon methyl	(100 µg/mL)	Dichlorprop methyl ester	(100 µg/mL)
Chloramben methyl ester	(50 µg/mL)	Dinoseb methyl ether	(100 µg/mL)
2,4-D methyl ester	(100 µg/mL)	4-Nitroanisole	(100 µg/mL)
Dalapon methyl ester	(100 µg/mL)	Pentachloroanisole	(10 µg/mL)
2,4-DB methyl ester	(100 µg/mL)	Picloram methyl ester	(100 µg/mL)
Dacthal	(100 µg/mL)	2,4,5-T methyl ester	(25 µg/mL)
Dicamba methyl ester	(50 µg/mL)	Silvex methyl ester	(25 µg/mL)

Internal Standard

M-515-IS **$ 20 / 1 x 1 mL**
M-515-IS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.1 mg/mL in MtBE

4,4'-Dibromooctafluorobiphenyl

Method 515.4 Chlorinated Acids in Drinking Water by ECD

Underivatized Acids

M-515.4A **$ 70 / 1 x 1 mL**
M-515.4A-PAK ***SAVE 20%*** **$ 280 / 5 x 1 mL**
At stated conc. in Acetone 17 comps.

Acifluorfen	(50 µg/mL)	3,5-Dichlorobenzoic acid	(50 µg/mL)
Bentazon	(100 µg/mL)	Dichlorprop	(100 µg/mL)
Chloramben	(50 µg/mL)	Dinoseb	(100 µg/mL)
2,4-D	(100 µg/mL)	Pentachlorophenol	(10 µg/mL)
Dalapon	(100 µg/mL)	Picloram	(50 µg/mL)
2,4-DB	(100 µg/mL)	2,4,5-T	(25 µg/mL)
DCPA Diacid	(50 µg/mL)	Silvex	(25 µg/mL)
DCPA monoacid	(50 µg/mL)	Quinclorac	(50 µg/mL)
Dicamba	(50 µg/mL)		

Underivatized Surrogate

M-8150B-SS **$ 10 / 1 x 1 mL**
M-8150B-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.1 mg/mL in Acetone

2,4-Dichlorophenylacetic acid

Quality Control Sample Methyl Derivatives

M-515.4-QCS **$ 125 / 1 x 1 mL**
M-515.4-QCS-PAK ***SAVE 20%*** **$ 500 / 5 x 1 mL**
At stated conc. in MtBE 16 comps.

Acifluorfen methyl ester	(50 µg/mL)	Methyl-3,5-Dichlorobenzoate	(50 µg/mL)
Bentazon methyl	(100 µg/mL)	Dichlorprop methyl ester	(100 µg/mL)
Chloramben methyl ester	(50 µg/mL)	Dinoseb methyl ether	(100 µg/mL)
2,4-D methyl ester	(100 µg/mL)	Pentachloroanisole	(10 µg/mL)
Dalapon methyl ester	(100 µg/mL)	Picloram methyl ester	(50 µg/mL)
2,4-DB methyl ester	(100 µg/mL)	2,4,5-T methyl ester	(25 µg/mL)
Dacthal	(100 µg/mL)	Silvex methyl ester	(25 µg/mL)
Dicamba methyl ester	(50 µg/mL)	Quinclorac methyl ester	(50 µg/mL)

Technical Note

M-515.3A and M-515.4A are to be used as procedural standards for the calibration of the method. These standards should be carried through the entire extraction and derivatization procedure associated with the samples.

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



EPA Method 500 Series

Method 521 Nitrosamines by SPE & Capillary Column GC

Analyte Stock Solution

M-521 — **$ 50 / 1 x 1 mL**
200 µg/mL each in CH_2Cl_2 — 7 comps.

- N-Nitrosodimethylamine
- N-Nitrosomethylethylamine
- N-Nitrosodiethylamine
- N-Nitrosodi-n-propylamine
- N-Nitrosodi-n-butylamine
- N-Nitrosopyrrolidine
- N-Nitrosopiperidine

Internal Standard Stock Solution

M-521-IS — **$ 50 / 1 x 1 mL**
M-521-IS-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

- N-Nitrosodi-n-propylamine-d_{14}

Surrogate Standard Stock Solution

M-521-SS — **$ 35 / 1 x 1 mL**
M-521-SS-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

- N-Nitrosodimethylamine-d_6

Adehydes and Ketones in Alcohol Solvents

Standards containing aldehydes and ketones in methanol are given shorter expiration periods because of their ability to form acetals and ketals. AccuStandard adds stabilizers to inhibit this reaction. To enhance stability, freezer storage is required.

Method 524.2 Volatile Organic Compounds by GC/MS

See M-502.2 VOCs by PID/ELCD
54 Liquid & 6 Gaseous Compounds

Addition to Method 524.2 (Revision 4.0 August 1992)

M-524R-B ❄ — **$ 55 / 1 x 1 mL**
M-524R-B-PAK ❄ — ***SAVE 20%*** **$ 220 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 24 comps.

- Acetone
- Acrylonitrile
- Allyl chloride
- 2-Butanone
- Carbon disulfide
- Chloroacetonitrile
- 1-Chlorobutane
- *trans*-1,4-Dichloro-2-butene
- 1,1-Dichloropropanone
- Diethyl ether
- Ethyl methacrylate
- Hexachloroethane
- 2-Hexanone
- Methacrylonitrile
- Methylacrylate
- Methyl iodide
- Methylmethacrylate
- 4-Methyl-2-pentanone
- Methyl-*t*-butyl ether
- Nitrobenzene
- 2-Nitropropane
- Pentachloroethane
- Propionitrile
- Tetrahydrofuran

Mixtures of Internal, Surrogate Standards & Fortification Solutions

Internal Standards

M-502-IS — **$ 20 / 1 x 1 mL**
M-502-IS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 1-Chloro-2-bromopropane
- Fluorobenzene

M-502-IS-2 — **$ 30 / 1 x 1 mL**
M-502-IS-2-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

- 1-Chloro-2-bromopropane
- Fluorobenzene
- Methylene chloride-d_2

M-524-IS — **$ 20 / 1 x 1 mL**
M-524-IS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 1,2-Dichlorobenzene-d_4
- Fluorobenzene

Method 524.2 VOCs by GC/MS (Continued)

M-524-IS-2 — **$ 12 / 1 x 1 mL**
M-524-IS-2-PAK — ***SAVE 20%*** **$ 48 / 5 x 1 mL**
2.0 mg/mL in MeOH
M-524-IS-2-10X — **$ 20 / 5 x 1 mL**
20 mg/mL in MeOH

- Fluorobenzene

Fortification Standard

M-524-FS — **$ 25 / 1 x 1 mL**
M-524-FS-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4
- Fluorobenzene

Surrogate Standard

M-524-SS — **$ 20 / 1 x 1 mL**
M-524-SS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4

GC/MS Tuning Solution

M-624-SS-03-10X — **$ 10 / 1 x 1 mL**
2.0 mg/mL each in MeOH

- *p*-Bromofluorobenzene

Method 524.3 Purgeable Organic Compounds by GC/MS

See M-502.2 VOCs by PID/ELCD
54 Liquid & 6 Gaseous Compounds

NEW

M-524R-C — **$ 85 / 1 x 1 mL**
M-524R-C-PAK — ***SAVE 20%*** **$ 340 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 18 comps.

- 1,3-Butadiene
- 1-Chlorobutane
- Allyl chloride
- Carbon disulfide
- Chlorodifluoromethane
- Diethyl ether
- Diisopropyl ether
- Ethyl methacrylate
- Hexachloroethane
- Methyl acetate
- Methyl iodide
- Methyl-t-butyl ether
- Pentachloroethane
- t-Amyl ethyl ether
- t-Amyl methyl ether
- t-Butyl alcohol
- t-Butyl ethyl ether
- Tetrahydrofuran

Internal Standard

M-524R-C-IS — **$ 40 / 1 x 1 mL**
M-524R-C-IS-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

- 1,4-Difluorobenzene
- Chlorobenzene-d_5
- 1,4-Dichlorobenzene-d_4

Internal and Surrogate Standard

M-524R-C-IS/SS — **$40 /1 x 1 mL**
M-524R-C-IS/SS-PAK — ***SAVE 20%*** **$160 /5 x 1 mL**
2.0 mg/mL each in MeOH — 6 comps.

- 1,4-Difluorobenzene
- Chlorobenzene-d_5
- 1,4-Dichlorobenzene-d_4
- tert-Butyl methyl ether-d_3
- p-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4

Surrogate Standard

M-524R-C-SS — **$ 50 / 1 x 1 mL**
M-524R-C-SS-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

- tert-Butyl methyl ether-d_3
- 1,2-Dichlorobenzene-d_4
- *p*-Bromofluorobenzene

❄ A ColdPAK is required.

Method 525.1 Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

PAH Mixtures

M-525-1 — **$ 30 / 1 x 1 mL**
M-525-1-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
0.1 mg/mL each in Acetone — 13 comps.
M-525-1-5X — **$ 30 / 1 x 1 mL**
M-525-1-5X-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 13 comps.

- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[a]pyrene
- Benzo[g,h,i]perylene
- Chrysene
- Dibenz[a,h]anthracene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Phenanthrene
- Pyrene

PCB Congener Mixtures

M-525-2 — **$ 35 / 1 x 1 mL**
M-525-2-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
0.1 mg/mL each in Acetone — 8 comps.
M-525-2-5X — **$ 50 / 1 x 1 mL**
M-525-2-5X-PAK — *SAVE 20%* **$ 200 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 8 comps.

- 2-Chlorobiphenyl (#1)
- 2,3-Dichlorobiphenyl (#5)
- 2,2',3,3',4,4',6-Heptachlorobiphenyl (#171)
- 2,2',4,4',5,6'-Hexachlorobiphenyl (#154)
- 2,2',3,3',4,5',6,6'-Octachlorobiphenyl (#200)
- 2,2',3',4,6-Pentachlorobiphenyl (#98)
- 2,2',4,4'-Tetrachlorobiphenyl (#47)
- 2,4,5-Trichlorobiphenyl (#29)

Pesticide Mixtures

M-525-3 — **$ 75 / 1 x 1 mL**
M-525-3-PAK — *SAVE 20%* **$ 300 / 5 x 1 mL**
0.1 mg/mL each in Acetone
M-525-3-5X — **$ 95 / 1 x 1 mL**
M-525-3-5X-PAK — *SAVE 20%* **$ 380 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 12 comps.

- Alachlor
- Aldrin
- Atrazine
- α-Chlordane
- γ-Chlordane
- Endrin
- Heptachlor
- Heptachlor epoxide
- Lindane
- Methoxychlor
- Simazine
- *trans*-Nonachlor

Semi-Volatile Mixtures

M-525-4 — **$ 25 / 1 x 1 mL**
M-525-4-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
0.1 mg/mL in Acetone (PCP 0.4 mg/mL)
M-525-4-5X — **$ 25 / 1 x 1 mL**
M-525-4-5X-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
0.5 mg/mL in Acetone (PCP 2.0 mg/mL) — 9 comps.

- Butylbenzylphthalate
- di-*n*-Butylphthalate
- Diethylphthalate
- bis(2-Ethylhexyl)adipate
- Dimethylphthalate
- Hexachlorobenzene
- Hexachlorocyclopentadiene
- bis(2-Ethylhexyl)phthalate
- Pentachlorophenol *(PCP)*

Multi-Component / Analyte

M-525-5 — **$ 20 / 1 x 1 mL**
M-525-5-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
2.5 mg/mL in Acetone

- Toxaphene

Internal Standard

M-525-IS — **$ 50 / 1 x 1 mL**
M-525-IS-PAK — *SAVE 20%* **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 4 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Perylene-d_{12}
- Phenanthrene-d_{10}

Fortification Standards

M-525-FS-1 — **$ 50 / 1 x 1 mL**
M-525-FS-1-PAK — *SAVE 20%* **$ 200 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 4 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Perylene-d_{12}
- Phenanthrene-d_{10}

M-525-FS-2 — **$ 20 / 1 x 1 mL**
M-525-FS-2-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
0.5 mg/mL in CH_2Cl_2

- *p*-Terphenyl-d_{14}

Tuning Standards

CLP-TS — **$ 20 / 1 x 1 mL**
CLP-TS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
50 µg/mL in CH_2Cl_2

- Perfluorokerosene

M-525-TS — **$ 20 / 1 x 1 mL**
M-525-TS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
0.1 mg/mL in CH_2Cl_2

- DFTPP

Surrogate Standard

M-525-SS — **$ 30 / 1 x 1 mL**
M-525-SS-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
0.5 mg/mL in Acetone

- Pyrene-d_{10}

Buy the Complete Set and Save

Method 525 Organic Compounds in Drinking Water Sets

M-525-R-SET	**$ 150 / 5 x 1 mL (M-525-1, M-525-2, M-525-3, M-525-4, M-525-5)**
M-525-R-5X-SET	**$ 170 / 5 x 1 mL (M-525-1-5X, M-525-2-5X, M-525-3-5X, M-525-4-5X, M-525-5)**
M-525-SET	**$ 200 / 7 x 1 mL (M-525-1-5X, M-525-2-5X, M-525-3-5X, M-525-4-5X, M-525-5, M-525-IS, M-525-TS)**

Method 525.2 (Revision 1.0) Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

All 112 analytes (excluding Disulfoton sulfoxide and Disulfoton sulfone which can be found in the Pesticide section) listed in this revision can be found in the mixes below. We realize that many labs will not be analyzing for all of these analytes at one time since it is not practical or necessary in many instances. If all the analytes must be determined, the following multiple calibration mixes are offered to accomplish this task. Several of these mixes are from our current product line and are grouped as nitrogen/phosphorus pesticides, organochlorine pesticides, semi-volatiles, polyaromatics, PCB congeners, and individual multi-component solutions for the Aroclors and Toxaphene. These solutions can be purchased individually or as a complete set for your laboratory's particular needs. Additionally, the required surrogate, internal, and tuning standards are offered below.

Nitrogen/Phosphorus Pesticides

M-507A — **$ 30 / 1 x 1 mL**
1.0 mg/mL each in MtBE — 6 comps.

- Ametryn
- Cycloate
- Disulfoton
- Fenamiphos
- Merphos
- Prometon

M-507B — **$ 45 / 1 x 1 mL**
1.0 mg/mL each in MtBE — 9 comps.

- Atrazine
- Diphenamid
- EPTC
- Ethoprop
- Mevinphos
- Prometryne
- Propazine
- Terbutryn
- Triadimefon

M-507C — **$ 75 / 1 x 1 mL**
1.0 mg/mL each in MtBE — 9 comps.

- Butachlor
- Carboxin
- Diazinon
- Metolachlor
- Metribuzin
- MGK-264
- Norflurazon
- Terbufos
- Vernolate

M-507D — **$ 80 / 1 x 1 mL**
1.0 mg/mL each in MtBE — 10 comps.

- Alachlor
- Atraton
- Bromacil
- Butylate
- Chlorpropham
- Hexazinone
- Molinate
- Pronamide
- Stirofos
- Tricyclazole

M-507E — **$ 60 / 1 x 1 mL**
1.0 mg/mL each in MtBE — 8 comps.

- Dichlorvos
- Fenarimol
- Fluridone
- Napropamide
- Pebulate *(Tillam)*
- Simetryn
- Tebuthiuron
- Terbacil

M-507F-R2 — **$ 25 / 1 x 1 mL**
1.0 mg/mL each in Acetone — 2 comps.

- Methyl paraoxon
- Simazine

Auxiliary Standards

Internal Standard

M-525.2-IS — **$ 40 / 1 x 1 mL**
M-525.2-IS-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 3 comps.

- Acenapthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}

Surrogate Standard

M-525.2-SS — **$ 30 / 1 x 1 mL**
M-525.2-SS-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 3 comps.

- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Triphenylphosphate

Internal/Surrogate Standard

M-525.2-IS/SS — **$ 50 / 1 x 1 mL**
M-525.2-IS/SS-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 6 comps.

- Acenapthene-d_{10}
- Chrysene-d_{12}
- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Phenanthrene-d_{10}
- Triphenylphosphate

Tuning Standard

M-525.2-TS — **$ 30 / 1 x 1 mL**
0.5 mg/mL each in CH_2Cl_2 — 3 comps.

- 4,4'-DDT
- DFTPP
- Endrin

Technical Note

Endrin & DDT can break down in the injection port at elevated temperatures. Breakdown can be monitored by running the Pesticide Degradation standard (M-8081-DS). The problem can be alleviated by replacing the dirty injection port liner, or by using cool, on-column injection.

Multi-Component Technical Solutions

Toxaphene

M-525-5 — **$ 20 / 1 x 1 mL**
2.5 mg/mL in Acetone

Aroclor® 1016

C-216S-M-28.5X — **$ 15 / 1 x 1 mL**
1.0 mg/mL in MeOH

Aroclor 1254

C-254S-M-28.5X — **$ 15 / 1 x 1 mL**
1.0 mg/mL in MeOH

Aroclor 1260

C-260S-M-28.5X — **$ 15 / 1 x 1 mL**
1.0 mg/mL in MeOH

Complete Method 525.2 Set

M-525.2-SET ❄ — **$ 650 / 18 x 1 mL**

M-507A	M-507D	M-508P-A	M-525-2-5X	M-525.2-IS	C-216S-M-28.5X
M-507B	M-507E	M-508P-B-R2	M-525-4R-5X	M-525.2-SS	C-254S-M-28.5X
M-507C	M-507F-R2	M-525-1-5X	M-525-5	M-525.2-TS	C-260S-M-28.5X

❄ A ColdPAK is required.

Method 525.2 (Continued) Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

Chlorinated Pesticides

Mix A

M-508P-A **$ 55 / 1 x 1 mL**
M-508P-A-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
1.0 mg/mL each in MtBE 17 comps.

- Aldrin
- α-BHC
- β-BHC
- δ-BHC
- γ-BHC
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide
- Methoxychlor

Mix B

M-508P-B-R2 **$ 45 / 1 x 1 mL**
M-508P-B-R2-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
1.0 mg/mL each in MtBE 15 comps.

- α-Chlordane
- γ-Chlordane
- Chlorobenzilate
- Chloroneb
- Chlorothalonil
- Chlorpyrifos
- Cyanazine
- DCPA
- Etridiazole
- Hexachlorobenzene
- *trans*-Nonachlor
- *cis*-Permethrin (0.5 mg/mL)
- *trans*-Permethrin (1.5 mg/mL)
- Propachlor
- Trifluralin

Certificate will reflect actual cis/trans permethrin ratio

Semi-Volatile Analytes

PAH Mixtures

M-525-1-5X **$ 30 / 1 x 1 mL**
0.5 mg/mL each in Acetone 13 comps.

- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[a]pyrene
- Benzo[g,h,i]perylene
- Chrysene
- Dibenz[a,h]anthracene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Phenanthrene
- Pyrene

PCB Congener Mixtures

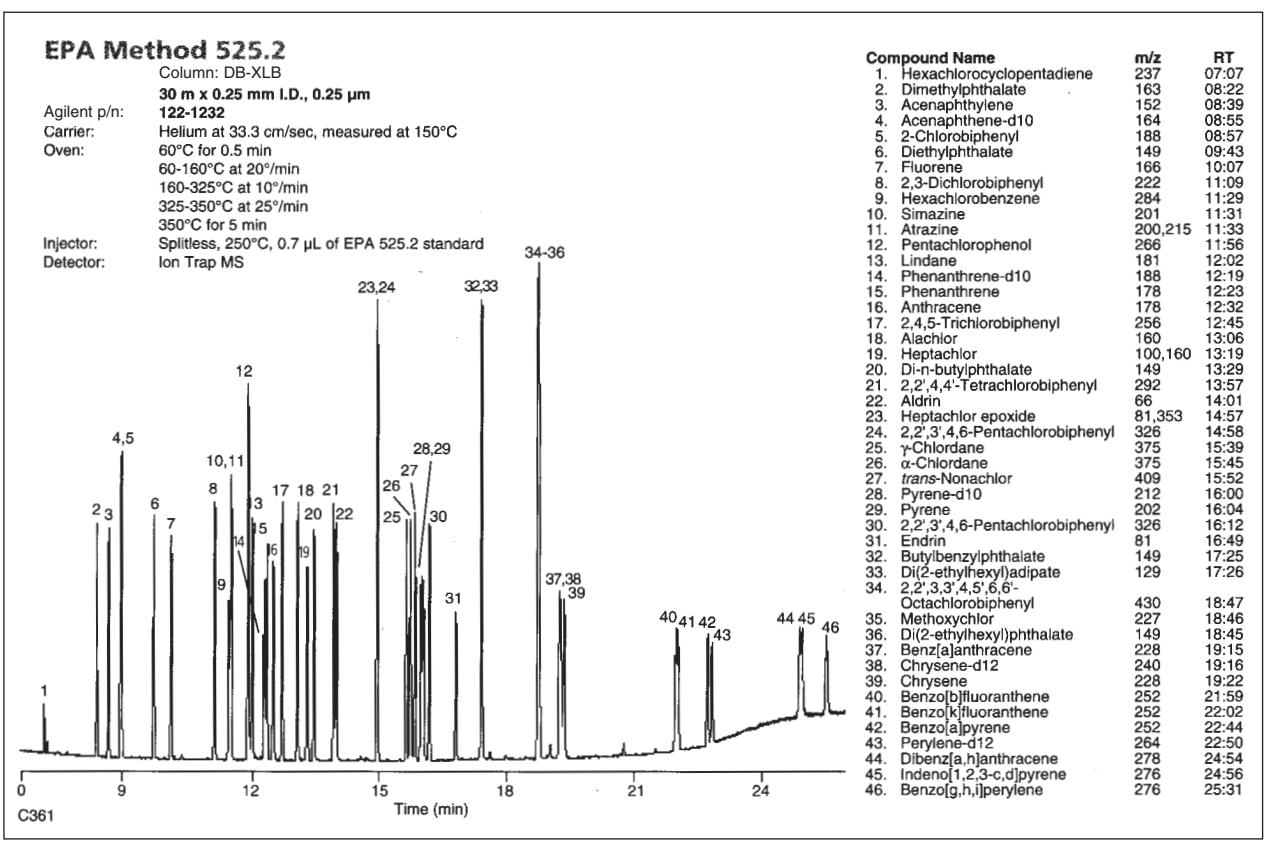
M-525-2-5X **$ 50 / 1 x 1 mL**
0.5 mg/mL each in Acetone 8 comps.

- 2-Chlorobiphenyl
- 2,3-Dichlorobiphenyl
- 2,2',3,3',4,4',6-Heptachlorobiphenyl
- 2,2',4,4',5,6'-Hexachlorobiphenyl
- 2,2',3,3',4,5',6,6'-Octachlorobiphenyl
- 2,2',3',4,6-Pentachlorobiphenyl
- 2,2',4,4'-Tetrachlorobiphenyl
- 2,4,5-Trichlorobiphenyl

Semi-Volatile Mixtures

M-525-4-R-5X **$ 30 / 1 x 1 mL**
0.5 mg/mL each in Acetone 11 comps.

- Butylbenzylphthalate
- di-*n*-Butylphthalate
- Diethylphthalate
- bis(2-Ethylhexyl)adipate
- Dimethylphthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Hexachlorocyclopentadiene
- bis(2-Ethylhexyl)phthalate
- Isophorone
- Pentachlorophenol *(2.0 mg/mL)*



	Compound Name	m/z	RT
1.	Hexachlorocyclopentadiene	237	07:07
2.	Dimethylphthalate	163	08:22
3.	Acenaphthylene	152	08:39
4.	Acenaphthene-d10	164	08:55
5.	2-Chlorobiphenyl	188	08:57
6.	Diethylphthalate	149	09:43
7.	Fluorene	166	10:07
8.	2,3-Dichlorobiphenyl	222	11:09
9.	Hexachlorobenzene	284	11:29
10.	Simazine	201	11:31
11.	Atrazine	200,215	11:33
12.	Pentachlorophenol	266	11:56
13.	Lindane	181	12:02
14.	Phenanthrene-d10	188	12:19
15.	Phenanthrene	178	12:23
16.	Anthracene	178	12:32
17.	2,4,5-Trichlorobiphenyl	256	12:45
18.	Alachlor	160	13:06
19.	Heptachlor	100,160	13:19
20.	Di-n-butylphthalate	149	13:29
21.	2,2',4,4'-Tetrachlorobiphenyl	292	13:57
22.	Aldrin	66	14:01
23.	Heptachlor epoxide	81,353	14:57
24.	2,2',3',4,6-Pentachlorobiphenyl	326	14:58
25.	γ-Chlordane	375	15:39
26.	α-Chlordane	375	15:45
27.	*trans*-Nonachlor	409	15:52
28.	Pyrene-d10	212	16:00
29.	Pyrene	202	16:04
30.	2,2',3',4,6-Pentachlorobiphenyl	326	16:12
31.	Endrin	81	16:49
32.	Butylbenzylphthalate	149	17:25
33.	Di(2-ethylhexyl)adipate	129	17:26
34.	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	430	18:47
35.	Methoxychlor	227	18:46
36.	Di(2-ethylhexyl)phthalate	149	18:45
37.	Benz[a]anthracene	228	19:15
38.	Chrysene-d12	240	19:16
39.	Chrysene	228	19:22
40.	Benzo[b]fluoranthene	252	21:59
41.	Benzo[k]fluoranthene	252	22:02
42.	Benzo[a]pyrene	252	22:44
43.	Perylene-d12	264	22:50
44.	Dibenz[a,h]anthracene	278	24:54
45.	Indeno[1,2,3-c,d]pyrene	276	24:56
46.	Benzo[g,h,i]perylene	276	25:31

Method 525.2 (Continued) Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary GC/MS

These solutions are to be used individually or combined for calibration curve development. The Nitrogen Phosphorous Pesticides typically analyzed by NPD were combined into convenient solutions for possible use in other EPA methods such as 507. The Chlorinated Pesticides typically analyzed by ECD were combined into a convenient solution for use in this method or additional methods such as 505 or 508.1.

Nitrogen / Phosphorus Pesticide Mixture

M-525.2-NP1-ASL — **$ 170 / 1 x 1 mL**
M-525.2-NP1-ASL-PAK — *SAVE 20%* **$ 680 / 5 x 1 mL**
100 µg/mL each in Acetone — 41 comps.

Alternate Source

Alachlor	Ethoprop	Prometryne
Ametryn	Fenarimol	Pronamide
Atraton	Fluridone	Propachlor
Atrazine	Hexazinone	Propazine
Bromacil	Methyl paraoxon	Simetryn
Butachlor	Metolachlor	Tetrachlorvinphos
Butylate	Metribuzin	Tebuthiuron
Chlorpropham	Mevinphos	Terbacil
Dursban	MGK-264	Prebane
Cycloate	Molinate	Triadimefon
Cyanazine	Napropamide	Tricyclazole
Dichlorvos	Norflurazon	Trifluralin
Diphenamid	Pebulate	Vernolate
EPTC	Prometon	

Nitrogen / Phosphorus Pesticide Mix Revision

M-525.2-NP1-ASL-R1 — **$ 170 / 1 x 1 mL**
100 µg/mL each in Acetone — 40 comps.

NEW

Alachlor	Ethoprop	Prometryne
Ametryn	Fenarimol	Pronamide
Atraton	Fluridone	Propachlor
Atrazine	Hexazinone	Propazine
Bromacil	Methyl paraoxon	Simetryn
Butachlor	Metolachlor	Tetrachlorvinphos
Butylate	Mevinphos	Tebuthiuron
Chlorpropham	MGK-264	Terbacil
Dursban	Molinate	Prebane
Cycloate	Napropamide	Triadimefon
Cyanazine	Norflurazon	Tricyclazole
Dichlorvos	Pebulate	Trifluralin
Diphenamid	Prometon	Vernolate
EPTC		

Nitrogen / Phosphorus Pesticide Mixture

M-525.2-NP2-ASL — **$ 60 / 1 x 1 mL**
M-525.2-NP2-ASL-PAK — *SAVE 20%* **$ 240 / 5 x 1 mL**
100 µg/mL each in Acetone — 6 comps.

Alternate Source

Carboxin	Fenamiphos
Diazinon	Merphos
Disulfoton	Terbufos

Organochlorine Pesticides

M-525.2-CP-ASL — **$ 110 / 1 x 1 mL**
M-525.2-CP-ASL-PAK — *SAVE 20%* **$ 440 / 5 x 1 mL**
100 µg/mL each in Acetone — 30 comps.

Alternate Source

Alachlor	Dacthal	Etridiazole
Aldrin	p,p'-DDD	α-Chlordane
Atrazine	p,p'-DDE	γ-Chlordane
α-BHC	p,p'-DDT	Heptachlor
β-BHC	Dieldrin	Heptachlor epoxide (Isomer B)
δ-BHC	Endosulfan I	Methoxychlor
γ-BHC	Endosulfan II	*cis*-Permethrin
Chlorobenzilate	Endosulfan sulfate	*trans*-Permethrin
Chlorothalonil	Endrin	Simazine
Chloroneb	Endrin aldehyde	*trans*-Nonachlor

Alternate Source

Improves Analytical Results, while Saving Time and Money
The Alternate Source Line (ASL) is AccuStandard products that exactly matches another vendor's products. These ASL products can be used as independent standards for your primary supplier.

For additional Cross-referencing, visit our Website

Semi-Volatiles Mixture

M-525.2-SV-ASL — **$ 55 / 1 x 1 mL**
M-525.2-SV-ASL-PAK — *SAVE 20%* **$ 220 / 5 x 1 mL**
100 µg/mL each in Acetone — 33 comps.

Alternate Source

Acenaphthylene	2,4-Dinitrotoluene
Anthracene	2,6-Dinitrotoluene
Benz[a]anthracene	Fluorene
Benzo[b]fluoranthene	Hexachlorobenzene
Benzo[k]fluoranthene	2,2',4,4',5,6'-Hexachlorobiphenyl
Benzo[g,h,i]perylene	2,2',3,3',4,4',6-Heptachlorobiphenyl
Benzo[a]pyrene	Hexachlorocyclopentadiene
Benzyl butyl phthalate	Indeno[1,2,3-cd]pyrene
2-Chlorobiphenyl	Isophorone
Chrysene	2,2',3,3',4,5',6,6'-Octachlorobiphenyl
Dibenz[a,h]anthracene	2,2',3',4,6-Pentachlorobiphenyl
2,3-Dichlorobiphenyl	Pentachlorophenol (400 µg/mL)
bis(2-Ethylhexyl)adipate	Phenanthrene
bis(2-Ethylhexyl)phthalate	Pyrene
Diethyl phthalate	2,2',4,4'-Tetrachlorobiphenyl
Dimethyl phthalate	2,4,5-Trichlorobiphenyl
Dibutyl phthalate	

Regulated Semi-Volatiles Mixture

M-525-REG-ASL — **$ 35 / 1 x 1 mL**
M-525-REG-ASL-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 6 comps.

Alternate Source

Benzo[a]pyrene	Hexachlorobenzene
bis(2-Ethylhexyl)adipate	Hexachlorocyclopentadiene
bis(2-Ethylhexyl)phthalate	Pentachlorophenol (2.0 mg/mL)

ISTD/SS Fortification Solution

M-525.2-FS-ASL — **$ 69 / 1 x 1 mL**
M-525.2-FS-ASL-PAK — *SAVE 20%* **$ 276 / 5 x 1 mL**
500 µg/mL each in Acetone — 7 comps.

Alternate Source

Acenaphthene-d_{10}	Phenanthrene-d_{10}
Chrysene-d_{12}	Pyrene-d_{10}
1,3-Dimethyl-2-nitrobenzene	Triphenylphosphate
Perylene-d_{12}	

Surrogate Standard

M-525.2-SS2-ASL — **$ 35 / 1 x 1 mL**
M-525.2-SS2-ASL-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
500 µg/mL each in Acetone — 4 comps.

Alternate Source

1,3-Dimethyl-2-nitrobenzene	Pyrene-d_{10}
Perylene-d_{12}	Triphenylphosphate

Regulated Semi-Volatiles Mixture

M-525-REG-EA — **$ 125 / 1 x 1 mL**
100 µg/mL each in Ethyl acetate — 25 comps.
M-525-REG-EA-5X — **$ 150 / 1 x 1 mL**
500 µg/mL each in Ethyl acetate — 25 comps.

Alachlor	Endrin
Aldrin	Heptachlor
Atrazine	Heptachlor epoxide (isomer B)
Benzo(a)pyrene	Hexachlorobenzene
Butachlor	Hexachlorocyclopentadiene
α-Chlordane	Lindane
γ-Chlordane	Methoxychlor
Cyanazine	Metolachlor
Dieldrin	Metribuzin
2,4-Dinitrotoluene	trans-Nonachlor
2,6-Dinitrotoluene	Propachlor
bis(2-Ethylhexyl)adipate	Simazine
bis(2-Ethylhexyl)phthalate	

Method 526 Semi-Volatiles by GC/MS

Primary Dilution Standard

M-526-0.2X-EA — **$ 40 / 1 x 1 mL**
M-526-0.2X-EA-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
200 µg/mL each in Ethyl acetate — 11 comps.
M-526 — **$ 50 / 1 x 1 mL**
M-526-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
1000 µg/mL each in Acetone — 11 comps.

- Acetochlor
- Cyanazine
- Diazinon
- 2,4-Dichlorophenol
- 1,2-Diphenylhydrazine
- Disulfoton
- Dyfonate
- Nitrobenzene
- Prometon
- Terbufos
- 2,4,6-Trichlorophenol

Internal/Surrogate Standards

M-526-IS/SS — **$ 45 / 1 x 1 mL**
M-526-IS/SS-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
500 µg/mL each in Acetone — 5 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,3-Dimethyl-2-nitrobenzene
- Phenanthrene-d_{10}
- Triphenylphosphate

M-525-TS-0.05X — **$ 15 / 1 x 1 mL**
5 µg/mL in CH_2C_2

- DFTPP

Internal Standard

M-525.2-IS — **$ 40 / 1 x 1 mL**
M-525.2-IS-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
500 µg/mL each in Acetone — 3 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}

Surrogate Standard

M-526-SS — **$ 25 / 1 x 1 mL**
M-526-SS-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
500 µg/mL each in Acetone — 2 comps.

- 1,3-Dimethyl-2-nitrobenzene
- Triphenylphosphate

Storage Conditions

All products come with storage conditions listed on the label of the ampule or bottle. Some chemical formulations require refrigeration or freezer storage to slow down reactions among the components. Other standards require sonication prior to use because they are near their saturation for the particular formulation. It is imperative that these conditions are followed to ensure the chemical reference standard will be at the stated concentration.

Method 527 Pesticides & Flame Retardants in Drinking Water by SPE & Capillary GC/MS

PBDE Standard

M-527-BDE — **$ 250 / 1 x 1 mL**
50 µg/mL each in Isooctane:Ethyl Acetate (8:2) — 5 comps.

- 2,2',4,4'-Tetrabromodiphenyl ether
- 2,2',4,4',6-Pentabromodiphenyl ether
- 2,2',4,4',5-Pentabromodiphenyl ether
- 2,2',4,4',5,5'-Hexabromodiphenyl ether
- 2,2',4,4',5,5'-Hexabromobiphenyl

Pesticide Mix A

M-527-PEST-A — **$ 125 / 1 x 1 mL**
500 µg/mL each in MeOH — 11 comps.

- Atrazine
- Bioallethrin, S-cyclopentyl isomer
- Bromacil
- Esfenvalerate
- Fenvalerate
- Hexazinone
- Kepone
- Norflurazon
- Oxychlordane isomer
- Prometryne
- Propazine

Pesticide Mix B

M-527-PEST-B — **$ 100 / 1 x 1 mL**
500 µg/mL each in MeOH — 12 comps.

- Bifenthrin
- Dimethoate
- Dursban
- Fenamiphos
- Malathion
- Mirex
- Nitrofen
- Parathion
- Terbufos sulfone
- Thiazopyr
- Thiobencarb
- Vinclozolin

Internal Standard

M-525.2-IS — **$ 40 / 1 x 1 mL**
M-525.2-IS-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 3 comps.

- Acenapthene-d_{10}
- Chrysene-d_{12}
- Phenanthrene-d_{10}

Surrogate Standard

M-525.2-SS — **$ 30 / 1 x 1 mL**
0.5 mg/mL each in Acetone — 3 comps.

- 1,3-Dimethyl-2-nitrobenzene
- Perylene-d_{12}
- Triphenylphosphate

Method 528 Phenols by GC/MS

Stock Calibration Standard

M-528-CONC **$ 45 / 1 x 1 mL**
M-528-CONC-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 12 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- *o*-Cresol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2-Methyl-4,6-Dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Analyte Fortification Solution

M-528-AFS **$ 40 / 1 x 1 mL**
M-528-AFS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated conc. in MeOH 12 comps.

4-Chloro-3-methylphenol	(100 µg/mL)	2-Methyl-4,6-Dinitrophenol	(500 µg/mL)
2-Chlorophenol	(100 µg/mL)	2-Nitrophenol	(100 µg/mL)
o-Cresol	(100 µg/mL)	4-Nitrophenol	(500 µg/mL)
2,4-Dichlorophenol	(100 µg/mL)	Pentachlorophenol	(500 µg/mL)
2,4-Dimethylphenol	(100 µg/mL)	Phenol	(100 µg/mL)
2,4-Dinitrophenol	(500 µg/mL)	2,4,6-Trichlorophenol	(100 µg/mL)

Internal Standard

M-528-IS **$ 35 / 1 x 1 mL**
M-528-IS-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
At stated conc. in CH_2Cl_2 2 comps.

- 1,2-Dimethyl-3-nitrobenzene (1000 µg/mL)
- 2,3,4,5-Tetrachlorophenol (2000 µg/mL)

Surrogate Standards

M-528-SS **$ 55 / 1 x 1 mL**
M-528-SS-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
At stated conc. in MeOH 3 comps.

- 2-Chlorophenol-d_4 (1000 µg/mL)
- 2,4-Dimethylphenol-3,5,6-d_3 (1000 µg/mL)
- 2,4,6-Tribromophenol (2500 µg/mL)

M-528-SS2 **$ 50 / 1 x 1 mL**
M-528-SS2-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
At stated conc. in MeOH 3 comps.

- 2-Chlorophenol-d_4 (1000 µg/mL)
- 2,4-Dimethylphenol-3,5,6-d_3 (1000 µg/mL)
- 2,4,6-Tribromophenol (2000 µg/mL)

Peak Tailing Factor Standard

M-528-PTF **$ 20 / 1 x 1 mL**
M-528-PTF-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
10 µg/mL each in CH_2Cl_2 4 comps.

- 2,4-Dimethylphenol
- 2-Methyl-4,6-dinitrophenol
- 4-Nitrophenol
- Pentachlorophenol

Method 529 Explosive & Related Compounds by SPE & Capillary Column GC/MS

Method 529 Calibration Curve

All in µg/mL in Ethyl acetate Storage Cond.: Freeze (<-10°C)

M-529-	01	02	03	04	05	06	07	08	09
2-Amino-4,6-dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
4-Amino-2,6-dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
3,5-Dinitroaniline	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
1,3-Dinitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2,4-Dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2,6-Dinitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
RDX	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
Nitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
2-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
3-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
4-Nitrotoluene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
1,3,5-Trinitrobenzene	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
Tetryl	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10
TNT	0.025	0.05	0.10	0.25	0.50	1.0	2.0	5.0	10

Full Scan MS Calibration Set

M-529-MS-SET **$ 325 / 6 x 1 mL**
M-529-03, M-529-05, M-529-06, M-529-07, M-529-08, M-529-09

SIM Calibration Set

M-529-SIM-SET **$ 325 / 7 x 1 mL**
M-529-01, M-529-02, M-529-03, M-529-04, M-529-05, M-529-06, M-529-07

Storage Condition.: Freeze (<-10°C)

Internal Standard Stock Solution

M-529-IS **$ 20 / 1 x 1 mL**
2.0 mg/mL Ethyl acetate

- 3,4-Dinitrotoluene

Surrogate Analyte Stock Solutions

M-529-SS1 **$ 55 / 1 x 1 mL**
M-529-SS1-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
1000 µg/mL each in MeOH 2 comps.

- 1,3,5-Trimethyl-2-nitrobenzene
- 1,2,4-Trimethyl-5-nitrobenzene

M-529-SS2 **$ 15 / 1 x 1 mL**
M-529-SS2-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2

- Nitrobenzene-d_5

Internal Standard Fortification Solution

M-529-ISFS **$ 90 / 1 x 1 mL**
200 µg/mL Ethyl acetate 14 comps.

- 2-Amino-4,6-dinitrotoluene
- 4-Amino-2,6-dinitrotoluene
- 3,5-Dinitroaniline
- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- RDX
- Nitrobenzene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene
- 1,3,5-Trinitrobenzene
- Tetryl
- TNT

Surrogate Analyte Fortification Solution

M-529-SAFS **$ 60 / 1 x 1 mL**
100 µg/mL each in MeOH 3 comps.

- 1,3,5-Trimethyl-2-nitrobenzene
- 1,2,4-Trimethyl-5-nitrobenzene
- Nitrobenzene-d_5

Method 531 + 531.1 N-Methyl carbamoyl oximes & N-Methyl carbamates by HPLC

M-531-SET — **$ 90 / set of 11 x 1 mL**
Each at 0.1 mg/mL in AcCN — Analytes listed below

Each at 0.1 mg/mL in AcCN	Cat. No.	Price / 1 mL
Aldicarb sulfoxide	M-531-01	$ 20
Aldicarb sulfone	M-531-02	20
Oxamyl	M-531-03	12
Methomyl	M-531-04	12
3-Hydroxycarbofuran	M-531-05	20
Aldicarb	M-531-06	12
Propoxur	M-531-07	12
Carbofuran	M-531-08	12
Carbaryl	M-531-09	12
1-Naphthol	M-531-10	12
Methiocarb	M-531-11	12

M-531M — **$ 60 / 1 x 1 mL**
M-531M-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
0.1 mg/mL each in AcCN — 11 comps.

Performance Check Solution

M-531-QC-R — **$ 30 / 1 x 1 mL**
At stated conc. in AcCN — 4 comps.

Aldicarb sulfoxide	(100 µg/mL)	3-Hydroxycarbofuran	(2 µg/mL)
BDMC	(10 µg/mL)	Methiocarb	(20 µg/mL)

Internal Standard

M-531-IS — **$ 25 / 1 x 1 mL**
0.1 mg/mL in AcCN

4-Bromo-3,5-dimethylphenyl N-methylcarbamate *(BDMC)*

Carbamate Pesticide Mix

M-531-REG-ASL — **$ 25 / 1 x 1 mL**
M-531-REG-ASL-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
100 µg/mL in MeOH — 2 comps.

Carbofuran — Oxamyl

Method 532 Phenylureas by HPLC

Phenylurea Concentrate Standard

M-532-CONC1 — **$ 45 / 1 x 1 mL**
M-532-CONC1-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
5.0 mg/mL each in MeOH — 6 comps.

Karmex	Propanil
Fluometuron	Siduron
Linuron	Tebuthiuron

Phenylurea Concentrate Standard

M-532-CONC2 — **$ 30 / 1 x 1 mL**
M-532-CONC2-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
5.0 mg/mL each in Acetone — 2 comps.

Diflubenzuron — Thidiazuron

Phenylurea Primary Dilution Standard

M-532 — **$ 50 / 1 x 1 mL**
M-532-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
100 µg/mL each in MeOH, except Siduron — 8 comps.

Diflubenzuron	Propanil
Karmex	Siduron (200 µg/mL)
Fluometuron	Tebuthiuron
Linuron	Thidiazuron

Phenylurea Surrogate Standard

M-532-SS — **$ 35 / 1 x 1 mL**
M-532-SS-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
500 µg/mL each in MeOH — 2 comps.

Carbazole — Monuron

Method 535 Acetanilide/Acetamide Herbicide Degradates

Ethanesulfonic acid (ESA) and oxanilic acid (OA) degradation products of acetanilide/acetamide herbicides have been found in U.S. ground waters and surface waters. The substitution of the sulfonic acid or the carbonic acid for the chlorine atom greatly increases the water solubility of degradates relative to the parent compound and contributes to the increased potential for leaching into groundwater. As a result, alachlor ESA and other acetanilide degradation products were listed on the 1998 Safe Drinking Water Act Contaminant Candidate List (CCL). One acetamide and five acetanilide herbicides are currently registered for agricultural use in the U.S. The next step in the CCL-process is to collect data on the concentrations and occurrence of these compounds in the nation's drinking water supplies. However, the existing analytical methods for measuring chloroacetanilide degradates do not address issues specific to analyzing these compounds in drinking water. Because many of the methods were developed for ground water, dechlorination was not addressed nor was the method tested in all types of drinking water matrices. In addition, existing methods do not address all twelve ESA and OA degradates of the six U.S. registered acetanilide/acetamide herbicides. The focus of this research was to develop a sensitive and specific analytical method for the analysis of alachlor ESA and other chloroacetanilide degradates in drinking water.

M-535-SET — **$ 750 / 14 x 1 mL**
At stated conc. in MeOH

Acetochlor ESA	50 µg/mL	Propachlor ESA	20 µg/mL
Acetochlor OA	50 µg/mL	Propachlor OA	20 µg/mL
Alachlor ESA	50 µg/mL	Dimethenamid ESA	10 µg/mL
Alachlor OA	50 µg/mL	Dimethenamid OA	10 µg/mL
Flufenacet ESA	20 µg/mL	**Internal Standard**	
Flufenacet OA	20 µg/mL	Butachlor ESA sodium salt	20 µg/mL
Metolachlor ESA	50 µg/mL	**Surrogate Standard**	
Metolachlor OA	50 µg/mL	Dimethachlor ESA sodium salt	20 µg/mL

EPA Method 500 Series

Method 547 Glyphosate by HPLC

M-547 **$ 20 / 1 x 1 mL**
0.1 mg/mL in Deionized water
M-547-10X **$ 30 / 1 x 1 mL**
1.0 mg/mL in Deionized water

Glyphosate

Glyphosate Metabolite

M-547-02 $ 20 / 1 x 1 mL
0.1 mg/mL in Deionized water

Aminomethyl phosphonic acid (AMPA)

Method 548 Endothall by GC/ECD

M-548A **$ 20 / 1 x 1 mL**
10 µg/mL in Deionized water
M-548B **$ 20 / 1 x 1 mL**
50 µg/mL in Deionized water

Endothall

Internal Standard

M-548-IS **$ 10 / 1 x 1 mL**
10 µg/mL in MtBE

Endosulfan I

Calibration Standard

M-548-CAL **$ 35 / 1 x 1 mL**
100 µg/mL in MtBE

Endothall pentafluorophenyl hydrazine derivative

Method 548.1 Endothall by GC/MS

P-183S **$ 24 / 1 x 1 mL**
100 µg/mL in MeOH

Endothall

Internal Standard

M-548.1-IS **$ 30 / 1 x 1 mL**
500 µg/mL in MeOH

Acenaphthene-d_{10}

Methyl Derivative

M-548.1-ME **$ 22 / 1 x 1 mL**
100 µg/mL in MeOH

Dimethyl endothall

Method 549.1/549.2 Diquat & Paraquat Liquid - Solid Extraction & HPLC

M-549.1 **$ 22 / 1 x 1 mL**
1.0 mg/mL each in Deionized water as non-hydrated species 2 comps.

Diquat dibromide - H_2O (1.97 mg/mL)
Paraquat dichloride - 4 H_2O (1.77 mg/mL)

Method 550 + 550.1 PAHs by HPLC & Internal Standard

M-550-QC **$ 50 / 1 x 1 mL**
At stated conc. in AcCN 16 comps.

Acenaphthene	(1000 µg/mL)	Chrysene	(50 µg/mL)
Acenaphthylene	(1000 µg/mL)	Dibenz[a,h]anthracene	(10 µg/mL)
Anthracene	(50 µg/mL)	Fluoranthene	(2.5 µg/mL)
Benz[a]anthracene	(1 µg/mL)	Fluorene	(100 µg/mL)
Benzo[a]pyrene	(5 µg/mL)	Indeno[1,2,3-cd]pyrene	(10 µg/mL)
Benzo[b]fluoranthene	(1 µg/mL)	Naphthalene	(1000 µg/mL)
Benzo[g,h,i]perylene	(5 µg/mL)	Phenanthrene	(50 µg/mL)
Benzo[k]fluoranthene	(1 µg/mL)	Pyrene	(50 µg/mL)

Internal Standard

M-550-IS **$ 20 / 1 x 1 mL**
0.1 mg/mL in AcCN

4,4'-Difluorobiphenyl

Method 551 Chlorinated Organic Solvents + Trihalomethanes by GC/ECD

M-551A **$ 30 / 1 x 1 mL**
M-551A-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
5.0 mg/mL each in MeOH 10 comps.

Bromodichloromethane	1,2-Dibromoethane
Bromoform	1,2-Dibromo-3-chloropropane
Carbon tetrachloride	Tetrachloroethene
Chlorodibromomethane	1,1,1-Trichloroethane
Chloroform	Trichloroethene

Disinfection By-products

M-551B **$ 50 / 1 x 1 mL**
5.0 mg/mL each in Acetone 8 comps.
M-551B-SET **$ 90 / set of 8 x 1 mL**
Each at 5.0 mg/mL in Acetone

	Cat. No.	Price / 1 mL
Bromochloroacetonitrile	M-551B-1	$ 15
Chloral hydrate	M-551B-2	15
Chloropicrin	M-551B-3	15
Dibromoacetonitrile	M-551B-4	15
Dichloroacetonitrile	M-551B-5	15
1,1-Dichloro-2-propanone	M-551B-6	15
Trichloroacetonitrile	M-551B-7	15
1,1,1-Trichloro-2-propanone	M-551B-8	15

Expiration Dates

Expiration dates are determined by short-term and long-term stability studies, experience and knowledge of chemical interactions. As part of our long-term studies, standards are analyzed at the end of their assigned period and sometimes can be recertified for an additional length of time. Please contact our Customer or Technical Service Department for more information.

Method 551.1A Chlorinated Solvents, Trihalomethanes Disinfection By-products & Halogenated Pesticides/ Herbicides in Drinking Water by GC/ECD

Chlorinated Organic Solvents + Trihalomethanes

M-551.1A **$ 30 / 1 x 1 mL**
M-551.1A-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in Acetone 12 comps.

Bromodichloromethane	(1000 µg/mL)
Bromoform	(1000 µg/mL)
Carbon tetrachloride	(500 µg/mL)
Chloroform	(1000 µg/mL)
Dibromochloromethane	(1000 µg/mL)
1,2-Dibromo-3-chloropropane	(1000 µg/mL)
1,2-Dibromoethane	(1000 µg/mL)
Tetrachloroethene	(500 µg/mL)
1,1,1-Trichloroethane	(1000 µg/mL)
1,1,2-Trichloroethane	(10,000 µg/mL)
Trichloroethene	(1000 µg/mL)
1,2,3-Trichloropropane	(10,000 µg/mL)

Disinfection By-products

M-551.1B **$ 40 / 1 x 1 mL**
M-551.1B-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
1000 µg/mL each in Acetone 8 comps.

Bromochloroacetonitrile	Dichloroacetonitrile
Chloral hydrate	1,1-Dichloro-2-propanone
Chloropicrin	Trichloroacetonitrile
Dibromoacetonitrile	1,1,1-Trichloro-2-propanone

Pesticide/Herbicide Mixture

M-551.1C **$ 45 / 1 x 1 mL**
M-551.1C-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
At stated conc. in Acetone 17 comps.

Alachlor	(10 µg/mL)	Hexachlorobenzene	(1 µg/mL)
Atrazine	(200 µg/mL)	Hexachlorocyclopentadiene	(1 µg/mL)
Bromacil	(10 µg/mL)	Lindane	(1 µg/mL)
Cyanazine	(30 µg/mL)	Methoxychlor	(5 µg/mL)
Endrin	(2 µg/mL)	Metolachlor	(10 µg/mL)
Endrin aldehyde	(2 µg/mL)	Metribuzin	(5 µg/mL)
Endrin ketone	(2 µg/mL)	Simazine	(200 µg/mL)
Heptachlor	(1 µg/mL)	Trifluralin	(1 µg/mL)
Heptachlor epoxide (isomer B)	(1 µg/mL)		

Technical Note

1. Method 551.1A analytes are formulated into **3 separate solutions** to meet various analytical laboratory testing requirements. Each solution is intended for use as a stand-alone formulation or in combination with the other two solutions.
2. **Chloral hydrate** is a DEA schedule IV drug. AccuStandard has the necessary license and exemption approval to offer this analyte in a multi-component formulation. This multi-component formulation containing chloral hydrate is tested for stability. In addition, the solution is manufactured in small batches to insure the freshest product.

Using the 3 mixture version not only provides versatility but also eliminates running two separate 5 point calibration curves (one for the core analytes and a separate Chloral hydrate curve).

Method 551.1A Auxiliary Standards by ECD

Laboratory Performance Check Solutions

Pentane Extracts

M-551.1-LPC-P **$ 25 / 1 x 1 mL**
M-551.1-LPC-P-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in Pentane 7 comps.

Alachlor	(83 µg/mL)	Hexachlorocyclopentadiene	(20 µg/mL)
Bromacil	(83 µg/mL)	Lindane	(0.2 µg/mL)
Bromodichloromethane	(30 µg/mL)	Trichloroethene	(30 µg/mL)
Endrin	(30 µg/mL)		

MtBE Extracts

M-551.1-LPC **$ 25 / 1 x 1 mL**
M-551.1-LPC-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in MtBE 7 comps.

Alachlor	(83 µg/mL)	Hexachlorocyclopentadiene	(20 µg/mL)
Bromacil	(83 µg/mL)	Lindane	(0.2 µg/mL)
Bromodichloromethane	(30 µg/mL)	Trichloroethene	(30 µg/mL)
Endrin	(30 µg/mL)		

Internal Standard Solutions

M-551.1-IS **$ 10 / 1 x 1 mL**
M-551.1-IS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
100 µg/mL in Acetone
M-551.1-IS-100X **$ 20 / 1 x 1 mL**
M-551.1-IS-100X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
10,000 µg/mL in Acetone

p-Bromofluorobenzene

Modified Laboratory Performance Check Solutions

Pentane Extracts

M-551.1-MLPC-P **$ 20 / 1 x 1 mL**
M-551.1-MLPC-P-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
At stated conc. in Pentane 4 comps.

γ-BHC	(0.2 µg/mL)	Hexachlorocyclopentadiene	(20 µg/mL)
Bromodichloromethane	(30 µg/mL)	Trichloroethene	(30 µg/mL)

MtBE Extracts

M-551.1-MLPC **$ 20 / 1 x 1 mL**
M-551.1-MLPC-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
At stated conc. in MtBE 4 comps.

γ-BHC	(0.2 µg/mL)	Hexachlorocyclopentadiene	(20 µg/mL)
Bromodichloromethane	(30 µg/mL)	Trichloroethene	(30 µg/mL)

Surrogate Standard Solutions

M-551.1-SS **$ 10 / 1 x 1 mL**
M-551.1-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
10 µg/mL in Acetone
M-551.1-SS-100X **$ 20 / 1 x 1 mL**
M-551.1-SS-100X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
1,000 µg/mL in Acetone

Decafluorobiphenyl

Method 552 Haloacetic Acids by ECD

Methyl Derivatives

M-552-R **$ 60 / 1 x 1 mL**
1.0 mg/mL each in MtBE 8 comps.
M-552-R-SET **$ 120 / set of 8 x 1 mL**
Each at 1.0 mg/mL in MtBE

	Cat. No.	Price 1 mL
2,4-Dichloroanisole	M-552-R-01	$ 30
Methyl bromoacetate	M-552-R-02	$ 30
Methy bromochloroacetate	M-552-R-03	$ 30
Methyl chloroacetate	M-552-R-04	$ 30
Methyl dibromoacetate	M-552-R-05	$ 30
Methyl dichloroacetate	M-552-R-06	$ 30
Methyl trichloroacetate	M-552-R-07	$ 30
2,4,6-Trichloroanisole	M-552-R-08	$ 30

Underivatized Analytes

M-552A-R **$ 60 / 1 x 1 mL**
1.0 mg/mL each in MtBE 8 comps.
M-552A-R-SET **$ 90 / set of 8 x 1 mL**
Each at 1.0 mg/mL in MtBE

	Cat. No.	Price 1 mL
Bromoacetic acid	M-552A-R-01	$ 15
Bromochloroacetic acid	M-552A-R-02	$ 25
Chloroacetic acid	M-552A-R-03	$ 15
Dibromoacetic acid	M-552A-R-04	$ 15
Dichloroacetic acid	M-552A-R-05	$ 15
2,4-Dichlorophenol	M-552A-R-06	$ 15
Trichloroacetic acid	M-552A-R-07	$ 15
2,4,6-Trichlorophenol	M-552A-R-08	$ 15

Internal Standards

APP-9-208-10X **$ 10 / 1 x 1 mL**
APP-9-208-10X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in MeOH

1,2,3-Trichloropropane

M-552-IS **$ 15 / 1 x 1 mL**
M-552-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
5.0 mg/mL in MeOH

1,2-Dibromopropane

Surrogate Standards as Acids & Methyl esters

P-242S-10X **$ 14 / 1 x 1 mL**
P-242S-10X-PAK ***SAVE 20%*** **$ 56 / 5 x 1 mL**
1.0 mg/mL in MeOH

3,5-Dichlorobenzoic acid

P-247S-10X **$ 14 / 1 x 1 mL**
P-247S-10X-PAK ***SAVE 20%*** **$ 56 / 5 x 1 mL**
1.0 mg/mL in MeOH

3,5-Dichlorobenzoic acid methyl ester

M-552-SS **$ 15 / 1 x 1 mL**
M-552-SS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
20 mg/mL in MtBE

2,3-Dibromopropionic acid

M-552-SS-ME **$ 15 / 1 x 1 mL**
M-552-SS-ME-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
20 mg/mL in MtBE

2,3-Dibromopropionic acid methyl ester

Method 552.1 Haloacetic Acids by ECD

Methyl Derivatives

M-552.1 **$ 45 / 1 x 1 mL**
At stated conc. in MeOH 7 comps.
M-552.1-SET **$ 105 / set of 7 x 1 mL**
Each at stated conc. in MeOH

		Cat. No.	Price 1 mL
Dalapon ME	(200 µg/mL)	M-552.1-01	$ 25
Methyl bromoacetate	(200 µg/mL)	M-552.1-02	25
Methyl bromochloroacetate	(200 µg/mL)	M-552.1-03	25
Methyl chloroacetate	(300 µg/mL)	M-552.1-04	25
Methyl dibromoacetate	(100 µg/mL)	M-552.1-05	25
Methyl dichloroacetate	(300 µg/mL)	M-552.1-06	25
Methyl trichloroacetate	(100 µg/mL)	M-552.1-07	25

Underivatized Analytes

M-552.1A **$ 45 / 1 x 1 mL**
At stated conc. in MeOH 7 comps.
M-552.1A-SET **$ 90 / set of 7 x 1 mL**
Each at stated conc. in MeOH

Dalapon	(200 µg/mL)
Bromoacetic acid	(200 µg/mL)
Bromochloroacetic acid	(200 µg/mL)
Chloroacetic acid	(300 µg/mL)
Dibromoacetic acid	(100 µg/mL)
Dichloroacetic acid	(300 µg/mL)
Trichloroacetic acid	(100 µg/mL)

Internal Standard

M-552.1-IS **$ 10 / 1 x 1 mL**
M-552.1-IS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in MtBE

1,2,3-Trichloropropane

Surrogate Standards

M-552.1-SS **$ 10 / 1 x 1 mL**
M-552.1-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in MtBE

2-Bromopropanoic acid

M-552.1-SS-ME **$ 10 / 1 x 1 mL**
M-552.1-SS-ME-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in MtBE

Methyl 2-bromopropionate

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



Method 552.2 Haloacetic Acids & Dalapon in Drinking Water by L-L extraction, Derivatization & GC by ECD

These convenient sets of 10 individual ampules for Method 552.2, each containing a single analyte or its methyl derivative were formulated with both the acids & their methyl derivatives and with and without the surrogate.

Methyl Derivatives

Haloacetic Acid Methyl Derivatives without Surrogates

M-552.2-R1 — **$ 60 / 1 x 1 mL**
At stated conc. in MtBE — 10 comps.
M-552.2-SET — **$ 150 / set of 10 x 1 mL**
M-552.3-R1 — **$ 75 / 1 x 1 mL**
100 µg/mL each in MtBE

		Cat. No.	Price 1 mL
Dalapon methyl ester	(40 µg/mL)	M-552.2-01	$ 20
Methyl bromoacetate	(40 µg/mL)	M-552.2-02	20
Methyl bromochloroacetate	(40 µg/mL)	M-552.2-03	20
Methyl bromodichloroacetate	(40 µg/mL)	M-552.2-04	20
Methyl chloroacetate	(60 µg/mL)	M-552.2-05	20
Methyl chlorodibromoacetate	(100 µg/mL)	M-552.2-06	20
Methyl dibromoacetate	(20 µg/mL)	M-552.2-07	20
Methyl dichloroacetate	(60 µg/mL)	M-552.2-08	20
Methyl tribromoacetate	(200 µg/mL)	M-552.2-09 ❄	20
Methyl trichloroacetate	(20 µg/mL)	M-552.2-10	20

Haloacetic Acid Methyl Derivatives with Surrogate (Methyl-2,3-dibromopropionate)

M-552.2 — **$ 60 / 1 x 1 mL**
At stated conc. in MtBE — 11 comps.
M-552.3 — **$ 75 / 1 x 1 mL**
100 µg/mL each in MtBE

Dalapon methyl ester	(40 µg/mL)
Methyl bromoacetate	(40 µg/mL)
Methyl bromochloroacetate	(40 µg/mL)
Methyl bromodichloroacetate	(40 µg/mL)
Methyl chloroacetate	(60 µg/mL)
Methyl chlorodibromoacetate	(100 µg/mL)
Methyl dibromoacetate	(20 µg/mL)
Methyl dichloroacetate	(60 µg/mL)
Methyl tribromoacetate	(200 µg/mL)
Methyl trichloroacetate	(20 µg/mL)
Methyl 2,3-dibromopropionate (Surr.)	(100 µg/mL)

Surrogate Standard - Haloacetic Acid Methyl Derivative

M-552.2-SS-ME — **$ 10 / 1 x 1 mL**
1000 µg/mL in MtBE

Methyl 2,3-dibromopropionate

Laboratory Performance Check Solution

M-552.2-LPC — **$ 20 / 1 x 1 mL**
M-552.2-LPC-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in MtBE — 4 comps.

Methyl bromochloroacetate	(4 µg/mL)
Methyl chloroacetate	(6 µg/mL)
Methyl chlorodibromoacatate	(10 µg/mL)
Methyl 2,3-dibromopropionate	(10 µg/mL)

Working Level

M-552.2-LPC-WL-25ML — **$ 30 / 1 x 25 mL**
M-552.2-LPC-WL-50ML — **$ 50 / 1 x 50 mL**
At stated conc. in MtBE — 4 comps.

Methyl bromochloroacetate	(0.004 µg/mL)
Methyl chloroacetate	(0.006 µg/mL)
Methyl chlorodibromoacatate	(0.010 µg/mL)
Methyl 2,3-dibromopropionate	(0.010 µg/mL)

❄ A ColdPAK is required.

Haloacetic Acids

Haloacetic Acid without Surrogate

M-552.2A-R1 — **$ 60 / 1 x 1 mL**
At stated conc. in MtBE — 10 comps.
M-552.2A-SET — **$ 125 / set of 10 x 1 mL**
M-552.3A-R1 — **$ 75 / 1 x 1 mL**
100 µg/mL each in MtBE

		Cat. No.	Price 1 mL
Dalapon acid	(40 µg/mL)	M-552.2A-04	$ 15
Monobromoacetic acid	(40 µg/mL)	M-552.2A-07	15
Bromochloroacetic acid	(40 µg/mL)	M-552.2A-01	15
Bromodichloroacetic acid	(40 µg/mL)	M-552.2A-02	20
Monochloroacetic acid	(60 µg/mL)	M-552.2A-08	15
Chlorodibromoacetic acid	(100 µg/mL)	M-552.2A-03	20
Dibromoacetic acid	(20 µg/mL)	M-552.2A-05	15
Dichloroacetic acid	(60 µg/mL)	M-552.2A-06	15
Tribromoacetic acid	(200 µg/mL)	M-552.2A-09	15
Trichloroacetic acid	(20 µg/mL)	M-552.2A-10	15

Haloacetic Acid Mix with Surrogate (2,3-Dibromopropionic acid)

M-552.2A — **$ 65 / 1 x 1 mL**
At stated conc. in MtBE — 11 comps.

Dalapon acid	(40 µg/mL)
Monobromoacetic acid	(40 µg/mL)
Bromochloroacetic acid	(40 µg/mL)
Bromodichloroacetic acid	(40 µg/mL)
Monochloroacetic acid	(60 µg/mL)
Chlorodibromoacetic acid	(100 µg/mL)
Dibromoacetic acid	(20 µg/mL)
Dichloroacetic acid	(60 µg/mL)
Tribromoacetic acid	(200 µg/mL)
Trichloroacetic acid	(20 µg/mL)
2,3-Dibromopropionic acid (Surr.)	(100 µg/mL)

Surrogate Standards - Haloacetic Acid

M-552.2-SS — **$ 10 / 1 x 1 mL**
1000 µg/mL in MtBE

2,3-Dibromopropionic acid

M-552.2-SS2 — **$ 15 / 1 x 1 mL**
10 mg/mL in MtBE

2-Bromobutanoic acid

Internal Standard

M-552.2-IS — **$ 10 / 1 x 1 mL**
1000 µg/mL in MtBE

1,2,3-Trichloropropane

EPA Method 500 Series

Method 553 Benzidines & Nitrogen containing Pesticides by L-L or L-S Extraction & RP HPLC/Particle Beam/MS

Analytes

M-553 ❄ — **$ 95 / 1 x 1 mL**
At stated conc. in AcCN:MeOH (1:1) — 13 comps.

Benzidine	(250 µg/mL)	3,3'-Dimethylbenzidine	(350 µg/mL)
Benzoylprop ethyl	(350 µg/mL)	Diuron	(450 µg/mL)
Caffeine	(300 µg/mL)	Linuron	(1,300 µg/mL)
Carbaryl	(1,000 µg/mL)	Monuron	(400 µg/mL)
o-Chlorophenyl thiourea	(750 µg/mL)	Rotenone	(3,200 µg/mL)
3,3'-Dichlorobenzidine	(250 µg/mL)	Siduron	(450 µg/mL)
3,3'-Dimethoxybenzidine	(750 µg/mL)		

Performance Check Solution

M-553-PC — **$ 15 / 1 x 1 mL**
0.1 mg/mL in AcCN

DFTPPO *(Decafluorotriphenylphosphine oxide)*

Method 554 Carbonyl Compounds as DNPH Derivatives by HPLC

Carbonyl Compounds

M-554-R1 — **$ 65 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 12 comps.

Acetaldehyde	Heptanal
Butanal	Hexanal
Crotonaldehyde	Nonanal
Cyclohexanone	Octanal
Decanal	Pentanal
Formaldehyde	Propanal

DNPH Derivatives

M-554-DNPH — **$ 100 / 1 x 1 mL**
1.0 mg/mL each in MeOH:AcCN (95:5) — 12 comps.
M-554-DNPH-SET — **$ 175 / set of 12 x 1 mL**
Each at 1.0 mg/mL in MeOH:AcCN (95:5)

	Cat. No.	Price 1 mL
Acetaldehyde-DNPH ❄	M-554-DNPH-01	$ 20
Butanal-DNPH	M-554-DNPH-02	20
Crotonaldehyde-DNPH ❄	M-554-DNPH-03	20
Cyclohexanone-DNPH	M-554-DNPH-04	20
Decanal-DNPH	M-554-DNPH-05	20
Formaldehyde-DNPH	M-554-DNPH-06	20
Heptanal-DNPH	M-554-DNPH-07	20
Hexanal-DNPH	M-554-DNPH-08	20
Nonanal-DNPH	M-554-DNPH-09	20
Octanal-DNPH	M-554-DNPH-10	20
Pentanal-DNPH	M-554-DNPH-11	20
Propanal-DNPH	M-554-DNPH-12	20

Method 555 Chlorinated Acids by HPLC

Mix A

M-555A — **$ 55 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 8 comps.

Acifluorfen	Dicamba
Bentazon	Dichlorprop
Chloramben	Picloram
2,4-D	2,4,5-TP

Mix B

M-555B — **$ 55 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 8 comps.

2,4-DB	MCPP
3,5-Dichlorobenzoic acid	4-Nitrophenol
Dinoseb	Pentachlorophenol
MCPA	2,4,5-T

Method 556/556.1 Carbonyl Compounds by PFBHA Derivative with analysis by GC/ECD

Mix A

M-556-MIXA — **$ 85 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 13 comps.

Acetaldehyde	Heptanal
Benzaldehyde	Hexanal
Butanal	Nonanal
Crotonaldehyde	Octanal
Cyclohexanone	Pentanal
Decanal	Propanal
Formaldehyde	

Mix B

M-556-MIXB — **$ 40 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 2 comps.

Glyoxal — Methyl glyoxal

Technical Note

Difference between Method 556 & 556.1
This product (M-556) was designed to meet both versions of the carbonyl methods. The primary difference between method 556 and 556.1 is that crotonaldehyde has been removed from the analyte list in the 556.1 method. If you require a formulation without the crotonaldehyde, we can custom formulate a standard to meet your exact requirements.

Procedural Calibration Standard
M-556 is to be used as a procedural standard for calibration of the method. As a procedural calibration standard it should be carried through the entire extraction and derivatization procedure associated with the samples. The oxime derivatives are analyzed by GC/ECD. Our Synthesis Department has the capability to manufacture the actual oxime derivatives. If your lab has an application for the actual derivatives, contact our technical department and we can provide a quotation to meet your requirements.

Internal Standard

M-556-IS — **$ 30 / 1 x 1 mL**
M-556-IS-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
10 mg/mL in Hexane

1,2-Dibromopropane

Surrogate Standards

M-556-SS — **$ 10 / 1 x 1 mL**
M-556-SS-PAK — *SAVE 20%* **$ 40 / 5 x 1 mL**
20 µg/mL in AcCN
M-556-SS-100X — **$ 20 / 1 x 1 mL**
M-556-SS-100X-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL in AcCN

2',4',5'-Trifluoroacetophenone

PFBHA Reagent

M-556-DER-10ML — **$ 50 / 1 x 10 mL**
M-556-DER-10ML-PAK — *SAVE 20%* **$ 200 / 5 x 10 mL**
15 mg/mL in Water

O-(2,3,4,5,6-Pentafluorobenzyl)hydroxylamine hydrochloride

Working Level (Internal Standard)

M-556-IS-WL-5ML-VAP — **$ 50 / 10 x 5 mL**
400 µg/L in Hexane

1,2-Dibromopropane

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a ColdPAK.

Custom Services

Custom Synthesis

The AccuStandard Synthesis Department employs several PhD. Organic Chemists with many years of pertinent academic and industrial experience. The experienced staff has developed hundreds of pure chemical compounds for companies and governmental agencies around the world. The very well-equipped synthetic laboratory, with significant analytical support has made many notable synthesis projects possible. We specialize in synthesizing chemicals of high purity to be used as reference standards, and also offer custom synthesis capability on milligram to kilogram scales.



Analytical Capabilities

- GC-MS, GC-FID, GC-ECD, GC-NPD
- HPLC, LC-MS
- ICP, ICP-MS
- access to more anlytical instrumentation if necessary

Synthesis and Purification

- Milligram to Kilogram Glassware
- Inert Conditions Equipment
- High Performance Flash Chromatography
- Distillation Equipment - High Vacuum, Molecular (Kugelrohr), and Spinning Band Columns Preparative TLC
- Parr Pressure and Hydrogenation Reactor

Custom Synthesized Products

- PCBs (all 209 congeners), & hydroxy, methoxy, and methylsulfonyl metabolites
- Halo-Dibenzodioxins and Furans
- PBDEs (205 out of 209 congeners) & hydroxy, methoxy, and chloro metabolites
- Fluorinated PBDEs
- Other Brominated Flame Retardants
- PBBs
- PAHs, Nitro-PAHs, Methyl-PAHs
- Pesticides and metabolites
- Explosives and metabolites
- Nonyl- and Octylphenol Ethoxylates
- Mono- and Diester Phthalates
- Organophosphates
- Other Rare Chemicals

AccuStandard is renowned for its quick response to the needs for new compounds. The company's especially strong Synthesis Department allows the synthesis of important and unique products. Featured in its history of firsts, are all of the 209 congeners of polychlorinated biphenyls (PCBs), 205 out of the 209 congeners of polybrominated diphenyl ethers (PBDEs) as well as many halogenated dioxins and dibenzofurans, PAHs, pesticides and fluorinated surrogates substituting the expensive isotopically labelled compounds.

Among the more recent introductions are the hydroxy and methoxy PBDE congeners, mixed bromo/chloro hydroxy and methoxy diphenyl ethers, organophosphate flame retardants, biofuels, plastic additives (AccuStandard authored the Handbook for the Chemical Analysis of Plastic and Polymer Additives published by CRC Press), EPA Method 535 pesticide derivatives and previously unavailable explosive standards.

Custom Formulations

With over 30,000+ custom and 10,000+ listed standards, there is a good chance that AccuStandard will have a standard to meet your needs. However, if your laboratory requires something specific, our Chemists will manufacture a Custom Standard to meet your unique requirements. Custom Standards are an economical and time saving way to have a Standard prepared for your individual needs.



Custom QC options

1. Gravimetric/Volumetric Certification: Each purity is measured gravimetrically and QC verified instrumentally (where available). Every component in the Standard is guaranteed to be within +/- 0.5% of the requested value unless otherwise stated on the Certificate of Analysis. The solutions are diluted to volume using Class A glassware. A Certificate of Analysis accompanies each Standard and documents the gravimetric values used.
2. Full Quantitative Certification: This QA/QC method includes extended GC analysis using both internal calibration standards plus statistical analysis. A data package containing analytical and gravimetric data can be provided if requested during the quotation phase (Organic Customs only).

Custom Packaging & Bulk Quantity Requirements

AccuStandard has the resources and equipment to meet your custom packaging requirements.

- Automated ampule filling & sealing 0.2 mL up to 20 mL and ampule sizes from 1 mL to 20 mL
- Quantities from 500 to over 500,000 ampules
- Homogeneity testing
- Amber ampules for added product stability
- Private labeling and packaging (OEM)

We can reduce your costs using the Cozzoli Auto Filling/Sealing Machine to package just the right size product for your application. OEM Standards - Privately labeled standards manufactured and tested to your specifications. Cold and under Nitrogen sealing available.





National Primary Drinking Water Standards

EPA Safe Drinking Water Act (SDWA) Amendment National Primary Drinking Water Standards

The Safe Drinking Water Act (SDWA) amendment of 1996 established a new charter for the Nation's public water systems. The Environmental Protection Agency sets standards for protecting the safety of drinking water. The regulatory section of this act eliminates the requirement for the EPA to regulate 25 additional contaminants every three years. Instead, every 5 years from enactment of the amendment, the EPA will determine whether or not to regulate at least 5 new contaminants from a list being published within 18 months of the enactment of the amendment. The following two pages of National Primary Drinking Water Standards are formulated to provide convenience and flexibility when analyzing regulated contaminants from the Drinking Water Priority list.

Volatiles

Phase I

VOCs

M-502C-07 — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 12 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chloroform
- Dibromochloromethane
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- 1,1,1-Trichloroethane
- Trichloroethylene
- Vinyl chloride

Phase II

VOCs

M-502C-08 — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 12 comps.

- Chlorobenzene
- 1,2-Dichlorobenzene
- *cis*-1,2-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- Ethylbenzene
- Styrene
- Tetrachloroethylene
- Toluene
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

Phase V

Additions

M-502C-10 — **$ 25 / 1 x 1 mL**
2.0 mg/mL in MeOH — 3 comps.

- Dichloromethane
- 1,2,4-Trichlorobenzene
- 1,1,2-Trichloroethane

Phase VIB

Additions

M-502C-11 — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 7 comps.

- Acrylonitrile
- Bromomethane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Hexachlorobutadiene
- 1,1,1,2-Tetrachloroethane
- 1,2,3-Trichloropropane

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Technical Note

If you require formulations with additional analytes found on the contaminant list, please contact our Technical Department.

Combined Phase I, Phase II, Phase V

Volatiles

M-502-REG — **$ 45 / 1 x 1 mL**
M-502-REG-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 27 comps.
M-502-REG-10X — **$ 60 / 1 x 1 mL**
M-502-REG-10X-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 27 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *cis*-1,2-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- Dichloromethane
- 1,2-Dichloropropane
- Ethylbenzene
- Styrene
- Tetrachloroethylene
- Toluene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- Vinyl chloride
- *m*-Xylene
- *o*-Xylene
- *p*-Xylene

Method 504 EDB & DBCP

M-504 — **$ 15 / 1 x 1 mL**
M-504-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 2 comps.

- 1,2-Dibromoethane *(EDB)*
- 1,2-Dibromo-3-chloropropane *(DBCP)*

Method Specific Individual Standards

Compounds	Method	Concentration	Cat. No.	Price
Diquat	549.1	100 µg/mL in MeOH	P-231S	$ 12
Endothall	548.1	100 µg/mL in MeOH	P-183S	22
Ethylene thiourea ††	509	0.1 mg/mL in 0.17 w/v DTT in Ethyl acetate	M-509	15
Glyphosate	547	100 µg/mL in H_2O	M-547	20
2,3,7,8-TCDD	525	500 µg/mL in Toluene	D-404S	50
Toxaphene	525	2.5 mg/mL in Acetone	M-525-5	20
Water Treatment Chemicals				
Acrylamide	8032	1.0 mg/mL in MeOH	M-8032	10
Epichlorohydrin	8260B	2000 µg/mL in MeOH	M-8260B-02	45

†† Proposed Phase VIB Additions, 0.1% w/v DDT as a scavenger

EPA Safe Drinking Water Act (SDWA) Amendment National Primary Drinking Water Standards (continued)

Regulated Herbicide Mixture (Non-derivatized)

M-515-REG — **$ 30 / 1 x 1 mL**
At stated conc. in Acetone — 8 comps.

Acifluorfen ††	(100 µg/mL)	Dinoseb	(200 µg/mL)
2,4-D	(300 µg/mL)	Pentachlorophenol	(100 µg/mL)
Dalapon	(1000 µg/mL)	Picloram	(100 µg/mL)
Dicamba ††	(100 µg/mL)	2,4,5-TP	(100 µg/mL)

Regulated Herbicide Mixtures (Methyl Derivatives)

M-515-REG-ME — **$ 35 / 1 x 1 mL**
At stated conc. MtBE — 8 comps.

Acifluorfen methyl ester ††	(250 ng/mL)	Dinoseb methyl ether	(500 ng/mL)
2,4-D methyl ester	(500 ng/mL)	Pentachloroanisole	(100 ng/mL)
Dalapon methyl ester	(2000 ng/mL)	Picloram methyl ester	(250 ng/mL)
Dicamba methyl ester ††	(500 ng/mL)	2,4,5-TP methyl ester	(500 ng/mL)

M-515-REG-ME-1000X — **$ 55 / 1 x 1 mL**
At stated conc. MtBE — 8 comps.

Acifluorfen methyl ester ††	(250 µg/mL)	Dinoseb methyl ether	(500 µg/mL)
2,4-D methyl ester	(500 µg/mL)	Pentachloroanisole	(100 µg/mL)
Dalapon methyl ester	(2000 µg/mL)	Picloram methyl ester	(250 µg/mL)
Dicamba methyl ester ††	(500 µg/mL)	2,4,5-TP methyl ester	(500 µg/mL)

Regulated Semi-Volatiles Mixture

M-525-REG-EA — **$ 125 / 1 x 1 mL**
0.1 mg/mL each in Ethyl Acetate — 25 comps.
M-525-REG-EA-5X — **$ 150 / 1 x 1 mL**
0.5 mg/mL each in Ethyl Acetate — 25 comps.

Alachlor	Endrin
Aldrin †	Heptachlor
Atrazine	Heptachlor epoxide
Benzo[a]pyrene	Hexachlorobenzene
Butachlor †	Hexachlorocyclopentadiene
α-Chlordane	Lindane
γ-Chlordane	Methoxychlor
Cyanazine ††	Metolachlor ††
Dieldrin †	Metribuzin ††
2,4-Dinitrotoluene ††	*trans*-Nonachlor
2,6-Dinitrotoluene ††	Propachlor †
bis(2-Ethylhexyl)adipate	Simazine
bis(2-Ethylhexyl)phthalate	

† **Unregulated Additions**
†† **Proposed Phase VIB Additions**

Regulated Pesticide Mixture

M-531-REG — **$ 55 / 1 x 1 mL**
0.1 mg/mL each in Acetonitrile — 8 comps.

Aldicarb	Carbofuran
Aldicarb sulfone	3-Hydrocarbofuran †
Aldicarb sulfoxide	Methomyl ††
Carbaryl †	Oxamyl

Proposed Phase VIA Additions

Disinfectant By-products

Bromoform ††
Chloroform ††
Dibromochloromethane ††
Dichlorobromomethane ††
} see Method 501 Total Trihalomethanes; Method 551, Chlorinated Solvents + Disinfectant By-products

Bromoacetic acid ††
Chloroacetic acid ††
Dibromoacetic acid ††
Dichloroacetic acid ††
Trichloroacetic acid ††
} Haloacetic acids see Method 552.2

Regulated Pesticide Mixture

M-508.1-ASL — **$ 60 / 1 x 1 mL**
M-508.1-ASL-PAK — *SAVE 20%* **$ 240 / 5 x 1 mL**
100 µg/mL each in MtBE — 17 comps.

Alachlor	Heptachlor epoxide (Isomer B)
Aldrin	Hexachlorobenzene
Atrazine	Hexachlorocyclopentadiene
γ-BHC	Methoxychlor
α-Chlordane	Metolachlor
γ-Chlordane	Metribuzin
Dieldrin	Propachlor
Endrin	Simazine
Heptachlor	

Regulated Semi-Volatiles Mixture

M-525-REG-ASL — **$ 35 / 1 x 1 mL**
M-525-REG-ASL-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
0.5 mg/mL each in Acetone — 6 comps.

Benzo[a]pyrene	Hexachlorobenzene
bis(2-Ethylhexyl)adipate	Hexachlorocyclopentadiene
bis(2-Ethylhexyl)phthalate	Pentachlorophenol (2.0 mg/mL)

Carbamate Pesticide Mixture

M-531-REG-ASL — **$ 25 / 1 x 1 mL**
M-531-REG-ASL-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
100 µg/mL each in MeOH — 2 comps.

Carbofuran	Oxamyl

Alternate Source

Validates Analytical Results, while Saving Time and Money
The Alternate Source Line (ASL) is AccuStandard products that exactly matches another vendor's products. These ASL products can be used as independent standards for your primary supplier.

For additional Cross-referencing, visit our Website

EPA Consent Decree
Water Protocol

Water Protocol EPA Consent Decree

Purgeable A
M-001A **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH 11 comps.

- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- 1,1-Dichloroethane
- 1,1-Dichloroethylene
- 1,2-Dichloropropane
- Methylene chloride
- Tetrachloroethylene
- 1,1,2-Trichloroethane
- Trichloroethylene

Purgeable B
M-001B-R **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH 13 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- 2-Chloroethyl vinyl ether
- 1,2-Dichloroethane
- *trans*-1,2-Dichloroethylene
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethylbenzene
- 1,1,2,2-Tetrachloroethane
- Toluene
- 1,1,1-Trichloroethane
- Trichlorofluoromethane

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Purgeable C (Gases)
M-001C **$ 25 / 1 x 1 mL**
0.2 mg/mL each in MeOH 5 comps.

- Bromomethane
- Chloroethane
- Chloromethane
- Dichlorodifluoromethane
- Vinyl chloride

Base/Neutral 1
M-001D **$ 30 / 1 x 1 mL**
At stated conc. in MeOH
M-001D-D **$ 30 / 1 x 1 mL**
At stated conc. in CH_2Cl_2 12 comps.

Acenaphthylene	(0.2 mg/mL)
Benzo[b]fluoranthene	(0.1 mg/mL)
4-Bromophenyl phenyl ether	(0.2 mg/mL)
bis(2-Chloroethyl) ether	(0.2 mg/mL)
bis(2-Chloro-1-methylethyl) ether	(0.2 mg/mL)
1,4-Dichlorobenzene	(0.2 mg/mL)
3,3-Dichlorobenzidine	(0.2 mg/mL)
Dimethyl phthalate	(0.2 mg/mL)
Di-n-butyl phthalate	(0.2 mg/mL)
2,6-Dinitrotoluene	(0.2 mg/mL)
bis(2-Ethylhexyl)phthalate	(0.2 mg/mL)
Nitrobenzene	(0.2 mg/mL)

Base/Neutral 2
M-001E **$ 30 / 1 x 1 mL**
At stated conc. in MeOH
M-001E-D **$ 30 / 1 x 1 mL**
At stated conc. in CH_2Cl_2 15 comps.

Acenaphthene	(0.2 mg/mL)
Anthracene	(0.2 mg/mL)
Benz[a]anthracene	(0.1 mg/mL)
Chrysene	(0.1 mg/mL)
Dibenz[a,h]anthracene	(0.1 mg/mL)
1,2-Dichlorobenzene	(0.2 mg/mL)
1,3-Dichlorobenzene	(0.2 mg/mL)
Diethyl phthalate	(0.2 mg/mL)
2,4-Dinitrotoluene	(0.2 mg/mL)
Fluorene	(0.2 mg/mL)
Hexachlorobenzene	(0.2 mg/mL)
Hexachlorobutadiene	(0.2 mg/mL)
Naphthalene	(0.2 mg/mL)
bis(2-Chloroethoxy)methane	(0.2 mg/mL)
Pyrene	(0.1 mg/mL)

Base/Neutral 3
M-001F **$ 30 / 1 x 1 mL**
At stated conc. in MeOH
M-001F-D **$ 30 / 1 x 1 mL**
At stated conc. in CH_2Cl_2 11 comps.

Butyl benzyl phthalate	(0.2 mg/mL)
2-Chloronaphthalene	(0.2 mg/mL)
1,2-Diphenylhydrazine	(0.2 mg/mL)
Fluoranthene	(0.1 mg/mL)
Hexachlorocyclopentadiene	(0.2 mg/mL)
Hexachloroethane	(0.2 mg/mL)
Isophorone	(0.2 mg/mL)
N-Nitroso-*di*-*n*-propylamine	(0.2 mg/mL)
N-Nitrosodiphenylamine	(0.2 mg/mL)
Phenanthrene	(0.2 mg/mL)
1,2,4-Trichlorobenzene	(0.2 mg/mL)

Base/Neutral 4
M-001G **$ 30 / 1 x 1 mL**
At stated conc. in MeOH:CH_2Cl_2(1:1)
M-001G-D **$ 30 / 1 x 1 mL**
At stated conc. in CH_2Cl_2 9 comps.

Benzidine	(0.2 mg/mL)
Benzo[k]fluoranthene	(0.1 mg/mL)
Benzo[g,h,i]perylene	(0.1 mg/mL)
Benzo[a]pyrene	(0.1 mg/mL)
2-Chloroethyl vinyl ether	(0.2 mg/mL)
4-Chlorophenylphenyl ether	(0.2 mg/mL)
Di-*n*-octyl phthalate	(0.2 mg/mL)
Indeno[1,2,3-cd]pyrene	(0.1 mg/mL)
N-Nitrosodimethylamine	(0.2 mg/mL)

Pesticide Mixture
M-001H **$ 40 / 1 x 1 mL**
At stated conc. in MeOH 16 comps.

Aldrin	(0.1 mg/mL)
α-BHC	(0.1 mg/mL)
β-BHC	(0.1 mg/mL)
γ-BHC	(0.1 mg/mL)
δ-BHC	(0.1 mg/mL)
p,p'-DDT	(0.6 mg/mL)
p,p'-DDE	(0.2 mg/mL)
p,p'-DDD	(0.6 mg/mL)
Dieldrin	(0.2 mg/mL)
Endosulfan I	(0.2 mg/mL)
Endosulfan II	(0.2 mg/mL)
Endosulfan sulfate	(0.6 mg/mL)
Endrin	(0.2 mg/mL)
Endrin aldehyde	(0.6 mg/mL)
Heptachlor	(0.1 mg/mL)
Heptachlor epoxide	(0.1 mg/mL)

Phenol Mixture
M-001P **$ 25 / 1 x 1 mL**
At stated conc. in MeOH
M-001P-D **$ 25 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 11 comps.

4-Chloro-3-methylphenol	(2.5 mg/mL)
2-Chlorophenol	(0.5 mg/mL)
2,4-Dichlorophenol	(0.5 mg/mL)
2,4-Dimethylphenol	(0.5 mg/mL)
2,4-Dinitrophenol	(1.5 mg/mL)
2-Nitrophenol	(0.5 mg/mL)
4-Nitrophenol	(2.5 mg/mL)
2-Methyl-4,6-dinitrophenol	(2.5 mg/mL)
Pentachlorophenol	(2.5 mg/mL)
Phenol	(0.5 mg/mL)
2,4,6-Trichlorophenol	(1.5 mg/mL)

Polychlorinated Biphenyls
Each Aroclor® is a mixture of numerous comps., and considerable overlap in composition occurs between Aroclors.
Both at 0.2 mg/mL each in MeOH

Aroclor Mix 1
M-001K **$ 15 / 1 x 1 mL**

- Aroclor 1016
- Aroclor 1232
- Aroclor 1248
- Aroclor 1260

Aroclor Mix 2
M-001L **$ 15 / 1 x 1 mL**

- Aroclor 1221
- Aroclor 1242
- Aroclor 1254

Chlordane & Toxaphene
M-001J **$ 15 / 1 x 1 mL**
At stated conc. in MeOH 2 comps.

Chlordane	(0.02 mg/mL)
Toxaphene	(0.20 mg/mL)

Acrolein & Acrylonitrile
M-603 **$ 14 / 1 x 1 mL**
1.0 mg/mL each in H_2O 2 comps.

Internal Standard - Anthracene-d_{10}
M-001N **$ 20 / 1 x 1 mL**
2.0 mg/mL in CH_2Cl_2

Used as a GC/MS internal standard in the analysis of the base/neutral extractables.

M-001R **$ 15 / 1 x 1 mL**
20 mg/mL each in MeOH 3 comps.

- Bromochloromethane
- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane

Recommended for use as internal standards for purgeables.

Complete Water Standard Kit
Z-009-R-SET **$ 225 / 15 x 1 mL**
(M-001A,M-001B-2,M-001C,M-001D,M-001E,M-001F,M-001G,M-001H, M-001P,M-001K,M-001L,M-001J,M-603A,M-001N,M-001R)

- **Purgeable A**
- **Purgeable B**
- **Purgeable C (Gases)**
- **Base/Neutral 1**
- **Base/Neutral 2**
- **Base/Neutral 3**
- **Base/Neutral 4**
- **Pesticide Mixture**
- **Phenol Mixture**
- **Chlordane & Toxaphene**
- **Aroclor Mix 1**
- **Aroclor Mix 2**
- **Acrolein-Acrylonitrile**
- **Anthracene-d_{10}**
- **Internal Standard**

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Standard Mixtures for EPA 600 Series
For Waste Water

Background Information
The EPA Methods for evaluating municipal and industrial wastewater pollutants are designated in the EPA 600 Series. This Series of methods evolved from the 1976 agreement by the EPA to study and, if necessary, to regulate 65 "priority pollutants". Several laboratories within the EPA collaborated on research projects that led to the 600 Series Methods.

Methods 601-612 were first published in 1979, along with a GC/MS method for the measurement of TCDD. AccuStandard followed the expansion of the 600 series methods by formulating analytical standards for additional 600 series methods listed in the EPA book "Methods for the Determination of Nonconventional Pesticides in Municipal and Industrial Wastewater."

The 600 Series product line contains standards used in the proposed and promulgated methods for the identification and quantification of organic compounds in municipal and industrial waste water. The organic compounds listed in the various methods include volatile organic compounds (VOCs), pesticides and synthetic organic compounds (SOCs).

Detectors
Analytical techniques used in the identification and quantification of the above compounds include gas chromatography with selective detectors (PID, ELCD, ECD, FID, NPD, FPD), gas chromatography/mass spectrometry (GC/MS) and high performance liquid chromatography (HPLC). The 600 series methods typically utilize packed columns, but chromatographic conditions can be modified (i.e. incorporation of advances in technology like capillary columns) if the modifications do not decrease the accuracy or lessen the precision of the method.

Comprehensive
Complete analysis of the target compounds by these 600 Series Methods can be accomplished using the series of standards formulated by AccuStandard for each method along with the suggested internal and surrogate standards. Formulations have been developed as easy to use large core mixes containing the target compounds and as high concentration sub-mixes for combination with other formulations to meet laboratory specific analyte detection requirements.

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Method 601 Purgeable Halocarbons by Purge & Trap - GC/MS

Liquids

M-601A **$ 35 / 1 x 1 mL**
M-601A-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-601A-10X **$ 35 / 1 x 1 mL**
M-601A-10X-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
20 mg/mL each in MeOH 18 comps.

Carbon tetrachloride
Chlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
trans-1,2-Dichloroethylene
1,2-Dichloropropane
cis-1,3-Dichloropropylene *
trans-1,3-Dichloropropylene **
Methylene chloride
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Gases

M-502B **$ 25 / 1 x 1 mL**
M-502B-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-502B-10X **$ 25 / 1 x 1 mL**
M-502B-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH 6 comps.

Bromomethane
Chloromethane
Chloroethane
Dichlorodifluoromethane
Trichlorofluoromethane
Vinyl chloride

Liquid Component

M-601C **$ 10 / 1 x 1 mL**
M-601C-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-601C-10X **$ 10 / 1 x 1 mL**
M-601C-10X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
2.0 mg/mL each in MeOH

2-Chloroethylvinyl ether

Trihalomethanes

M-501 **$ 17 / 1 x 1 mL**
M-501-PAK ***SAVE 20%*** **$ 68 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-501-10X **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH 4 comps.

Bromoform
Chloroform
Dichlorobromomethane
Dibromochloromethane

Purgeable Halocarbon Sets

M-601-SET **$ 50 / 4 x 1 mL**
0.2 mg/mL each in MeOH **(M-601A, M-502B, M-601C, M-501)**
M-601-10X-SET **$ 75 / 4 x 1 mL**
2.0 mg/mL each in MeOH
(M-601A-10X,M-502B-10X,M-601C-10X,M-501-10X)

Purgeable Internal Standards

M-001R **$ 15 / 1 x 1 mL**
M-001R-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
20 mg/ml each in MeOH 3 comps.

Bromochloromethane
1,4-Dichlorobutane
2-Bromo-1-chloropropane

Purgeable Halocarbon Mix

Alternate Source

M-601-ASL **$ 40 / 1 x 1 mL**
M-601-ASL-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
100 µg/mL each in MeOH 28 comps.

Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Dichloromethane
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
Vinyl chloride

Performance Check Solution

Alternate Source

S-532-ASL **$ 25 / 1 x 1 mL**
S-532-ASL-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH 8 comps.

Benzene
Carbon tetrachloride
1,4-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethene
1,1,1-Trichloroethane
Trichloroethene
Vinyl chloride

Technical Note

2 alternate approaches to perform Method 601 analysis:

Option 1 Use of the 4 ampule set (M-601) allows you to differentiate the more volatile analytes (M-502B) or less stable analytes (M-601C) and the THMs from the stable Method 601 liquids, which can then be ordered less frequently to optimize economy.

Option 2 The M-601-ASL formulation will serve as a convenient single injection standard for all analytes other than 2-Chloroethylvinyl ether. It can also be used as a Second Source or QC Standard.

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



Method 601/602 Purgeable Halocarbons by GC/MS

Purgeable Halocarbons & Aromatics

M-601/602 **$ 45 / 1 x 1 mL**
M-601/602-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
0.2 mg/mL each in MeOH 25 comps.

- Benzene
- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorobromomethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropylene *
- trans-1,3-Dichloropropylene **
- Ethylbenzene
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethylene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Gases

M-601B **$ 25 / 1 x 1 mL**
M-601B-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH 6 comps.

- Bromomethane
- Chloromethane
- Chloroethane
- Dichlorodifluoromethane
- Trichlorofluoromethane
- Vinyl chloride

Liquids

M-601C **$ 10 / 1 x 1 mL**
M-601C-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.2 mg/mL in MeOH

- 2-Chloroethylvinyl ether

Purgeable Aromatics

M-602 **$ 20 / 1 x 1 mL**
M-602-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.2 mg/mL each in MeOH 7 comps.

- Benzene
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Toluene

Purgeable Aromatics - Gasoline ID

M-602-GAS **$ 30 / 1 x 1 mL**
M-602-GAS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-602-GAS-10X **$ 30 / 1 x 1 mL**
M-602-GAS-10X-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH 11 comps.

- Benzene
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylbenzene
- Toluene
- *o*-Xylene
- *p*-Xylene
- *m*-Xylene
- MtBE

Surrogate Standard

M-602-SS **$ 20 / 1 x 1 mL**
M-602-SS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.2 mg/mL in MeOH
M-602-SS-100X **$ 20 / 1 x 1 mL**
20 mg/mL in MeOH

- α,α,α-Trifluorotoluene

Combined 601/602 Purgeable Halocarbon & Aromatic Gasoline ID Mixture with MtBE

M-601-CHG **$ 55 / 1 x 1 mL**
M-601-CHG-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
100 µg/mL each in MeOH 35 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *trans*-1,2-Dichloroethene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Dichloromethane
- Ethylbenzene
- MtBE
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- *m*-Xylene
- *o*-Xylene
- *p*-Xylene
- Vinyl chloride

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Technical Note

AccuStandard designed two sets of formulations for those laboratories analyzing Method 601/602 analytes by PID/HALL in series allowing for simultaneous screening for gasoline contamination:

M-601/602 The first set of formulations provide the analytical chemist with the method analytes in a core mix of liquids and a separate mix of the more volatile gases. By providing the six gases in a separate solution the chemist can replace the volatile gases on a more frequent basis.

M-601-CHG The second formulation has the Method 601/602 analytes plus the oxygenate MtBE in one convenient solution. Since the oxygenate MtBE is added to gasoline, its presence on a chromatogram can provide early detection of gasoline contamination at the monitoring well.

Target Analytes

M-601/602/BTEX **$ 50 / 1 x 1 mL**
0.2 mg/mL each in MeOH
M-601/602/BTEX-10X **$ 60 / 1 x 1 mL**
2.0 mg/mL each in MeOH 26 comps.

- Benzene
- Carbon tetrachloride
- Chlorobenzene
- Ethylbenzene
- Methyl-t-butyl ether
- Methylene chloride
- Tetrachloroethene
- Toluene
- Trichloroethene
- cis-1,3-Dichloropropene
- cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- trans-1,3-Dichloropropene
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- o-Xylene
- m-Xylene
- p-Xylene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene

Gasoline Oxygenate - MtBE

S-078 **$ 10 / 1 x 1 mL**
200 µg/mL in MeOH
S-078-10X **$ 12 / 1 x 1 mL**
2.0 mg/mL in MeOH

- Methyl t-butyl ether (*MtBE*)

EPA Method 600 Series

Method 603 Acrolein & Acrylonitrile by GC/FID

M-603 — **$ 14 / 1 x 1 mL**
M-603-PAK — *SAVE 20%* **$ 56 / 5 x 1 mL**
1.0 mg/mL each in Water — 2 comps.
M-603-10X — **$ 17 / 1 x 1 mL**
10 mg/mL each in Water — 2 comps.
M-603-M-0.1X ❄ — **$ 25 / 1 x 1 mL**
0.1 mg/mL each in MeOH:Water 90:10 — 2 comps.
M-603-M-5X ❄ — **$ 30 / 1 x 1 mL**
5.0 mg/mL each in MeOH:Water 90:10 — 2 comps.

Acrolein
Acrylonitrile

Method 604 Phenols by GC/FID

M-604 — **$ 25 / 1 x 1 mL**
M-604-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
0.5 mg/mL each in MeOH — 11 comps.

4-Chloro-3-methylphenol
2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2-Methyl-4,6-dinitrophenol
2-Nitrophenol
4-Nitrophenol
Pentachlorophenol
Phenol
2,4,6-Trichlorophenol

Surrogate Standard

M-604-SS — **$ 20 / 1 x 1 mL**
M-604-SS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
0.2 mg/mL each in MeOH

2,4,6-Tribromophenol

Phenol as Pentafluorobenzyl Derivatives by GC/ECD

M-604-PFB — **$ 65 / 1 x 1 mL**
M-604-PFB-PAK — *SAVE 20%* **$ 260 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 11 comps.

4-Chloro-3-methylphenol
2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
2-Methyl-4,6-dinitrophenol
2-Nitrophenol
4-Nitrophenol
Pentachlorophenol
Phenol
2,4,6-Trichlorophenol

Surrogate Standard

M-604-SS-PFB — **$ 20 / 1 x 1 mL**
M-604-SS-PFB-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
0.2 mg/mL each in MeOH

2,4,6-Tribromophenol-PFB

Method 605 Benzidines by HPLC

M-605-10X — **$ 25 / 1 x 1 mL**
M-605-10X-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
1.0 mg/mL each in MeOH — 2 comps.

Benzidine
3,3'-Dichlorobenzidine

Method 606 Phthalate Esters by GC/ECD

M-606 — **$ 20 / 1 x 1 mL**
M-606-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 6 comps.

Benzyl butyl phthalate
Dimethyl phthalate
Diethyl phthalate
Di-*n*-butyl phthalate
Di-*n*-octyl phthalate
bis(2-Ethylhexyl)phthalate

Method 607 Nitrosamines by GC/NPD

M-607 — **$ 18 / 1 x 1 mL**
M-607-PAK — *SAVE 20%* **$ 72 / 5 x 1 mL**
At stated conc. in MeOH — 3 comps.

N-Nitrosodimethylamine	(0.2 mg/mL)
N-Nitrosodiphenylamine	(0.4 mg/mL)
N-Nitrosodi-*n*-propylamine	(0.2 mg/mL)

Method 608 Pesticides and PCBs by GC/ECD

Pesticides and PCBs Set

M-608-SET — **$ 60 / 4 x 1 mL**
(M-001H, M-001J, M-001K, M-001L)

M-001H — **$ 40 / 1 x 1 mL**
At stated conc. in MeOH — 16 comps.

Aldrin	(0.1 mg/mL)	Dieldrin	(0.2 mg/mL)
α-BHC	(0.1 mg/mL)	Endosulfan I	(0.2 mg/mL)
β-BHC	(0.1 mg/mL)	Endosulfan II	(0.2 mg/mL)
δ-BHC	(0.1 mg/mL)	Endosulfan sulfate	(0.6 mg/mL)
γ-BHC	(0.1 mg/mL)	Endrin	(0.2 mg/mL)
4,4'-DDD	(0.6 mg/mL)	Endrin aldehyde	(0.6 mg/mL)
4,4'-DDE	(0.2 mg/mL)	Heptachlor	(0.1 mg/mL)
4,4'-DDT	(0.6 mg/mL)	Heptachlor epoxide	(0.1 mg/mL)

M-001J — **$ 15 / 1 x 1 mL**
At stated conc. in MeOH — 2 comps.

Chlordane (0.02 mg/mL)
Toxaphene (0.20 mg/mL)

M-001K — **$ 15 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.

Aroclor 1016
Aroclor 1232
Aroclor 1248
Aroclor 1260

M-001L — **$ 15 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 3 comps.

Aroclor 1221
Aroclor 1242
Aroclor 1254

Performance Check Solution

M-608-QC ❄ — **$ 50 / 1 x 1 mL**
M-608-QC-PAK ❄ — *SAVE 20%* **$ 200 / 5 x 1 mL**
At stated conc. in MeOH — 17 comps.

Aldrin	(0.02 mg/mL)	Endosulfan I	(0.02 mg/mL)
α-BHC	(0.02 mg/mL)	Endosulfan II	(0.10 mg/mL)
β-BHC	(0.02 mg/mL)	Endosulfan sulfate	(0.10 mg/mL)
δ-BHC	(0.02 mg/mL)	Endrin	(0.10 mg/mL)
γ-BHC	(0.02 mg/mL)	Endrin aldehyde	(0.02 mg/mL)
4,4'-DDD	(0.10 mg/mL)	Heptachlor	(0.02 mg/mL)
4,4'-DDE	(0.02 mg/mL)	Heptachlor epoxide	(0.02 mg/mL)
4,4'-DDT	(0.10 mg/mL)	Methoxychlor	(0.02 mg/mL)
Dieldrin	(0.02 mg/mL)		

Pesticides

Alternate Source

M-608-ASL — **$ 50 / 1 x 1 mL**
M-608-ASL-PAK — *SAVE 20%* **$ 200 / 5 x 1 mL**
20 µg/mL each in MeOH — 16 comps.

Aldrin	γ-BHC	Dieldrin	Endrin
α-BHC	p,p'-DDD	Endosulfan I	Endrin aldehyde
β-BHC	p,p'-DDE	Endosulfan II	Heptachlor
δ-BHC	p,p'-DDT	Endosulfan sulfate	Heptachlor epoxide (Isomer B)

Technical Mix Analytes - Aroclors (Polychlorinated Biphenyls)

Each at 1,000 µg/mL in Hexane

AccuPAK™ *(5 x 1 mL)*
SAVE 20%

Aroclors #	Cat. No.	1 mL	Cat. No.	PAK
Aroclor 1016	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H-10X	20	C-268S-H-10X-PAK	80

❄ A ColdPAK is required.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

EPA Method 600 Series

Method 608.1 & 608.2 Organochlorine Pesticides in Municipal & Industrial Wastewater by GC/ECD

M-608.1 **$ 35 / 1 x 1 mL**
M-608.1-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
100 µg/mL each in Isooctane 7 comps.

Chlorobenzilate	Etridiazole
Chloroneb	PCNB
Chloropropylate	Propachlor
Dibromochloropropane	

M-608.2 **$ 35 / 1 x 1 mL**
M-608.2-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
100 µg/mL each in Isooctane 6 comps.

Chlorothalonil	Methoxychlor
DCPA	*cis*-Permethrin *
Dichloram	*trans*-Permethrin *

*** Actual concentrations stated on Certificate of Product Data**

Method 609 Nitroaromatics & Isophorone by GC/ECD/FID

M-609R-SET **$ 20 / 2 x 1 mL (M-609A-R, M-609B-R)**

M-609A-R **$ 15 / 1 x 1 mL**
1.0 mg/mL each in Hexane 2 comps.

Isophorone	Nitrobenzene

M-609B-R **$ 15 / 1 x 1 mL**
1.0 mg/mL each in Hexane 2 comps.

2,4-Dinitrotoluene	2,6-Dinitrotoluene

Performance Check Solution

M-609-QC **$ 20 / 1 x 1 mL**
At stated conc. in Acetone 4 comps.

Isophorone	(100 µg/mL)	2,4-Dinitrotoluene	(20 µg/mL)
Nitrobenzene	(100 µg/mL)	2,6-Dinitrotoluene	(20 µg/mL)

Method 610 PAHs by GC/FID or HPLC

M-610 **$ 30 / 1 x 1 mL**
At stated conc. in MeOH:CH_2Cl_2 (1:1) 16 comps.
M-610A **$ 35 / 1 x 1 mL**
At stated conc. in MeOH:CH_2Cl_2 (1:1) 16 comps.
M-610-QC **$ 35 / 1 x 1 mL**
At stated conc in AcCN 16 comps.

Compound	M-610 (mg/mL)	M-610A (mg/mL)	M-610-QC (mg/mL)
Acenaphthene	0.1	1.0	0.1
Acenaphthylene	0.1	2.0	0.1
Anthracene	0.1	0.1	0.1
Benzo[a]anthracene	0.1	0.1	0.01
Benzo[a]pyrene	0.1	0.1	0.01
Benzo[b]fluoranthene	0.1	0.2	0.01
Benzo[g,h,i]perylene	0.1	0.2	0.01
Benzo[k]fluoranthene	0.1	0.1	0.005
Chrysene	0.1	0.1	0.01
Dibenz[a,h]anthracene	0.1	0.2	0.01
Fluoranthene	0.1	0.2	0.01
Fluorene	0.1	0.2	0.1
Indeno[1,2,3-cd]pyrene	0.1	0.1	0.01
Naphthalene	0.1	1.0	0.1
Phenanthrene	0.1	0.1	0.1
Pyrene	0.1	0.1	0.01

Matrix Spiking Solution

M-610-MS **$ 30 / 1 x 1 mL**
M-610-MS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in AcCN 6 comps.

Benz[a]pyrene	(0.5 mg/mL)	2-Methylnaphthalene	(5.0 mg/mL)
Chrysene	(0.5 mg/mL)	Phenanthrene	(0.5 mg/mL)
1-Methylnaphthalene	(5.0 mg/mL)	Pyrene	(0.5 mg/mL)

Method 611 Haloethers by GC/ECD or ECLD

M-611 **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH 5 comps.

bis(2-Chloroethyl) ether	4-Bromophenyl phenyl ether
bis(2-Chloroethoxy)methane	4-Chlorophenyl phenyl ether
bis(2-Chloro-1-methylethyl) ether	

Method 612 Chlorinated Hydrocarbons by GC/ECD

M-612 **$ 25 / 1 x 1 mL**
At stated conc. in Isooctane 9 comps.

2-Chloronaphthalene	(400 µg/mL)	Hexachlorobutadiene	(1 µg/mL)
1,2-Dichlorobenzene	(200 µg/mL)	Hexachloroethane	(1 µg/mL)
1,3-Dichlorobenzene	(200 µg/mL)	Hexachlorocyclopentadiene	(1 µg/mL)
1,4-Dichlorobenzene	(400 µg/mL)	1,2,4-Trichlorobenzene	(40 µg/mL)
Hexachlorobenzene	(1 µg/mL)		

Method 613 2,3,7,8-TCDD by GC/MS

M-613 **$ 40 / 1 x 1 mL**
M-613-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
10 µg/mL in Toluene

2,3,7,8-Tetrachlorodibenzo-*p*-dioxin

Method 614 & 614.1 Organophosphorus Pesticides by GC/NPD

M-614 **$ 30 / 1 x 1 mL**
1,000 µg/mL each in Acetone:Hexane (1:1) 8 comps.

Azinphos methyl	Ethion
Demeton (mix of O & S isomers)	Malathion
Diazinon	Parathion
Disulfoton	Parathion methyl

M-614.1 **$ 30 / 1 x 1 mL**
1,000 µg/mL each in Acetone:Hexane (1:1) 4 comps.

Dioxathion	Ethion
EPN	Terbufos

M-614.1-ASL Alternate Source **$ 46 / 1 x 1 mL**
At stated conc. in Hexane 4 comps.

Dioxathion (10 µg/mL)	Ethion (100 µg/mL)
EPN (200 µg/mL)	Terbufos (4 µg/mL)

For additional formulations also see Method 8310

EPA Method 600 Series

Method 615 Chlorinated Herbicides

Chlorinated Herbicides

Each at 0.2 mg/mL *	Herbicide Acids In MeOH	Methyl Derivatives In Hexane	1 mL
Compound	**Cat. No.**	**Cat. No.**	**Price**
2,4-D	M-8150S-A-01	M-8150-01	$ 15
2,4-DB	M-8150S-A-02	M-8150-02	15
2,4,5-T	M-8150S-A-03	M-8150-03	15
2,4,5-TP	M-8150S-A-04	M-8150-04	15
Dalapon	M-8150S-A-05	M-8150-05	15
Dicamba	M-8150S-A-06	M-8150-06	15
Dichlorprop	M-8150S-A-07	M-8150-07	15
Dinoseb	M-8150S-A-08	M-8150-08	15
MCPA (2.0 mg/mL) *	M-8150S-A-09	M-8150-09	15
MCPP (2.0 mg/mL) *	M-8150S-A-10	M-8150-10	15
Set of 10 x 1 mL	**M-8150A-SET**	**M-8150-SET**	**$ 125**

Each Solution at 0.2 mg/mL, * except MCPA & MCPP — Above analytes

Underivatized

M-8150A — **$ 40 / 1 x 1 mL**
0.1 mg/mL in MEOH, except MCPA and MCPP — 10 comps.

2,4-D
Dalapon
2,4-DB
Dicamba
Dichlorprop
Dinoseb
MCPA (10 mg/mL)
MCPP (10 mg/mL)
2,4,5-TP
2,4,5-T

Methyl Derivatives

M-8150 — **$ 45 / 1 x 1 mL**
0.1 mg/mL in MEOH, except MCPA and MCPP — 10 comps.

2,4-D
Dalapon
2,4-DB
Dicamba
Dichlorprop
Dinoseb
MCPA (10 mg/mL)
MCPP (10 mg/mL)
2,4,5-TP
2,4,5-T

Method 617 Chlorinated Pesticides & PCBs by GC/ECD

Mix #1 - Analytes

Z-014C-R2 — **$ 85 / 1 x 1 mL**
Z-014C-R2-PAK — ***SAVE 20%*** **$ 340 / 5 x 1 mL**
2.0 mg/mL each in Hexane : Toluene (1:1) — 18 comps.

Aldrin
α-BHC
β-BHC
γ-BHC
δ-BHC
4,4'-DDD
4,4'-DDE
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulphate
Endrin
Endrin ketone
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Methoxychlor

Mix #2 - Analytes

M-617-2 — **$ 45 / 1 x 1 mL**
2.0 mg/mL each in Hexane : Toluene (1:1) — 9 comps.

Captan
Carbophenothion
Dichloran
Dicofol
Isodrin
Mirex
PCNB
Perthane
Trifluralin

Chlordane

P-017S-20X — **$ 24 / 1 x 1 mL**
2.0 mg/mL in MeOH

Toxaphene

P-093S-40X — **$ 24 / 1 x 1 mL**
4.0 mg/mL in MeOH

Method 618 Volatile Pesticides by GC/ECD

Volatile Pesticides

M-618 — **$ 20 / 1 x 1 mL**
20 mg/mL each in Isooctane — 2 comps.

Chloropicrin
Ethylene dibromide

Internal Standard

M-618-IS — **$ 10 / 1 x 1 mL**
20 mg/mL in Isooctane

Bromoform

Method 619 Triazine Herbicides by GC/NPD

Triazine Herbicides

Each at 0.1 mg/mL in MeOH

Compound	Cat. No.	1 mL	Compound	Cat. No.	1 mL
Ametryn	M-619-01	$ 12	Secbumeton	M-619-07	$ 22
Atraton	M-619-02	22	Simetryn	M-619-08	22
Atrazine	M-619-03	12	Simazine	M-619-09	12
Prometon	M-619-04	12	Terbuthylazine	M-619-10	32
Prometryn	M-619-05	12	Terbutryn	M-619-11	12
Propazine	M-619-06	12			

M-619-SET — **$ 130 / 11 x 1 mL**
Each at 0.1 mg/mL in MeOH — Above 11 compounds
M-619M — **$ 85 / 1 x 1 mL**
0.1 mg/mL each in MeOH — Above 11 compounds

Method 620 Diphenylamine by GC/NPD

Diphenylamine

M-620 ❄ — **$ 15 / 1 x 1 mL**
1000 µg/mL each in MeOH

Diphenylamine

Method 622 Organophosphorus Pesticides by GC/NPD

Organophosphorus Pesticides

M-622-SET — **$ 390 / 27 x 1 mL**
1000 µg/mL each in Hexane

Azinphos methyl (01)
Bolstar *(Sulprofos)* (02)
Chlorpyrifos (03)
Coumaphos (04)
Demeton, O & S (05)
Diazinon (06)
Dichlorvos (07)
Dimethoate (08)
Disulfoton (09)
EPN (10)
Ethoprop (11)
Fensulfothion (12)
Fenthion (13)
Malathion (14)
Merphos (15)
Mevinphos (16)
Monocrotophos (17)
Naled (18)
Parathion ethyl (19)
Parathion methyl (20)
Phorate (21)
Ronnel (22)
Stirophos (23)
Sulfotep (24)
TEPP (25)
Tokuthion (26)
Trichloronate (27)

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a ColdPAK.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 622.1 Thiophosphate Pesticides by GC/NPD

Thiophosphate Pesticides

M-622.1 — **$ 40 / 1 x 1 mL**
1.0 mg/mL each in MtBE — 7 comps.

- Aspon
- Dichlofenthion
- Famphur
- Fenitrothion
- Fonophos
- Phosmet
- Thionazin

Method 624 Purgeables by GC/MS

Purgeables

M-624 — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 31 comps.

- Benzene
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- 2-Chloroethylvinyl ether
- Chloroform
- Chloromethane
- Dibromochloromethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *trans*-1,2-Dichloroethene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethylbenzene
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- Vinyl chloride

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Surrogates

Each at 0.2 mg/mL in MeOH

Component	Cat. No.	Price / 1 mL
Benzene-d_6	M-624-SS-01	$ 20
Bromochloromethane	M-624-SS-02	20
4-Bromofluorobenzene	M-624-SS-03	10
1-Chloro-2-bromopropane	M-624-SS-04	10
1,4-Dichlorobutane	M-624-SS-05	10
1,2-Dichloroethane-d_4	M-624-SS-06	20
1,4-Difluorobenzene	M-624-SS-07	10
Ethylbenzene-d_{10}	M-624-SS-08	20
Fluorobenzene	M-624-SS-09	10
Pentafluorobenzene	M-624-SS-10	10
1,2-Dichlorobenzene-d_4	M-624-SS-11	20
2-Bromochlorobenzene	M-624-SS-12	10
4-Chlorofluorobenzene	M-624-SS-13	10
a,a,a-Trichlorotoluene	M-624-SS-14	10

Surrogate Standards

M-624-SS-M — **$ 25 / 1 x 1 mL**
M-624-SS-M-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
20 mg/mL each in MeOH — 3 comps.

- 4-Bromofluorobenzene
- Fluorobenzene
- Pentafluorobenzene

Internal Standard

M-001R — **$ 15 / 1 x 1 mL**
M-001R-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
20 mg/mL each in MeOH — 3 comps.

- Bromochloromethane
- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane

Tens of thousands of Standards Ready-to-Ship



Method 625 Semi-Volatiles Analysis by GC/MS

The following composite mixtures were formulated to allow the flexibility of preparing a complete semi-volatile mix to meet your laboratory's specific needs. These Base/Neutral analytes are also available in a two-ampule set to extend the useful life of your stock calibration standards.

M-625-BN — **$ 55 / 1 x 1 mL**
M-625-BN-PAK — ***SAVE 20%*** **$ 220 / 5 x 1 mL**
0.1 mg/mL each in CH_2Cl_2 — 44 Base-Neutrals and 2 Benzidines

M-625-BN-5X — **$ 115 / 1 x 1 mL**
M-625-BN-5X-PAK — ***SAVE 20%*** **$ 460 / 5 x 1 mL**
0.5 mg/mL each in CH_2Cl_2 — 44 Base-Neutrals and 2 Benzidines

CLP-HC-BN — **$ 150 / 1 x 1 mL**
CLP-HC-BN-PAK — ***SAVE 20%*** **$ 600 / 5 x 1 mL**
2.0 mg/mL each in Benzene : CH_2Cl_2 : AcCN (2:2:1) — 44 Base-Neutrals and 2 Benzidines

CLP-HC-BN-SET — **$ 190 / 2 x 1 mL**
CLP-HC-BN-SET-PAK — ***SAVE 20%*** **$ 760 / 5 x (2 x 1 mL)**
CLP-HC-BN-R & Z-014F

Base-Neutral Analytes (44 comps.)

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- Dibenz[a,h]anthracene
- Di-*n*-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno[1,2,3-*cd*]pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene

Benzidine Analytes (2 comps.)

- Benzidine
- 3,3'-Dichlorobenzidine

Base-Neutral Mix

CLP-HC-BN-R — **$ 160 / 1 x 1 mL**
2.0 mg/mL each in Benzene : CH_2Cl_2 : AcCN (2:2:1) — 44 comps.
CLP-HC-BN-R-PAK — ***SAVE 20%*** **$ 640 / 5 x 1 mL**
2.0 mg/mL each in Benzene : CH_2Cl_2 : AcCN (2:2:1) — 44 comps.

Benzidine Analytes (2 comps.)

Z-014F — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

Method 625 Modification Standard

M-625-MOD — **$ 50 / 1 x 1 mL**
M-625-MOD-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 — 17 comps.

- Acetophenone
- Aniline
- Benzoic acid
- Carbazole
- *p*-Cresol
- *o*-Cresol
- 2,3-Dichloroaniline
- *n*-Decane
- *n*-Docosane
- *n*-Dodecane
- *n*-Eicosane
- *n*-Hexadecane
- 1-Methylphenanthrene
- *n*-Octadecane
- Pyridine
- *a*-Terpineol
- *n*-Tetradecane

Daily QA/QC Standards

M-625-BN-1 — **$ 25 / 1 x 1 mL**
M-625-BN-1-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.5 mg/mL each in CH_2Cl_2 — 12 comps.

- Acenaphthylene
- Benzo[b]fluoranthene
- 4-Bromophenylphenyl ether
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 1,4-Dichlorobenzene
- 3,3'-Dichlorobenzidine
- Dimethyl phthalate
- Di-*n*-butyl phthalate
- 2,6-Dinitrotoluene
- bis(2-Ethylhexyl)phthalate
- Nitrobenzene

M-625-BN-2 — **$ 25 / 1 x 1 mL**
M-625-BN-2-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.5 mg/mL each in CH_2Cl_2 — 15 comps.

- Acenaphthene
- Anthracene
- Benz[a]anthracene
- bis(2-Chloroethoxy)methane
- Chrysene
- Dibenz[a,h]anthracene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- Diethyl phthalate
- 2,4-Dinitrotoluene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Naphthalene
- Pyrene

M-625-BN-3 — **$ 25 / 1 x 1 mL**
M-625-BN-3-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.5 mg/mL each in CH_2Cl_2 — 11 comps.

- Azobenzene
- Benzyl butyl phthalate
- 2-Chloronaphthalene
- Fluoranthene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Isophorone
- N-Nitrosodi-*n*-propylamine
- N-Nitrosodiphenylamine
- Phenanthrene
- 1,2,4-Trichlorobenzene

M-625-BN-4 — **$ 25 / 1 x 1 mL**
M-625-BN-4-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.5 mg/mL each in CH_2Cl_2 — 8 comps.

- Benzidine
- Benzo[a]pyrene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- 4-Chlorophenylphenyl ether
- Di-*n*-octyl phthalate
- Indeno[1,2,3-cd]pyrene
- N-Nitrosodimethylamine

Technical Note

The above 4 standards can be combined for use in daily QA/QC, as a second source lot or as spiking and duplicates.

High Concentration Acid Extractables Phenol Mix

Z-014H — **$ 30 / 1 x 1 mL**
Z-014H-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 11 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Method 625 Semi-Volatiles Analysis by GC/MS (Continued)

Acid Extractables Mixture

M-625A **$ 25 / 1 x 1 mL**
M-625A-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
20 µg/mL each in MeOH 11 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 4,6-Dinitro-2-methylphenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Single Component Surrogates & Internal Standards

Base/Neutrals

Individual solutions at 0.2 mg/mL in CH_2Cl_2

Component	Cat. No.	1 mL
Aniline-d_5	M-625-01	$ 20
Anthracene-d_{10}	M-625-02	20
Benz[a]anthracene-d_{12}	M-625-03	20
Decafluorobiphenyl	M-625-04	20
4,4'-Dibromobiphenyl	M-625-05	20
4,4'-Dibromooctafluorobiphenyl	M-625-06	20
2,2'-Difluorobiphenyl	M-625-07	20
4-Fluoroaniline	M-625-08	20
2-Fluorobiphenyl	M-625-09	20
1-Fluoronaphthalene	M-625-10	20
2-Fluoronaphthalene	M-625-11	20
Naphthalene-d_8	M-625-12	20
Nitrobenzene-d_5	M-625-13	20
Phenanthrene-d_{10}	M-625-14	20
Pyridine-d_5	M-625-15	20

Acids

Individual solution at 0.2 mg/mL in CH_2Cl_2

Component	Cat. No.	1 mL
2-Fluorophenol	M-625-16	$ 20
Pentafluorophenol	M-625-17	20
Phenol-d_5	M-625-18	20
2,4,6-Tribromophenol	M-625-19	20
2-Chlorophenol-d_4	M-625-20	20

Pesticide Extractables Mixture

M-625P **$ 35 / 1 x 1 mL**
M-625P-PAK *SAVE 20%* **$ 140 / 5 x 1 mL**
20 µg/mL each in MeOH 11 comps.

- Aldrin
- β-BHC
- δ-BHC
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endosulfan sulfate
- Endrin aldehyde
- Heptachlor
- Heptachlor epoxide

GC/MS Calibration Standards

M-625C-SET **$ 80 / set of 5 x 1 mL**
5 solutions each at stated conc. in CH_2Cl_2

Component	Cat. No.	1 mL
Benzidine (50 µg/mL)	M-625C-1	$ 20
Pentachlorophenol (25 µg/mL)	M-625C-2	20
Decafluorotriphenylphosphine (DFTPP) (25 µg/mL)	M-625C-3	20
Benzidine (50 µg/mL) + DFTPP (25 µg/mL)	M-625C-4	20
Pentachlorophenol(25 µg/mL) + DFTPP(25 µg/mL)	M-625C-5	20

GC/MS Tuning Standards

M-625-TS **$ 40 / 1 x 1 mL**
M-625-TS-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
50 µg/mL each in CH_2Cl_2 4 comps.
M-625-TS-20X **$ 40 / 1 x 1 mL**
M-625-TS-20X-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2 4 comps.

- Benzidine
- p,p'-DDT
- DFTPP
- Pentachlorophenol

CLP-TS **$ 20 / 1 x 1 mL**
CLP-TS-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
50 µg/mL in CH_2Cl_2

- Perfluorokerosene

Multi-Component Analytes (Polychlorinated Biphenyls, Chlordane & Toxaphene)

Each at 1,000 µg/mL in Hexane

Aroclors #	Cat. No.	1 mL	AccuPAK™ (5 x 1 mL) SAVE 20% Cat. No.	PAK
Aroclor 1016	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H-10X	20	C-268S-H-10X-PAK	80
Pesticides				
Chlordane	P-017S-H-10X	$ 15	P-017S-H-10X-PAK	$ 60
Toxaphene	P-093S-H-10X	15	P-093S-H-10X-PAK	60

Chlordane and Toxaphene

M-001J **$ 15 / 1 x 1 mL**
M-001J-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
At stated conc. in MeOH 2 comps.

- Chlordane (0.02 mg/mL)
- Toxaphene (0.20 mg/mL)

Polychlorinated Biphenyls

Aroclor Mix #1

M-001K **$ 15 / 1 x 1 mL**
0.2 mg/mL each in MeOH 4 comps.

- Aroclor 1016
- Aroclor 1232
- Aroclor 1248
- Aroclor 1260

Aroclor Mix #2

M-001L **$ 15 / 1 x 1 mL**
0.2 mg/mL each in MeOH 3 comps.

- Aroclor 1221
- Aroclor 1242
- Aroclor 1254

Internal Standard Mix

Z-014J **$ 80 / 1 x 1 mL**
Z-014J-PAK *SAVE 37%* **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Method 625 Priority Pollutant Standards

The EPA procedures call for fused silica capillary column analysis of priority pollutants. AccuStandard has assembled the following mixtures to be used in calibrating this analytical system. These mixtures are highly concentrated to aid in the establishment of response factors.

Base/Neutrals - Mix #1

Z-014A **$ 50 / 1 x 1 mL**
Z-014A-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 14 comps.

- 4-Bromophenylphenyl ether
- Butyl benzyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 4-Chlorophenylphenyl ether
- Diethyl phthalate
- Dimethyl phthalate
- Di-*n*-butyl phthalate
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- N-Nitrosodimethylamine
- N-Nitrosodi-*n*-propylamine
- N-Nitrosodiphenylamine

Base/Neutrals - Mix #2

Z-014B **$ 50 / 1 x 1 mL**
Z-014B-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 14 comps.

- Azobenzene
- 2-Chloronaphthalene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Isophorone
- Nitrobenzene
- 1,2,4-Trichlorobenzene

Toxic Substances - Mix #1

Z-014D **$ 25 / 1 x 1 mL**
Z-014D-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 4 comps.

- Benzoic acid
- 2-Methylphenol
- 4-Methylphenol
- 2,4,5-Trichlorophenol

Toxic Substances - Mix #2

Z-014E **$ 30 / 1 x 1 mL**
Z-014E-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 8 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline

Benzidine Mix

Z-014F **$ 30 / 1 x 1 mL**
Z-014F-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH 2 comps.

- Benzidine
- 3,3'-Dichlorobenzidine

PAH Mix

Z-014G **$ 65 / 1 x 1 mL**
Z-014G-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) 16 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PAH Mix

Z-014G-R **$ 65 / 1 x 1 mL**
Z-014G-R-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) 17 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Carbazole
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

Phenols Mix

Z-014H **$ 30 / 1 x 1 mL**
Z-014H-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 11 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

Internal Standard Mix

Z-014J **$ 80 / 1 x 1 mL**
Z-014J-PAK ***SAVE 38%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Method 625 Priority Pollutant Set

Order a complete Set Save 25%

Z-014R-SET $ 350 / set of 9 x 1 mL

Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014C	Pesticides - Mix #1
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances -Mix #2
Z-014F	Benzidine Mix
Z-014G-R	PAH Mix
Z-014H	Phenols Mix
Z-014J	Internal Standard Mix

Z-014R-1-SET $ 350 / set of 9 x 1 mL

Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014C-R	Pesticides - Mix #2
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G-R	PAH Mix
Z-014H	Phenols Mix
Z-014J	Internal Standard Mix

Z-014R-2-SET $ 230 / set of 7 x 1 mL

Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G	PAH Mix
Z-014H	Phenols Mix

Z-014R-3-SET $ 230 / set of 7 x 1 mL

Set includes:

Z-014A	Base/Neutrals - Mix #1
Z-014B	Base/Neutrals - Mix #2
Z-014D	Toxic Substances - Mix #1
Z-014E	Toxic Substances - Mix #2
Z-014F	Benzidine Mix
Z-014G-R	PAH Mix
Z-014H	Phenols Mix

Method 625 (continued) Priority Pollutant Standards

Pesticides - Mix #1

Z-014C **$ 75 / 1 x 1 mL**
Z-014C-PAK ***SAVE 20%*** **$ 300 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1) 16 comps.

Aldrin	4,4'-DDE	Endosulfan sulfate
α-BHC	4,4'-DDT	Endrin
β-BHC	Dieldrin	Endrin aldehyde
γ-BHC	Endosulfan I	Heptachlor
δ-BHC	Endosulfan II	Heptachlor epoxide
4,4'-DDD		

Pesticides - Mix #2

Z-014C-R **$ 95 / 1 x 1 mL**
Z-014C-R-PAK ***SAVE 20%*** **$ 380 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1) 20 comps.

Aldrin	4,4'-DDD	Endrin
α-BHC	4,4'-DDE	Endrin aldehyde
β-BHC	4,4'-DDT	Endrin ketone
γ-BHC	Dieldrin	Heptachlor
δ-BHC	Endosulfan I	Heptachlor epoxide
α-Chlordane	Endosulfan II	Methoxychlor
γ-Chlordane	Endosulfan sulfate	

Pesticides - Mix #3

Z-014C-R2 **$ 85 / 1 x 1 mL**
Z-014C-R2-PAK ***SAVE 20%*** **$ 340 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1) 18 comps.

Aldrin	4,4'-DDE	Endrin
α-BHC	4,4'-DDT	Endrin aldehyde
β-BHC	Dieldrin	Endrin ketone
γ-BHC	Endosulfan I	Heptachlor
δ-BHC	Endosulfan II	Heptachlor epoxide
4,4'-DDD	Endosulfan sulfate	Methoxychlor

Tuning Standards

M-625-TS **$ 40 / 1 x 1 mL**
M-625-TS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
50 µg/mL each in CH_2Cl_2 4 comps.

Benzidine	DFTPP
p,p'-DDT	Pentachlorophenol

CLP-TS **$ 20 / 1 x 1 mL**
CLP-TS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
50 µg/mL in CH_2Cl_2

Perfluorokerosene

EPA Method 625 GC/MS Calibration Standards

M-625C-SET **$ 80 / set of 5 x 1 mL**
5 solutions each at stated conc. in CH_2Cl_2

Compound	Cat. No.	Price
Benzidine (50 µg/mL)	M-625C-1	$ 20
Pentachlorophenol (25 µg/mL)	M-625C-2	20
Decafluorotriphenylphosphine *(DFTPP)* (25 µg/mL)	M-625C-3	20
Benzidine (50 µg/mL) + DFTPP (25 µg/mL)	M-625C-4	20
Pentachlorophenol (25 µg/mL) + DFTPP(25 µg/mL)	M-625C-5	20

Method 627 Dinitroaniline Pesticides by GC/ECD

Dinitroaniline Pesticide Mixes

M-627 **$ 30 / 1 x 1 mL**
1.0 mg/mL each in MeOH 4 comps.

Ethalfluralin	Tolban *(Profluralin)*
Paarlan *(Isopropalin)*	Trifluralin

M-627-R **$ 30 / 1 x 1 mL**
1.0 mg/mL each in MeOH 5 comps.

Benfluralin	Tolban *(Profluralin)*
Ethalfluralin	Trifluralin
Paarlan *(Isopropalin)*	

Method 632 Carbamates & Urea Pesticides in Waste Water by HPLC

Carbamates & Urea Pesticides in Waste Water

M-632-SET **$ 200 / set of 21 x 1 mL**
Individual Solutions, in 0.1 mg/mL in AcCN
M-632M **$ 125 / 1 x 1 mL**
Mixture containing the 21 analytes @ 0.1 mg/mL each in AcCN
M-632M-10X **$ 150 / 1 x 1 mL**
Mixture containing the 21 analytes @ 1.0 mg/mL each in AcCN

	Cat. No.	Price		Cat. No.	Price
Aminocarb	M-632-01	$ 12	Methomyl	M-632-12	$ 12
Barban	M-632-02	12	Mexacarbate	M-632-13	12
Carbaryl	M-632-03	12	Monuron	M-632-14	12
Carbofuran	M-632-04	12	Monuron-TCA	M-632-15	12
Chlorpropham	M-632-05	12	Neburon	M-632-16	12
Diuron	M-632-06	12	Oxamyl	M-632-17	12
Fenuron	M-632-07	12	Propham	M-632-18	12
Fenuron-TCA	M-632-08	12	Propoxur	M-632-19	12
Fluometuron	M-632-09	12	Siduron	M-632-20	12
Linuron	M-632-10	12	Swep	M-632-21	12
Methiocarb	M-632-11	12			

Method 632.1 Carbamates & Amides in Waste Water by HPLC

Carbamates & Amides in Waste Water

M-632.1-SET **$ 35 / set of 4 x 1 mL**
Each in 0.1 mg/mL in AcCN

Vacor	M-632.1-1	$ 12	Napropamide	M-632.1-3	$ 12
Propanil	M-632.1-2	12	Carbaryl	M-632.1-4	12

Method 633 Organonitrogen Pesticides by GC/NPD

Organonitrogen Pesticides Mix

M-633 **$ 30 / 1 x 1 mL**
0.1 mg/mL each in MeOH 6 comps.

Bromacil	Hexazinone	Terbacil
Deet	Metribuzin	Triadimefon

Method 634 Thiocarbamate Pesticides by GC/NPD

Thiocarbamate Pesticides Mix

M-634 **$ 45 / 1 x 1 mL**
1.0 mg/mL each in MeOH 6 comps.

Butylate	EPTC	Pebulate
Cycloate	Molinate	Vernolate

Internal Standard

M-634-IS **$ 15 / 1 x 1 mL**
1.0 mg/mL in MeOH

Carbazole

EPA Method 600 Series

Method 645 Amino Pesticides & Lethane by GC/NPD

Amino Pesticides Mix

M-645 **$ 45 / 1 x 1 mL**
1.0 mg/mL each in Hexane 6 comps.

Alachlor	Diphenamid	Lethane
Butachlor	Fluridone	Norflurazon

HPLC 600's Additional Methods for Pesticides in Waste Water by HPLC

Method	Solutions at 0.1 mg/mL in AcCN	Cat. No.	Price
604.1	Hexachlorophene & Dichlorophene	M-604.1	$ 20
629	Cyanazine	M-629	20
631	Carbendazim	M-631	20
635	Rotenone	M-635	20
636	Bensulide	M-636	32
638	Oryzalin	M-638	20

Method	Solutions at 0.1 mg/mL in AcCN	Cat. No.	Price
639	Bendiocarb	M-639	$ 20
640	Mercaptobenzothiazole	M-640	20
641	Thiabendazole	M-641	20
642	Biphenyl & *o*-Phenylphenol	M-642	20
643	Bentazon *(Basagran)*	M-643	20
644	Picloram	M-644	20

Method 680 Determination of Pesticides & PCBs in Water & Soil/Sediment by GC/MS

PCB Isomer Calibration Mix

M-680A **$ 45 / 1 x 1 mL**
At stated conc. in Hexane 9 comps.

2-Chlorobiphenyl	(50 µg/mL)
2,3-Dichlorobiphenyl	(50 µg/mL)
2,4,5-Trichlorobiphenyl	(50 µg/mL)
2,2',4,6-Tetrachlorobiphenyl	(100 µg/mL)
2,2',3,4,5'-Pentachlorobiphenyl	(100 µg/mL)
2,2',4,4',5,6'-Hexachlorobiphenyl	(100 µg/mL)
2,2',3,4',5,6,6'-Heptachlorobiphenyl	(150 µg/mL)
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	(150 µg/mL)
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(250 µg/mL)

Internal Standard

M-680B **$ 15 / 1 x 1 mL**
250 µg/mL in Toluene

Chrysene-d_{12}

Method 680 PCB Isomer Calibration Set

M-680-SET **$ 45 / 2 x 1 mL (M-680A, M-680B)**

The EPA has designated the following isomers for use in quantifying PCB's by GC/MS. The PCBs are identified and measured as isomer groups (i.e., by level of chlorination). A concentration is measured for each PCB isomer group; total PCB concentration in each sample extract is obtained by summing isomer group concentrations.

Level of Chlorination	Isomer Selected	Congener Number	RF Value vs. Chrysene-d_{12}	Mean RF Value vs. Chrysene-d_{12}
1	2-mono	1	0.899	0.925
2	2,3-di	5	0.651	0.642
3	2,4,5-tri	29	0.411	0.411
4	2,2',4,6-tetra	50	0.305	0.431
5	2,2',3,4,5'-penta	87	0.299	0.287
6	2,2',4,4',5,6'-hexa	154	0.254	0.254
7	2,2',3,4',5,6,6'-hepta	188	0.164	0.160
8	2,2',3,3',4,5',6,6'-octa	201	0.207	0.191
9,10	2,2',3,3',4,4',5,5',6,6'-deca	209	0.144	0.150

Pesticide Mix

M-680P **$ 65 / 1 x 1 mL**
M-680P-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
At stated conc. in Toluene : Hexane (1:1) 22 comps.

Aldrin	(1,000 µg/mL)	Endosulfan I	(2,000 µg/mL)
α-BHC	(1,000 µg/mL)	Endosulfan II	(2,000 µg/mL)
β-BHC	(1,000 µg/mL)	Endosulfan sulfate	(1,000 µg/mL)
γ-BHC	(1,000 µg/mL)	Endrin	(1,000 µg/mL)
δ-BHC	(1,000 µg/mL)	Endrin aldehyde	(1,000 µg/mL)
α-Chlordane	(1,000 µg/mL)	Endrin ketone	(1,000 µg/mL)
γ-Chlordane	(1,000 µg/mL)	Heptachlor	(1,000 µg/mL)
4,4'-DDD	(1,000 µg/mL)	Heptachlor epoxide (Isomer B)	(1,000 µg/mL)
4,4'-DDE	(1,000 µg/mL)	Methoxychlor	(1,000 µg/mL)
4,4'-DDT	(1,000 µg/mL)	*cis*-Nonachlor	(1,000 µg/mL)
Dieldrin	(1,000 µg/mL)	*trans*-Nonachlor	(1,000 µg/mL)

Pesticide Mid-Level Check

M-680P-MLC **$ 65 / 1 x 1 mL**
M-680P-MLC-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
At stated conc. Toluene : Hexane (1:1) 21 comps.

Aldrin	(1,000 µg/mL)	Endosulfan I	(2,000 µg/mL)
α-BHC	(1,000 µg/mL)	Endosulfan II	(2,000 µg/mL)
β-BHC	(1,000 µg/mL)	Endosulfan sulfate	(1,000 µg/mL)
γ-BHC	(1,000 µg/mL)	Endrin	(1,000 µg/mL)
δ-BHC	(1,000 µg/mL)	Endrin ketone	(1,000 µg/mL)
α-Chlordane	(1,000 µg/mL)	Heptachlor	(1,000 µg/mL)
γ-Chlordane	(1,000 µg/mL)	Heptachlor epoxide (Isomer B)	(1,000 µg/mL)
4,4'-DDD	(1,000 µg/mL)	Methoxychlor	(1,000 µg/mL)
4,4'-DDE	(1,000 µg/mL)	*cis*-Nonachlor	(1,000 µg/mL)
4,4'-DDT	(1,000 µg/mL)	*trans*-Nonachlor	(1,000 µg/mL)
Dieldrin	(1,000 µg/mL)		

Retention Time Calibration Standard

M-680-RT **$ 25 / 1 x 1 mL**
M-680-RT-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in Hexane 3 comps.

3,3',4,4'-Tetrachlorobiphenyl (100 µg/mL)
2,2',4,6,6'-Pentachlorobiphenyl (100 µg/mL)
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (200 µg/mL)

Internal Standard

M-680-IS **$ 15 / 1 x 1 mL**
M-680-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
75 µg/mL each in Toluene : Hexane (1:1) 2 comps.
M-680-IS-10X **$ 25 / 1 x 1 mL**
M-680-IS-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
750 µg/mL each in Hexane : CH_2Cl_2 (1:1) 2 comps.

Chrysene-d_{12} Phenanthrene-d_{10}

Tuning Standard

M-680-TS **$ 10 / 1 x 1 mL**
M-680-TS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
10 µg/mL in CH_2Cl_2

Decafluorotriphenylphosphine *(DFTPP)*

Technical Note

Method 680[1] - EPA-PCB Isomer Calibration Kit
The EPA has designated 3,3',4,4'-Tetrachlorobiphenyl (#77), 2,2',4,6,6'-Pentachlorobiphenyl (#104), & 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (BZ# 208) for use in quantifying PCB's by GC/MS. All response factors are calculated using Chrysene-d_{12}, which is also included in the kit.

(1) Determination of Pesticides and PCBs in Water and Soil Sediment by GC/MS. Method 680 EMSL/EPA Cincinnati, Ohio by Ann Alford Stevens, Thomas A. Bellar, James W. Eichelberger and William L. Budde.

Method 1311 Toxicity Characteristic Leaching Procedure (TCLP)

Volatile Spiking Mixture

TCLP-VOC — **$ 30 / 1 x 1 mL**
5.0 mg/mL each in MeOH, except 2-Butanone — 11 comps.

- Benzene
- 2-Butanone *(10 mg/mL)*
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- Tetrachloroethene
- Trichloroethene
- Vinyl chloride

Semi-Volatile Spiking Mix

TCLP-BNA — **$ 50 / 1 x 1 mL**
TCLP-BNA-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 13 comps.

- *o*-Cresol
- *m*-Cresol
- *p*-Cresol
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- Nitrobenzene
- Pentachlorophenol
- Pyridine
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Semi-Volatile Spiking Set

TCLP-BNA-SET — **$ 50 / set of 2 x 1 mL** (**TCLP-A** and **TCLP-BN**)

TCLP-A — **$ 25 / 1 x 1 mL**
TCLP-A-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 6 comps.

- *o*-Cresol
- *m*-Cresol
- *p*-Cresol
- Pentachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

TCLP-BN — **$ 25 / 1 x 1 mL**
TCLP-BN-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in Acetone — 7 comps.

- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- Nitrobenzene
- Pyridine

AccuLabel™ 2-Part Label System

(used on organic products in ampules)
Smudgeproof, tear and solvent resistant *
Kimdura® labels

Accuracy and Convenience

One part duplicates required information for labeling transfer vials with correct information such as catalog number, lot number, expiration date and proper storage conditions.

Second part can be placed into a laboratory journal to document the standard used for the analysis. This label section includes the information described above, and documents AccuStandard as the manufacturer.

* Includes the most common solvents: Methylene chloride, Methanol and Acetone



Pesticide Spiking Mix

TCLP-PES — **$ 50 / 1 x 1 mL**
TCLP-PES-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in MeOH, except Toxaphene — 7 comps.

- Chlordane
- Endrin
- Heptachlor
- Heptachlor epoxide
- Lindane
- Methoxychlor
- Toxaphene (4.0 mg/mL)

Pesticide Spiking Set

TCLP-PES-1/2-SET — **$ 50 / set of 2 x 1 mL** (**CLP-PES-1** and **TCLP-PES-2**)

TCLP-PES-1 — **$ 35 / 1 x 1 mL**
TCLP-PES-1-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 5 comps.

- Endrin
- Heptachlor
- Heptachlor epoxide
- Lindane
- Methoxychlor

TCLP-PES-2 — **$ 20 / 1 x 1 mL**
TCLP-PES-2-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
At stated conc. in MeOH — 2 comps.

- Chlordane (2.0 mg/mL)
- Toxaphene (4.0 mg/mL)

Herbicide, PFB Derivative Mix

TCLP-HERB-PFB — **$ 40 / 1 x 1 mL**
0.1 mg/mL each in MtBE — 2 comps.

- 2,4-D-PFB
- 2,4,5-TP-PFB

Herbicide, PFB Derivatives

M-8150-02-PFB — **$ 30 / 1 x 1 mL**
0.1 mg/mL in MtBE

- 2,4-D-PFB

M-8150-04-PFB — **$ 30 / 1 x 1 mL**
0.1 mg/mL in MtBE

- 2,4,5-TP-PFB

Herbicide Spiking Mixes

TCLP-HERB — **$ 20 / 1 x 1 mL**
TCLP-HERB-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 2,4-D
- 2,4,5-TP

TCLP-HERB-ME — **$ 20 / 1 x 1 mL**
TCLP-HERB-ME-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 2,4-D, Me
- 2,4,5-TP, Me

Method 1311 TCLP and 1312 Synthetic Leaching Procedure on next page



EPA Method 1311, 1312

Method 1311 TCLP Regulatory Level Mixtures

Volatiles

TCLP-QC ❄ **$ 40 / 1 x 1 mL**
TCLP-QC-PAK ❄ ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated conc. in MeOH 10 comps.

Benzene	(5 µg/mL)	1,2-Dichloroethane	(5 µg/mL)
2-Butanone	(2000 µg/mL)	1,1-Dichloroethene	(7 µg/mL)
Carbon tetrachloride	(5 µg/mL)	Tetrachloroethene	(7 µg/mL)
Chlorobenzene	(1000 µg/mL)	Trichloroethene	(5 µg/mL)
Chloroform	(60 µg/mL)	Vinyl chloride	(2 µg/mL)

Pesticides

TCLP-PES-1/2-QC-SET **$ 50 / set of 2 x 1 mL**
(includes **TCLP-PEST-1-QC** & **TCLP-PEST-2-QC**)

TCLP-PES-1-QC **$ 35 / 1 x 1 mL**
TCLP-PES-1-QC-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
At stated conc. in MeOH 5 comps.

Endrin	(0.2 µg/mL)	Lindane	(4.0 µg/mL)
Heptachlor	(0.4 µg/mL)	Methoxychlor	(100 µg/mL)
Heptachlor epoxide	(0.04 µg/mL)		

TCLP-PES-2-QC **$ 20 / 1 x 1 mL**
TCLP-PES-2-QC-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
At stated conc. in MeOH 2 comps.

Chlordane (0.3 µg/mL) Toxaphene (5.0 µg/mL)

Semi-Volatiles

TCLP-BNA-QC **$ 60 / 1 x 1 mL**
At stated conc. in CH_2Cl_2 13 comps.

o-Cresol	(2000 µg/mL)	Hexachloroethane	(30 µg/mL)
m-Cresol	(2000 µg/mL)	Nitrobenzene	(20 µg/mL)
p-Cresol	(2000 µg/mL)	Pentachlorophenol	(1000 µg/mL)
1,4-Dichlorobenzene	(75 µg/mL)	Pyridine	(50 µg/mL)
2,4-Dinitrotoluene	(1.3 µg/mL)	2,4,5-Trichlorophenol	(4000 µg/mL)
Hexachlorobenzene	(1.3 µg/mL)	2,4,6-Trichlorophenol	(20 µg/mL)
Hexachlorobutadiene	(5 µg/mL)		

Herbicides

TCLP-HERB-ME-QC **$ 20 / 1 x 1 mL**
TCLP-HERB-ME-QC-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
At stated conc. in MeOH 2 comps.

	Concentration as Methyl Derivative	**as Acid**
2,4-D, ME	(106.3 µg/mL)	(100 µg/mL)
2,4,5-TP, ME	(10.5 µg/mL)	(10 µg/mL)

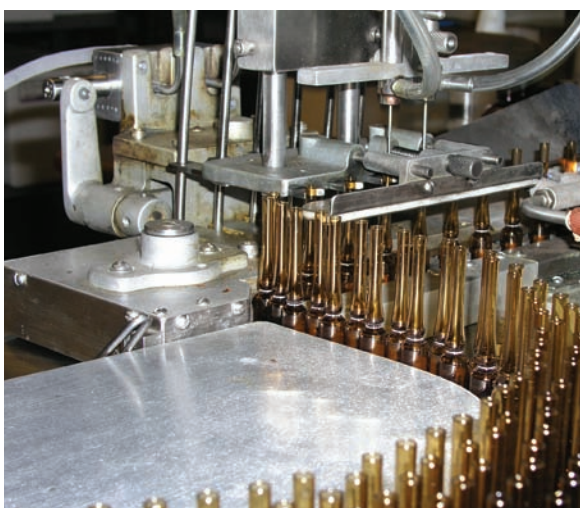
❄ A ColdPAK is required.

Method 1312 Synthetic Leaching Procedure

Semi-Volatiles

TCLP-BNA-1312 **$ 50 / 1 x 1 mL**
TCLP-BNA-1312-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 14 comps.

Acenaphthene	2,4-Dinitrophenol
β-BHC	2,4-Dinitrotoluene
γ-BHC	*o*-Cresol
bis-2-Chloroethyl ether	2,4-Dimethylphenol
2-Chlorophenol	Hexachlorobenzene
1,2-Dichlorobenzene	Hexachlorobutadiene
1,4-Dichlorobenzene	Nitrobenzene



EPA Method 1600 Series
Dioxins and Furans



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Method 1613 Dioxins & Furans by HRGC/HRMS

Precision and Recovery Standard

M-1613-PAR Bold (-04) — **$ 525 / 1 x 1 mL**
M-1613-PAR-PAK — **$ 2,100 / 5 x 1 mL**
All units in ng/mL in Nonane — 17 comps.

M-1613-CAL	-01	-02	-03	-04	-05
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.5	2	10	**40**	200
2,3,7,8-Tetrachlorodibenzofuran	0.5	2	10	**40**	200
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,7,8-Pentachlorodibenzofuran	2.5	10	50	**200**	1000
2,3,4,7,8-Pentachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,4,7,8-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,6,7,8-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,7,8,9-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
2,3,4,6,7,8-Hexachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	2.5	10	50	**200**	1000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,7,8,9-Heptachlorodibenzofuran	2.5	10	50	**200**	1000
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	5	20	100	**400**	2000
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	5	20	100	**400**	2000

Technical Note

Native Solutions of the USEPA Method 1613 analytes can also be used for USEPA Method 23, 8280, 8290, EU Method EN-1948 and Japanese Methods JIS-K0311 and JIS-K0312.

2,3,7,8 Isomers only Mix

This solution is for those labs only determining the concentration of the two most toxic isomers.

M-1613-DF — **$ 75 / 1 x 1 mL**
40 ng/mL each in Nonane — 2 comps.

2,3,7,8-Tetrachlorodibenzo-p-dioxin
2,3,7,8-Tetrachlorodibenzofuran

Calibration Set

M-1613-CAL-SET (-01,-02,-03,-04,-05) — **$ 2,100 / 5 x 1 mL**
All in ng/mL in Nonane — 17 comps.



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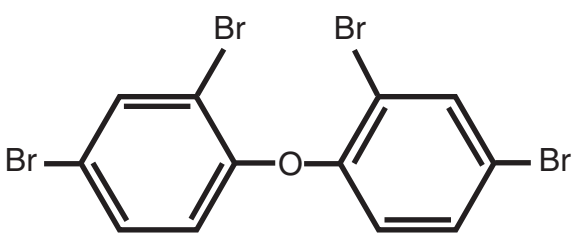
Method 1614 Bromodiphenyl Ether Mixtures

Responding to the need for the analysis of polybrominated diphenyl ether (PBDE) congeners, the EPA has developed Method 1614. Method 1614 is recommended for analysis of aqueous, solid, tissue, and multi-phase environmental samples. AccuStandard has the largest offering of synthesized PBDEs - see Flame Retardant section for complete listing.

PBDEs Standard Solution for Accuracy & Precision

At stated conc. in Isooctane — 39 comps.

	BDE-AAP-A $ 195 / 1 mL ng/mL	BDE-AAP-A-15X $ 750 / 1 mL µg/mL
2-Bromodiphenyl ether (#1)	100	1.5
3-Bromodiphenyl ether (#2)	100	1.5
4-Bromodiphenyl ether (#3)	100	1.5
2,4-Dibromodiphenyl ether (#7)	100	1.5
2,4'-Dibromodiphenyl ether (#8)	100	1.5
2,6-Dibromodiphenyl ether (#10)	100	1.5
3,3'-Dibromodiphenyl ether (#11)	100	1.5
3,4-Dibromodiphenyl ether (#12)	100	1.5
3,4'-Dibromodiphenyl ether (#13)	100	1.5
4,4'-Dibromodiphenyl ether (#15)	100	1.5
2,2',4-Tribromodiphenyl ether (#17)	100	1.5
2,3',4-Tribromodiphenyl ether (#25)	100	1.5
2,4,4'-Tribromodiphenyl ether (#28)	100	1.5
2,4,6-Tribromodiphenyl ether (#30)	100	1.5
2,4',6-Tribromodiphenyl ether (#32)	100	1.5
2',3,4-Tribromodiphenyl ether (#33)	100	1.5
3,3',4-Tribromodiphenyl ether (#35)	100	1.5
3,4,4'-Tribromodiphenyl ether (#37)	100	1.5
2,2',4,4'-Tetrabromodiphenyl ether (#47)	100	1.5
2,2',4,5'-Tetrabromodiphenyl ether (#49)	100	1.5
2,3',4,4'-Tetrabromodiphenyl ether (#66)	100	1.5
2,3',4',6-Tetrabromodiphenyl ether (#71)	100	1.5
2,4,4',6-Tetrabromodiphenyl ether (#75)	100	1.5
3,3',4,4'-Tetrabromodiphenyl ether (#77)	100	1.5
2,2',3,4,4'-Pentabromodiphenyl ether (#85)	150	2.25
2,2',4,4',5-Pentabromodiphenyl ether (#99)	150	2.25
2,2',4,4',6-Pentabromodiphenyl ether (#100)	150	2.25
2,3,4,5,6-Pentabromodiphenyl ether (#116)	150	2.25
2,3',4,4',5-Pentabromodiphenyl ether (#118)	150	2.25
2,3',4,4',6-Pentabromodiphenyl ether (#119)	150	2.25
3,3',4,4',5-Pentabromodiphenyl ether (#126)	150	2.25
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)	200	3.0
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	200	3.0
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	200	3.0
2,2',4,4',6,6'-Hexabromodiphenyl ether (#155)	200	3.0
2,3,4,4',5,6-Hexabromodiphenyl ether (#166)	200	3.0
2,2',3,4,4',5,6-Heptabromodiphenyl ether (#181)	250	3.75
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	250	3.75
2,3,3',4,4',5,6-Heptabromodiphenyl ether (#190)	250	3.75



Commonly Occurring PBDE Congeners for Precision and Recovery

BDE-COC — **$ 600 / 1 x 1 mL**

At stated conc. in Isooctane — 14 comps.

	µg/mL
2,2',4-Tribromodiphenyl ether (#17)	5
2,4,4'-Tribromodiphenyl ether (#28)	5
2,2',4,4'-Tetrabromodiphenyl ether (#47)	5
2,3',4,4'-Tetrabromodiphenyl ether (#66)	5
2,3',4',6-Tetrabromodiphenyl ether (#71)	5
2,2',3,4,4'-Pentabromodiphenyl ether (#85)	5
2,2',4,4',5-Pentabromodiphenyl ether (#99)	5
2,2',4,4',6-Pentabromodiphenyl ether (#100)	5
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)	5
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	5
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	5
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	5
2,3,3',4,4',5,6-Heptabromodiphenyl ether (#190)	5
Decabromodiphenyl ether (#209)	25

PBDE Congeners of Primary Interest

BDE-CSM — **$ 225 / 1 x 1 mL**

At stated conc. in Isooctane:Toluene — 8 comps.

	µg/mL
2,4,4'-Tribromodiphenyl ether (#28)	20
2,2',4,4'-Tetrabromodiphenyl ether (#47)	20
2,2',4,4',5-Pentabromodiphenyl ether (#99)	20
2,2',4,4',6-Pentabromodiphenyl ether (#100)	20
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	20
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	20
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	20
Decabromodiphenyl ether (#209)	200

Calibration Mix

BDE-CM — **$ 65 / 1 x 1 mL**

At stated conc. in Isooctane — 8 comps.

Matrix Spiking Solution

BDE-MS — **$ 40 / 1 x 1 mL**

At stated conc. in Isooctane — 8 comps.

	BDE-CM µg/mL	BDE-MS ng/mL
2,4,4'-Tribromodiphenyl ether (#28)	2.5	1
2,2',4,4'-Tetrabromodiphenyl ether (#47)	2.5	1
2,2',4,4',5-Pentabromodiphenyl ether (#99)	2.5	1
2,2',4,4',6-Pentabromodiphenyl ether (#100)	2.5	1
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	2.5	1
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	2.5	1
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	2.5	1
Decabromodiphenyl ether (#209)	25	10

Method 1618 Organo-halide, Organo-phosphorus Pesticides and Phenoxyacid Herbicides by Wide Bore Capillary Column GC

Method 1618 was developed by the Industrial Technology Division (ITD) within the United States Environmental Protection Agency's (US EPA) Office of Water Regulations and Standards (OWRS) to provide improved precision and accuracy of analysis of pollutants in aqueous and solid matrices in order to determine the level of these pollutants in industrial discharges. Method 1618 is used with wide bore GC columns to analyze for organo-halide and organo-phosphorus pesticides, phenoxy-acid herbicides and herbicide esters, polychlorinated biphenyls (PCBs) and other compounds amenable to extraction and analysis by wide bore capillary column gas chromatography with halogen-specific and organo-phosphorus detectors.

The chemical compounds in the AccuStandard mixtures that follow may be determined in waters, soils, sediments and sludges by this method. The method is a consolidation of EPA Methods 608, 608.1, 614, 615, 617, 622 and 701.

Organochlorine Pesticides

M-1618-1 **$ 75 / 1 x 1 mL**
M-1618-1-PAK *SAVE 20%* **$ 300 / 5 x 1 mL**
At stated conc. in Isooctane 14 comps.

Aldrin	(100 ng/mL)	Endosulfan II	(200 ng/mL)
Captan	(200 ng/mL)	Endrin aldehyde	(100 ng/mL)
Chlorobenzilate	(500 ng/mL)	Heptachlor	(100 ng/mL)
Diallate	(250 ng/mL)	Heptachlor epoxide	(100 ng/mL)
p,p'-DDE	(200 ng/mL)	Lindane	(100 ng/mL)
p,p'-DDT	(200 ng/mL)	Methoxychlor	(200 ng/mL)
Endosulfan I	(200 ng/mL)	Isodrin	(100 ng/mL)

M-1618-2 **$ 75 / 1 x 1 mL**
At stated conc. in Isooctane 16 comps.

α-BHC	(100 ng/mL)	Dichlone	(100 ng/mL)
β-BHC	(100 ng/mL)	Dieldrin	(100 ng/mL)
δ-BHC	(100 ng/mL)	Endrin	(100 ng/mL)
α-Chlordane	(100 ng/mL)	Endosulfan sulfate	(100 ng/mL)
γ-Chlordane	(100 ng/mL)	Endrin ketone	(100 ng/mL)
Carbophenothion	(1000 ng/mL)	Mirex	(100 ng/mL)
Captafol	(200 ng/mL)	PCNB	(100 ng/mL)
p,p'-DDD	(100 ng/mL)	Trifluralin	(200 ng/mL)

Organophosphate Pesticides

M-1618-3 **$ 90 / 1 x 1 mL**
At stated conc. in Isooctane 19 comps.

Azinphos methyl	(100 ng/mL)	Merphos	(200 ng/mL)
Coumaphos	(50 ng/mL)	Methyl parathion	(100 ng/mL)
Diazinon	(100 ng/mL)	Malathion	(100 ng/mL)
Dichlorvos	(50 ng/mL)	Phorate	(100 ng/mL)
Dimethoate	(100 ng/mL)	Ronnel	(100 ng/mL)
EPN	(100 ng/mL)	Sulprofos	(50 ng/mL)
Ethyl parathion	(100 ng/mL)	Terbufos	(100 ng/mL)
Ethoprop	(100 ng/mL)	Tetrachlorvinphos	(100 ng/mL)
Ethyl azinphos	(100 ng/mL)	Trichlorofon	(100 ng/mL)
Fensulfothion	(200 ng/mL)		

M-1618-4 **$ 90 / 1 x 1 mL**
At stated conc. in Isooctane 16 comps.

Chlorfenvinphos	(50 ng/mL)	Ethion	(100 ng/mL)
Chlorpyrifos	(50 ng/mL)	Famphur	(200 ng/mL)
Chlorpyrifos methyl	(100 ng/mL)	Fenthion	(100 ng/mL)
Crotoxyphos	(200 ng/mL)	Leptophos	(100 ng/mL)
Dichlorofenthion	(100 ng/mL)	Mevinphos	(100 ng/mL)
Demeton	(400 ng/mL)	Naled	(100 ng/mL)
Dioxathion	(600 ng/mL)	Phosmet	(200 ng/mL)
Disulfoton	(100 ng/mL)	Sulfotep	(50 ng/mL)

Phenoxyacid Herbicides

M-8150M **$ 40 / 1 x 1 mL**
M-8150M-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
20 µg/mL each in Hexane 8 comps.

2,4-D	Dalapon
2,4-DB	Dicamba
2,4,5-T	Dichlorprop
2,4,5-TP	Dinoseb

M-8150M-2 **$ 15 / 1 x 1 mL**
M-8150M-2-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
2.0 mg/mL in Hexane 2 comps.

MCPA	MCPP

Surrogate Standards

Organochlorine Pesticide

M-1618-SS **$ 15 / 1 x 1 mL**
M-1618-SS-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
2 µg/mL in Acetone

Dibutylchlorendate

Organophosphate Pesticide

M-1618-SP **$ 20 / 1 x 1 mL**
2 µg/mL each in Acetone 2 comps.

Tributyl phosphate	Triphenyl phosphate

Phenoxyacid Herbicide

M-1618-SA **$ 10 / 1 x 1 mL**
2 µg/mL in Acetone

2,4-Dichlorophenyl acetic acid

Decomposition Solution

M-1618D ❄ **$ 15 / 1 x 1 mL**
M-1618D-PAK ❄ *SAVE 20%* **$ 60 / 5 x 1 mL**
At stated conc. in Acetone 2 comps.

p,p'-DDT (2.0 µg/mL)	Endrin (1.0 µg/mL)

GPC Calibration Solution

M-1618-GP-5ML **$ 35 / 1 x 5 mL**
At stated conc. in Acetone 5 comps.

Corn oil	(300.0 mg/mL)	Perylene	(0.1 mg/mL)
bis(2-Ethylhexyl)phthalate	(15.0 mg/mL)	Sulfur	(0.5 mg/mL)
Pentachlorophenol	(1.4 mg/mL)		

SPE Cartridge Calibration Solution

M-1618-SE **$ 10 / 1 x 1 mL**
M-1618-SE-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
0.1 µg/mL in Acetone

2,4,6-Trichlorophenol

❄ A ColdPAK is required.

EPA Method 1600 Series
Chlorinated Phenolics and Pesticides

Method 1653 Chlorinated Phenolics in Pulp and Paper Effluents

Method 1653 is designed to determine Chlorinated Phenolics (chlorinated phenols, guaiacols, catechols, vanillins, syringaldehydes) and other compounds in wastewater amenable to in-situ acetylation and analysis by GC/MS.

M-1653A-D-R-SET — **$ 250 / set of 4 x 1 mL** (set includes **M-1653A**, **B**, **C**, **D-AC**)

M-1653A — **$ 25 / 1 x 1 mL**
M-1653A-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
0.1 mg/mL each in MeOH — 7 comps.

- 4-Chlorophenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,3,4,6-Tetrachlorophenol
- Pentachlorophenol

M-1653B — **$ 125 / 1 x 1 mL**
0.1 mg/mL each in MeOH — 8 comps.

- 4-Chloroguaiacol
- 3,4-Dichloroguaiacol
- 4,5-Dichloroguaiacol
- 4,6-Dichloroguaiacol
- 3,4,5-Trichloroguaiacol
- 3,4,6-Trichloroguaiacol
- 4,5,6-Trichloroguaiacol
- Tetrachloroguaiacol

M-1653C — **$ 95 / 1 x 1 mL**
0.1 mg/mL each in MeOH — 7 comps.

- 4-Chlorocatechol
- 3,4-Dichlorocatechol
- 3,6-Dichlorocatechol
- 4,5-Dichlorocatechol
- 3,4,5-Trichlorocatechol
- 3,4,6-Trichlorocatechol
- Tetrachlorocatechol

M-1653D-AC — **$ 65 / 1 x 1 mL**
0.1 mg/mL each in Acetone — 6 comps.

- 5-Chlorovanillin
- 6-Chlorovanillin
- 5,6-Dichlorovanillin
- 2-Chlorosyringaldehyde
- 2,6-Dichlorosyringaldehyde
- Trichlorosyringol

Internal Standard

M-1653-IS — **$ 35 / 1 x 1 mL**
1.0 mg/mL in MeOH
M-1653-IS-R — **$ 35 / 1 x 1 mL**
1.0 mg/mL in Acetone

- 3,4,5-Trichlorophenol

Instrument Internal Standard

M-1653-IIS — **$ 20 / 1 x 1 mL**
1.0 mg/mL in MeOH
M-1653-IIS-R — **$ 20 / 1 x 1 mL**
5.0 mg/mL in Acetone

- 2,2'-Difluorobiphenyl

M-1653A-D-R2-SET — **$ 250 / set of 4 x 1 mL** (set includes **M-1653A-R**, **B-R**, **C-R**, **D-R**)

M-1653A-R — **$ 25 / 1 x 1 mL**
At stated conc. in Acetone — 7 comps.

4-Chlorophenol	(25 µg/mL)	2,4,6-Trichlorophenol	(50 µg/mL)
2,4-Dichlorophenol	(50 µg/mL)	2,3,4,6-Tetrachlorophenol	(50 µg/mL)
2,6-Dichlorophenol	(50 µg/mL)	Pentachlorophenol	(100 µg/mL)
2,4,5-Trichlorophenol	(50 µg/mL)		

M-1653B-R — **$ 125 / 1 x 1 mL**
At stated conc. in Acetone — 8 comps.

4-Chloroguaiacol	(25 µg/mL)	3,4,5-Trichloroguaiacol	(50 µg/mL)
3,4-Dichloroguaiacol	(50 µg/mL)	3,4,6-Trichloroguaiacol	(50 µg/mL)
4,5-Dichloroguaiacol	(50 µg/mL)	4,5,6-Trichloroguaiacol	(50 µg/mL)
4,6-Dichloroguaiacol	(50 µg/mL)	Tetrachloroguaiacol	(100 µg/mL)

M-1653C-R — **$ 95 / 1 x 1 mL**
At stated conc. in Acetone — 7 comps.

4-Chlorocatechol	(25 µg/mL)	3,4,5-Trichlorocatechol	(100 µg/mL)
3,4-Dichlorocatechol	(50 µg/mL)	3,4,6-Trichlorocatechol	(100 µg/mL)
3,6-Dichlorocatechol	(50 µg/mL)	Tetrachlorocatechol	(100 µg/mL)
4,5-Dichlorocatechol	(50 µg/mL)		

M-1653D-R — **$ 65 / 1 x 1 mL**
At stated conc. in Acetone — 6 comps.

5-Chlorovanillin	(50 µg/mL)	2-Chlorosyringaldehyde	(50 µg/mL)
6-Chlorovanillin	(50 µg/mL)	2,6-Dichlorosyringaldehyde	(100 µg/mL)
5,6-Dichlorovanillin	(100 µg/mL)	Trichlorosyringol	(50 µg/mL)

US EPA Pulp, Paper & Paperboard Cluster Rule

M-PAPCLUS — **$ 30 / 1 x 1 mL**
M-PAPCLUS-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
0.1 mg/mL each in Water — 4 comps.

- Methanol
- Acetaldehyde
- Propionaldehyde
- Methyl ethyl ketone

Instrument Performance Check Solution

M-1653-TS — **$ 20 / 1 x 1 mL**
50 µg/mL in Acetone

- DFTPP

Method 1656 Organo-Halide Pesticides in Municipal & Industrial Wastewater by HSD

Method 1656 is a consolidation of several EPA wastewater methods used to determine the organo-halide pesticides and polychlorinated biphenyls (PCBs) associated with the Clean Water Act, the Resource Conservation and Recovery Act, and the Comprehensive Environmental Response, Compensation and Liability Act; and other compounds amenable to extraction and analysis by wide-bore capillary column GC with a HSD.

GPC Calibration Solution

M-1600-GPC-5ML — **$ 35 / 1 x 5 mL**
At stated conc. in CH_2Cl_2 — 5 comps.

Corn oil	(300 mg/mL)	Perylene	(0.1 mg/mL)
bis(2-Ethylhexyl)phthalate	(15 mg/mL)	Sulfur	(0.5 mg/mL)
Pentachlorophenol	(1.4 mg/mL)		

Solid-phase Extraction Cartridge Calibration Solution

M-1600-SPE — **$ 10 / 1 x 1 mL**
0.1 mg/mL in Acetone

- 2,4,6-Trichlorophenol

Decomposition Test Solution

M-1656-DS — **$ 25 / 1 x 1 mL**
At stated conc. in Isooctane — 2 comps.

- 4,4'-DDT (2 µg/mL)
- Endrin (1 µg/mL)

Surrogate Spiking Solutions

CLP-PES-A — **$ 15 / 1 x 1 mL**
0.2 mg/mL in Acetone

- Dibutylchlorendate

CLP-032-R — **$ 15 / 1 x 1 mL**
0.2 mg/mL each in Acetone — 2 comps.

- Decachlorobiphenyl
- Tetrachloro-*m*-xylene

CLP-034 — **$ 15 / 1 x 1 mL**
0.2 mg/mL each in Acetone — 2 comps.

- Dibutylchlorendate
- Tetrachloro-*m*-xylene

Method 1656 (continued) Calibration Solutions & Suggested Calibration Groups

M-1656-CAL-SET — **$ 360 / 7 x (3 x 1 mL)** (contains all 7 calibration groups at respective low, medium and high ranges)

Calibration Group 1

M-1656-01-CAL-SET — **$ 75 / 3 x 1 mL**
All solutions in Isooctane — 14 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Acephate	2,000	10,000	40,000
Alachlor	20	100	400
Atrazine	1,000	5,000	20,000
β-BHC	10	50	200
Bromoxynil octanoate	50	250	1,000
Captafol	200	1,000	4,000
Diallate	200	1,000	4,000
Decachlorobiphenyl	10	50	200
Endosulfan sulfate	10	50	200
Endrin	20	100	400
Isodrin	10	50	200
Pendimethalin	50	250	1,000
Permethrin *(cis & trans)*	*200	1,000	4,000
Tetrachloro-*m*-xylene	5	25	100

*** Actual isomer concentration is stated on certificate of product data**

Calibration Group 2

M-1656-02-CAL-SET — **$ 60 / 3 x 1 mL**
All solutions in Isooctane — 11 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
α-BHC	5	25	100
DCPA	5	25	100
4,4'-DDE	10	50	200
4,4'-DDT	10	50	200
Decachlorobiphenyl	10	50	200
Dichlone	20	100	400
Ethalfluralin	10	50	200
Fenarimol	20	100	400
Methoxychlor	20	100	400
Metribuzin	10	50	200
Tetrachloro-*m*-xylene	5	25	100

Calibration Group 3

M-1656-03-CAL-SET — **$ 60 / 3 x 1 mL**
All solutions in Isooctane — 10 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
γ-BHC	5	25	100
γ-Chlordane	5	25	100
Decachlorobiphenyl	10	50	200
Endrin ketone	10	50	200
Heptachlor epoxide	5	25	100
Isopropalin	20	100	400
Nitrofen	20	100	400
PCNB	5	25	100
Tetrachloro-*m*-xylene	5	25	100
Trifluralin	10	50	200

Calibration Group 4

M-1656-04-CAL-SET — **$ 60 / 3 x 1 mL**
All solutions in Isooctane — 10 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Benfluralin	20	100	400
Chlorobenzilate	50	250	1,000
Decachlorobiphenyl	10	50	200
Dieldrin	5	25	100
Endosulfan I	10	50	200
Mirex	20	100	400
Terbacil	200	1,000	4,000
Terbuthylazine	500	2,500	10,000
Tetrachloro-*m*-xylene	5	25	100
Triadimefon	100	500	2,000



Working Level Standards & Continuing Calibration Check (CCC)

Calibration Group 5

M-1656-05-CAL-SET — **$ 60 / 3 x 1 mL**
All solutions in Isooctane — 8 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Benfluralin	20	100	400
Captan	100	500	2,000
Chlorothalonil	20	100	400
4,4'-DDD	20	100	400
Decachlorobiphenyl	10	50	200
Norflurazon	100	500	2,000
Simazine	800	4,000	16,000
Tetrachloro-*m*-xylene	5	25	100

Calibration Group 6

M-1656-06-CAL-SET — **$ 60 / 3 x 1 mL**
All solutions in Isooctane — 9 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Aldrin	20	100	400
δ-BHC	5	25	100
Bromacil	100	500	2,000
Butachlor	50	250	1,000
Decachlorobiphenyl	10	50	200
Endosulfan II	10	50	200
Heptachlor	10	50	200
Kepone	100	500	2,000
Tetrachloro-*m*-xylene	5	25	100

Calibration Group 7

M-1656-07-CAL-SET — **$ 75 / 3 x 1 mL**
All solutions in Isooctane — 13 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Carbophenothion	80	400	1,600
Chloroneb	300	1,500	6,000
Chloropropylate	200	1,000	4,000
DBCP	25	125	500
Decachlorobiphenyl	10	50	200
Dicofol	300	1,500	6,000
Endrin aldehyde	80	400	1,600
Etridiazole	80	400	1,600
Perthane	1,000	5,000	20,000
Propachlor	500	2,500	10,000
Propanil	200	1,000	4,000
Propazine	1,000	5,000	20,000
Tetrachloro-*m*-xylene	5	25	100

Method 1657 Organo-Phosphorus Pesticides in Municipal & Industrial Wastewater by FPD

Method 1657 is a consolidation of several EPA wastewater methods used to determine the organo-phosphorus pesticides associated with the Clean Water Act, the Resource and Conservation and Recovery Act, & the Comprehensive Environmental Response, Compensation and Liability Act; and other compounds amenable to extraction and analysis by wide-bore capillary column gas chromatography with a flame photometric detector (FPD).

GPC Calibration Solution

M-1600-GPC-5ML **$ 35 / 1 x 5 mL**
At stated conc. in CH_2Cl_2 5 comps.

Corn oil	(300 mg/mL)
bis(2-Ethylhexyl)phthalate	(15 mg/mL)
Pentachlorophenol	(1.4 mg/mL)
Perylene	(0.1 mg/mL)
Sulfur	(0.5 mg/mL)

Solid-phase Extraction Cartridge Calibration Solution

M-1600-SPE **$ 10 / 1 x 1 mL**
0.1 mg/mL in Acetone

2,4,6-Trichlorophenol

Surrogate Spiking Solution

M-1657-SS **$ 20 / 1 x 1 mL**
0.2 mg/mL each in Acetone 2 comps.

Tributyl phosphate
Triphenyl phosphate

Method 1657 Calibration Solutions & Suggested Calibration Groups

M-1657-CAL-SET **$ 195 / 4 x (3 x 1 mL)**
Contains all 4 calibration groups at the respective Low, Medium and High Ranges

Calibration Group 1

M-1657-01-R1-CAL-SET **$ 60 / 3 x 1 mL**
All solutions in Isooctane 9 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Azinphos methyl	100	500	2,000
Dichlorvos	500	2,500	10,000
Disulfoton	200	1,000	4,000
Fenthion	200	1,000	4,000
Merphos (A + B)	400	2,000	8,000
Ronnel	200	1,000	4,000
Sulprofos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Calibration Group 2

M-1657-02-CAL-SET **$ 60 / 3 x 1 mL**
All solutions in Isooctane 12 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Chlorfevinphos	200	1,000	4,000
Chlorpyrifos	200	1,000	4,000
Demeton (O + S)	400	2,000	8,000
Dichlofenthion	200	1,000	4,000
Dimethoate	100	500	2,000
Famphur	500	2,500	10,000
Leptophos	200	1,000	4,000
Methyl parathion	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Trichlorofon	500	2,500	10,000
Tricresylphosphate	100	500	2,000
Triphenyl phosphate	200	1,000	4,000

Calibration Group 3

M-1657-03-CAL-SET **$ 65 / 3 x 1 mL**
All solutions in Isooctane 14 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Azinphos ethyl	200	1,000	4,000
Crotoxyphos	500	2,500	10,000
DEF	200	1,000	4,000
Fensulfothion	500	2,500	10,000
Methyl chlorpyrifos	200	1,000	4,000
Mevinphos	500	2,500	10,000
Naled	500	2,500	10,000
Parathion	200	1,000	4,000
Phosmet	500	2,500	10,000
Phosphamidon (E + Z)	100	500	2,000
Sulfotepp	200	1,000	4,000
Terbufos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000

Calibration Group 4

M-1657-04-CAL-SET **$ 60 / 3 x 1 mL**
All solutions in Isooctane 11 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(5X)*	High *(20X)*
Coumaphos	500	2,500	10,000
Diazinon	200	1,000	4,000
EPN	200	1,000	4,000
Ethion	200	1,000	4,000
Ethoprop	200	1,000	4,000
Malathion	200	1,000	4,000
Phorate	200	1,000	4,000
Tetrachlorvinphos	200	1,000	4,000
Tributyl phosphate	200	1,000	4,000
Trichloronate	200	1,000	4,000
Triphenyl phosphate	200	1,000	4,000



Method 1658 Phenoxy-Acid Herbicides

Method 1658 consolidates several EPA wastewater methods used to determine Phenoxy-Acid Herbicides & Herbicide esters associated with the CWA, RCRA, & CERCLA; & other compounds amenable to extraction & analysis by wide-bore capillary column GC/ECD.

M-1658-CAL-SET **$ 75 / 3 x 1 mL**
All solutions in Isooctane 12 comps.

Components *(units in ng/mL)*	Low *(1X)*	Medium *(10X)*	High *(100X)*
2,4-D	100	1,000	10,000
Dalapon	50	500	5,000
2,4-DB	200	2,000	20,000
2,4-Dichlorphenylacetic acid *(Surrogate)*	10	100	1,000
Dicamba	20	200	2,000
Dichlorprop	100	1,000	10,000
Dinoseb	50	500	5,000
MCPA	5,000	50,000	500,000
MCPP	5,000	50,000	500,000
Picloram	50	500	5,000
2,4,5-T	20	200	2,000
2,4,5-TP	20	200	2,000

Method 1659 Dazomet in Municipal & Industrial Wastewater by NPD

Method 1659 is used to determine Dazomet by base hydrolysis to Methyl Isothiocyanate (MITC) and subsequent determination of MITC by wide-bore fused-silica capillary column gas chromatography with a Nitrogen Phophorus Detector (NPD).

Recovery & Precision Solution
M-1659-RPS **$ 10 / 1 x 1 mL**
25 µg/mL in Acetone

Methyl isothiocyanate *(MITC)*

Matrix Spiking Solution
M-1659-MS **$ 10 / 1 x 1 mL**
25 µg/mL in Acetone

Dazomet

Calibration Solutions
M-1659-CAL-SET **$ 25 / 3 x 1 mL**

M-1659-CAL-1X	0.2 mg/mL in Acetone	**1 mL**
M-1659-CAL-5X	1.0 mg/mL in Acetone	**1 mL**
M-1659-CAL-25X	5.0 mg/mL in Acetone	**1 mL**

Methyl isothiocyanate *(MITC)*

Method 1664 See Petrochemical or Inorganic Sections

Method 1665 Semi-Volatile Organic Compounds Specific to the PMI by Isotope Dilution GC/MS

The following method series is designed to meet PMI (Pharmaceutical Manufacturing Industry) methods promulgated in 40 CFR part 136. It is used to monitor the discharge of pollutants into surface waters. It can also be used to identify and measure purgeable and non-purgeable volatiles, semi-volatiles, and certain organic pollutants specific to PMI discharge in water, soils, and municipal sludges.

PMI Semi-Volatile Set
M-1665-SET **$ 320 / 5 x 1 mL**
(M-1618-GP-5ML, M-1653-TS, M-625-07-10X, M-1665, M-1665-LAB)

GPC Calibration Solution
M-1618-GP-5ML **$ 35 / 1 x 5 mL**
At stated conc. in Acetone 5 comps.

Corn oil	(300.0 mg/mL)	Perylene	(0.1 mg/mL)
bis(2-Ethylhexyl)phthalate	(15.0 mg/mL)	Sulfur	(0.5 mg/mL)
Pentachlorophenol	(1.4 mg/mL)		

Instrument Performance Check Solution
M-1653-TS **$ 20 / 1 x 1 mL**
50 µg/mL in Acetone

DFTPP

PMI Internal Standard
M-625-07-10X **$ 20 / 1 x 1 mL**
2.0 mg/mL in CH_2Cl_2

2,2'-Difluorobiphenyl

PMI Stock Standard
M-1665 **$ 60 / 1 x 1 mL**
2000 µg/mL each in CH_2Cl_2 6 comps.

Aniline	Dimethylformamide
N,N-Dimethylacetamide	2-Picoline
N,N-Dimethylaniline	Pyridine

PMI Labeled Stock Standard (Not for individual sale)
M-1665-LAB **1 x 1 mL**
500 µg/mL each in CH_2Cl_2 5 comps.

Aniline-d_5	2-Picoline-d_3
N,N-Dimethylaniline-d_{11}	Pyridine-d_5
Dimethylformamide-d_7	

Method 1666A (Rev. July 1998) Volatile Organic Compounds Specific to the PMI by Isotope Dilution GC/MS

PMI Purgeable Analytes
M-1666A-R2-SET — **$ 240 / 5 x 1 mL**
M-1666A-SSA-ADD, M-1666A-SSA-R2, M-1666A-SSB
M-1666A-SSC, M-1666A-LAB

M-1666A-SSA-ADD — **$ 20 / 1 x 1 mL**
1000 µg/mL in MeOH

Isopropyl ether

PMI Stock Standard A
M-1666A-SSA-R2 — **$ 60 / 1 x 1 mL**
At stated conc. in Water — 7 comps.

1-Butanol	(2500 µg/mL)	Isopropanol	(1000 µg/mL)
t-Butanol	(2500 µg/mL)	4-Methyl-2-pentanone	(1000 µg/mL)
2-Furaldehyde	(2500 µg/mL)	1-Pentanol	(2500 µg/mL)
Isobutyraldehyde	(2500 µg/mL)		

PMI Stock Standard B
M-1666A-SSB — **$ 60 / 1 x 1 mL**
At stated conc. in MeOH — 9 comps.

Cyclohexane	(1000 µg/mL)	Trifluoromethane	(1000 µg/mL)
N-Heptane	(1000 µg/mL)	*m*-Xylene	(1000 µg/mL)
n-Hexane	(1000 µg/mL)	*o*-Xylene	(1000 µg/mL)
Methyl formate	(2500 µg/mL)	*p*-Xylene	(1000 µg/mL)
Tetrahydrofuran	(1000 µg/mL)		

PMI Stock Standard C
M-1666A-SSC — **$ 35 / 1 x 1 mL**
1000 µg/mL each in MeOH — 4 comps.

Butyl acetate	Isopropyl acetate
Ethyl acetate	Pentyl acetate

PMI Labeled Stock Standard
M-1666A-LAB — **$ 200 / 1 x 1 mL**
At stated conc. in MeOH — 8 comps.

L-Butanol-d_{10}	(500 µg/mL)	*n*-Hexane-d_{14}	(50 µg/mL)
Cyclohexane-d_{12}	(50 µg/mL)	Tetrahydrofuran-d_8	(50 µg/mL)
Ethyl Acetate-c_{13}	(50 µg/mL)	*o*-Xylene-d_{10}	(50 µg/mL)
N-Heptane-d^{16}	(50 µg/mL)	*m*-Xylene-d_{10}	(50 µg/mL)

PMI Direct Injection Analytes
M-1666A-DI-R1-SET — **$ 155 / 4 x 1 mL**
M-1666A-DI-R1, M-1666A-DI-R-ADD1
M-1666A-DI-R-ADD2, M-1666A-DI-LAB

PMI Standard Direct Injection
M-1666A-DI-R1 — **$ 70 / 1 x 1 mL**
At stated conc. in Water — 10 comps.

Acetonitrile	(1000 µg/mL)	Ethylene glycol	(2500 µg/mL)
Diethylamine	(2500 µg/mL)	Methanol	(1000 µg/mL)
Dimethylamine	(1000 µg/mL)	2-Methoxyethanol	(1000 µg/mL)
Dimethyl sulfoxide	(1000 µg/mL)	1-Propanol	(1000 µg/mL)
Ethanol	(1000 µg/mL)	Triethylamine	(2500 µg/mL)

M-1666A-DI-R-ADD1 — **$ 30 / 1 x 1 mL**
2500 µg/mL in Water

Methylamine

M-1666A-DI-R-ADD2 — **$ 30 / 1 x 1 mL**
5000 µg/mL in Water

Formamide

PMI Labeled Standard Direct Injection
M-1666A-DI-LAB — **$ 100 / 1 x 1 mL**
1000 µg/mL each in Water — 6 comps.

Acetonitrile-d_3	Methanol-d_3
Dimethyl sulfoxide-d_6	*n*-Propanol-1-d_1
Ethanol-d_6	Tetrahydrofuran-d_8

PMI Instrument Performance

Purgeable Internal Standard
CLP-PI — **$ 25 / 1 x 1 mL**
CLP-PI-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
1.0 mg/mL each in MeOH — 3 comps.

Bromochloromethane	1,4-Difluorobenzene
Chlorobenzene-d_5	

PMI Resolution Standard
M-1666A-RES — **$ 30 / 1 x 1 mL**
M-1666A-RES-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
100 µg/mL each in MeOH — 2 comps.

o-Xylene	*o*-Xylene-d_{10}

Instrument Performance Check Solution
CLP-004-10X — **$ 10 / 1 x 1 mL**
CLP-004-10X-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
250 µg/mL in MeOH

p-Bromofluorobenzene

Method 1667A Formaldehyde, Isobutylaldehyde & Furfural by Derivatization followed by HPLC for PMI pollutants

PMI Carbonyl Set

M-1667A-SET **$ 40 / 3 x 1 mL**

Each at 1.0 mg/mL in AcCN

	Cat. No.	Price / 1 mL
Formaldehyde	M-1667A-01	$ 20
2-Furaldehyde	M-1667A-02	20
Isobutyraldehyde	M-1667A-03	25

PMI Carbonyl DNPH Set

M-1667A-DNPH-SET **$ 65 / 3 x 1 mL**

Each at 1.0 mg/mL in AcCN

	Cat. No.	Price / 1 mL
Formaldehyde-DNPH	M-1667A-DNPH-01	$ 35
2-Furaldehyde-DNPH	M-1667A-DNPH-02	35
Isobutyraldehyde-DNPH	M-1667A-DNPH-03	35

PMI QA/QC Carbonyl Mixture

M-1667A-M **$ 35 / 1 x 1 mL**

M-1667A-M-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**

250 µg/mL each in AcCN 3 comps.

Formaldehyde
2-Furaldehyde
Isobutyraldehyde

PMI QA/QC Carbonyl Derivative DNPH Mixture

M-1667A-DNPH **$ 60 / 1 x 1 mL**

M-1667A-DNPH-PAK ***SAVE 20%*** **$ 240 / 5 x 1 mL**

250 µg/mL each in AcCN 3 comps.

Formaldehyde-DNPH
2-Furaldehyde-DNPH
Isobutyraldehyde-DNPH

PMI Derivatization Reagent

M-1667A-DERV-10ML **$ 13 / 10 mL**

M-1667A-DERV-10ML-PAK ***SAVE 20%*** **$ 50 / 5 x 10 mL**

1.0 mg/mL in AcCN

2,4-Dinitrophenylhydrazine (DNPH)



Method 1668 Congener Set - 209 Chlorinated Biphenyl Congeners by HRGC/HRMS

Congener specific determination of all 209 PCB congeners for calibration on a SPB-Octyl capillary column.

M-1668A-0.01X-SET **$ 700 / 5 x 1 mL (M-1668A-1-0.01X, M-1668A-2-0.01X, M-1668A-3-0.01X, M-1668A-4-0.01X, M-1668A-5-0.01X)**

PCB Congener Mix #1

M-1668A-1-0.01X **1 x 1 mL**

At stated conc. in Isooctane 83 comps.

3-Chlorobiphenyl	(2.5 µg/mL)	2,3',4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,6-Dichlorobiphenyl	(2.5 µg/mL)	2',3,4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,5-Dichlorobiphenyl	(2.5 µg/mL)	2,3,3',4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3'-Dichlorobiphenyl	(2.5 µg/mL)	2',3,3',4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,4'-Dichlorobiphenyl	(2.5 µg/mL)	2,3,3',4,4'-Pentachlorobiphenyl	(5.0 µg/mL)
3,5-Dichlorobiphenyl	(2.5 µg/mL)	3,3',4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
3,3'-Dichlorobiphenyl	(2.5 µg/mL)	2,2',3,5,6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4,6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,3',6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4',5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4',6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,5,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2',3,5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4',5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2',3,4-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,3',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
3,3',5-Trichlorobiphenyl	(2.5 µg/mL)	2,3,3',4,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
3,4,5-Trichlorobiphenyl	(2.5 µg/mL)	2,2',4,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
3,3',4-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,3',4,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',4,6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,4,4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',5,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',4,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3',4,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,4,4',6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',5,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,3',5,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,3',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,4',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3',4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',5',6-Heptachlorobiphenyl	(5.0 µg/mL)
3,3',4,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
3,3',4,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',6-Heptachlorobiphenyl	(5.0 µg/mL)
3,4,4',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,5'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,6,6'-Pentachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',4,5',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,6'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,3,3',5',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,5',6-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,3',5-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5',6-Octachlorobiphenyl	(7.5 µg/mL)
2,3',4,4',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,6-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,5'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,4'-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	(7.5 µg/mL)
2,2',3,3',4-Pentachlorobiphenyl	(5.0 µg/mL)		

PCB Congener Mix #2

M-1668A-2-0.01X **1 x 1 mL**

At stated conc. in Isooctane 54 comps.

2,4-Dichlorobiphenyl	(2.5 µg/mL)
2,3-Dichlorobiphenyl	(2.5 µg/mL)
3,4-Dichlorobiphenyl	(2.5 µg/mL)
2,2',5-Trichlorobiphenyl	(2.5 µg/mL)
2,3,6-Trichlorobiphenyl	(2.5 µg/mL)
2,3,5-Trichlorobiphenyl	(2.5 µg/mL)
2,4,4'-Trichlorobiphenyl	(2.5 µg/mL)
2,3,4'-Trichlorobiphenyl	(2.5 µg/mL)
3,4',5-Trichlorobiphenyl	(2.5 µg/mL)
2,2',5,6'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,6'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',5',6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,5-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4,6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',4',6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',4,5'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,3',5'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4,5-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,3',4-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',3,5,6'-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',4,4',6-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',6-Pentachlorobiphenyl	(5.0 µg/mL)
2,3',4,5',6-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,6-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,4',5,6-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',5,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,5'-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3',4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',5,5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',4,4',5',6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',5-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,4'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,5,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4',5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,3',4,5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	(7.5 µg/mL)
2,2',3,4,4',5,5',6-Octachlorobiphenyl	(7.5 µg/mL)

PCB Congener Mix #3

M-1668A-3-0.01X **1 x 1 mL**

At stated conc. in Isooctane 29 comps.

3,4'-Dichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',4-Trichlorobiphenyl	(2.5 µg/mL)	2,3,4,5,6-Pentachlorobiphenyl	(5.0 µg/mL)
2,4,5-Trichlorobiphenyl	(2.5 µg/mL)	2,3,3',4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,3'-Trichlorobiphenyl	(2.5 µg/mL)	2,2',4,4',5,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,6'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,5,6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',6-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,3',4,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2',3,4,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',6-Hexachlorobiphenyl	(5.0 µg/mL)
3,3',5,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4,4',5,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5,6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',6-Pentachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,6-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',4,5,5'-Pentachlorobiphenyl	(5.0 µg/mL)	2,3,3',4',5,5',6-Heptachlorobiphenyl	(5.0 µg/mL)
2,3,3',5,6-Pentachlorobiphenyl	(5.0 µg/mL)		

All 209 Individual PCB Congeners are listed in PCB Section.

Method 1668 (Continued) Congener Set - 209 Chlorinated Biphenyl Congeners by HRGC/HRMS

PCB Congener Mix #4

M-1668A-4-0.01X **1 x 1 mL**

At stated conc. in Isooctane 15 comps.

2,3',4-Trichlorobiphenyl	(2.5 µg/mL)
2,3,4-Trichlorobiphenyl	(2.5 µg/mL)
2,3',4,6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',3,4'-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3,4',6-Tetrachlorobiphenyl	(5.0 µg/mL)
2,3',4',5-Tetrachlorobiphenyl	(5.0 µg/mL)
2,2',4,5,6'-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3',4,5-Pentachlorobiphenyl	(5.0 µg/mL)
2,3,4,4',6-Pentachlorobiphenyl	(5.0 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,3',4,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,3,3',4',5,6-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(5.0 µg/mL)

PCB Congener Mix #5

M-1668A-5-0.01X **1 x 1 mL**

At stated conc. in Isooctane 28 comps.

2-Chlorobiphenyl	(2.5 µg/mL)	2,2',3',4,6-Pentachlorobiphenyl	(5.0 µg/mL)
4-Chlorobiphenyl	(2.5 µg/mL)	2',3,4,5,6'-Pentachlorobiphenyl	(5.0 µg/mL)
2,2'-Dichlorobiphenyl	(2.5 µg/mL)	2,3,3',4',6-Pentachlorobiphenyl	(5.0 µg/mL)
4,4'-Dichlorobiphenyl	(2.5 µg/mL)	3,3',4,4',5-Pentachlorobiphenyl	(5.0 µg/mL)
2,2',6-Trichlorobiphenyl	(2.5 µg/mL)	2,2',4,4',6,6'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',3-Trichlorobiphenyl	(2.5 µg/mL)	2,2',3,4,4',5'-Hexachlorobiphenyl	(5.0 µg/mL)
3,4,4'-Trichlorobiphenyl	(2.5 µg/mL)	3,3',4,4',5,5'-Hexachlorobiphenyl	(5.0 µg/mL)
2,2',6,6'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,4',5,6,6'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,5'-Heptachlorobiphenyl	(5.0 µg/mL)
2,2',3,5'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	(7.5 µg/mL)
2,4,4',5-Tetrachlorobiphenyl	(5.0 µg/mL)	2,3,3',4,4',5,5',6-Octachlorobiphenyl	(7.5 µg/mL)
2,3,3',4'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	(7.5 µg/mL)
3,3',4,4'-Tetrachlorobiphenyl	(5.0 µg/mL)	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(7.5 µg/mL)
2,2',4,6,6'-Pentachlorobiphenyl	(5.0 µg/mL)	Decachlorobiphenyl	(7.5 µg/mL)

Method 1668 Level of Chlorination Calibration / Spike

Level of Chlorination Calibration / Spike Set

M-1668A-LOC-SET **$ 150 / 2 x 1 mL (M-1668A-NAT, M-1668A-PAR)**

Native PCB Calibration Mix

M-1668A-NAT **1 x 1 mL**

At stated conc. in Isooctane 19 comps.

4-Chlorobiphenyl	(5 µg/mL)
4,4'-Dichlorobiphenyl	(5 µg/mL)
2,4,4'-Trichlorobiphenyl	(5 µg/mL)
3,3',4,4'-Tetrachlorobiphenyl	(1 µg/mL)
2,3,3',4,4'-Pentachlorobiphenyl	(5 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(5 µg/mL)
2,3',4,4',5-Pentachlorobiphenyl	(5 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(5 µg/mL)
3,3',4,4',5-Pentachlorobiphenyl	(5 µg/mL)
2,3,3',4,4',5-Hexachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(10 µg/mL)
2,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
3,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5-Heptachlorobiphenyl	(10 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(20 µg/mL)

PAR PCB Spike Mix

M-1668A-PAR **1 x 1 mL**

At stated conc. in Isooctane 19 comps.

4-Chlorobiphenyl	(10 µg/mL)
4,4'-Dichlorobiphenyl	(10 µg/mL)
2,4,4'-Trichlorobiphenyl	(10 µg/mL)
3,3',4,4'-Tetrachlorobiphenyl	(0.2 µg/mL)
2,3,3',4,4'-Pentachlorobiphenyl	(10 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(10 µg/mL)
2,3',4,4',5-Pentachlorobiphenyl	(10 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(10 µg/mL)
3,3',4,4',5-Pentachlorobiphenyl	(1 µg/mL)
2,3,3',4,4',5-Hexachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(10 µg/mL)
2,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
3,3',4,4',5,5'-Hexachlorobiphenyl	(2 µg/mL)
2,2',3,3',4,4',5-Heptachlorobiphenyl	(2 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5,5'-Heptachlorobiphenyl	(2 µg/mL)
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	(10 µg/mL)
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	(20 µg/mL)

Method 1668A - Combined Congener Standard

M-1668A-C-NT-LOC-WD **$ 150 / 1 x 1 mL**

20 µg/mL each in Isooctane 33 comps.

2-Chlorobiphenyl	2,2',4,4',6,6'-Hexachlorobiphenyl
4-Chlorobiphenyl	2,3,3',4,4',5-Hexachlorobiphenyl
2,2'-Dichlorobiphenyl	2,3,3',4,4',5'-Hexachlorobiphenyl
4,4'-Dichlorobiphenyl	2,3',4,4',5,5'-Hexachlorobiphenyl
2,2',6-Trichlorobiphenyl	3,3',4,4',5,5'-Hexachlorobiphenyl
2,3,5-Trichlorobiphenyl	2,2',3,3',4,4',5-Heptachlorobiphenyl
2',3,5-Trichlorobiphenyl	2,2',3,4,4',5,5'-Heptachlorobiphenyl
3,4,4'-Trichlorobiphenyl	2,2',3,4,4',5,6'-Heptachlorobiphenyl
2,2',6,6'-Tetrachlorobiphenyl	2,2',3,4',5,5',6-Heptachlorobiphenyl
3,3',4,4'-Tetrachlorobiphenyl	2,2',3,4',5,6,6'-Heptachlorobiphenyl
3,4,4',5-Tetrachlorobiphenyl	2,3,3',4,4',5,5'-Heptachlorobiphenyl
2,2',4,6,6'-Pentachlorobiphenyl	2,2',3,3',5,5',6,6'-Octachlorobiphenyl
2,3,3',4,4'-Pentachlorobiphenyl	2,3,3',4,4',5,5',6-Octachlorobiphenyl
2,3,4,4',5-Pentachlorobiphenyl	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl
2',3,4,4',5-Pentachlorobiphenyl	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
3,3',4,4',5-Pentachlorobiphenyl	

Method 1668A - QC Standard

M-1668A-QC **$ 80 / 1 x 1 mL**

M-1668A-QC-PAK ***SAVE 20%*** **$ 320 / 5 x 1 mL**

At stated conc. in Isooctane 13 comps.

3,3',4,4'-Tetrachlorobiphenyl	(0.2 µg/mL)
2,3,3',4,4'-Pentachlorobiphenyl	(10 µg/mL)
2,3,4,4',5-Pentachlorobiphenyl	(10 µg/mL)
2,3',4,4',5-Pentachlorobiphenyl	(10 µg/mL)
2',3,4,4',5-Pentachlorobiphenyl	(10 µg/mL)
3,3',4,4',5-Pentachlorobiphenyl	(1 µg/mL)
2,3,3',4,4',5-Hexachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5'-Hexachlorobiphenyl	(10 µg/mL)
2,3',4,4',5,5'-Hexachlorobiphenyl	(10 µg/mL)
3,3',4,4',5,5'-Hexachlorobiphenyl	(2 µg/mL)
2,2',3,3',4,4',5-Heptachlorobiphenyl	(2 µg/mL)
2,2',3,4,4',5,5'-Heptachlorobiphenyl	(10 µg/mL)
2,3,3',4,4',5,5'-Heptachlorobiphenyl	(2 µg/mL)

Method 1671 VOCs Specific to PMI by GC/FID

PMI Internal Standard

M-1671A-IS — **$ 20 / 1 x 1 mL**
M-1671A-IS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1.0 mg/mL in Water

Tetrahydrofuran

Custom Formulations

Contact our Technical Service Department for different composition PEG materials. AccuStandard can obtain PEG with different mixtures of oligomers having molecular weights centered around 200, 300, 400, 550, 1000, 1450, 3350, 8000, 10,000 ca.

Method 1673 Polyethylene glycol-600 by Derivative & HPLC

Poly(ethylene glycol)-600

M-1673 — **$ 35 / 1 x 1 mL**
M-1673-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
2.5 mg/mL in Tetrahydrofuran

Polyethylene glycol-600

Surrogate Standard

M-1673-SS — **$ 25 / 1 x 1 mL**
M-1673-SS-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
1.0 mg/mL in Tetrahydrofuran

Diethylene glycol monohexyl ether

Derivatization Reagent

M-1673-DERV-5ML — **$ 30 / 1 x 5 mL**
10 mg/mL in Tetrahydrofuran

3,5-Dinitrobenzyl chloride

Buy AccuPAKS™
Save 20-40% 5 x 1 mL



Standard Mixtures for EPA Method 8000 Series
For Solid Waste

Background Information
The analytical methods used to identify and quantify organic compounds in solid waste are provided in US EPA SW-846, also known as the 8000 series methods.

These methods were developed in response to environmental problem areas such as Love Canal, N.Y. and Times Beach, MO. A historical perspective of the evolution of this series includes the Resource and Conservation Recovery Act (RCRA), which was amended by the Hazardous and Solid Waste Act (HSWA). HSWA also addressed previously exempted underground storage tanks containing petroleum and some hazardous substances.

The 8000 Series product line contains standards used in the proposed and promulgated methods for the identification and quantitation of organic compounds on the EPA's Appendix VIII and Appendix IX lists in ground water, waste water, and solids at hazardous waste treatment, storage, and disposal sites. An additional method Toxicity Characteristic Leaching Procedure (TCLP) Method 1311 is used with 8000 series methods to estimate the toxicity of solid waste materials under the leaching conditions found in a landfill.

The organic compounds listed in these methods include volatile organic compounds (VOCs), pesticides, synthetic organic compounds (SOCs), and disinfection by-products.

Detectors
Analytical techniques used in identification and quantification include gas chromatography with selective detectors (AED, PID, ELCD, ECD, FID, FTIR, NPD, FPD, TEA, TCD) gas chromatography /mass spectrometry, and high performance liquid chromatography.

Comprehensive
Complete analysis of target compounds by these 8000 Series Methods can be accomplished using the series of standards formulated by AccuStandard for each method along with the required internal and surrogate standards. Formulations for 8000 series methods have been developed as easy-to-use large core mixes containing target compounds and as high concentration sub mixes for combination with other formulations to meet laboratory specific analyte detection requirements.

* These Methods can be found in the SW-846 update II, Nov. 1992, rev. 2

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EPA Method 8000 Series
Appendix IX Compounds

AccuStandard has assembled the compounds appearing below to aid the analyst in identifying all the contaminants the EPA has regulated for groundwater monitoring. This list (214 compounds), commonly called the Appendix IX list, was first published in July 1987. Federal Register Vol. 52, No. 131.

The entire list of compounds can be purchased as a complete set as:
APP-9-SET $ 1,450 / 214 x 1 mL

All solutions are at 100 µg/mL in 1 mL

Appendix IX Compounds

Compound	CAS No.	Solv.	Cat. No.	Price	Compound	CAS No.	Solv.	Cat. No.	Price
Acenaphthene	83-32-9	MeOH	APP-9-001	$ 15	1,2-Dichloroethane	107-06-2	MeOH	APP-9-071	$ 12
Acenaphthylene	208-96-8	MeOH	APP-9-002	15	1,1-Dichloroethylene	75-34-4	MeOH	APP-9-072	12
Acetone ❄	67-64-1	MeOH	APP-9-003	12	*trans*-1-2-Dichloroethylene	156-60-5	MeOH	APP-9-073	12
Acetonitrile	75-05-8	MeOH	APP-9-005	12	Dichloromethane	75-09-2	MeOH	APP-9-074	12
Acetophenone	98-86-2	CH_2Cl_2	APP-9-004	12	2,4-Dichlorophenol	120-83-2	MeOH	APP-9-075	12
2-Acetylaminofluorene	53-96-3	CH_2Cl_2	APP-9-006	20	2,6-Dichlorophenol	87-65-0	CH_2Cl_2	APP-9-076	12
Acrolein ❄	107-02-8	M:W	APP-9-007	12	1,2-Dichloropropane	78-87-5	MeOH	APP-9-077	12
Acrylonitrile	107-13-1	MeOH	APP-9-008	12	*cis*-1,3-Dichloropropene	10061-01-5	MeOH	APP-9-078	12
Aldrin	309-00-2	MeOH	APP-9-009	12	*trans*-1,3-Dichloropropene	10061-02-6	MeOH	APP-9-079	12
Allyl chloride	107-05-1	MeOH	APP-9-010	12	Dieldrin	60-57-1	MeOH	APP-9-080	22
4-Aminobiphenyl	92-67-1	CH_2Cl_2	APP-9-011	20	Diethyl phthalate	84-66-2	MeOH	APP-9-081	12
Aniline	62-53-3	MeOH	APP-9-012	12	Dimethoate	60-51-5	MeOH	APP-9-082	22
Anthracene	120-12-7	MeOH	APP-9-013	15	*p*-(Dimethylamino)azobenzene	60-11-7	CH_2Cl_2	APP-9-083	20
Aramite	140-57-8	MeOH	APP-9-014	22	7,12-Dimethylbenz[a]anthracene	57-97-6	CH_2Cl_2	APP-9-084	20
Benz[a]anthracene	56-55-3	MeOH	APP-9-016	15	3,3'-Dimethylbenzidine	119-93-7	CH_2Cl_2	APP-9-085	20
Benzene	71-43-2	MeOH	APP-9-015	12	a,a-Dimethylphenethylamine	122-09-8	CH_2Cl_2	APP-9-086	20
Benzo[b]fluoranthene	205-99-2	MeOH	APP-9-017	20	2,4-Dimethylphenol	105-67-9	MeOH	APP-9-087	12
Benzo[k]fluoranthene	2070-08-9	MeOH	APP-9-018	20	Dimethyl phthalate	131-11-3	MeOH	APP-9-088	12
Benzo[g,h,i]perylene	191-24-2	CH_2Cl_2	APP-9-019	20	*m*-Dinitrobenzene	99-65-0	CH_2Cl_2	APP-9-089	20
Benzo[a]pyrene	50-32-8	MeOH	APP-9-020	20	4,6-Dinitro-*o*-cresol	534-52-1	MeOH	APP-9-090	12
Benzyl alcohol	100-51-6	MeOH	APP-9-021	12	2,4-Dinitrophenol	51-28-5	MeOH	APP-9-091	12
α-BHC	319-84-6	MeOH	APP-9-022	22	2,4-Dinitrotoluene	121-14-2	MeOH	APP-9-092	12
β-BHC	319-85-7	MeOH	APP-9-023	22	2,6-Dinitrotoluene	606-20-2	MeOH	APP-9-093	12
δ-BHC	319-86-8	MeOH	APP-9-024	42	Dinoseb	88-85-7	MeOH	APP-9-094	12
γ-BHC (Lindane)	58-89-9	MeOH	APP-9-025	12	Di-*n*-octyl phthalate	117-84-0	MeOH	APP-9-095	12
Bromodichloromethane	75-27-4	MeOH	APP-9-030	12	1,4-Dioxane	123-91-1	MeOH	APP-9-096	12
Bromoform	75-25-2	MeOH	APP-9-031	12	Diphenylamine	122-39-4	CH_2Cl_2	APP-9-097	12
Bromomethane	74-83-9	MeOH	APP-9-032	12	Disulfoton	298-04-4	MeOH	APP-9-098	12
4-Bromophenyl phenyl ether	101-55-3	MeOH	APP-9-033	15	Endosulfan I	959-98-8	MeOH	APP-9-099	22
Butyl benzyl phthalate	85-68-7	MeOH	APP-9-034	20	Endosulfan II	33213-65-9	MeOH	APP-9-100	22
Carbon disulfide	75-15-0	MeOH	APP-9-035	12	Endosulfan sulfate	1031-07-8	MeOH	APP-9-101	22
Carbon tetrachloride	56-23-5	MeOH	APP-9-036	12	Endrin	72-20-8	MeOH	APP-9-102	22
Chlordane	57-74-9	MeOH	APP-9-037	12	Endrin aldehyde	7421-93-4	MeOH	APP-9-103	22
p-Chloroaniline	106-47-8	MeOH	APP-9-038	12	Ethylbenzene	100-41-4	MeOH	APP-9-104	12
Chlorobenzene	108-90-7	MeOH	APP-9-039	12	bis(2-Ethylhexyl)phthalate	117-81-7	MeOH	APP-9-029	12
Chlorobenzilate	510-15-6	CH_2Cl_2	APP-9-040	12	Ethyl methacrylate	97-63-2	MeOH	APP-9-105	12
p-Chloro-*m*-cresol	59-50-7	MeOH	APP-9-041	12	Ethylmethanesulfonate	62-50-0	CH_2Cl_2	APP-9-106	20
Chloroethane	75-00-3	MeOH	APP-9-042	12	Famphur	52-85-7	MeOH	APP-9-107	12
bis(2-Chloroethoxy)methane	111-91-1	CH_2Cl_2	APP-9-026	20	Fluoranthene	206-44-0	MeOH	APP-9-108	15
bis(2-Chloroethyl) ether	111-44-4	MeOH	APP-9-027	20	Fluorene	86-73-7	MeOH	APP-9-109	15
Chloroform	67-66-3	MeOH	APP-9-043	12	Heptachlor	76-44-8	MeOH	APP-9-110	12
bis(2-Chloro-1-methylethyl) ether (2,2-Dichlorodiisopropyl ether)	108-60-1	CH_2Cl_2	APP-9-028	20	Heptachlor epoxide [Isomer B]	1024-57-3	MeOH	APP-9-111	22
					Hexachlorobenzene	118-74-1	MeOH	APP-9-112	12
Chloromethane	74-87-3	MeOH	APP-9-044	12	Hexachlorobutadiene	87-68-3	MeOH	APP-9-113	12
2-Chloronaphthalene	91-58-7	MeOH	APP-9-045	12	Hexachlorocyclopentadiene	77-47-4	MeOH	APP-9-114	12
2-Chlorophenol	95-57-8	MeOH	APP-9-046	12	Hexachloroethane	67-72-1	MeOH	APP-9-115	12
4-Chlorophenyl phenyl ether	7005-72-3	MeOH	APP-9-047	20	Hexachlorophene	70-30-4	MeOH	APP-9-116	12
Chloroprene (Xylene-Free)	126-99-8	MeOH	APP-9-048-R1	12	Hexachloropropene	1888-71-7	MeOH	APP-9-117	12
Chrysene	218-01-9	MeOH	APP-9-049	15	2-Hexanone ❄	591-78-6	MeOH	APP-9-118	12
m-Cresol	108-39-4	CH_2Cl_2	APP-9-050	12	Indeno[1,2,3-cd]pyrene	193-39-5	MeOH	APP-9-119	20
o-Cresol	95-48-7	CH_2Cl_2	APP-9-051	12	Isobutyl alcohol	78-83-1	MeOH	APP-9-120	12
p-Cresol	106-44-5	CH_2Cl_2	APP-9-052	12	Isodrin	465-73-6	MeOH	APP-9-121	12
2,4-D	94-75-7	MeOH	APP-9-053	12	Isophorone	78-59-1	MeOH	APP-9-122	12
4,4'-DDD	72-54-8	MeOH	APP-9-054	12	Isosafrole	120-58-1	CH_2Cl_2	APP-9-123	20
4,4'-DDE	72-55-9	MeOH	APP-9-055	12	Kepone	143-50-0	MeOH	APP-9-124	12
4,4'-DDT	50-29-3	MeOH	P-029S	12	Methacrylonitrile	126-98-7	MeOH	APP-9-125	20
Diallate	2303-16-4	MeOH	APP-9-057	42	Methapyrilene	91-80-5	CH_2Cl_2	APP-9-126	20
Dibenz[a,h]anthracene	53-70-3	MeOH	APP-9-058	15	Methoxychlor	72-43-5	MeOH	APP-9-127	12
Dibenzofuran	132-64-9	MeOH	APP-9-059	12	3-Methylcholanthrene	56-49-5	CH_2Cl_2	APP-9-128	20
Dibromochloromethane	124-48-1	MeOH	APP-9-060	12	Methyl ethyl ketone; MEK ❄	78-93-3	MeOH	APP-9-129	12
1,2-Dibromo-3-chloropropane	96-12-8	MeOH	APP-9-061	12	Methyl iodide: Iodomethane	74-88-4	MeOH	APP-9-130	12
Dibromomethane	74-95-3	MeOH	APP-9-062	12	Methyl methacrylate	80-62-6	MeOH	APP-9-131	12
1,2-Dibromoethane, EDB	107-06-2	MeOH	APP-9-214	12	Methyl methanesulfonate	66-27-3	CH_2Cl_2	APP-9-132	20
Di-*n*-butyl phthalate	84-74-2	MeOH	APP-9-063	12	2-Methylnaphthalene	91-57-6	CH_2Cl_2	APP-9-133	12
o-Dichlorobenzene	95-50-1	MeOH	APP-9-064	12	Methyl parathion	298-00-0	MeOH	APP-9-134	32
m-Dichlorobenzene	541-73-1	MeOH	APP-9-065	12	4-Methyl-2-pentanone *(MIBK)*	108-10-1	MeOH	APP-9-135	12
p-Dichlorobenzene	106-46-7	MeOH	APP-9-066	12	Naphthalene	91-20-3	CH_2Cl_2	APP-9-136	15
3,3'-Dichlorobenzidine	91-94-1	MeOH	APP-9-067	20	1,4-Naphthoquinone	130-15-4	CH_2Cl_2	APP-9-137	20
trans-1,4-Dichloro-2-butene	110-57-6	MeOH	APP-9-068	12	1-Naphthylamine	134-32-7	CH_2Cl_2	APP-9-138	20
Dichlorodifluoromethane	75-71-8	MeOH	APP-9-069	12	2-Naphthylamine	91-59-8	CH_2Cl_2	APP-9-139	20
1,1-Dichloroethane	75-34-3	MeOH	APP-9-070	12	*o*-Nitroaniline	88-74-4	CH_2Cl_2	APP-9-140	12

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

EPA Method 8000 Series
Appendix IX Compounds & Mixtures

Custom Appendix IX formulations are available. Please use our Custom Quotation Request for any custom mixture you may need.

The entire list of compounds can be purchased as a complete set
APP-9-SET $ 1,450 / 214 x 1 mL

Appendix IX Compounds
All solutions are in 100 µg/mL in 1 mL

Compound	CAS No.	Solv.	Cat. No.	Price
m-Nitroaniline	99-09-2	CH_2Cl_2	APP-9-141	$ 12
p-Nitroaniline	100-01-6	CH_2Cl_2	APP-9-142	12
Nitrobenzene	98-95-3	MeOH	APP-9-143	12
o-Nitrophenol	88-75-5	MeOH	APP-9-144	12
p-Nitrophenol	100-02-7	MeOH	APP-9-145	12
4-Nitroquinoline-1-oxide	56-57-5	CH_2Cl_2	APP-9-146	20
N-Nitrosodi-*n*-butylamine	924-16-3	CH_2Cl_2	APP-9-147	20
N-Nitrosodiethylamine	55-18-5	CH_2Cl_2	APP-9-148	20
N-Nitrosodimethylamine	62-75-9	CH_2Cl_2	APP-9-149	20
N-Nitrosodiphenylamine	86-30-6	CH_2Cl_2	APP-9-150	20
N-Nitrosodipropylamine	621-64-7	CH_2Cl_2	APP-9-151	20
N-Nitrosomethylethylamine	10595-95-6	CH_2Cl_2	APP-9-152	20
N-Nitrosomorpholine	59-89-2	CH_2Cl_2	APP-9-153	20
N-Nitrosopiperidine	100-75-4	CH_2Cl_2	APP-9-154	20
N-Nitrosopyrrolidine	930-55-2	CH_2Cl_2	APP-9-155	20
5-Nitro-*o*-toluidine	99-55-8	CH_2Cl_2	APP-9-156	20
Parathion	56-38-2	MeOH	APP-9-157	12
Polychlorinated biphenyls:				
Aroclor® 1016	12674-11-2	MeOH	APP-9-158	12
Aroclor 1221	11104-28-2	MeOH	APP-9-159	12
Aroclor 1232	11141-16-5	MeOH	APP-9-160	12
Aroclor 1242	53469-21-9	MeOH	APP-9-161	15
Aroclor 1248	12672-29-6	MeOH	APP-9-162	12
Aroclor 1254	11097-69-1	MeOH	APP-9-163	12
Aroclor 1260	11096-82-5	MeOH	APP-9-164	12
Aroclor 1262	37324-23-5	MeOH	APP-9-165	12
Aroclor 1268	11100-14-4	MeOH	APP-9-166	12
	0.5 mg/mL in	MeOH	APP-9-166-5X	15
Dioxins:				
1,2,3,4,7,8-HCDD (5 µg/mL)	39227-28-6	Toluene	APP-9-169	50
1,2,3,7,8-PCCD (5 µg/mL)	40321-76-4	Toluene	APP-9-168	50
2,3,7,8-TCDD (5 µg/mL)	1746-01-6	Toluene	APP-9-167	50
Polychlorinated dibenzofurans:				
1,2,3,4,7,8-HCDF (5 µg/mL)	55684-94-1	Toluene	APP-9-172	75
1,2,3,7,8-PCDF (5 µg/mL)	57117-41-6	Toluene	APP-9-171	75
2,3,7,8-TCDF (5 µg/mL)	51207-31-9	Toluene	APP-9-170	75

Compound	CAS No.	Solv.	Cat. No.	Price
Pentachlorobenzene	608-93-5	MeOH	APP-9-173	$ 12
Pentachloroethane	76-01-7	MeOH	APP-9-174	12
Pentachloronitrobenzene	82-68-8	MeOH	APP-9-175	12
Pentachlorophenol	87-86-5	MeOH	APP-9-176	12
Phenacetin	62-44-2	CH_2Cl_2	APP-9-177	20
Phenanthrene	85-01-8	MeOH	APP-9-178	15
Phenol	108-95-2	CH_2Cl_2	APP-9-179	12
p-Phenylenediamine	106-50-3	MeOH	APP-9-180	20
Phorate	298-02-2	MeOH	APP-9-181	12
2-Picoline	109-06-8	MeOH	APP-9-182	20
Pronamide	23950-58-5	MeOH	APP-9-183	12
Propionitrile	107-12-0	MeOH	APP-9-184	12
Pyrene	129-00-0	MeOH	APP-9-185	15
Pyridine	110-86-1	CH_2Cl_2	APP-9-186	12
Safrole	94-59-7	MeOH	APP-9-187	20
Silvex *(2,4,5-TP)*	93-72-1	MeOH	APP-9-188	12
Styrene	100-42-5	MeOH	APP-9-189	12
2,4,5-Trichlorophenoxy acetic acid	93-76-5	MeOH	APP-9-190	12
1,2,4,5-Tetrachlorobenzene	95-94-3	MeOH	APP-9-191	12
1,1,1,2-Tetrachloroethane	630-20-6	MeOH	APP-9-192	12
1,1,2,2-Tetrachloroethane	79-34-5	MeOH	APP-9-193	12
Tetrachloroethylene	127-18-4	MeOH	APP-9-194	12
2,3,4,6-Tetrachlorophenol	58-90-2	MeOH	APP-9-195	20
Tetraethyl dithiopyrophosphate *(Sulfotep)*	3689-24-5	MeOH	APP-9-196	22
Thionazin	297-97-2	MeOH	APP-9-197	42
Toluene	108-88-3	MeOH	APP-9-198	12
o-Toluidine	95-53-4	MeOH	APP-9-199	12
Toxaphene	8001-35-2	MeOH	APP-9-200	12
1,2,4-Trichlorobenzene	120-82-1	MeOH	APP-9-201	12
1,1,1-Trichloroethane	71-55-6	MeOH	APP-9-202	12
1,1,2-Trichloroethane	79-00-5	MeOH	APP-9-203	12
Trichloroethylene	79-01-6	MeOH	APP-9-204	12
Trichlorofluoromethane	75-69-4	MeOH	APP-9-205	12
2,4,5-Trichlorophenol	95-95-4	MeOH	APP-9-206	12
2,4,6-Trichlorophenol	88-06-2	MeOH	APP-9-207	12
1,2,3-Trichloropropane	96-18-4	MeOH	APP-9-208	12
O,O,O-Triethyl phosphorothioate	126-68-1	MeOH	APP-9-209	12
sym-Trinitrobenzene	99-35-4	MeOH	APP-9-210	12
Vinyl acetate ❄	108-05-4	MeOH	APP-9-211	12
Vinyl chloride	75-01-4	MeOH	APP-9-212	12
Xylene (total)	1330-20-7	MeOH	APP-9-213	12

Volatile Appendix IX Mixtures

M-8240A ❄ **$ 70 / 1 x 1 mL**
0.2 mg/mL each in MeOH 41 comps.

- Acetone
- Acrolein
- Acrylonitrile
- Benzene
- Bromodichloromethane
- Bromoform
- 2-Butanone
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- *cis*-1,4-Dichloro-2-butene +
- *trans*-1,4-Dichloro-2-butene ++
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *trans*-1,2-Dichloroethene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethanol
- Ethylbenzene
- 2-Hexanone
- Iodomethane
- 4-Methyl-2-pentanone
- Methylene chloride
- Styrene
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- Toluene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Vinyl acetate
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)
\+ cis (0.1 mg/mL)
++ trans (0.1 mg/mL)

M-502B **$ 25 / 1 x 1 mL**
M-502B-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH 6 comps.

- Bromomethane
- Chloromethane
- Chloroethane
- Dichlorodifluoromethane
- Trichlorofluoromethane
- Vinyl chloride

M-8240C **$ 35 / 1 x 1 mL**
0.2 mg/mL each in MeOH 17 comps.

- Acetonitrile
- Allyl chloride
- 1,2-Dibromo-3-chloropropane
- Dibromomethane
- 1,2-Dibromoethane
- 1,4-Dioxane
- Ethyl methacrylate
- Isobutyl alcohol
- Methacrylonitrile
- Methyl methacrylate
- Nitrobenzene
- Pentachloroethane
- Propionitrile
- Pyridine
- 1,1,1,2-Tetrachloroethane
- 1,2,4-Trichlorobenzene
- 1,2,3-Trichloropropane

Special Mixtures for Laboratories Testing Appendix IX Analytes

Laboratories analyzing Appendix IX analytes have requested custom formulation which are available from our stock inventory.

Volatile Mixtures

S-168A — **$ 30 / 1 x 1 mL**
0.5 mg/mL each in MeOH — 14 comps.

- Acetonitrile
- Acrolein
- Acrylonitrile
- Allyl chloride
- 1,2-Dibromoethane *(Ethylene dibromide)*
- 1,2-Dibromo-3-chloropropane *(Fumazone)*
- Dibromomethane
- 1,4-Dioxane
- Ethyl cyanide *(Propionitrile)*
- Iodomethane
- Isobutanol
- Methacrylonitrile
- 1,1,1,2-Tetrachloroethane
- 1,2,3-Trichloropropane

S-181M — **$ 20 / 1 x 1 mL**
0.1 mg/mL each in MeOH — 6 comps.

- bis(2-Chloro-1-methylethyl) ether
- Dichlorodifluoromethane
- Ethyl methacrylate
- Methyl methacrylate
- Pentachloroethane
- Pyridine

Semi-Volatile Mixtures

S-168-SET — **$ 150 / 2 x 1 mL (S-168-MIXA, S-168-MIXB)**

Mix 1

S-168-MIXA — **1 x 1 mL**
500 µg/mL each in CH_2Cl_2 — 5 comps.

- 3,3'-Dimethylbenzidine
- α,α-Dimethylphenethylamine
- 1,4-Naphthoquinone
- 4-Nitroquinoline-1-oxide
- *p*-Phenylenediamine

Mix 2

S-168-MIXB — **1 x 1 mL**
500 µg/mL each in CH_2Cl_2 — 38 comps.

- Acetophenone
- 2-Acetylaminofluorene
- 4-Aminobiphenyl
- Aramite
- 2-sec-Butyl-4,6-dinitrophenol
- *m*-Cresol
- 2,6-Dichlorophenol
- *p*-Dimethylamino azobenzene *(Methyl Yellow)*
- 7,12-Dimethylbenz[a]anthracene
- *m*-Dinitrobenzene
- Ethyl methacrylate
- Ethyl methanesulfonate
- Hexachlorophene
- Hexachloropropene
- Isosafrole
- Methapyrilene
- 3-Methylcholanthrene
- Methyl methacrylate
- Methyl methanesulfonate
- 1-Naphthylamine
- 2-Naphthylamine
- N-Nitrosodi-*n*-butylamine
- N-Nitrosodiethylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopyrrolidine
- 5-Nitro-*o*-toluidine
- Pentachlorobenzene
- Pentachloroethane
- Pentachloronitrobenzene
- Phenacetin
- 2-Picoline
- Pronamide
- Pyridine
- Safrole
- 1,2,4,5-Tetrachlorobenzene
- 2,3,4,6-Tetrachlorophenol
- *o*-Toluidine

S-184 — **$ 65 / 1 x 1 mL**
0.1 mg/mL each in CH_2Cl_2 — 19 comps.

- 2-Acetylaminofluorene
- 4-Aminobiphenyl
- *p*-(Dimethylamino)azobenzene
- α,α-Dimethylphenethylamine
- Diphenylamine
- 1,4-Naphthoquinone
- 1-Napthylamine
- 2-Napthylamine
- *o*-Nitroaniline
- *m*-Nitroaniline
- *p*-Nitroaniline
- 4-Nitroquinoline-1-oxide
- N-Nitrosodimethylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine
- 5-Nitro-*o*-toluidine
- *p*-Phenylenediamine

S-183-PAK — **$ 240 / 5 x 1 mL**
0.1 mg/mL each in CH_2Cl_2 — 18 comps.

- Acetophenone
- Chlorobenzilate
- 7,12-Dimethylbenz[a]anthracene
- 3,3'-Dimethylbenzidine
- *m*-Dinitrobenzene
- Ethyl methanesulfonate
- 1,2,4,5-Tetrachlorobenzene
- Isosafrole
- Methapyrilene
- 3-Methylcholanthrene
- Methyl methanesulfonate
- 2-Methylnaphthalene
- Pentachlorobenzene
- Pentachloronitrobenzene
- Phenacetin
- 2-Picoline
- Safrole
- O,O,O-Triethyl phosphorothioate

S-182-PAK — **$ 100 / 5 x 1 mL**
0.1 mg/mL each in CH_2Cl_2 — 6 comps.

- *o*-Cresol
- *m*-Cresol
- *p*-Cresol
- 2,6-Dichlorophenol
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol



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EPA Method 8000 Series
Volatile Internal (ISTD) / Surrogate(SS) Standards

With more proposed and promulgated methods available, analytical chemists are trying to combine analyte lists and shorten run times while still demonstrating method equivalence. AccuStandard has formulated a core evaluation deuterated solution and a second conventional internal/surrogate evaluation solution. These formulations allow the analyst to quickly evaluate ISTD/SS combinations for PID, Hall, FID or GC/MS applications.

Popular Internal Standards

M-502-IS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.
- 1-Chloro-2-bromopropane
- Fluorobenzene

M-524-IS-2 — **$ 12 / 1 x 1 mL**
2.0 mg/mL in MeOH
- Fluorobenzene

M-524-IS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.
- 1,2-Dichlorobenzene-d_4
- Fluorobenzene

M-502-IS-2 — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.
- 1-Chloro-2-bromopropane
- Fluorobenzene
- Methylene chloride-d_2

M-001R — **$ 15 / 1 x 1 mL**
20 mg/mL each in MeOH — 3 comps.
- Bromochloromethane
- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane

M-8020-IS — **$ 25 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 2 comps.
- 4-Bromofluorobenzene
- α,α,α-Trifluorotoluene

M-8240/60-IS — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 5 comps.
- Bromochloromethane
- Chlorobenzene-d_5
- 1,4-Dichlorobenzene-d_4
- 1,4-Difluorobenzene
- Pentafluorobenzene

M-8260-IS-R — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.
- 2-Bromo-1-chloropropane
- 1,4-Difluorobenzene
- 1,4-Dichlorobenzene-d_4
- Pentafluorobenzene

M-8260-IS — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.
- Chlorobenzene-d_5
- 1,4-Difluorobenzene
- 1,4-Dichlorobenzene-d_4
- Pentafluorobenzene

M-8260A/B-IS — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 3 comps.
- Chlorobenzene-d_5
- 1,4-Dichlorobenzene-d_4
- Fluorobenzene

ISTD/SS Evaluation Mixtures

Conventional ISTD/SS Evaluation Mix

M-CONV-IS/SS — **$ 60 / 1 x 1 mL**
200 µg/mL each in MeOH — 15 comps.

- 2-Bromochlorobenzene
- 4-Bromochlorobenzene
- Bromochloromethane
- p-Bromofluorobenzene
- 2-Bromo-1-chloropropane
- 1-Chloro-2-fluorobenzene
- 1-Chloro-3-fluorobenzene
- 1-Chloro-4-fluorobenzene
- 2-Chloropropane
- Dibromofluoromethane
- 1,4-Dichlorobutane
- 1,4-Difluorobenzene
- Fluorobenzene
- Pentafluorobenzene
- α,α,α-Trifluorotoluene

Deuterated ISTD/SS Evaluation Mix

M-DEUT-IS/SS — **$ 60 / 1 x 1 mL**
200 µg/mL each in MeOH — 8 comps.

- Benzene-d_6
- Chlorobenzene-d_5
- 1,2-Dichlorobenzene-d_4
- 1,4-Dichlorobenzene-d_4
- 1,2-Dichlorobethane-d_4
- Ethylbenzene-d_{10}
- Methylene chloride-d_2
- Toluene-d_8

Popular Surrogate Standards

M-502-IS-ASL — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.
- 2-Bromo-1-chloropropane
- 1-Chloro-2-fluorobenzene

M-524-SS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.
- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4

M-624-SS-M — **$ 25 / 1 x 1 mL**
20 mg/mL each in MeOH — 3 comps.
- 4-Bromofluorobenzene
- Fluorobenzene
- Pentafluorobenzene

M-8020-SS — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.
- 4-Bromochlorobenzene
- 1,4-Difluorobenzene
- Fluorobenzene

M-8021-SS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.
- 4-Bromochlorobenzene
- 1,4-Dichlorobutane

M-8021-SS-M — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.
- Bromochloromethane
- 1,4-Dichlorobutane

M-8021A-SS — **$ 20 / 1 x 1 mL**
20 mg/mL each in MeOH — 4 comps.
- 4-Bromochlorobenzene
- Bromochloromethane
- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane

M-8240/60-SS — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.
- *p*-Bromofluorobenzene
- Dibromofluoromethane
- 1,2-Dichloroethane-d_4
- Toluene-d_8

Popular ISTD/SS Standards

M-502-IS/SS — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.
- 1-Chloro-3-fluorobenzene
- 2-Chloropropane
- Fluorobenzene
- α,α,α-Trifluorotoluene

M-524-FS — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.
- 4-Bromofluorobenzene
- 1,2-Dichlorobenzene-d_4
- Fluorobenzene

M-8010-IS/SS — **$ 25 / 1 x 1 mL**
150 µg/mL each in MeOH — 3 comps.
- 4-Bromochlorobenzene
- Bromochloromethane
- 4-Bromofluorobenzene

M-8020-IS/SS-ASL — **$ 35 / 1 x 1 mL**
1.5 mg/mL each in MeOH — 5 comps.
- 4-Bromochlorobenzene
- *p*-Bromofluorobenzene
- 1,4-Difluorobenzene
- Fluorobenzene
- α,α,α-Trifluorotoluene

M-8240/60-IS/SS — **$ 45 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 9 comps.
- Bromochloromethane
- *p*-Bromofluorobenzene
- Chlorobenzene-d_5
- Dibromofluoromethane
- 1,4-Dichlorobenzene-d_4
- 1,2-Dichloroethane-d_4
- 1,4-Difluorobenzene
- Pentafluorobenzene
- Toluene-d_8

M-8260A/B-IS/SS — **$ 40 / 1 x 1 mL**
200 µg/mL each in MeOH — 7 comps.
- *p*-Bromofluorobenzene
- Chlorobenzene-d_5
- Dibromofluoromethane
- 1,4-Dichlorobenzene-d_4
- 1,2-Dichloroethane-d_4
- Fluorobenzene
- Toluene-d_8

Method 8010 Halogenated VOCs by GC/ELCD (Hall)

Method 8010 Purgeable Halocarbon Set

M-601-SET — **$ 50 / 4 x 1 mL**
0.2 mg/mL in MeOH — **(M-601A, M-502B, M-601C, M-501)**
M-601-10X-SET — **$ 75 / 4 x 1 mL**
2.0 mg/mL in MeOH — **(M-601A-10X, M-502B-10X, M-601C-10X, M-501-10X)**

Liquids

M-601A — **$ 35 / 1 x 1 mL**
M-601A-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-601A-10X — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 18 comps.

- Carbon tetrachloride
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropylene *
- *trans*-1,3-Dichloropropylene **
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethylene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Gases

M-502B — **$ 25 / 1 x 1 mL**
M-502B-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-502B-10X — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 6 comps.

- Bromomethane
- Chloromethane
- Chloroethane
- Dichlorodifluoromethane
- Trichlorofluoromethane
- Vinyl chloride

Liquid Component

M-601C — **$ 10 / 1 x 1 mL**
M-601C-PAK — *SAVE 20%* **$ 40 / 5 x 1 mL**
0.2 mg/mL in MeOH
M-601C-10X — **$ 10 / 1 x 1 mL**
2.0 mg/mL in MeOH

- 2-Chloroethylvinyl ether

Trihalomethanes

M-501 — **$ 17 / 1 x 1 mL**
M-501-PAK — *SAVE 20%* **$ 68 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-501-10X — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.

- Bromoform
- Chloroform
- Dichlorobromomethane
- Dibromochloromethane

Method 8010 Additional Analytes

M-8010R-1 — **$ 25 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 9 comps.

- Benzylchloride
- Bromobenzene
- bis(2-Chloroethoxy)methane
- 1-Chlorohexane
- Chloromethylmethyl ether
- 4-Chlorotoluene
- Dibromomethane
- 1,1,1,2-Tetrachloroethane
- 1,2,3-Trichloropropane

Surrogate Standard

M-001R — **$ 15 / 1 x 1 mL**
M-001R-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
20 mg/mL each in MeOH — 3 comps.

- Bromochloromethane
- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane

Halogenated VOCs by GC/ECLD (Hall)

M-8010A-SET — **$ 55 / 2 x 1 mL (M-8010A-M, M-601C)**

Method 8010A (Methanol Version)

M-8010A-M — **$ 55 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 33 comps.

- Benzylchloride
- Bromobenzene
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorobromomethane
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropylene *
- *trans*-1,3-Dichloropropylene **
- Methylene chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethylene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- Vinyl chloride

* 1.06 times conc.
** 0.94 times conc.

M-601C — **$ 10 / 1 x 1 mL**
0.2 mg/mL in MeOH

- 2-Chloroethylvinyl ether

Method 8010A Acetonitrile Version

Method 8010A (Acetonitrile Version)

M-8010A — **$ 55 / 1 x 1 mL**
0.2 mg/mL each in AcCN — 34 comps.

- Benzylchloride
- Bromobenzene
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- 2-Chloroethylvinyl ether
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorobromomethane
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropylene *
- *trans*-1,3-Dichloropropylene **
- Methylene chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethylene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- Vinyl chloride

* 1.06 times conc.
** 0.94 times conc.

Internal & Surrogate Standard

M-8010-IS/SS — **$ 25 / 1 x 1 mL**
M-8010-IS/SS-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
150 µg/mL each in MeOH — 3 comps.

- 4-Bromochlorobenzene
- 4-Bromofluorobenzene
- Bromochloromethane

Method 8010B Halogenated VOCs by GC/ELCD (Hall)

Halogenated Volatiles (Acetonitrile Version)

M-8010A — **$ 55 / 1 x 1 mL**
0.2 mg/mL each in AcCN — 34 comps.

- Benzylchloride
- Bromobenzene
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- 2-Chloroethylvinyl ether
- Chloroform
- Chloromethane
- Dibromochloromethane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorobromomethane
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- *trans*-1,2-Dichloroethylene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropylene *
- *trans*-1,3-Dichloropropylene **
- Methylene chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethylene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- Vinyl chloride

* 1.06 times conc.
** 0.94 times conc.

Halogenated Volatiles (Methanol Versions)

Mix #1

M-8010B — **$ 45 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 40 comps.

- Allyl chloride
- Bromobenzene
- Bromoform
- Bromomethane
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- 2-Chloroethanol
- Chloroform
- 1-Chlorohexane
- Chloromethane
- 4-Chlorotoluene
- Dibromochloromethane
- 1,2-Dibromo-3-chloropropane
- Dibromomethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Dichlorobromomethane
- 1,4-Dichloro-2-butene
- Dichlorodifluoromethane
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- *trans*-1,2-Dichloroethene
- 1,2-Dichloropropane
- 1,3-Dichloro-2-propanol
- *cis*-1,3-Dichloropropene *
- *trans*-1,3-Dichloropropene **
- Ethylene dibromide
- Methylene chloride
- 1,1,1,2-Tetrachloroethane
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Trichlorofluoromethane
- 1,2,3-Trichloropropane
- Vinyl chloride

* 1.06 times conc.
** 0.94 times conc.

Mix #2

M-8021B-X1 — **$ 35 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 5 comps.

- Benzyl chloride
- bis(2-Chloroethoxy)methane
- 2-Chloroethylvinyl ether
- bis(2-Chloro-1-methylethyl) ether
- Epichlorohydrin

Internal and Surrogate Standard

M-8010-IS/SS — **$ 25 / 1 x 1 mL**
M-8010-IS/SS-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
150 µg/mL each in MeOH — 3 comps.

- 4-Bromochlorobenzene
- Bromochloromethane
- 4-Bromofluorobenzene

Surrogate Standard

M-001R — **$ 15 / 1 x 1 mL**
M-001R-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
20 mg/mL each in MeOH — 3 comps

- Bromochloromethane
- 1,4-Dichlorobutane
- 2-Bromo-1-chloropropane

Halogenated Volatiles

M-8021B-X2 — **$ 35 / 1 x 1 mL**
0.2 mg/mL each in Pentane — 2 comps.

- Bromoacetone
- Chloromethylmethyl ether

APP-9-030 — **$ 12 / 1 x 1 mL**
100 µg/mL in MeOH

- Bromodichloromethane

APP-9-130 — **$ 12 / 1 x 1 mL**
100 µg/mL in MeOH

- Methyl iodide

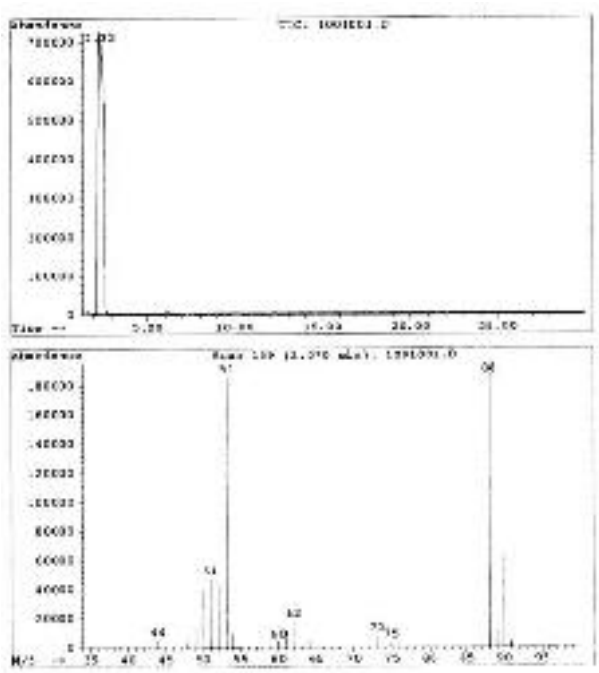
Chloroprene (Xylene-Free)

APP-9-048-R1 — **$ 12 / 1 x 1 mL**
100 µg/mL in MeOH
APP-9-048-R1-2X — **$ 12 / 1 x 1 mL**
200 µg/mL in MeOH
APP-9-048-R1-20X — **$ 30 / 1 x 1 mL**
2000 µg/mL in MeOH

- Chloroprene

Pure Chloroprene !!

Unlike traditional sources, this Chloroprene does not contain any xylenes and is not contaminated with extraneous solvents and by-products of commercial Chloroprene. It will facilitate quantification of analytes by **EPA Methods 524.2, 502.2, 8010, 8021 and 8240/8260** without interference from the xylenes previously present.



Method 8011 DBCP & EDB by GC/MS

M-504-10X — **$ 15 / 1 x 1 mL**
M-504-10X-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

- 1,2-Dibromo-3-chloropropane *(DBCP)*
- 1,2-Dibromoethane *(EDB)*

Method 8015A (Rev 1, July 1992) Non-Halogenated Volatile Organics by GC/FID

M-8015A — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 4 comps.
M-8015A-10X — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.

Diethyl ether
Ethanol
Methyl ethyl ketone
Methyl isobutyl ketone

Non-Halogenated Volatile Organics

M-8015-ASL — **$ 40 / 1 x 1 mL**
100 µg/mL each in MeOH — Alternate Source — 12 comps.

Acetonitrile
Acrylamide
2-Butanone
Diethyl ether
1,4-Dioxane
Ethanol
Ethyl methacrylate
Isobutyl alcohol
Methacrylonitrile
Methyl methacrylate
4-Methyl-2-pentanone
Propionitrile

Internal Standard

M-8015B-IS-10X — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in Water — 3 comps.

2-Chloroacrylonitrile
Hexafluoro-2-methyl-2-propanol
Hexafluoro-2-propanol

Method 8015B Non-Halogenated Organics by GC/FID

M-8015B/5031-R-SET — **$ 300 / set of 27 x 1 mL**
Each at 10 mg/mL in H_2O

Compound	Cat. No.	Price / 1 mL
Acetone	M-8015B/5031-01	$ 25
Acetonitrile	M-8015B/5031-02	25
Acrolein	M-8015B/5031-03	25
Acrylonitrile	M-8015B/5031-04	25
Allyl alcohol	M-8015B/5031-05	25
1-Butanol	M-8015B/5031-06	25
t-Butanol	M-8015B/5031-07	25
Crotonaldehyde	M-8015B/5031-08	25
Diethyl ether	M-8015B/5031-09	25
p-Dioxane	M-8015B/5031-10	25
Ethanol	M-8015B/5031-11	25
Ethyl acetate	M-8015B/5031-12	25
Ethylene glycol	M-8015B/5031-13	25
Ethylene oxide (5.0 mg/mL)	M-8015B/5031-14-R1 ❄	20
Isobutyl alcohol	M-8015B/5031-15	25
Isopropanol	M-8015B/5031-16	25
Methanol	M-8015B/5031-17	20
Methyl ethyl ketone	M-8015B/5031-18	25
4-Methyl-2-pentanone	M-8015B/5031-19	25
N-Nitrosodi-*n*-butylamine (0.5 mg/mL)	M-8015B/5031-20	25
Paraldehyde	M-8015B/5031-21	25
2-Pentanone	M-8015B/5031-22	25
2-Picoline	M-8015B/5031-23	25
1-Propanol	M-8015B/5031-24	25
Propionitrile	M-8015B/5031-25	25
Pyridine	M-8015B/5031-26	25
o-Toluidine	M-8015B/5031-27	25

Method 5031 GC/FID Internal Standards for Method 8015B/5031 Azeotropic Distillation

M-8260/5031-IS-FID — **$ 30 / 1 x 1 mL**
5.0 mg/mL each in H_2O — 3 comps.

2-Chloroacetonitrile
Hexafluoro-2-methyl-2-propanol
Hexafluoro-2-propanol

Technical Note

Method 5031 describes the separation procedures for non-purgeable, water-soluble and volatile organic compounds in aqueous samples of leachates from solid matrices using azeotropic distillation.
Method 8015B is the GC/FID analytical method of analysis. Fuels referenced for analysis by method 8015B can be found in LUFT/LUST.

Method 8020 Aromatic Volatiles by PID

Aromatic Volatile Analytes

M-8020 — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 10 comps.
M-8020-10X — **$ 30 / 1 x 1 mL**
M-8020-10X-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 10 comps.

Benzene
Chlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Ethylbenzene
Toluene
o-Xylene
m-Xylene
p-Xylene

M-8020B-R1 — **$ 40 / 1 x 1 mL**
M-8020B-R1-PAK — *SAVE 20%* **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 13 comps.

Benzene
Chlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Ethylbenzene
2-Picoline
Pyridine
Thiophenol
Toluene
o-Xylene
m-Xylene
p-Xylene

Performance Check Solution

M-8020-QC — **$ 12 / 1 x 1 mL**
M-8020-QC-PAK — *SAVE 20%* **$ 48 / 5 x 1 mL**
2.0 mg/mL in MeOH

Methyl *t*-butyl ether

Internal Standards

M-8020-IS — **$ 25 / 1 x 1 mL**
M-8020-IS-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 2 comps.
M-8020-IS-10X — **$ 25 / 1 x 1 mL**
M-8020-IS-10X-PAK — *SAVE 20%* **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

4-Bromofluorobenzene
α,α,α-Trifluorotoluene

Surrogate Standards

M-8020-SS — **$ 30 / 1 x 1 mL**
M-8020-SS-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 3 comps.

4-Bromochlorobenzene
1,4-Difluorobenzene
Fluorobenzene

M-8020-SS-1 — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH

4-Bromochlorobenzene

Combined ISTD/SS Solution

M-8020-IS/SS-ASL — **$ 35 / 1 x 1 mL**
M-8020-IS/SS-ASL-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
1.5 mg/mL each in MeOH — 5 comps.

4-Bromochlorobenzene
p-Bromofluorobenzene
1,4-Difluorobenzene
Fluorobenzene
α,α,α-Trifluorotoluene

❄ A ColdPAK is required.

Method 8021B Purgeable Volatiles by PID/ELCD in Series

Method 8021 is used to determine volatile organic compounds in a variety of solid waste matrices using PID/ELCD detectors in series. AccuStandard segregated the analyte list into formulations that provide the widest adaptability to various types of samples and appropriate sample introduction techniques mentioned in the method.

54 Liquid Components

Benzene (01)
Bromobenzene (02)
Bromochloromethane (03)
Bromodichloromethane (04)
Bromoform (05)
n-Butylbenzene (07)
sec-Butylbenzene (08)
tert-Butylbenzene (09)
Carbon tetrachloride (10)
Chlorobenzene (11)
Chloroform (13)
2-Chlorotoluene (15)
4-Chlorotoluene (16)
Dibromochloromethane (17)
1,2-Dibromo-3-chloropropane (18)
1,2-Dibromoethane (19)
Dibromomethane (20)
1,2-Dichlorobenzene (21)
1,3-Dichlorobenzene (22)
1,4-Dichlorobenzene (23)
1,1-Dichloroethane (25)
1,2-Dichloroethane (26)
1,1-Dichloroethene (27)
cis-1,2-Dichloroethene (28)
trans-1,2-Dichloroethene (29)
1,2-Dichloropropane (30)
1,3-Dichloropropane (31)
2,2-Dichloropropane (32)
1,1-Dichloropropene (33)
cis-1,3-Dichloropropene (34A) *
trans-1,3-Dichloropropene (34B) **
Ethylbenzene (35)
Hexachlorobutadiene (36)
Isopropylbenzene *(Cumene)* (37)
p-Isopropyltoluene *(p-Cymene)* (38)
Methylene chloride (39)
Naphthalene (40)
n-Propylbenzene (41)
Styrene (42)
1,1,1,2-Tetrachloroethane (43)
1,1,2,2-Tetrachloroethane (44)
Tetrachloroethene (45)
Toluene (46)
1,2,3-Trichlorobenzene (47)
1,2,4-Trichlorobenzene (48)
1,1,1-Trichloroethane (49)
1,1,2-Trichloroethane (50)
Trichloroethene (51)
1,2,3-Trichloropropane (53)
1,2,4-Trimethylbenzene (54)
1,3,5-Trimethylbenzene (55)
o-Xylene (57)
m-Xylene (58)
p-Xylene (59)

* cis (1.06 x conc.)
** trans (0.94 x conc.)

6 Gas Components

Bromomethane (06)
Chloroethane (12)
Chloromethane (14)
Dichlorodifluoromethane (24)
Trichlorofluoromethane (52)
Vinyl chloride (56)

All 60 liquid & gas components in One Solution

Liquids (54 comps.) and Gases (6 comps.)

M-502 — **$ 75 / 1 x 1 mL**
M-502-PAK — ***SAVE 20%*** **$ 300 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-502-10X — **$ 100 / 1 x 1 mL**
M-502-10X-PAK — ***SAVE 20%*** **$ 400 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 60 comps.

59 Component Set

As a complete set of each component in individual ampules.

M-502-SET	0.2 mg/mL in MeOH	**$ 300 / 59 x 1 mL**
M-502-10X-SET	2.0 mg/mL in MeOH	**$ 350 / 59 x 1 mL**

Individual Component Solutions

To order, specify identity (#) and conc. (0.2 or 2.0 mg/mL)

M-502-#	0.2 mg/mL in MeOH	**$ 10 / 1 x 1 mL**
M-502-#-10X	2.0 mg/mL in MeOH	**$ 14 / 1 x 1 mL**

M-502-34A & M-502-34B only available as mixture: M-502-34R

M-502-34-R — **$ 10 / 1 x 1 mL**
0.4 mg/mL each in MeOH
M-502-34-R-10X — **$ 15 / 1 x 1 mL**
4.0 mg/mL each in MeOH — 2 comps.

cis-1,3-Dichloropropene
trans-1,3-Dichloropropene

Individual Component Neats

To order, specify identity

M-502-#N — **$ 20 / 1 x 1 gram**
except M-502-32N & M-502-43N — **$ 30 / 1 x 1 gram**

Halogenated Non-Aromatic Volatiles Solution #1

M-8021B-NAV — **$ 50 / 1 x 1 mL**
M-8021B-NAV-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 35 comps.

Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chloroethane
Chloroform
Chlorodibromomethane
Chloromethane
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
Dibromomethane
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Dichloromethane
1,2-Dichloropropane
1,3-Dichloropropane
2,2-Dichloropropane
1,1-Dichloropropene
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Hexachlorobutadiene
Tetrachloroethene
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Trichloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichlorofluoromethane
1,2,3-Trichloropropane
Vinyl chloride

Aromatic Volatiles Solution #2

M-8021B-AV — **$ 30 / 1 x 1 mL**
M-8021B-AV-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 25 comps.

Benzene
Bromobenzene
n-Butylbenzene
sec-Butylbenzene
tert-Butylbenzene
Chlorobenzene
2-Chlorotoluene
4-Chlorotoluene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Ethylbenzene
Isopropylbenzene
p-Isopropyltoluene
Naphthalene
n-Propylbenzene
Styrene
Toluene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-Xylene
m-Xylene
p-Xylene

Halogenated Volatiles Solution #3

M-8021B-X1 — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 8 comps.

Allyl chloride
Benzyl chloride
2-Chloroethanol
2-Chloroethylvinyl ether
bis(2-Chloroisopropyl) ether
Chloroprene (Xylene-free)
1,3-Dichloro-2-propanol
Epichlorohydrin

Halogenated Volatiles Solution #4

M-8021B-X2 — **$ 35 / 1 x 1 mL**
0.2 mg/mL each in Pentane — 2 comps.

Bromoacetone
Chloromethyl methyl ether

EPA Method 8000 Series

Method 8021B Purgeable Volatiles by PID/ELCD (Hall)

Internal Standard Solutions

M-8021B-IS — $ 15 / 1 x 1 mL
M-8021B-IS-PAK — SAVE 20% — $ 60 / 5 x 1 mL
5 µg/mL each in MeOH

M-8021B-IS-10X — $ 15 / 1 x 1 mL
M-8021B-IS-10X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
50 µg/mL each in MeOH

M-8021B-IS-100X — $ 15 / 1 x 1 mL
M-8021B-IS-100X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
500 µg/mL each in MeOH — 2 comps.

2-Bromo-1-chloropropane
Fluorobenzene

Purgeable Internal Standards

M-001R-0.75X — $ 15 / 1 x 1 mL
M-001R-0.75X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
15 mg/mL each in MeOH

M-001R-0.075X — $ 15 / 1 x 1 mL
M-001R-0.075X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
1.5 mg/mL each in MeOH

M-001R-0.0075X — $ 15 / 1 x 1 mL
M-001R-0.0075X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
150 µg/mL each in MeOH — 3 comps.

Bromochloromethane
2-Bromo-1-chloropropane
1,4-Dichlorobutane

Surrogate Standard Solutions

M-8021B-SS — $ 15 / 1 x 1 mL
M-8021B-SS-PAK — SAVE 20% — $ 60 / 5 x 1 mL
15 µg/mL each in MeOH

M-8021B-SS-10X — $ 15 / 1 x 1 mL
M-8021B-SS-10X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
150 µg/mL each in MeOH

M-8021B-SS-100X — $ 15 / 1 x 1 mL
M-8021B-SS-100X-PAK — SAVE 20% — $ 60 / 5 x 1 mL
1,500 µg/mL each in MeOH — 2 comps.

4-Bromochlorobenzene
1,4-Dichlorobutane

Surrogate Standards

M-8021-SS — $ 20 / 1 x 1 mL
M-8021-SS-PAK — SAVE 20% — $ 80 / 5 x 1 mL
2.0 mg/mL each in MeOH — 2 comps.

4-Bromochlorobenzene
1,4-Dichlorobutane

M-8021-SS-M — $ 20 / 1 x 1 mL
M-8021-SS-M-PAK — SAVE 20% — $ 80 / 5 x 1 mL
2.0 mg/mL each in MeOH — 2 comps.

Bromochloromethane
1,4-Dichlorobutane

M-001R — $ 15 / 1 x 1 mL
M-001R-PAK — SAVE 20% — $ 60 / 5 x 1 mL
20 mg/mL each in MeOH — 3 comps.

Bromochloromethane
2-Bromo-1-chloropropane
1,4-Dichlorobutane

M-8021A-SS — $ 20 / 1 x 1 mL
M-8021A-SS-PAK — SAVE 20% — $ 80 / 5 x 1 mL
20 mg/mL each in MeOH — 4 comps.

4-Bromochlorobenzene
1,4-Dichlorobutane
Bromochloromethane
2-Bromo-1-chloropropane

Chloroprene Solution (Xylene-Free)

APP-9-048-R1-2X — $ 14 / 1 x 1 mL
0.2 mg/mL in MeOH

Chloroprene

Method 8030A Acrolein & Acrylonitrile by GC/FID

M-603-10X — $ 17 / 1 x 1 mL
10 mg/mL each in Water — 2 comps.

Acrolein
Acrylonitrile

Method 8031 Acrylonitrile by GC/NPD

APP-9-008-10X — $ 20 / 1 x 1 mL
APP-9-008-10X-PAK — SAVE 20% — $ 80 / 5 x 1 mL
1.0 mg/mL in MeOH

Acrylonitrile

Method 8032/8032A Acrylamide by GC/ECD

Acrylamide

M-8032 — $ 10 / 1 x 1 mL
M-8032-PAK — SAVE 20% — $ 40 / 5 x 1 mL
1.0 mg/mL in MeOH

Acrylamide

Brominated Analyte

M-8032B — $ 20 / 1 x 1 mL
M-8032B-PAK — SAVE 20% — $ 80 / 5 x 1 mL
0.1 mg/mL in Ethyl acetate

2,3-Dibromopropionamide

Internal Standard

M-8032-IS — $ 10 / 1 x 1 mL
M-8032-IS-PAK — SAVE 20% — $ 40 / 5 x 1 mL
0.1 mg/mL in Ethyl acetate

Dimethyl phthalate

Method 8033 Acrylonitrile by GC/NPD

Acrylonitrile

M-8033 — $ 12 / 1 x 1 mL
M-8033-PAK — SAVE 20% — $ 48 / 5 x 1 mL
1,000 µg/mL in H_2O

Acrylonitrile

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



Technical Note

AccuStandard has synthesized Xylene-free Chloroprene. Since it contains no significant chemical impurities, the APP-9-048-R1-2X can be combined with any of the other formulations.

Method 8040 Phenols, PFB Derivatives by GC/ECD

Phenols, PFB Derivatives Set
M-8040-PFB-SET — **$ 300 / 19 x 1 mL**
Each at 0.2 mg/mL in Isopropyl alcohol

(01) 4-Chloro-3-cresol
(02) *o*-Chlorophenol
(03) *m*-Cresol
(04) *o*-Cresol
(05) *p*-Cresol
(06) 2-Cyclohexyl-4,6-dinitrophenol *(Dinex)*
(07) 2,4-Dichlorophenol
(08) 2,6-Dichlorophenol
(09) 2,4-Dimethylphenol
(10) 2,4-Dinitrophenol
(11) Dinoseb
(12) 2-Methyl-4,6-dinitrophenol
(13) *o*-Nitrophenol
(14) *p*-Nitrophenol
(15) Pentachlorophenol
(16) Phenol
(17) 2,3,4,6-Tetrachlorophenol
(18) 2,4,5-Trichlorophenol
(19) 2,4,6-Trichlorophenol

Phenols, PFB Derivatives - Mix A
M-8040A-R-PFB — **$ 80 / 1 x 1 mL**
M-8040A-R-PFB-PAK — ***SAVE 20%*** **$ 320 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 10 comps.

4-Chloro-3-cresol
o-Cresol
2-Cyclohexyl-4,6-dinitrophenol *(Dinex)*
2,4-Dichlorophenol
2-Methyl-4,6-dinitrophenol
o-Nitrophenol
p-Nitrophenol
2,4,6-Trichlorophenol
Pentachlorophenol
Phenol

Phenols, PFB Derivatives - Mix B
M-8040B-R-PFB — **$ 80 / 1 x 1 mL**
M-8040B-R-PFB-PAK — ***SAVE 20%*** **$ 320 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 9 comps.

o-Chlorophenol
m-Cresol
p-Cresol
2,6-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
Dinoseb
2,3,4,6-Tetrachlorophenol
2,4,5-Trichlorophenol

Technical Note
With our synthesis capabilities, AccuStandard is the first standards manufacturing company to also offer the PFB derivatives. We provide the largest selection of certified standards, which allows your laboratory to optimize instrumentation efficiency.

Surrogate Standard
M-8040-SS — **$ 10 / 1 x 1 mL**
M-8040-SS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
2.0 mg/mL each in Isopropyl alcohol — 2 comps.

2-Fluorophenol
2,4,6-Tribromophenol

Surrogate Standard, PFB Derivatives
M-8040-SS-PFB — **$ 30 / 1 x 1 mL**
M-8040-SS-PFB-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

2-Fluorophenol
2,4,6-Tribromophenol

Method 8040A Phenols by GC/FID

Phenol Set
M-8040-SET — **$ 200 / 19 x 1 mL**
Each at 1.0 mg/mL in MeOH

(01) 4-Chloro-3-cresol
(02) *o*-Chlorophenol
(03) *m*-Cresol
(04) *o*-Cresol
(05) *p*-Cresol
(06) 2-Cyclohexyl-4,6-dinitrophenol *(Dinex)*
(07) 2,4-Dichlorophenol
(08) 2,6-Dichlorophenol
(09) 2,4-Dimethylphenol
(10) 2,4-Dinitrophenol
(11) Dinoseb
(12) 2-Methyl-4,6-dinitrophenol
(13) *o*-Nitrophenol
(14) *p*-Nitrophenol
(15) Pentachlorophenol
(16) Phenol
(17) 2,3,4,6-Tetrachlorophenol
(18) 2,4,5-Trichlorophenol
(19) 2,4,6-Trichlorophenol

Mix A
M-8040A-R — **$ 40 / 1 x 1 mL**
M-8040A-R-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in Isopropyl alcohol — 10 comps.

4-Chloro-3-cresol
o-Cresol
2-Cyclohexyl-4,6-dinitrophenol *(Dinex)*
2,4-Dichlorophenol
2-Methyl-4,6-dinitrophenol
o-Nitrophenol
p-Nitrophenol
2,4,6-Trichlorophenol
Pentachlorophenol
Phenol

Mix B
M-8040B-R — **$ 35 / 1 x 1 mL**
M-8040B-R-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2.0 mg/mL each in Isopropyl alcohol — 9 comps.

o-Chlorophenol
m-Cresol
p-Cresol
2,6-Dichlorophenol
2,4-Dimethylphenol
2,4-Dinitrophenol
Dinoseb
2,3,4,6-Tetrachlorophenol
2,4,5-Trichlorophenol

Phenols QC Check Standard
M-8040A-ASL — Alternate Source — **$ 40 / 1 x 1 mL**
M-8040A-ASL-PAK — ***SAVE 20%*** **$ 160 / 1 x 1 mL**
100 µg/mL each in Isopropyl alcohol
M-8040A-ASL-20X — **$ 70 / 1 x 1 mL**
2000 µg/mL each in Isopropyl alcohol — 19 comps.

Dinoseb
4-Chloro-3-methylphenol
2-Chlorophenol
o-Cresol
m-Cresol
p-Cresol
2-Cyclohexyl-4,6-dinitrophenol
2,4-Dichlorophenol
2,6-Dichlorophenol
2,4-Dimethylphenol
4,6-Dinitro-*o*-cresol
2,4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
Pentachlorophenol
Phenol
2,3,4,6-Tetrachlorophenol
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol

Method 8040/8040A Bromo Phenols and Anisoles

Bromo Phenols
Each at 100 µg/mL in Toluene

Compound	Cat. No.	Price / 1 mL	Compound	Cat. No.	Price / 1 mL
3-Bromophenol	BP-003S	$ 15	2,3,4-Tribromophenol	BP-234S	$ 75
4-Bromophenol	BP-004S	15	2,4,5-Tribromophenol	BP-245S	75
2,3-Dibromophenol	BP-023S	75	2,4,6-Tribromophenol	BP-246S	15
2,4-Dibromophenol	BP-024S	15	3,4,5-Tribromophenol	BP-345S	75
2,5-Dibromophenol	BP-025S	75	2,3,4,5-Tetrabromophenol	BP-2345S	75
2,6-Dibromophenol	BP-026S	25	2,3,4,6-Tetrabromophenol	BP-2346S	75
3,5-Dibromophenol	BP-035S	75	2,3,5,6-Tetrabromophenol	BP-2356S	75
			Pentabromophenol	BP-23456S	15

NEW

Bromo Anisoles (Methyl Esters)
Each at 50 µg/mL in Methanol

Compound	Cat. No.	Price 1 mL
2-Bromoanisole	BAN-01	$ 45
3-Bromoanisole	BAN-02	45
4-Bromoanisole	BAN-03	45
2,3-Dibromoanisole	BAN-04	75
2,4-Dibromoanisole	BAN-05	45
2,5-Dibromoanisole	BAN-06	75
2,6-Dibromoanisole	BAN-07	45
3,5-Dibromoanisole	BAN-08	45
2,4,5-Tribromoanisole	BAN-09	95
2,4,6-Tribromoanisole	BAN-10	45

EPA Method 8000 Series

Method 8041 Phenols by GC-FID or ECD as the Derivatives

RCRA Target Phenols Solution

M-8041 **$ 70 / 1 x 1 mL**
M-8041-PAK *SAVE 20%* **$ 280 / 5 x 1 mL**
1.0 mg/mL each in Isopropanol 21 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2-Cyclohexyl-4,6-dinitrophenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- Dinoseb *(DNBP)*
- 2,4-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2-Methylphenol *(o-Cresol)*
- 3-Methylphenol *(m-Cresol)*
- 4-Methylphenol *(p-Cresol)*
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,3,4,5-Tetrachlorophenol
- 2,3,4,6-Tetrachlorophenol
- 2,3,5,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Technical Note

The method analytes were formulated into two distinct solutions to meet the needs of laboratories analyzing only the RCRA analytes or the combined RCRA/non-RCRA analytes.

Non-RCRA Target Phenols Solution

M-8041-X1 **$ 60 / 1 x 1 mL**
M-8041-X1-PAK *SAVE 20%* **$ 240 / 5 x 1 mL**
1.0 mg/mL each in Isopropanol 18 comps.

- 2-Chloro-5-methylphenol
- 4-Chloro-2-methylphenol
- 3-Chlorophenol
- 4-Chlorophenol
- 2,3-Dichlorophenol
- 2,5-Dichlorophenol
- 3,4-Dichlorophenol
- 3,5-Dichlorophenol
- 2,3-Dimethylphenol
- 2,5-Dimethylphenol
- 2,6-Dimethylphenol
- 3,4-Dimethylphenol
- 2,5-Dinitrophenol
- 3-Nitrophenol
- 2,3,4-Trichlorophenol
- 2,3,5-Trichlorophenol
- 2,3,6-Trichlorophenol
- 3,4,5-Trichlorophenol

Internal Standards

M-8041-IS **$ 15 / 1 x 1 mL**
M-8041-IS-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
50 µg/mL each in Isopropanol
M-8041-IS-10X **$ 30 / 1 x 1 mL**
M-8041-IS-10X-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
0.5 mg/mL each in Isopropanol
M-8041-IS-20X **$ 40 / 1 x 1 mL**
M-8041-IS-20X-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
1.0 mg/mL each in Isopropanol 2 comps.

- 2,5-Dibromotoluene
- 2,2',5,5'-Tetrabromobiphenyl

Surrogate Standards

M-8041-SS **$ 10 / 1 x 1 mL**
M-8041-SS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
1.6 µg/mL in Isopropanol
M-8041-SS-10X **$ 10 / 1 x 1 mL**
M-8041-SS-10X-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
16 µg/mL in Isopropanol
M-8041-SS-100X **$ 10 / 1 x 1 mL**
M-8041-SS-100X-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
160 µg/mL in Isopropanol
M-8041-SS-625X **$ 10 / 1 x 1 mL**
M-8041-SS-625X-PAK *SAVE20%* **$ 40 / 5 x 1 mL**
1.0 mg/mL in Isopropanol

- 2,4-Dibromophenol

Method 8060 Phthalate Esters by GC/ECD

Phthalate Esters

M-8060 **$ 25 / 1 x 1 mL**
M-8060-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
2.0 mg/mL each in Isooctane 6 comps.

- Benzyl butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-*n*-butyl phthalate
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate

M-8060-QC **$ 25 / 1 x 1 mL**
M-8060-QC-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in MeOH 6 comps.

- Benzyl butyl phthalate (0.1 mg/mL)
- Diethyl phthalate (0.25 mg/mL)
- Dimethyl phthalate (0.25 mg/mL)
- Di-*n*-butyl phthalate (0.25 mg/mL)
- Di-*n*-octyl phthalate (0.5 mg/mL)
- bis(2-Ethylhexyl)phthalate (0.5 mg/mL)

Method 8061A Phthalate Esters by GC/ECD

Phthalate Esters

M-8061-R1 **$ 60 / 1 x 1 mL**
M-8061-R1-PAK *SAVE 20%* **$ 240 / 5 x 1 mL**
1.0 mg/mL each in Hexane 15 comps.

- bis(2-*n*-Butoxyethyl)phthalate
- Butyl benzyl phthalate
- Diamyl phthalate
- Di-n-butyl phthalate
- Dicyclohexyl phthalate
- Diethyl phthalate
- Dihexyl phthalate
- Diisobutyl phthalate
- Dimethyl phthalate
- Dinonyl phthalate
- Di-*n*-octyl phthalate
- bis(2-Ethoxyethyl)phthalate
- bis(2-Ethylhexyl)phthalate
- bis(2-Methoxyethyl)phthalate
- bis(4-Methyl-2-pentyl)phthalate

M-8061A **$ 25 / 1 x 1 mL**
M-8061A-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
1.0 mg/mL each in Hexane 6 comps.

- Butyl benzyl phthalate
- bis(2-Ethylhexyl)phthalate
- Di-*n*-butyl phthalate
- Diethyl phthalate
- Dimethyl phthalate
- Di-*n*-octyl phthalate

Matrix Spike Solution

M-8061A-MS **$ 15 / 1 x 1 mL**
M-8061A-MS-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
2.0 mg/mL each in Acetone 2 comps.

- Butyl benzyl phthalate
- bis(2-Ethylhexyl)phthalate

Internal Standard

M-8061-IS **$ 10 / 1 x 1 mL**
M-8061-IS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
5.0 mg/mL in Hexane

- Benzyl benzoate

Surrogate Standards

M-8061-SS **$ 20 / 1 x 1 mL**
M-8061-SS-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
50 µg/mL each in Acetone
M-8061-SS-10X **$ 20 / 1 x 1 mL**
M-8061-SS-10X-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
500 µg/mL each in Acetone 3 comps.

- Dibenzyl phthalate
- Diphenyl isophthalate
- Diphenyl phthalate

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 8070A Nitrosamines by NPD/Reductive Hall or TEA

Nitrosamines

M-8070 **$ 25 / 1 x 1 mL**
M-8070-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH 3 comps.

- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine

Nitrosamines Mix

Alternate Source

M-8270-03-ASL **$ 60 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 9 comps.

- N-Nitrosodi-*n*-butylamine
- N-Nitrosodiethylamine
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopiperidine
- N-Nitrosopyrrolidine

Standards of Interest

Additional Nitrosamines
AccuStandard offers over 20 individual Nitrosamine analytes in various solutions, plus a number of multi-component formulations designed for specific customer applications.

Technical Note

Each ampule contains at least 120% of the stated volume of a solution, allowing easy transfer. Transfer the required amount using a clean calibration syringe. Excess solution can be stored in a tightly capped vial, but this is not recommended. AccuStandard cannot guarantee the integrity of the solution once the ampule has been opened. See the EPA method protocol for storage instructions.



Method 8080A Organochlorine Pesticides and PCBs by GC/ECD

Organochlorine Pesticides

M-8080 **$ 60 / 1 x 1 mL**
M-8080-PAK *SAVE 20%* **$ 240 / 5 x 1 mL**
2.0 mg/mL each in Acetone 17 comps.

Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
δ-BHC	Endrin
γ-BHC	Endrin aldehyde
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor
Dieldrin	

Organochlorine Pesticide QC Standard

M-8080-QC-R **$ 50 / 1 x 1 mL**
M-8080-QC-R-PAK *SAVE 20%* **$ 200 / 5 x 1 mL**
At stated conc. in Acetone 17 comps.

Aldrin	(0.02 mg/mL)	Endosulfan I	(0.02 mg/mL)
α-BHC	(0.02 mg/mL)	Endosulfan II	(0.1 mg/mL)
β-BHC	(0.02 mg/mL)	Endosulfan sulfate	(0.1 mg/mL)
δ-BHC	(0.02 mg/mL)	Endrin	(0.1 mg/mL)
γ-BHC	(0.02 mg/mL)	Endrin aldehyde	(0.02 mg/mL)
4,4'-DDD	(0.1 mg/mL)	Heptachlor	(0.02 mg/mL)
4,4'-DDE	(0.02 mg/mL)	Heptachlor epoxide	(0.02 mg/mL)
4,4'-DDT	(0.1 mg/mL)	Methoxychlor	(0.02 mg/mL)
Dieldrin	(0.02 mg/mL)		

Internal Standard

M-508-IS **$ 10 / 1 x 1 mL**
M-508-IS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
0.1 mg/mL in MtBE

Pentachloronitrobenzene

Surrogate Standard

CLP-032-R **$ 15 / 1 x 1 mL**
CLP-032-R-PAK *SAVE 20%* **$ 60 / 5 x 1 mL**
0.2 mg/mL each in Acetone 2 comps.

Decachlorobiphenyl — Tetrachloro-*m*-xylene

❄ A ColdPAK is required.

Multi-Component Analytes
Polychlorinated Biphenyls, Chlordane & Toxaphene

Each at 1,000 µg/mL in Hexane **AccuPAK™ *(5 x 1 mL)***

Aroclors®#	Cat. No.	1 mL	SAVE 20% Cat. No.	PAK
Aroclor 1016	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H-10X	20	C-268S-H-10X-PAK	80
Pesticides				
Chlordane	P-017S-H-10X	$ 15	P-017S-H-10X-PAK	$ 60
Toxaphene	P-093S-H-10X	15	P-093S-H-10X-PAK	60

Decomposition Solution

M-1618D ❄ **$ 15 / 1 x 1 mL**
M-1618D-PAK ❄ *SAVE 20%* **$ 60 / 5 x 1 mL**
At stated conc. in Acetone 2 comps.

p,p'-DDT (2 µg/mL) — Endrin (1 µg/mL)

o,p-DDT and Metabolites

M-8080-OP **$ 30 / 1 x 1 mL**
M-8080-OP-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
0.25 mg/mL each in Hexane : Toluene (1:1) 3 comps.

o,p-DDD — o,p-DDT
o,p-DDE

Organochlorine Pesticide Mixture

Alternate Source

M-8080A-ASL **$ 50 / 1 x 1 mL**
M-8080A-ASL-PAK *SAVE 20%* **$ 200 / 5 x 1 mL**
250 µg/mL each in Hexane : Toluene (1:1) 17 comps.

Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
δ-BHC	Endrin
γ-BHC	Endrin aldehyde
p,p'-DDD	Heptachlor
p,p'-DDE	Heptachlor epoxide (Isomer B)
p,p'-DDT	Methoxychlor (1000 µg/mL)
Dieldrin	

Method 8080/8081 Matrix Spike Solutions & Surrogates at Working Level

Matrix Spiking Solutions

For Water Samples

CLP-014-5ML **$ 35 / 1 x 5 mL**
CLP-014-25ML **$ 50 / 1 x 25 mL**
At stated conc. in MeOH 6 comps.

Aldrin	(200 ng/mL)	Endrin	(500 ng/mL)
4,4'-DDT	(500 ng/mL)	Heptachlor	(200 ng/mL)
Dieldrin	(500 ng/mL)	Lindane	(200 ng/mL)

For Waste Samples

CLP-014-5X-5ML **$ 55 / 1 x 5 mL**
CLP-014-5X-25ML **$ 75 / 1 x 25 mL**
At stated conc. in MeOH 6 comps.

Aldrin	(1,000 ng/mL)	Endrin	(2,500 ng/mL)
4,4'-DDT	(2,500 ng/mL)	Heptachlor	(1,000 ng/mL)
Dieldrin	(2,500 ng/mL)	Lindane	(1,000 ng/mL)

Surrogate Solutions

For Water Samples

CLP-032R-WL-10ML **$ 20 / 1 x 10 mL**
CLP-032R-WL-50ML **$ 45 / 1 x 50 mL**
CLP-032R-WL-100ML **$ 75 / 1 x 100 mL**
1 µg/mL each in Acetone 2 comps.

Decachlorobiphenyl — Tetrachloro-*m*-xylene

For Waste Samples

CLP-032R-WL-5X-10ML **$ 20 / 1 x 10 mL**
CLP-032R-WL-5X-50ML **$ 45 / 1 x 50 mL**
CLP-032R-WL-5X-100ML **$ 75 / 1 x 100 mL**
5 µg/mL each in Acetone 2 comps.

Decachlorobiphenyl — Tetrachloro-*m*-xylene

EPA Method 8080
Ready-to-Inject Working Level Pesticide Standards

Method 8080/8081 7 Point Working Level Pesticide Curves

AccuStandard has expanded the existing organo-halide pesticide standard line to include the working level Continuing Calibration Check Standard Line for Method 8080/8081. The working level CCC Line revolutionizes the way the analytical chemist prepares standards for pesticide analysis.

M-8080-CAL-SET — **$ 70 / 7 x 1 mL**
All solutions in Isooctane — 21 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2.5X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(25X)*	Level 6 *(50X)*	Level 7 *(100X)*
Aldrin	2	5	10	20	50	100	200
α-BHC	2	5	10	20	50	100	200
β-BHC	2	5	10	20	50	100	200
γ-BHC	2	5	10	20	50	100	200
δ-BHC	2	5	10	20	50	100	200
α-Chlordane	2	5	10	20	50	100	200
γ-Chlordane	2	5	10	20	50	100	200
4,4'-DDD	4	10	20	40	100	200	400
4,4'-DDE	4	10	20	40	100	200	400
4,4'-DDT	4	10	20	40	100	200	400
Dieldrin	4	10	20	40	100	200	400
Endosulfan I	2	5	10	20	50	100	200
Endosulfan II	4	10	20	40	100	200	400
Endosulfan sulfate	4	10	20	40	100	200	400
Endrin	4	10	20	40	100	200	400
Endrin aldehyde	4	10	20	40	100	200	400
Heptachlor	2	5	10	20	50	100	200
Heptachlor epoxide	2	5	10	20	50	100	200
Methoxychlor	20	50	100	200	500	1,000	2,000
Tetrachloro-*m*-xylene	2	5	10	20	50	100	200
Decachlorobiphenyl	4	10	20	40	100	200	400

Level 3 Daily QC Working Level
CCC (for low level curves)

M-8080-WL-5X-10ML	**$ 50 / 1 x 10 mL**
M-8080-WL-5X-25ML	**$ 75 / 1 x 25 mL**
M-8080-WL-5X-50ML	**$ 100 / 1 x 50 mL**

At stated conc. in Isooctane

Level 4 Daily QC Working Level
CCC (for higher level curves)

M-8080-WL-10X-10ML	**$ 50 / 1 x 10 mL**
M-8080-WL-10X-25ML	**$ 75 / 1 x 25 mL**
M-8080-WL-10X-50ML	**$ 100 / 1 x 50 mL**

At stated conc. in Isooctane

Level 5 Daily QC Working Level
CCC (for higher level curves)

M-8080-WL-25X-10ML	**$ 50 / 1 x 10 mL**
M-8080-WL-25X-25ML	**$ 75 / 1 x 25 mL**
M-8080-WL-25X-50ML	**$ 100 / 1 x 50 mL**

At stated conc. in Isooctane

M-8080-R2-CAL-SET — **$ 80 / 7 x 1 mL**
All solutions in Isooctane — 23 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2.5X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(25X)*	Level 6 *(50X)*	Level 7 *(100X)*
Aldrin	2	5	10	20	50	100	200
α-BHC	2	5	10	20	50	100	200
β-BHC	2	5	10	20	50	100	200
γ-BHC	2	5	10	20	50	100	200
δ-BHC	2	5	10	20	50	100	200
α-Chlordane	2	5	10	20	50	100	200
γ-Chlordane	2	5	10	20	50	100	200
4,4'-DDD	4	10	20	40	100	200	400
4,4'-DDE	4	10	20	40	100	200	400
4,4'-DDT	4	10	20	40	100	200	400
Dieldrin	4	10	20	40	100	200	400
Endosulfan I	2	5	10	20	50	100	200
Endosulfan II	4	10	20	40	100	200	400
Endosulfan sulfate	4	10	20	40	100	200	400
Endrin	4	10	20	40	100	200	400
Endrin aldehyde	4	10	20	40	100	200	400
Endrin ketone	4	10	20	40	100	200	400
Heptachlor	2	5	10	20	50	100	200
Heptachlor epoxide	2	5	10	20	50	100	200
Isodrin	2	5	10	20	50	100	200
Methoxychlor	20	50	100	200	500	1,000	2,000
Tetrachloro-*m*-xylene	2	5	10	20	50	100	200
Decachlorobiphenyl	4	10	20	40	100	200	400

Level 3 Daily QC Working Level
CCC (for low level curves)

M-8080-R2-WL-5X-10ML	**$ 60 / 1 x 10 mL**
M-8080-R2-WL-5X-25ML	**$ 85 / 1 x 25 mL**
M-8080-R2-WL-5X-50ML	**$ 115 / 1 x 50 mL**

At stated conc. in Isooctane

Level 4 Daily QC Working Level
CCC (for higher level curves)

M-8080-R2-WL-10X-10ML	**$ 60 / 1 x 10 mL**
M-8080-R2-WL-10X-25ML	**$ 85 / 1 x 25 mL**
M-8080-R2-WL-10X-50ML	**$ 115 / 1 x 50 mL**

At stated conc. in Isooctane

Level 5 Daily QC Working Level
CCC (for higher level curves)

M-8080-R2-WL-25X-10ML	**$ 60 / 1 x 10 mL**
M-8080-R2-WL-25X-25ML	**$ 85 / 1 x 25 mL**
M-8080-R2-WL-25X-50ML	**$ 115 / 1 x 50 mL**

At stated conc. in Isooctane

The AccuStandard CCC Product Line Improves Efficiency:

Load the calibration curve Standards at the end of the day with your samples and working level check, and review a verified curve with your sample results the next day.

No time wasted on Standard dilutions and less worry about your CCC meeting data quality objectives (DQOs).



Working Level Standards & Continuing Calibration Check (CCC)

Pesticide & Aroclor® Analysis
Ready-to-Inject Working Level Standards for Aroclors

Method 8080/8081 Aroclor Calibration Curves

Aroclor 1016/1260 Calibration Curve

C-216/260-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 4 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1016	50	100	250	500	750	1000
Aroclor 1260	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level **CCC (for low level curves)**
C-216/260-WL-5X-5ML — **$ 15 / 1 x 5 mL**
C-216/260-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level **CCC (for higher level curves)**
C-216/260-WL-10X-5ML — **$ 15 / 1 x 5 mL**
C-216/260-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Aroclor 1221 Calibration Curve

C-221-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1221	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level **CCC (for low level curves)**
C-221-WL-5X-5ML — **$ 15 / 1 x 5 mL**
C-221-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level **CCC (for higher level curves)**
C-221-WL-10X-5ML — **$ 15 / 1 x 5 mL**
C-221-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Aroclor 1232 Calibration Curve

C-232-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1232	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level **CCC (for low level curves)**
C-232-WL-5X-5ML — **$ 15 / 1 x 5 mL**
C-232-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level **CCC (for higher level curves)**
C-232-WL-10X-5ML — **$ 15 / 1 x 5 mL**
C-232-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Aroclor 1242 Calibration Curve

C-242-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1242	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level **CCC (for low level curves)**
C-242-WL-5X-5ML — **$ 15 / 1 x 5 mL**
C-242-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level **CCC (for higher level curves)**
C-242-WL-10X-5ML — **$ 15 / 1 x 5 mL**
C-242-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Aroclor 1248 Calibration Curve

C-248-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1248	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level **CCC (for low level curves)**
C-248-WL-5X-5ML — **$ 15 / 1 x 5 mL**
C-248-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level **CCC (for higher level curves)**
C-248-WL-10X-5ML — **$ 15 / 1 x 5 mL**
C-248-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001



Method 8080/8081 Aroclor Calibration Curves (Continued)

Aroclor 1254 Calibration Curve

C-254-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1254	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level
CCC (for low level curves)
C-254-WL-5X-5ML — **$ 15 / 1 x 5 mL**
C-254-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level
CCC (for higher level curves)
C-254-WL-10X-5ML — **$ 15 / 1 x 5 mL**
C-254-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Toxaphene Calibration Curve

P-093-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Toxaphene	50	100	250	500	750	1000
Decachlorobiphenyl	2	4	10	20	30	40
Tetrachloro-*m*-xylene	2	4	10	20	30	40

Level 3 Daily Working Level
CCC (for low level curves)
P-093-WL-5X-5ML — **$ 15 / 1 x 5 mL**
P-093-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level
CCC (for higher level curves)
P-093-WL-10X-5ML — **$ 15 / 1 x 5 mL**
P-093-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Chlordane Calibration Curve

P-017-CAL-SET — **$ 40 / 6 x 1 mL**
All solutions in Isooctane — 3 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Chlordane	50	100	250	500	750	1000
Decachlorobiphenyl	20	40	70	100	150	200
Tetrachloro-*m*-xylene	20	40	70	100	150	200

Level 3 Daily Working Level
CCC (for low level curves)
P-017R-WL-5X-5ML — **$ 15 / 1 x 5 mL**
P-017R-WL-5X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level
CCC (for higher level curves)
P-017R-WL-10X-5ML — **$ 15 / 1 x 5 mL**
P-017R-WL-10X-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Additional 8080/8081 formulations - Continued on Next Page

GPC Standards Sample Clean-up Solutions at Working Level

GPC Calibration Solution

CLP-027-WL-10ML — **$ 30 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 — 5 comps.

Corn Oil	(25 mg/mL)	Perylene	(0.02 mg/mL)
bis(2-Ethylhexyl)phthalate	(1.0 mg/mL)	Sulfur	(0.08 mg/mL)
Methoxychlor	(0.2 mg/mL)		

GPC Calibration Solution for 8/94 SOW OLM03.1

CLP-027-R2-WL-10ML — **$ 25 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 — 5 comps.

Corn Oil	(25 mg/mL)	Perylene	(0.02 mg/mL)
bis(2-Ethylhexyl)phthalate	(0.5 mg/mL)	Sulfur	(0.08 mg/mL)
Methoxychlor	(0.1 mg/mL)		

Florisil Cartridge Check Solution

CLP-FC-WL-10ML — **$ 20 / 1 x 10 mL**
0.1 µg/mL in Acetone

2,4,5-Trichlorophenol

GPC Calibration Check Solutions

GPC-CC-A-WL-10ML — **$ 20 / 1 x 10 mL**
At stated conc. in CH_2Cl_2 — 6 comps.

Aldrin	(0.1 µg/mL)	Dieldrin	(0.2 µg/mL)
γ-BHC *(Lindane)*	(0.1 µg/mL)	Endrin	(0.2 µg/mL)
4,4'-DDT	(0.2 µg/mL)	Heptachlor	(0.1 µg/mL)

GPC-CC-B-WL-10ML — **$ 10 / 1 x 10 mL**
0.2 µg/mL each in CH_2Cl_2 — 2 comps.

Aroclor 1016 — Aroclor 1260

Method 8080/8081A/8081B Organochlorine Pesticides by Capillary Column GC/ECD

Single/Dual Column Organochlorine Pesticides

M-8081-SC **$ 75 / 1 x 1 mL**
M-8081-SC-PAK ***SAVE 20%*** **$ 300 / 5 x 1 mL**
1.0 mg/mL each in Toluene : Hexane (1:1) 20 comps.

Aldrin	Dieldrin
α-BHC	Endosulfan I
β-BHC	Endosulfan II
γ-BHC	Endosulfan sulfate
δ-BHC	Endrin
α-Chlordane	Endrin aldehyde
γ-Chlordane	Endrin ketone
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor

Technical Note

M-8081A-SC was formulated for use in combination with M-8081-SC when performing single or dual column pesticide analysis. These two product formulations provide the typically analyzed pesticides in one core mixture (M-8081-SC) with the additional 7 analytes (M-8081A-SC) to meet the 27 analytes listed in Method 8081 (January 1995).

Organochlorine Pesticide Mixes

M-8081A-SC **$ 25 / 1 x 1 mL**
M-8081A-SC-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
1.0 mg/mL each in Hexane:Toluene (1:1) 7 comps.

Chlorobenzilate	Hexachlorocyclopentadiene
DBCP	Isodrin
Diallate	Kepone
Hexachlorobenzene	

M-8081A-SC-R **$ 25 / 1 x 1 mL**
M-8081A-SC-R-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
1.0 mg/mL each in Hexane : Toluene (1:1) 6 comps.

Chlorobenzilate	Hexachlorobenzene
1,2-Dibromo-3-chloropropane	Hexachlorocyclopentadiene
Diallate	Isodrin

Dual Column Organochlorine Pesticides

M-8081-DC **$ 75 / 1 x 1 mL**
1.0 mg/mL each in Hexane : Toluene (1:1) 22 comps.

Alachlor	Etridiazole
Captafol	Hexachlorobenzene
Captan	Hexachlorocyclopentadiene
Chlorobenzilate	Isodrin
Chloroneb	Mirex
Chloropropylate	*trans*-Nonachlor
Chlorothalonil	PCNB
DBCP	Perthane
DCPA	Propachlor
Diallate	Permethrin * *(cis & trans)*
Dicofol	Trifluralin

* isomer concentration as stated on certificate of product data

Tailing Test Standard

M-8081-T **$ 25 / 1 x 1 mL**
1.0 mg/mL each in Hexane : Toluene (1:1) 4 comps.

Carbophenothion	Kepone
Dichlone	Nitrofen

M-8081-T-R **$ 25 / 1 x 1 mL**
1.0 mg/mL each in Hexane : Toluene (1:1) 3 comps.

Carbophenothion	Nitrofen
Dichlone	

Surrogate Standards

CLP-032-R **$ 15 / 1 x 1 mL**
CLP-032-R-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.2 mg/mL each in Acetone 2 comps.

Decachlorobiphenyl	Tetrachloro-*m*-xylene

CLP-034 **$ 15 / 1 x 1 mL**
CLP-034-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
0.2 mg/mL each in Acetone 2 comps.

Dibutylchlorendate	Tetrachloro-*m*-xylene

M-8081-SS-X **$ 10 / 1 x 1 mL**
M-8081-SS-X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in Acetone

2-Bromobiphenyl

For Dual Column

M-8081-SS-DC **$ 20 / 1 x 1 mL**
M-8081-SS-DC-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
1.0 mg/mL in Acetone

4-Chloro-3-nitrobenzotrifluoride

Internal Standards

M-8081-IS **$ 10 / 1 x 1 mL**
M-8081-IS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in Acetone

Pentachloronitrobenzene *(PCNB)*

M-8081-IS-X **$ 10 / 1 x 1 mL**
M-8081-IS-X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in Acetone

α,α-Dibromo-*m*-xylene

For Dual Column

M-8081-IS-DC **$ 10 / 1 x 1 mL**
M-8081-IS-DC-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in Acetone

1-Bromo-2-nitrobenzene

Decomposition Standard

M-8081-DS **$ 25 / 1 x 1 mL**
M-8081-DS-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in Hexane 2 comps.

4,4'-DDT	Endrin

Method 8082/8082A PCBs by Capillary Column GC by ECD or ELCD

PCB Congeners Mixture

M-8082 **$ 120 / 1 x 1 mL**
M-8082-PAK *SAVE 20%* **$ 480 / 5 x 1 mL**
100 µg/mL each in Hexane 19 comps.

No.		No.	
1	2-Chlorobiphenyl	137	2,2',3,4,4',5-Hexachlorobiphenyl
5	2,3-Dichlorobiphenyl	141	2,2',3,4,5,5'-Hexachlorobiphenyl
18	2,2',5-Trichlorobiphenyl	151	2,2',3,5,5',6-Hexachlorobiphenyl
31	2,4',5-Trichlorobiphenyl	153	2,2',4,4',5,5'-Hexachlorobiphenyl
44	2,2',3,5'-Tetrachlorobiphenyl	170	2,2',3,3',4,4',5-Heptachlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl	180	2,2',3,4,4',5,5'-Heptachlorobiphenyl
66	2,3',4,4'-Tetrachlorobiphenyl	183	2,2',3,4,4',5',6-Heptachlorobiphenyl
87	2,2',3,4,5'-Pentachlorobiphenyl	187	2,2',3,4',5,5',6-Heptachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl	206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
110	2,3,3',4',6-Pentachlorobiphenyl		

Reformulated PCB Congeners Mixture

M-8082A **$ 120 / 1 x 1 mL**
M-8082A-PAK *SAVE 20%* **$ 480 / 5 x 1 mL**
100 µg/mL each in Hexane 19 comps.

No.		No.	
1	2-Chlorobiphenyl	138	2,2',3,4,4',5'-Hexachlorobiphenyl
5	2,3-Dichlorobiphenyl	141	2,2',3,4,5,5'-Hexachlorobiphenyl
18	2,2',5-Trichlorobiphenyl	151	2,2',3,5,5',6-Hexachlorobiphenyl
31	2,4',5-Trichlorobiphenyl	153	2,2',4,4',5,5'-Hexachlorobiphenyl
44	2,2',3,5'-Tetrachlorobiphenyl	170	2,2',3,3',4,4',5-Heptachlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl	180	2,2',3,4,4',5,5'-Heptachlorobiphenyl
66	2,3',4,4'-Tetrachlorobiphenyl	183	2,2',3,4,4',5',6-Heptachlorobiphenyl
87	2,2',3,4,5'-Pentachlorobiphenyl	187	2,2',3,4',5,5',6-Heptachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl	206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
110	2,3,3',4',6-Pentachlorobiphenyl		

Technical Note

AccuStandard has formulated these standards for use in determining the concentrations of Aroclors (Industrial PCBs), specific PCB congeners, or "total PCBs". Additional Aroclor stock solutions are available at higher concentrations and in other solvents.

Internal and Surrogate Standard

CLP-032-H-5X **$ 20 / 1 x 1 mL**
1.0 mg/mL each in Hexane 2 comps.

Decachlorobiphenyl Tetrachloro-*m*-xylene

Surrogate Standards

M-8082-SSA-WL-10ML **$ 20 / 1 x 10 mL**
M-8082-SSA-WL-10ML-PAK *SAVE 20%* **$ 80 / 5 x 10 mL**
5 µg/mL in Acetone

Decachlorobiphenyl

M-8082-SS **$ 20 / 1 x 1 mL**
100 µg/mL in Hexane
M-8082-SS-10X **$ 20 / 1 x 1 mL**
1.0 mg/mL in Hexane

Tetrachloro-*m*-xylene

Internal Standards

M-8082-ISC-WL-10ML **$ 20 / 1 x 10 mL**
M-8082-ISC-WL-10ML-PAK *SAVE 20%* **$ 80 / 5 x 10 mL**
5 µg/mL in Hexane

Decachlorobiphenyl

M-8082-SSC-WL-10ML **$ 20 / 1 x 10 mL**
M-8082-SSC-WL-10ML-PAK *SAVE 20%* **$ 80 / 5 x 10 mL**
5 µg/mL in Acetone

Tetrachloro-*m*-xylene

Method 8082 Aroclor 1016/1260 Calibration Curve

Aroclor 1016/1260 Calibration Curve

C-216/260-CAL-SET **$ 40 / 6 x 1 mL**
All solutions in Isooctane 4 comps.

Components *(units in ng/mL)*	Level 1	Level 2 *(2X)*	Level 3 *(5X)*	Level 4 *(10X)*	Level 5 *(15X)*	Level 6 *(20X)*
Aroclor 1016	50	100	250	500	750	1000
Aroclor 1260	50	100	250	500	750	1000
Decachlorobiphenyl	10	20	50	100	150	200
Tetrachloro-*m*-xylene	10	20	50	100	150	200

Level 3 Daily Working Level

CCC (for low level curves)
C-216/260-WL-5X-5ML **$ 15 / 1 x 5 mL**
C-216/260-WL-5X-10ML **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Level 4 Daily Working Level

CCC (for higher level curves)
C-216/260-WL-10X-5ML **$ 15 / 1 x 5 mL**
C-216/260-WL-10X-10ML **$ 25 / 1 x 10 mL**
At stated conc. in Isooctane

Method 8082A Polychlorinated Biphenyl (PCBs) by GC/ECD

Individual PCB Congener Solutions

Congener	*35 µg/mL in Isooctane*	*100 µg/mL in Isooctane*	Price 1 mL
2-Chlorobiphenyl	C-001S	C-001S-TP	$ 15
2,3-Dichlorobiphenyl	C-005S	C-005S-TP	15
2,2',5-Trichlorobiphenyl	C-018S	C-018S-TP	15
2,4',5-Trichlorobiphenyl	C-031S	C-031S-TP	15
2,2',3,5'-Tetrachlorobiphenyl	C-044S	C-044S-TP	15
2,2',5,5'-Tetrachlorobiphenyl	C-052S	C-052S-TP	15
2,3',4,4'-Tetrachlorobiphenyl	C-066S	C-066S-TP	30
2,2',3,4,5'-Pentachlorobiphenyl	C-087S	C-087S-TP	30
2,2',4,5,5'-Pentachlorobiphenyl	C-101S	C-101S-TP	30
2,3,3',4',6-Pentachlorobiphenyl	C-110S	C-110S-TP	30
2,2',3,4,4',5-Hexachlorobiphenyl	C-137S	C-137S-TP	30
2,2',3,4,4',5'-Hexachlorobiphenyl	C-138S	C-138S-TP	30
2,2',3,4,5,5'-Hexachlorobiphenyl	C-141S	C-141S-TP	30
2,2',3,5,5',6-Hexachlorobiphenyl	C-151S	C-151S-TP	30
2,2',4,4',5,5'-Hexachlorobiphenyl	C-153S	C-153S-TP	15
2,2',3,3',4,4',5-Heptachlorobiphenyl	C-170S	C-170S-TP	30
2,2',3,4,4',5,5'-Heptachlorobiphenyl	C-180S	C-180S-TP	30
2,2',3,4,4',5',6-Heptachlorobiphenyl	C-183S	C-183S-TP	30
2,2',3,4',5,5',6-Heptachlorobiphenyl	C-187S	C-187S-TP	30
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	C-206S	C-206S-TP	30

Internal Standards

C-209S-H **$ 15 / 1 x 1 mL**
100 µg/mL in Hexane
C-209S-H-10X **$ 15 / 1 x 1 mL**
1.0 mg/mL in Hexane

Decachlorobiphenyl

Internal and Surrogate Standard

CLP-032-H-5X **$ 20 / 1 x 1 mL**
1.0 mg/mL each in Hexane 2 comps.

Decachlorobiphenyl Tetrachloro-*m*-xylene

Surrogate Standard

M-8082-SS **$ 20 / 1 x 1 mL**
100 µg/mL in Hexane
M-8082-SS-10X **$ 20 / 1 x 1 mL**
1.0 mg/mL in Hexane

Tetrachloro-*m*-xylene

Method 8085 Pesticides by GC/AED

Nitrogen Containing Pesticides

Mix #1

M-8085-N1 — **$ 60 / 1 x 5 mL**
At stated conc. in MtBE — 20 comps.

Alachlor	(18 µg/mL)	Norflurazon	(10 µg/mL)
Atrazine	(5 µg/mL)	Oxyfluorfen	(20 µg/mL)
Bromacil	(20 µg/mL)	Pendimethalin	(7.5 µg/mL)
Dichlobenil	(10 µg/mL)	Prometryne	(5 µg/mL)
Diphenamid	(15 µg/mL)	Pronamide	(20 µg/mL)
Ethalfluralin	(7.5 µg/mL)	Propachlor	(12 µg/mL)
Fluridone	(30 µg/mL)	Simazine	(5 µg/mL)
Metolachlor	(20 µg/mL)	Tebuthiuron	(7.5 µg/mL)
Metribuzin	(5 µg/mL)	Terbacil	(15 µg/mL)
Napropamide	(15 µg/mL)	Trifluralin	(7.5 µg/mL)

Mix #2

M-8085-N2 — **$ 50 / 1 x 5 mL**
At stated conc. in MtBE — 18 comps.

Ametryn	(5 µg/mL)	Molinate	(10 µg/mL)
Benfluralin	(7.5 µg/mL)	Prebane	(5 µg/mL)
Butylate	(10 µg/mL)	Profluoralin	(12 µg/mL)
Chlorpropham	(20 µg/mL)	Prometon	(5 µg/mL)
Chlorothalonil	(12 µg/mL)	Propargite	(10 µg/mL)
Cyanazine	(7.5 µg/mL)	Propazine	(5 µg/mL)
Cycloate	(10 µg/mL)	Tillam	(10 µg/mL)
EPTC	(10 µg/mL)	Triallate	(13 µg/mL)
Hexazinone	(7.5 µg/mL)	Vernolate	(10 µg/mL)

Mix #3

M-8085-N3 — **$ 60 / 1 x 5 mL**
At stated conc. in MtBE — 15 comps.

Butachlor	(30 µg/mL)	Metalaxyl	(30 µg/mL)
Carboxin	(30 µg/mL)	MGK-264	(40 µg/mL)
Diallate	(35 µg/mL)	*cis*-Permethrin	(10 µg/mL)
Fenarimol	(15 µg/mL)	Resmethrin	(10 µg/mL)
Fenvalerate	(20 µg/mL)	Sumithrin	(10 µg/mL)
Gesatamine	(7.5 µg/mL)	Triadimefon	(13 µg/mL)
Hexazinone	(7.5 µg/mL)	Triallate	(15 µg/mL)
Karmex	(30 µg/mL)		

Technical Note

These standards are for those laboratories participating in the analysis of pesticides by EPA Method 8085 Pesticide Screening and Compound Independent Elemental Quantitation by Gas Chromatography with Atomic Emission Detection (AED).

Chlorinated Pesticides

Mix #1

M-8085-C1 — **$ 75 / 1 x 5 mL**
2.5 µg/mL each in Hexane — 23 comps.

Aldrin	p,p'-DDE	Endrin ketone
α-BHC	p,p'-DDT	Heptachlor
β-BHC	Dieldrin	Heptachlor epoxide (Isomer B)
γ-BHC	Endosulfan I	Methoxychlor
δ-BHC	Endosulfan II	*cis*-nonachlor
γ-Chlordane	Endosulfan sulfate	Oxychlordane
α-Chlordane	Endrin	Pentachloroanisole
p,p'-DDD	Endrin aldehyde	

Mix #2

M-8085-C2 — **$ 45 / 1 x 5 mL**
At stated conc. in Hexane — 9 comps.

Captan	(6.75 µg/mL)	Hexachlorobenzene	(2.5 µg/mL)
Captafol	(12.5 µg/mL)	Kelthane	(10 µg/mL)
o,p'-DDE	(2.5 µg/mL)	Mirex	(2.5 µg/mL)
o,p'-DDD	(2.5 µg/mL)	*trans*-Nonachlor	(2.5 µg/mL)
o,p'-DDT	(2.5 µg/mL)		

Organo Phosphorous Pesticides

Mix #1

M-8085-P1 — **$ 50 / 1 x 5 mL**
At stated conc. in MtBE — 14 comps.

Azinphos ethyl	(8 µg/mL)	EPN	(5 µg/mL)
Carbophenothion	(5 µg/mL)	Ethion	(3.5 µg/mL)
Chlorpyrifos methyl ester	(4 µg/mL)	Fenamiphos	(5 µg/mL)
Demeton (mixed isomers)	(7 µg/mL)	Fenitrothion	(3.5 µg/mL)
Disulfoton	(3 µg/mL)	Malathion	(4 µg/mL)
Dursban	(4 µg/mL)	Merphos	(6 µg/mL)
Dyfonate	(3 µg/mL)	Sulfotep	(3 µg/mL)

Mix #2

M-8085-P2 — **$ 50 / 1 x 5 mL**
At stated conc. in MtBE — 12 comps.

Azinphos methyl	(8 µg/mL)	Fenthion	(3.5 µg/mL)
Bolstar	(3.5 µg/mL)	Imidan	(5.5 µg/mL)
Diazinon	(4 µg/mL)	Methyl parathion	(3.5 µg/mL)
Dimethoate	(4 µg/mL)	Parathion	(4 µg/mL)
Ethoprop	(4 µg/mL)	Phorate	(3.5 µg/mL)
Fensulfothion	(5 µg/mL)	Ronnel	(3.5 µg/mL)

Herbicides as Methyl Derivatives

Mix #1

M-8085-H1-M — **$ 75 / 1 x 5 mL**
At stated conc. in MtBE — 13 comps.

Acifluorfen methyl ester	(20 µg/mL)	4-Nitroanisole	(10 µg/mL)
Bentazon methyl ester	(7.5 µg/mL)	Pentachloroanisole	(2.5 µg/mL)
Bromoxynil methyl ether	(5 µg/mL)	2,3,4,5-Tetrachloroanisole	(2.75 µg/mL)
Chloramben methyl ester	(5 µg/mL)	2,3,4,6-Tetrachloroanisole	(2.75 µg/mL)
Dinoseb methyl ether	(7.5 µg/mL)	2,4,5-Trichloroanisole	(3 µg/mL)
MCPA methyl ester	(10 µg/mL)	2,4,6-Trichloroanisole	(3 µg/mL)
MCPP methyl ester	(10 µg/mL)		

Mix #2

M-8085-H2-M — **$ 75 / 1 x 5 mL**
At stated conc. in MtBE — 13 comps.

Dalapon methyl ester	(4 µg/mL)	Ioxynil methyl ether	(5 µg/mL)
2,4-D methyl ester	(5 µg/mL)	Methyl 3,5-Dichlorobenzoate	(5 µg/mL)
2,4-DB methyl ester	(6 µg/mL)	Picloram methyl ester	(5 µg/mL)
DCPA methyl ester	(4 µg/mL)	Silvex methyl ester	(4 µg/mL)
Dicamba methyl ester	(5 µg/mL)	2,4,5-T methyl ester	(4 µg/mL)
Dichlorprop methyl ester	(5.5 µg/mL)	Triclopyr methyl ester	(4 µg/mL)
Diclofop methyl	(7.5 µg/mL)		

Surrogates

M-8085-PEST-SS — **$ 25 / 1 x 5 mL**
At stated conc. in MtBE — 4 comps.

Decachlorobiphenyl	(10 µg/mL)	1,3-Dimethyl-2-nitrobenzene	(20 µg/mL)
4,4'-Dibromooctafluorobiphenyl	(20 µg/mL)	Triphenylphosphate	(20 µg/mL)

Method 8085 continued on next page

Method 8085 (Continued) Pesticides by GC/AED

Alternate Surrogates

M-8085-PEST-SS2 — **$ 25 / 1 x 5 mL**
20 µg/mL each in MtBE — 2 comps.

Dibutylchlorendate — TCMX

Herbicide Surrogate

M-8085-HERB-SS — **$ 20 / 1 x 5 mL**
20 µg/mL in MtBE

2,4,6-Tribromophenol

Compound Independent Calibration (CIC) Mix

M-8085-CIC — **$ 50 / 1 x 5 mL**
At stated conc. in MtBE — 15 comps.

Decachlorobiphenyl	(492 ng/mL)	Pentachloronitrobenzene	(1690 ng/mL)
Diazinon	(9800 ng/mL)	Phorate	(2100 ng/mL)
4,4'-Dibromooctafluorobiphenyl	(1000 ng/mL)	Silvex methyl ester	(400 ng/mL)
Dichlobenil	(6140 ng/mL)	Terbufos	(7600 ng/mL)
Dursban	(5680 ng/mL)	2,4,6-Tribromoanisole	(2870 ng/mL)
Ethoprop	(391 ng/mL)	1,2,3-Trichlorobenzene	(6810 ng/mL)
Ioxynil methyl ether	(500 ng/mL)	Trifluralin	(16000 ng/mL)
Malathion	(1070 ng/mL)		

Method 8090 Nitroaromatics & Isophorone by GC/TCD or FID

Analyte Calibration Set (609)

M-609-10X-SET — **$ 20 / set of 2 x 1 mL (M-609A-10X, M-609B-10X)**

M-609A-10X — **$ 15 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

Isophorone — Nitrobenzene

M-609B-10X — **$ 15 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

2,4-Dinitrotoluene — 2,6-Dinitrotoluene

M-609-QC — **$ 20 / 1 x 1 mL**
At stated conc. in Acetone — 4 comps.

Isophorone	(100 µg/mL)	2,6-Dinitrotoluene	(20 µg/mL)
2,4-Dinitrotoluene	(20 µg/mL)	Nitrobenzene	(100 µg/mL)

Analyte Calibration Set (8090)

M-8090-10X-SET — **$ 25 / set of 2 x 1 mL (M-8090-10X, M-609B-10X)**

M-8090-10X — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 4 comps.

1,3-Dinitrobenzene — 1,4-Naphthoquinone
Isophorone — Nitrobenzene

M-609B-10X — **$ 15 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

2,4-Dinitrotoluene — 2,6-Dinitrotoluene

M-8090-QC — **$ 25 / 1 x 1 mL**
At stated conc. in Acetone — 6 comps.

1,3-Dinitrobenzene	(40 µg/mL)	Isophorone	(100 µg/mL)
2,4-Dinitrotoluene	(20 µg/mL)	1,4-Naphthaquinone	(40 µg/mL)
2,6-Dinitrotoluene	(20 µg/mL)	Nitrobenzene	(100 µg/mL)

Method 8091 Nitroaromatics & Cyclic Ketones by GC/ECD or NPD

RCRA Analytes

M-8091 — **$ 25 / 1 x 1 mL**
1.0 mg/mL each in Isooctane : Toluene (1:1) — 6 comps.

1,4-Dinitrobenzene	1,4-Naphthoquinone
2,4-Dinitrotoluene	Nitrobenzene
2,6-Dinitrotoluene	Pentachloronitrobenzene

Chloronitroaromatics: non-RCRA Analytes

M-8091-X1 — **$ 55 / 1 x 1 mL**
1.0 mg/mL each in Isooctane — 17 comps.

1-Chloro-2,4-dinitrobenzene	3,5-Dichloronitrobenzene
1-Chloro-3,4-dinitrobenzene	3,4-Dichloronitrobenzene
1-Chloro-2-nitrobenzene	2,5-Dichloronitrobenzene
1-Chloro-4-nitrobenzene	2,3,5,6-Tetrachloronitrobenzene
2-Chloro-6-nitrotoluene	2,3,4,5-Tetrachloronitrobenzene
4-Chloro-2-nitrotoluene	1,2,3-Trichloro-4-nitrobenzene
4-Chloro-3-nitrotoluene	1,2,4-Trichloro-5-nitrobenzene
2,3-Dichloronitrobenzene	2,4,6-Trichloronitrobenzene
2,4-Dichloronitrobenzene	

Internal Standard

M-8091-IS-20X — **$ 17 / 1 x 1 mL**
M-8091-IS-20X-PAK — ***SAVE 20%*** **$ 68 / 5 x 1 mL**
1.0 mg/mL in Acetone

Hexachlorobenzene

Surrogate Standard

M-8091-SS-100X — **$ 10 / 1 x 1 mL**
M-8091-SS-100X-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1.0 mg/mL in Acetone

1-Chloro-3-nitrobenzene



Method 8095 Explosives by GC/ECD

This method is a companion to EPA Method 8330 found later in this section. Utilizing the sensitivity and selectivity of the ECD as well as the resolution capabilities of capillary columns allows the chemist to quantitatively analyze for the typical explosives. The method uses familiar extraction techniques which reduce sample preparation time.

Explosive Stock Solution A

M-8095-SSA-100X — **$ 55 / 1 x 1 mL**
M-8095-SSA-100X-PAK — *SAVE 20%* **$ 220 / 5 x 1 mL**
100 µg/mL each in AcCN:MeOH (1:1) — 10 comps.

- 2-Amino-4,6-dinitrotoluene
- 4-Amino-2,6-dinitrotoluene
- 1,3-Dinitrobenzene
- 2,6-Dinitrotoluene
- 2,4-Dinitrotoluene
- 1,3,5-Trinitrobenzene
- TNT
- RDX
- Tetryl
- HMX

Explosive Stock Solution B

M-8095-SSB-100X — **$ 55 / 1 x 1 mL**
M-8095-SSB-100X-PAK — *SAVE 20%* **$ 220 / 5 x 1 mL**
At stated conc. in AcCN : MeOH (1:1) — 7 comps.

Nitrobenzene	(500 µg/mL)	Nitroglycerin	(500 µg/mL)
3-Nitrotoluene	(500 µg/mL)	PETN	(500 µg/mL)
2-Nitrotoluene	(500 µg/mL)	3,5-Dinitroaniline	(100 µg/mL)
4-Nitrotoluene	(500 µg/mL)		

Explosive Surrogate Standards

M-8095-SS-01 — **$ 15 / 1 x 1 mL**
M-8095-SS-01-PAK — *SAVE 20%* **$ 40 / 5 x 1 mL**
100 µg/mL in AcCN

- 3,4-Dinitrotoluene

M-8095-SS-02 — **$ 20 / 1 x 1 mL**
M-8095-SS-02-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
100 µg/mL in AcCN

- 2-Methyl-4-nitroaniline

M-8095-SS-03 — **$ 50 / 1 x 1 mL**
M-8095-SS-03-PAK — *SAVE 20%* **$ 200 / 5 x 1 mL**
10 µg/mL in AcCN

- 2,5-Dinitrotoluene

Method 8100 PAHs by GC/FID

Polynuclear Aromatic Hydrocarbon Mix

Z-014G-R — **$ 60 / 1 x 1 mL**
Z-014G-R-PAK — *SAVE 20%* **$ 240 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) — 17 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Carbazole
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PAH Additions to Method 8100 by GC/FID

M-8100-R — **$ 160 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 8 comps.

- Benzo[j]fluoranthene
- Dibenz[a,h]acridine
- Dibenz[a,j]acridine
- 7H-Dibenzo[c,g]carbazole
- Dibenzo[a,e]pyrene
- Dibenzo[a,h]pyrene
- Dibenzo[a,i]pyrene
- 3-Methylcholanthrene

PAH QC Mix

M-8100-QC — **$ 65 / 1 x 1 mL**
M-8100-QC-PAK — *SAVE 20%* **$ 260 / 5 x 1 mL**
At stated conc. in AcCN — 24 comps.

Acenaphthene	(100 µg/mL)	Dibenz[a,h]anthracene	(10 µg/mL)
Acenaphthylene	(100 µg/mL)	7H-Dibenzo[c,g]carbazole	(10 µg/mL)
Anthracene	(100 µg/mL)	Dibenzo[a,e]pyrene	(10 µg/mL)
Benz[a]anthracene	(10 µg/mL)	Dibenzo[a,h]pyrene	(10 µg/mL)
Benzo[b]fluoranthene	(10 µg/mL)	Dibenzo[a,i]pyrene	(10 µg/mL)
Benzo[j]fluoranthene	(10 µg/mL)	Fluoranthene	(10 µg/mL)
Benzo[k]fluoranthene	(5 µg/mL)	Fluorene	(100 µg/mL)
Benzo[g,h,i]perylene	(10 µg/mL)	Indeno[1,2,3-cd]pyrene	(10 µg/mL)
Benzo[a]pyrene	(10 µg/mL)	3-Methylcholanthrene	(10 µg/mL)
Chrysene	(10 µg/mL)	Naphthalene	(100 µg/mL)
Dibenz[a,h]acridine	(10 µg/mL)	Phenanthrene	(100 µg/mL)
Dibenz[a,j]acridine	(10 µg/mL)	Pyrene	(10 µg/mL)

Surrogate Standard

M-8100-SS — **$ 20 / 1 x 1 mL**
M-8100-SS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 2 comps.

- 2-Fluorobiphenyl
- 1-Fluoronaphthalene

Method 8110 Haloethers by GC/FID

Haloethers

M-611-10X — **$ 45 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 5 comps.

- 4-Bromophenyl phenyl ether
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 4-Chlorophenyl phenyl ether

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



Method 8111 Haloethers Mix: non-RCRA Analytes

Haloethers Mix

M-8111-X1 — **$ 300 / 1 x 1 mL**
1.0 mg/mL each in Isooctane — 19 comps.
Individual products each at 1.0 mg/mL in Isooctane

Compound	Cat.No.	Price / 1 mL
4-Bromophenyl phenyl ether	E-001S	$ 15
2-Chlorophenyl-4-nitrophenyl ether	E-005S	15
3-Chlorophenyl-4-nitrophenyl ether	E-006S	15
4-Chlorophenyl-4-nitrophenyl ether	E-007S	15
2,4-Dibromophenyl-4-nitrophenyl ether	E-004S	15
2,4-Dichlorophenyl-3-methyl-4-nitrophenyl ether	E-020S	15
2,6-Dichlorophenyl-4-nitrophenyl ether	E-011S	15
3,5-Dichlorophenyl-4-nitrophenyl ether	E-012S	15
2,5-Dichlorophenyl-4-nitrophenyl ether	E-010S	15
2,4-Dichlorophenyl-4-nitrophenyl ether	E-009S	15
2,3-Dichlorophenyl-4-nitrophenyl ether	E-008S	15
3,4-Dichlorophenyl-4-nitrophenyl ether	E-013S	15
4-Nitrophenyl phenyl ether	E-003S	15
2,4,6-Trichlorophenyl-4-nitrophenyl ether	E-018S	15
2,3,6-Trichlorophenyl-4-nitrophenyl ether	E-016S	15
2,3,5-Trichlorophenyl-4-nitrophenyl ether	E-015S	15
2,4,5-Trichlorophenyl-4-nitrophenyl ether	E-017S	15
3,4,5-Trichlorophenyl-4-nitrophenyl ether	E-019S	15
2,3,4-Trichlorophenyl-4-nitrophenyl ether	E-014S	15

Haloethers Mix: RCRA Analytes

M-8111 — **$ 20 / 1 x 1 mL**
M-8111-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
1.0 mg/mL each in Isooctane — 4 comps.

bis(2-chloroethoxy)methane
bis(2-Chloroethyl) ether
bis(2-Chloro-1-methylethyl) ether
4-Chlorophenyl phenyl ether

Internal Standard

M-8111-IS-20X — **$ 10 / 1 x 1 mL**
M-8111-IS-20X-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
1,000 µg/mL in Acetone

4,4'-Dibromobiphenyl

Surrogate Standard

M-8111-SS-50X — **$ 10 / 1 x 1 mL**
1,000 µg/mL each in Acetone — 2 comps.

2,4-Dichlorophenyl phenyl ether
2,3,4-Trichlorophenyl phenyl ether

Method 8120 & 8120A Chlorinated Hydrocarbons by GC/ECD

Chlorinated Hydrocarbons

M-8120 — **$ 25 / 1 x 1 mL**
2.0 mg/mL each in Hexane — 10 comps.
Individuals each in 2.0 mg/mL each in Hexane ***NEW***

Compound	Cat.No.	Price / 1 mL
2-Chloronaphthalene	M-8120-01	**$ 25**
1,2-Dichlorobenzene	M-8120-02	**25**
1,3-Dichlorobenzene	M-8120-03	**25**
1,4-Dichlorobenzene	M-8120-04	**25**
Hexachlorobenzene	M-8120-05	**25**
Hexachlorobutadiene	M-8120-06	**25**
Hexachlorocyclopentadiene	M-8120-07	**25**
Hexachloroethane	M-8120-08	**25**
1,2,4,5-Tetrachlorobenzene	M-8120-09	**25**
1,2,4-Trichlorobenzene	M-8120-10	**25**

Performance Check Solution

M-8120-QC — **$ 25 / 1 x 1 mL**
At stated conc. in Acetone — 10 comps.

2-Chloronaphthalene	(1.0 mg/mL)	Hexachlorobutadiene (0.1 mg/mL)
1,2-Dichlorobenzene	(1.0 mg/mL)	Hexachlorocyclopentadiene (0.1 mg/mL)
1,3-Dichlorobenzene	(1.0 mg/mL)	Hexachloroethane (0.1 mg/mL)
1,4-Dichlorobenzene	(1.0 mg/mL)	1,2,4,5-Tetrachlorobenzene (1.0 mg/mL)
Hexachlorobenzene	(0.1 mg/mL)	1,2,4-Trichlorobenzene (1.0 mg/mL)

Method 8121 Chlorinated Hydrocarbons by GC/ECD

Chlorinated Hydrocarbons

M-8121 — **$ 55 / 1 x 1 mL**
1.0 mg/mL each in Hexane — 22 comps.

Benzal chloride
Benzotrichloride
Benzyl chloride
α-BHC
β-BHC
γ-BHC
δ-BHC
2-Chloronaphthalene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Pentachlorobenzene
1,2,3,4-Tetrachlorobenzene
1,2,3,5-Tetrachlorobenzene
1,2,4,5-Tetrachlorobenzene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,3,5-Trichlorobenzene

Internal Standards

M-8121-IS — **$ 10 / 1 x 1 mL**
M-8121-IS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
50 µg/mL in Acetone

1,3,5-Tribromobenzene

M-8121-IS-M — **$ 20 / 1 x 1 mL**
M-8121-IS-M-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
50 µg/mL each in Acetone — 3 comps.

2,5-Dibromotoluene
α,α'-Dibromo-*m*-xylene
1,3,5-Tribromobenzene

Surrogate Standard

M-8121-SS — **$ 25 / 1 x 1 mL**
M-8121-SS-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated conc. in Acetone — 3 comps.

1,4-Dichloronaphthalene (1 µg/mL)
2,3,4,5,6-Pentachlorotoluene (1 µg/mL)
α,2,6-Trichlorotoluene (10 µg/mL)

Varied Concentration QC Mix

M-8121-QC — **$ 55 / 1 x 1 mL**
At stated conc. in Hexane — 22 comps.

Benzal chloride	(100 µg/mL)	Hexachlorobenzene	(10 µg/mL)
Benzotrichloride	(100 µg/mL)	Hexachlorobutadiene	(10 µg/mL)
Benzyl chloride	(100 µg/mL)	Hexachlorocyclopentadiene	(10 µg/mL)
α-BHC	(100 µg/mL)	Hexachloroethane	(10 µg/mL)
β-BHC	(100 µg/mL)	Pentachlorobenzene	(10 µg/mL)
γ-BHC	(100 µg/mL)	1,2,3,4-Tetrachlorobenzene	(100 µg/mL)
δ-BHC	(100 µg/mL)	1,2,3,5-Tetrachlorobenzene	(100 µg/mL)
2-Chloronaphthalene	(2,000 µg/mL)	1,2,4,5-Tetrachlorobenzene	(100 µg/mL)
1,2-Dichlorobenzene	(1,000 µg/mL)	1,2,3-Trichlorobenzene	(100 µg/mL)
1,3-Dichlorobenzene	(1,000 µg/mL)	1,2,4-Trichlorobenzene	(100 µg/mL)
1,4-Dichlorobenzene	(1,000 µg/mL)	1,3,5-Trichlorobenzene	(100 µg/mL)

Method 8131 Aniline & Selected Derivatives by GC/NPD, GC/AFD, GC/TSD

Aniline & Selected Derivatives

M-8131 — **$ 60 / 1 x 1 mL**
1.0 mg/mL each in Toluene — 19 comps.

Aniline
4-Bromoaniline
2-Bromo-6-chloro-4-nitroaniline
2-Bromo-4,6-dinitroaniline
2-Chloroaniline
3-Chloroaniline
4-Chloroaniline
2-Chloro-4,6-dinitroaniline
2-Chloro-4-nitroaniline
4-Chloro-2-nitroaniline
2,6-Dibromo-4-nitroaniline
3,4-Dichloroaniline
2,6-Dichloro-4-nitroaniline
2,4-Dinitroaniline
2-Nitroaniline
3-Nitroaniline
4-Nitroaniline
2,4,6-Trichloroaniline
2,4,5-Trichloroaniline

Method 8140 Organophosphorous Pesticides by GC/NPD/ELCD/FPD

Organophosphorous Pesticides

M-8140M — **$ 80 / 1 x 1 mL**
M-8140M-PAK — *SAVE 20%* **$ 320 / 5 x 1 mL**
0.04 mg/mL each in Hexane
M-8140M-5X ❄ — **$ 125 / 1 x 1 mL**
M-8140M-5X-PAK ❄ — *SAVE 20%* **$ 500 / 5 x 1 mL**
0.2 mg/mL each in Hexane:Acetone (19:1) — 20 comps.

- Azinphosmethyl *(Guthion)* (01)
- Bolstar (02)
- Chloropyrifos (03)
- Coumaphos (04)
- Demeton (05)
- Diazinon (06)
- Dichlorovos (07)
- Disulfoton *(Di-Syston)* (08)
- Ethoprop (09)
- Fensulfothion (10)
- Fenthion (11)
- Merphos (12)
- Methyl parathion (13)
- Mevinphos *(Phosdrin)* (14)
- Naled *(Dibrom)* (15)
- Phorate *(Thimet)* (16)
- Ronnel (17)
- Stirophos (18)
- Tokuthion (19)
- Trichloronate *(Agritox)* (20)

Organophosphorous Pesticide Set

M-8140-SET — **$ 300 / 20 x 1 mL**
Individual solutions listed below, each at 1.0 mg/mL in Hexane

Method 8141A Additions to Method 8140 Organophosphorus Pesticides by GC/NPD

Mix #1

M-8141M ❄ — **$ 60 / 1 x 1 mL**
M-8141M-PAK ❄ — *SAVE 20%* **$ 240 / 5 x 1 mL**
Mixture, *0.2 mg/mL each in Hexane* — 7 comps.
M-8141-SET — **$ 90 / 7 x 1 mL**
Individual solutions, *Each at 1.0 mg/mL in Hexane, Dimethoate is in Hexane:Acetone (9:1)*

Compound	Cat. No.	Price / 1 mL
Dimethoate	M-8141-01	$ 20
EPN	M-8141-02	12
Malathion	M-8141-03	12
Monocrotophos	M-8141-04	12
Ethyl parathion	M-8141-05	12
Sulfotep	M-8141-06	50
TEPP	M-8141-07	12

Mix #2

M-8141A-1M — **$ 65 / 1 x 1 mL**
Mixture, *0.2 mg/mL each in Hexane* — 10 comps.
M-8141A-1-SET — **$ 80 / 10 x 1 mL**
Individual solutions, *Each at 1.0 mg/mL in Hexane*

Compound	Cat. No.	Price / 1 mL
Azinphos ethyl	M-8141A-1-01	$ 20
Carbophenothion	M-8141A-1-02	20
Chlorfenvinphos	M-8141A-1-03	20
Dioxathion	P-129S-H-10X	54
Ethion	P-148S-H-10X	24
Famphur	M-8141A-1-06	20
Leptophos	P-206S-H-10X	20
Phosmet	M-8141A-1-08	20
Phosphamidon	M-8141A-1-09	20
Terbufos	P-208S-H-10X	54

Mix #3

M-8141A-2M — **$ 70 / 1 x 1 mL**
Mixture, *0.2 mg/mL each in Hexane* — 9 comps.
M-8141A-2-SET — **$ 90 / 9 x 1 mL**
Individual solutions, *Each at 1.0 mg/mL in Hexane*

- Aspon (01)
- Chlorpyrifos methyl ester (02)
- Crotoxyphos (03)
- Dichlofenthion (04)
- Dicrotophos (05)
- Fenitrothion (06)
- Fonophos (07)
- Thionazin (08)
- Trichlorfon (09)

Internal Standard for NPD

M-8141A-IS — **$ 15 / 1 x 1 mL**
M-8141A-IS-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
1.0 mg/mL in Acetone

1-Bromo-2-nitrobenzene

Industrial Chemicals & Triazine Herbicides

M-8141A-IC — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in Hexane — 2 comps.

- Hexamethylphosphoramide *(HMPA)*
- Tri-*o*-cresylphosphate *(TOCP)*

M-8141A-TH — **$ 20 / 1 x 1 mL**
M-8141A-TH-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
0.2 mg/mL each in Acetone — 2 comps.

- Atrazine
- Simazine

M-8141B-HSD — **$ 60 / 1 x 1 mL**
M-8141B-HSD-PAK — *SAVE 20%* **$ 240 / 5 x 1 mL**
0.2 mg/mL each in Hexane — 9 comps.

- Chlorpyrifos
- Coumaphos
- Dichlorvos
- EPN
- Naled
- Ronnel
- Stirophos
- Trichloronate
- Tokuthion

Technical Note

For use with a halogen-specific detector (i.e., electrolytic conductivity or microcoulometry). ECD should only be used when previous analyses have demonstrated that interferences do not adversely affect quantitation.

Surrogate Standard for NPD & FPD

M-8141A-SS — **$ 20 / 1 x 1 mL**
M-8141A-SS-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1.0 mg/mL each in Acetone — 2 comps.

- Tributylphosphate
- Triphenylphosphate

Surrogate Standard for NPD only

M-8141A-SS-X — **$ 20 / 1 x 1 mL**
M-8141A-SS-X-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1.0 mg/mL in Acetone

4-Chloro-3-nitrobenzotrifluoride

❄ A ColdPAK is required.

Method 8150/8151 7 Point Working Level Phenoxy-Herbicide Methyl Derivative Curve

The CCC Line for Herbicide analysis provides the necessary free acid and derivatized solutions to establish a calibration curve, perform the required daily QC checks and validate extraction efficiencies through the use of surrogates and matrix spikes.

M-8150/51-CAL-SET **$ 75 / 7 x 1 mL**
At stated conc. (ng/mL) in Isooctane 11 comps.

Components	Level 1 M-8150/51-WL	Level 2 (-2X)	Level 3 (-4X)	Level 4 (-10X)	Level 5 (-25X)	Level 6 (-35X)	Level 7 (-50X)
2,4-D	20	40	80	200	500	700	1000
2,4-DB	20	40	80	200	500	700	1000
2,4,5-TP	5	10	20	50	125	175	250
2,4,5-T	5	10	20	50	125	175	250
Dalapon	10	20	40	100	250	350	500
Dicamba	10	20	40	100	250	350	500
Dichloroprop	20	40	80	200	500	700	1000
Dinoseb	5	10	20	50	125	175	250
MCPA	2000	4000	8,000	20,000	50,000	70,000	100,000
MCPP	2000	4000	8,000	20,000	50,000	70,000	100,000
DCAA	20	40	80	200	500	700	1000

Level 1	**M-8150/51-WL**	**$ 25 / 1 mL**
Level 2	**M-8150/51-WL-2X**	**25 / 1 mL**
Level 3	**M-8150/51-WL-4X**	**25 / 1 mL**
Level 4	**M-8150/51-WL-10X**	**25 / 1 mL**
Level 5	**M-8150/51-WL-25X**	**25 / 1 mL**
Level 6	**M-8150/51-WL-35X**	**25 / 1 mL**
Level 7	**M-8150/51-WL-50X**	**25 / 1 mL**

Level 3 Daily QC Working Level CCC (for low level curves)

M-8150/51-WL-4X-10ML **$ 60 / 1 x 10 mL**
M-8150/51-WL-4X-25ML **$ 80 / 1 x 25 mL**
M-8150/51-WL-4X-50ML **$ 120 / 1 x 50 mL**
At stated conc. in Isooctane

Level 4 Daily QC Working Level CCC (for higher level curves)

M-8150/51-WL-10X-10ML **$ 60 / 1 x 10 mL**
M-8150/51-WL-10X-25ML **$ 80 / 1 x 25 mL**
M-8150/51-WL-10X-50ML **$ 120 / 1 x 50 mL**
At stated conc. in Isooctane

Level 5 Daily QC Working Level CCC (for higher level curves)

M-8150/51-WL-25X-10ML **$ 60 / 1 x 10 mL**
M-8150/51-WL-25X-25ML **$ 80 / 1 x 25 mL**
M-8150/51-WL-25X-50ML **$ 120 / 1 x 50 mL**
At stated conc. in Isooctane

Table I: Herbicide Molecular Weights

Herbicide	Free Acid M.W.	Methylated M.W.
2,4-D	221.04	235.07
Dalapon	143.97	157.00
2,4-DB	249.09	263.12
Dicamba	221.04	235.07
Dichlorprop	235.07	249.09
Dinoseb	240.22	254.24
MCPA	200.62	214.65
MCPP	214.65	228.67
Silvex *(2,4,5-TP)*	269.51	283.54
2,4,5-T	255.48	269.51

The COA for the Working Level Herbicide calibration curves and Daily QC check standards lists both the methyl derivative and acid equivalent concentrations. Since the EPA method for Herbicide analysis requires the final analytical results to be calculated and reported as the acid equivalent, AccuStandard provides both formats to ease calculations.

Equivalency conversion to the free acid:

$$\text{ng (free acid)} = \frac{\text{M.W. Herbicide acid}}{\text{M.W. methylated Herbicide}} \times \text{ng (methylated acid)}$$

The molecular weights for conversion of methyl esters to the acid equivalent concentrations are provided above.

Method 8150/8151 Working Level Herbicide Standards

Prep Note

To validate instrument response, 10 µL of internal standard is added to a 10 mL herbicide sample extract.

Internal Standard - Herbicide Solution 1

M-8151-IS **$ 20 / 1 x 1 mL**
M-8151-IS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
250 µg/mL in Acetone

4,4'-Dibromooctafluorobiphenyl

Internal Standard - Herbicide Solution 2

M-8151-IS-2 **$ 10 / 1 x 1 mL**
M-8151-IS-2-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
250 µg/mL in Acetone

1,4-Dichlorobenzene

Laboratory Performance Check Solution

M-8150/51-LPC-5ML **$ 20 / 1 x 5 mL**
At stated conc. in Isooctane 5 comps.

3,5-Dichlorobenzoic acid	(600 ng/mL)
Dinoseb	(4 ng/mL)
4-Nitrophenol	(1600 ng/mL)
DCAA	(500 ng/mL)
DBOB	(250 ng/mL)

Prep Note

To verify extraction efficiency, 1 mL of surrogate is added to a herbicide sample.

Herbicide Surrogate Spiking Solution

M-8150/51-SS-WL-25ML **$ 25 / 1 x 25 mL**
M-8150/51-SS-WL-50ML **$ 45 / 1 x 50 mL**
2 µg/mL in MeOH

2,4-Dichlorophenylacetic acid *(DCAA)*

Prep Note

To verify QA/QC for the analytical batch, 1 mL of matrix spike is added to an herbicide sample.

Herbicide Matrix Spike (Components as Acids)

M-8150/51-MS-WL-10ML **$ 25 / 1 x 10 mL**
M-8150/51-MS-WL-25ML **$ 50 / 1 x 25 mL**
M-8150/51-MS-WL-50ML **$ 75 / 1 x 50 mL**
At stated conc. in MeOH 5 comps.

2,4-D	(2 µg/mL)	Dalapon	(1 µg/mL)
2,4-DB	(2 µg/mL)	Dicamba	(1 µg/mL)
2,4,5-TP *(Silvex)*	(0.8 µg/mL)		

Method 8150A Chlorinated Herbicides by GC/ECD

Chlorinated Herbicides in Ground Water (Rev. 1, July 1992) & their Methyl Derivatives

Compound	(mg/mL) Conc.	Herbicides Acids (in MeOH) Cat. No.	Methyl Derivative (in Hexane) Cat. No.	1 mL Price
2,4-D	0.2	M-8150S-A-01	M-8150-01	$ 15
2,4-DB	0.2	M-8150S-A-02	M-8150-02	15
2,4,5-T	0.2	M-8150S-A-03	M-8150-03	15
2,4,5-TP	0.2	M-8150S-A-04	M-8150-04	15
Dalapon	0.2	M-8150S-A-05	M-8150-05	15
Dicamba	0.2	M-8150S-A-06	M-8150-06	15
Dichlorprop	0.2	M-8150S-A-07	M-8150-07	$ 15
Dinoseb	0.2	M-8150S-A-08	M-8150-08	15
MCPA	2.0	M-8150S-A-09	M-8150-09	15
MCPP	2.0	M-8150S-A-10	M-8150-10	15
Set of 10 x 1 mL		**M-8150A-SET**	**M-8150-SET**	**$ 125**

Underivatized Solution (Varied Concentration)

M-8150A — **$ 40 / 1 x 1 mL**
M-8150A-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
0.1 mg/mL in MeOH, except MCPA and MCPP — 10 comps.

- 2,4-D
- Dalapon
- 2,4-DB
- Dicamba
- Dichlorprop
- Dinoseb
- MCPA (10 mg/mL)
- MCPP (10 mg/mL)
- 2,4,5-TP
- 2,4,5-T

Underivatized Solution (Equal Concentration)

M-8150M-A — **$ 40 / 1 x 1 mL**
M-8150M-A-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
0.2 mg/mL each in MeOH — 10 comps.

- 2,4-D
- Dalapon
- 2,4-DB
- Dicamba
- Dichlorprop
- Dinoseb
- MCPA
- MCPP
- 2,4,5-TP
- 2,4,5-T

Underivatized Surrogate Standards

M-8150B-SS — **$ 10 / 1 x 1 mL**
M-8150B-SS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.1 mg/mL in Acetone
M-8150B-SS-10X — **$ 20 / 1 x 1 mL**
1.0 mg/mL in Acetone

- 2,4-Dichlorophenylacetic acid

Internal Standard

M-8151-IS — **$ 20 / 1 x 1 mL**
M-8151-IS-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.25 mg/mL in Acetone

- 4,4'-Dibromooctafluorobiphenyl

Methyl Derivatives Solutions (Varied Concentration)

M-8150 — **$ 45 / 1 x 1 mL**
0.1 mg/mL in MeOH, except MCPA and MCPP — 10 comps.

- 2,4-D ME
- Dalapon ME
- 2,4-DB ME
- Dicamba ME
- Dichlorprop ME
- Dinoseb ME
- MCPA ME (10 mg/mL)
- MCPP ME (10 mg/mL)
- 2,4,5-TP ME
- 2,4,5-T ME

Methyl Derivatives Solutions (Equal Concentration)

M-8150M-SET — **$ 6 / 2 x 1 mL (M-8150M, M-8150M-2)**
M-8150M — **$ 40 / 1 x 1 mL**
M-8150M-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
20 µg/mL each in Hexane — 8 comps.

- 2,4-D ME
- Dalapon ME
- 2,4-DB ME
- Dicamba ME
- Dichlorprop ME
- Dinoseb ME
- 2,4,5-TP ME
- 2,4,5-T ME

M-8150M-2 — **$ 15 / 1 x 1 mL**
M-8150M-2-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
2,000 µg/mL each in Hexane — 2 comps.

- MCPA ME
- MCPP ME

Methyl Derivative Surrogate Standard

M-515-SS — **$ 10 / 1 x 1 mL**
M-515-SS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.1 mg/mL in MtBE

- 2,4-Dichlorophenylacetic acid methyl ester

Method 8151/8151A Chlorinated Herbicides by GC/ECD

Methyl Derivatives

M-8151 **$ 80 / 1 x 1 mL**
0.1 mg/mL each in MtBE, except MCPA & MCPP 18 comps.

Acifluorfen	Dichlorprop
Bentazon	Dinoseb
Chloramben	MCPA (10 mg/mL)
2,4-D	MCPP (10 mg/mL)
Dalapon	4-Nitrophenol
2,4-DB	Pentachlorophenol
DCPA	Picloram
Dicamba	2,4,5-TP
3,5-Dichlorobenzoic acid	2,4,5-T

Underivatized

M-8151A **$ 80 / 1 x 1 mL**
M-8151A-PAK ***SAVE 20%*** **$ 320 / 5 x 1 mL**
0.1 mg/mL each in Acetone, except MCPA & MCPP 18 comps.

Acifluorfen	Dichlorprop
Bentazon	Dinoseb
Chloramben	MCPA (10 mg/mL)
2,4-D	MCPP (10 mg/mL)
Dalapon	4-Nitrophenol
2,4-DB	Pentachlorophenol
DCPA diacid	Picloram
Dicamba	2,4,5-TP
3,5-Dichlorobenzoic acid	2,4,5-T

PFB Derivatized Chlorinated Herbicides

M-8150-02-PFB **$ 30 / 1 x 1 mL**
0.1 mg/mL in MtBE

2,4-D-PFB

M-8150-04-PFB **$ 30 / 1 x 1 mL**
0.1 mg/mL in MtBE

2,4,5-TP-PFB

Internal Standards

M-8151-IS **$ 20 / 1 x 1 mL**
M-8151-IS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.25 mg/mL in Acetone

4,4'-Dibromooctafluorobiphenyl

M-8151-IS-2 **$ 10 / 1 x 1 mL**
M-8151-IS-2-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.25 mg/mL in Acetone

1,4-Dichlorobenzene

Surrogate Standards

M-515-SS **$ 10 / 1 x 1 mL**
M-515-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.1 mg/mL in MtBE

2,4-Dichlorophenylacetic acid methyl ester

M-8150B-SS **$ 10 / 1 x 1 mL**
M-8150B-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.1 mg/mL in Acetone
M-8150B-SS-10X **$ 20 / 1 x 1 mL**
1.0 mg/mL in Acetone

2,4-Dichlorophenylacetic acid

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Method 8240 Volatile Organics by GC/MS

M-8240A ❄ **$ 70 / 1 x 1 mL**
0.2 mg/mL each in MeOH 41 comps.

Acetone	1,2-Dichloropropane
Acrolein	*cis*-1,3-Dichloropropene *
Acrylonitrile	*trans*-1,3-Dichloropropene **
Benzene	Ethanol
Bromodichloromethane	Ethylbenzene
Bromoform	2-Hexanone
2-Butanone	Iodomethane
Carbon disulfide	4-Methyl-2-pentanone
Carbon tetrachloride	Methylene chloride
Chlorobenzene	Styrene
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
cis-1,4-Dichloro-2-butene +	Toluene
trans-1,4-Dichloro-2-butene ++	1,1,1-Trichloroethane
1,2-Dichlorobenzene	1,1,2-Trichloroethane
1,3-Dichlorobenzene	Trichloroethene
1,4-Dichlorobenzene	Vinyl acetate
1,1-Dichloroethane	*o*-Xylene
1,2-Dichloroethane	*m*-Xylene
1,1-Dichloroethene	*p*-Xylene
trans-1,2-Dichloroethene	

* cis (1.06 x conc.)
** trans (0.94 x conc.)

\+ cis (0.1 mg/mL)
++ trans (0.1 mg/mL)

Auxiliary Standards for all 8240 Methods (VOC analysis) see Catalog Number Index

Surrogate Standard	see CLP-PS-10X
Internal Standard	see CLP-PI-2.5X
Gases	see M-601B
Matrix Spiking Solution	see CLP-003R
Tuning Standard	see CLP-004
System Performance	see CLP-021
Calibration Check Compounds	see CLP-020

Method 8240A Volatiles by GC/MS

APP-9-048-R1-2X **$ 14 / 1 x 1 mL**
0.2 mg/mL in MeOH

Chloroprene (Xylene-free)

S-354-2 **$ 10 / 1 x 1 mL**
0.2 mg/mL in Isooctane

Ethylene oxide

Method 8240 & 8260 Volatile Organic Compounds by GC/MS

The following solutions can be used to construct a single calibration curve containing the volatile analytes in Appendix IX for analysis by either Method 8240 or Method 8260 by GC/MS.

Bromochloromethane is excluded in the calibration solutions since it is used as an internal standard in Method 8240. If Method 8260 methodology is used, the addition of bromochloromethane from the internal standard mix can serve as the source for bromochloromethane to complement the target compound list.

Liquids (53 components, **does not include Bromochloromethane**)

Benzene (01)
Bromobenzene (02)
Bromodichloromethane (04)
Bromoform (05)
n-Butylbenzene (07)
sec-Butylbenzene (08)
tert-Butylbenzene (09)
Carbon tetrachloride (10)
Chlorobenzene (11)
Chloroform (13)
2-Chlorotoluene (15)
4-Chlorotoluene (16)
Dibromochloromethane (17)
1,2-Dibromo-3-chloropropane (18)
1,2-Dibromoethane (19)
Dibromomethane (20)
1,2-Dichlorobenzene (21)
1,3-Dichlorobenzene (22)
1,4-Dichlorobenzene (23)
1,1-Dichloroethane (25)
1,2-Dichloroethane (26)
1,1-Dichloroethene (27)
cis-1,2-Dichloroethene (28)
trans-1,2-Dichloroethene (29)
1,2-Dichloropropane (30)
1,3-Dichloropropane (31)
2,2-Dichloropropane (32)
1,1-Dichloropropene (33)
cis-1,3-Dichloropropene (34A) *
trans-1,3-Dichloropropene (34B) **
Ethylbenzene (35)
Hexachlorobutadiene (36)
Isopropylbenzene (37)
p-Isopropyltoluene (38)
Methylene chloride (39)
Naphthalene (40)
n-Propylbenzene (41)
Styrene (42)
1,1,1,2-Tetrachloroethane (43)
1,1,2,2-Tetrachloroethane (44)
Tetrachloroethene (45)
Toluene (46)
1,2,3-Trichlorobenzene (47)
1,2,4-Trichlorobenzene (48)
1,1,1-Trichloroethane (49)
1,1,2-Trichloroethane (50)
Trichloroethene (51)
1,2,3-Trichloropropane (53)
1,2,4-Trimethylbenzene (54)
1,3,5-Trimethylbenzene (55)
o-Xylene (57)
m-Xylene (58)
p-Xylene (59)

* cis (1.06 x conc.)
** trans (0.94 x conc.)

6 Gas Components

Bromomethane (06)
Chloroethane (12)
Chloromethane (14)
Dichlorodifluoromethane (24)
Trichlorofluoromethane (52)
Vinyl chloride (56)

Liquids (53 components)

M-502A-R2 — **$ 60 / 1 x 1 mL**
M-502A-R2-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
0.2 mg/mL each in MeOH

M-502A-R2-10X — **$ 80 / 1 x 1 mL**
M-502A-R2-10X-PAK — ***SAVE 20%*** **$ 320 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 53 comps.

Gases (6 components)

M-502B — **$ 25 / 1 x 1 mL**
M-502B-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH

M-502B-10X — **$ 35 / 1 x 1 mL**
M-502B-10X-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 6 comps.

Liquid and Gas Sets

M-502A-R2/B-SET — **$ 80 / 2 x 1 mL**
0.2 mg/mL each in MeOH — **(M-502A-R2, M-502B)**
M-502A-R2/B-10X-SET — **$ 100 / 2 x 1 mL**
2.0 mg/mL each in MeOH — **(M-502A-R2-10X, M-502B-10X)**

All 60 liquid and gas components in One Solution

Liquids (54 comps.) and Gases (6 comps.)

M-502 — **$ 75 / 1 x 1 mL**
M-502-PAK — ***SAVE 20%*** **$ 300 / 5 x 1 mL**
0.2 mg/mL each in MeOH

M-502-10X — **$ 100 / 1 x 1 mL**
M-502-10X-PAK — ***SAVE 20%*** **$ 400 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 60 comps.

Appendix IX Volatiles

M-8240C-R3 — **$ 40 / 1 x 1 mL**
At stated conc. in MeOH — 12 comps.

Acetonitrile	(2.0 mg/mL)	Ethyl methacrylate	(0.2 mg/mL)
Allyl chloride	(0.2 mg/mL)	Isobutyl alcohol	(4.0 mg/mL)
cis-1,4-Dichloro-2-butene	(0.2 mg/mL)	Methacrylonitrile	(2.0 mg/mL)
trans-1,4-Dichloro-2-butene	(0.2 mg/mL)	Methyl methacrylate	(0.2 mg/mL)
1,4-Dioxane	(4.0 mg/mL)	Pentachloroethane	(0.2 mg/mL)
Ethanol	(4.0 mg/mL)	Propionitrile	(2.0 mg/mL)

M-8240C-R3-10X — **$ 45 / 1 x 1 mL**
At stated conc. in MeOH — 12 comps.

Acetonitrile	(20 mg/mL)	Ethyl methacrylate	(2.0 mg/mL)
Allyl chloride	(2.0 mg/mL)	Isobutyl alcohol	(40 mg/mL)
cis-1,4-Dichloro-2-butene	(2.0 mg/mL)	Methacrylonitrile	(20 mg/mL)
trans-1,4-Dichloro-2-butene	(2.0 mg/mL)	Methyl methacrylate	(2.0 mg/mL)
1,4-Dioxane	(40 mg/mL)	Pentachloroethane	(2.0 mg/mL)
Ethanol	(40 mg/mL)	Propionitrile	(20 mg/mL)

Same as M-8240C-R3-10X without Pentachloroethane

M-8240C-R6 — **$ 40 / 1 x 1 mL**
At stated conc. in MeOH — 11 comps.

Acetonitrile	(20 mg/mL)	Ethyl methacrylate	(2.0 mg/mL)
Allyl chloride	(2.0 mg/mL)	Isobutyl alcohol	(40 mg/mL)
cis-1,4-Dichloro-2-butene	(2.0 mg/mL)	Methacrylonitrile	(20 mg/mL)
trans-1,4-Dichloro-2-butene	(2.0 mg/mL)	Methyl methacrylate	(2.0 mg/mL)
1,4-Dioxane	(40 mg/mL)	Propionitrile	(20 mg/mL)
Ethanol	(40 mg/mL)		

M-8260-ADD ❄ — **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH — 8 comps.
M-8260-ADD-10X ❄ — **$ 30 / 1 x 1 mL**
M-8260-ADD-10X-PAK ❄ — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 8 comps.

Acetone	2-Hexanone
2-Butanone	Iodomethane
Carbon disulfide	4-Methyl-2-pentanone
2-Chloroethylvinyl ether	Vinyl acetate

M-603 — **$ 14 / 1 x 1 mL**
M-603-PAK — ***SAVE 20%*** **$ 56 / 5 x 1 mL**
1.0 mg/mL each in Water — 2 comps.
M-603-10X — **$ 17 / 1 x 1 mL**
10.0 mg/mL each in Water — 2 comps.
M-603-M-0.1X ❄ — **$ 25 / 1 x 1 mL**
100 µg/mL each in MeOH:Water (9:1) — 2 comps.
M-603-M-5X ❄ — **$ 30 / 1 x 1 mL**
5 mg/mL each in MeOH:Water (9:1) — 2 comps.

Acrolein	Acrylonitrile

See also Method 8240 & 8260

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Method 8260B Volatile Organic Compounds by GC/MS

The following formulations have been put together for a complete 8260B target compound list. We have utilized our standard M-502A-R containing the 54 typical analytes found in this method and a number of other EPA methods. In addition, we have tried to minimize the number of additional standards required to get the complete analyte list, while still addressing the various chromatographic problems associated to specific analytes.

Volatile Organic Compounds (VOC) Set

M-502A-R/B-SET **$ 85 / set of 2 x 1 mL**
(includes 1 mL of 54 liquids and 1 mL of 6 gas components)

Liquids

M-502A-R **$ 60 / 1 x 1 mL**
0.2 mg/mL each in MeOH 54 comps.

- Benzene (01)
- Bromobenzene (02)
- Bromochloromethane (03)
- Bromodichloromethane (04)
- Bromoform (05)
- *n*-Butylbenzene (07)
- *sec*-Butylbenzene (08)
- *tert*-Butylbenzene (09)
- Carbon tetrachloride (10)
- Chlorobenzene (11)
- Chloroform (13)
- 2-Chlorotoluene (15)
- 4-Chlorotoluene (16)
- Dibromochloromethane (17)
- 1,2-Dibromo-3-chloropropane (18)
- 1,2-Dibromoethane (19)
- Dibromomethane (20)
- 1,2-Dichlorobenzene (21)
- 1,3-Dichlorobenzene (22)
- 1,4-Dichlorobenzene (23)
- 1,1-Dichloroethane (25)
- 1,2-Dichloroethane (26)
- 1,1-Dichloroethene (27)
- *cis*-1,2-Dichloroethene (28)
- *trans*-1,2-Dichloroethene (29)
- 1,2-Dichloropropane (30)
- 1,3-Dichloropropane (31)
- 2,2-Dichloropropane (32)
- 1,1-Dichloropropene (33)
- *cis*-1,3-Dichloropropene (34A) *
- *trans*-1,3-Dichloropropene (34B) **
- Ethylbenzene (35)
- Hexachlorobutadiene (36)
- Isopropylbenzene *(Cumene)* (37)
- *p*-Isopropyltoluene *(p-Cymene)* (38)
- Methylene chloride (39)
- Naphthalene (40)
- *n*-Propylbenzene (41)
- Styrene (42)
- 1,1,1,2-Tetrachloroethane (43)
- 1,1,2,2-Tetrachloroethane (44)
- Tetrachloroethene (45)
- Toluene (46)
- 1,2,3-Trichlorobenzene (47)
- 1,2,4-Trichlorobenzene (48)
- 1,1,1-Trichloroethane (49)
- 1,1,2-Trichloroethane (50)
- Trichloroethene (51)
- 1,2,3-Trichloropropane (53)
- 1,2,4-Trimethylbenzene (54)
- 1,3,5-Trimethylbenzene (55)
- *o*-Xylene (57)
- *m*-Xylene (58)
- *p*-Xylene (59)

* cis (1.06 x conc.)
** trans (0.94 x conc.)

Gases

M-502B **$ 25 / 1 x 1 mL**
0.2 mg/mL each in MeOH 6 comps.

- Bromomethane (06)
- Chloroethane (12)
- Chloromethane (14)
- Dichlorodifluoromethane (24)
- Trichlorofluoromethane (52)
- Vinyl chloride (56)

M-603 **$ 14 / 1 x 1 mL**
1.0 mg/mL each in water 2 comps.

- Acrolein
- Acrylonitrile

M-8240C-R3-10X **$ 45 / 1 x 1 mL**
At stated conc. in MeOH 12 comps.

Acetonitrile	(20 mg/mL)	Ethyl methacrylate	(2.0 mg/mL)
Allyl chloride	(2.0 mg/mL)	Isobutyl alcohol	(40 mg/mL)
cis-1,4-Dichloro-2-butene	(2.0 mg/mL)	Methacrylonitrile	(20 mg/mL)
trans-1,4-Dichloro-2-butene	(2.0 mg/mL)	Methyl methacrylate	(2.0 mg/mL)
1,4-Dioxane	(40 mg/mL)	Pentachloroethane	(2.0 mg/mL)
Ethanol	(40 mg/mL)	Propionitrile	(20 mg/mL)

Storage Conditions

All products come with storage conditions listed on the label of the ampule or bottle. Some chemical formulations require refrigeration or freezer storage to inhibit adverse reactions among the components. Other standards require sonication prior to use because they are near their saturation for the particular formulation. It is imperative that these conditions are followed to insure the chemical reference standard will be at the stated concentration.

Additional VOCs by Method 8260B

M-8260B-01 **$ 45 / 1 x 1 mL**
M-8260B-01-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
2000 µg/mL each in MeOH 11 comps.

- Benzyl chloride
- 1-Chlorobutane
- 1-Chlorohexane
- 1,2,3,4-Diepoxybutane
- Diethyl ether
- Nitrobenzene
- 2-Nitropropane
- Dibromofluoromethane
- Methyl acrylate
- MtBE
- Pentafluorobenzene

M-8260B-02 ❄ **$ 45 / 1 x 1 mL**
M-8260B-02-PAK ❄ ***SAVE 20%*** **$ 180 / 5 x 1 mL**
2000 µg/mL each in MeOH 10 comps.

- Allyl alcohol
- 1-Butanol
- Chloroacetonitrile
- 3-Chloropropionitrile
- Epichlorohydrin
- Ethyl acetate
- Hexachloroethane
- 2-Hydroxypropionitrile
- Malonitrile
- Pyridine

M-8260B-03 **$ 45 / 1 x 1 mL**
M-8260B-03-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
2000 µg/mL each in MeOH : Water 9: 1 4 comps.

- N-Nitrosodi-*n*-butylamine
- 2-Picoline
- Propylamine
- *o*-Toluidine

M-8260B-04 **$ 45 / 1 x 1 mL**
M-8260B-04-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**
2000 µg/mL each in MeOH 6 comps.

- t-Butanol
- 2-Chloroethanol
- 1,3-Dichloro-2-propanol
- 1-Propanol
- Isopropanol
- Propargyl alcohol

M-8260B-06-PAK ❄ ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2000 µg/mL each in MeOH 3 comps.

- Bromoacetone
- 2-Pentanone
- b-Propiolactone

Chloroprene (Xylene-Free)

APP-9-048-R1-10X **$ 20 / 1 x 1 mL**
1.0 mg/mL in MeOH
APP-9-048-R1-20X **$ 30 / 1 x 1 mL**
2.0 mg/mL in MeOH

Ethylene oxide

M-8015B/5031-14-R1 ❄ **$ 20 / 1 x 1 mL**
5 mg/mL in H_2O

Chloral hydrate

M-E-1179-M **$ 40 / 1 x 1 mL**
1.0 mg/mL in MeOH

M-8260B continued to the next page

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Method 8260B (Continued) Volatile Organic Compounds by GC/MS

Internal Standards

M-8260-IS **$ 30 / 1 x 1 mL**
M-8260-IS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH 4 comps.
M-8260-IS-10X **$ 35 / 1 x 1 mL**
M-8260-IS-10X-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 4 comps.

Chlorobenzene-d_5
1,4-Difluorobenzene
1,4-Dichlorobenzene-d_4
Pentafluorobenzene

M-8260-IS-R **$ 30 / 1 x 1 mL**
M-8260-IS-R-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH 4 comps.
M-8260-IS-R-10X **$ 40 / 1 x 1 mL**
M-8260-IS-R-10X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH 4 comps.

2-Bromo-1-chloropropane
1,4-Difluorobenzene
1,4-Dichlorobenzene-d_4
Pentafluorobenzene

M-8260A/B-IS **$ 20 / 1 x 1 mL**
M-8260A/B-IS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.2 mg/mL each in MeOH 3 comps.
M-8260A/B-IS-10X **$ 30 / 1 x 1 mL**
M-8260A/B-IS-10X-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH 3 comps.

Chlorobenzene-d_5
1,4-Dichlorobenzene-d_4
Fluorobenzene

Combined Internal/Surrogate Standard VOA Mix

M-8260A/B-IS/SS **$ 40 / 1 x 1 mL**
M-8260A/B-IS/SS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
200 µg/mL each in MeOH 7 comps.
M-8260A/B-IS/SS-10X **$ 50 / 1 x 1 mL**
M-8260A/B-IS/SS-10XPAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
2.0 mg/mL each in MeOH 7 comps.

p-Bromofluorobenzene
Chlorobenzene-d_5
Dibromofluoromethane
1,4-Dichlorobenzene-d_4
1,2-Dichloroethane-d_4
Fluorobenzene
Toluene-d_8

Surrogate Standards

M-8260-SS **$ 30 / 1 x 1 mL**
M-8260-SS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH 3 comps.
M-8260-SS-10X **$ 40 / 1 x 1 mL**
M-8260-SS-10X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH 3 comps.

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d_8

M-8260-SS-2 **$ 20 / 1 x 1 mL**
0.2 mg/mL in MeOH
M-8260-SS-2-10X **$ 25 / 1 x 1 mL**
2.0 mg/mL in MeOH

Dibromofluoromethane

M-8260A/B-SS **$ 30 / 1 x 1 mL**
M-8260A/B-SS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH 4 comps.
M-8260A/B-SS-10X **$ 40 / 1 x 1 mL**
M-8260A/B-SS-10X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH 4 comps.

p-Bromofluorobenzene
Dibromofluoromethane
1,2-Dichloroethane-d_4
Toluene-d_8

Method 8240 & 8260 Volatile Organic Compounds Auxiliary Standards

Internal Standard VOA

M-8240/60-IS		**$ 30 / 1 x 1 mL**
M-8240/60-IS-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH		5 comps.
M-8240/60-IS-10X		**$ 40 / 1 x 1 mL**
M-8240/60-IS-10X-PAK	***SAVE 20%***	**$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH		5 comps.

Bromochloromethane
Chlorobenzene-d_5
1,4-Dichlorobenzene-d_4
1,4-Difluorobenzene
Pentafluorobenzene

Surrogate Standard VOA

M-8240/60-SS		**$ 30 / 1 x 1 mL**
M-8240/60-SS-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH		4 comps.
M-8240/60-SS-10X		**$ 40 / 1 x 1 mL**
M-8240/60-SS-10X-PAK	***SAVE 20%***	**$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH		4 comps.

p-Bromofluorobenzene
Dibromofluoromethane
1,2-Dichloroethane-d_4
Toluene-d_8

Internal / Surrogate Standard VOA

M-8240/60-IS/SS		**$ 45 / 1 x 1 mL**
M-8240/60-IS/SS-PAK	***SAVE 20%***	**$ 180 / 5 x 1 mL**
0.2 mg/mL each in MeOH		9 comps.
M-8240/60-IS/SS-10X		**$ 60 / 1 x 1 mL**
M-8240/60-IS/SS-10XPAK	***SAVE 20%***	**$ 240 / 5 x 1 mL**
2.0 mg/mL each in MeOH		9 comps.

Bromochloromethane
p-Bromofluorobenzene
Chlorobenzene-d_5
Dibromofluoromethane
1,4-Dichlorobenzene-d_4
1,2-Dichloroethane-d_4
1,4-Difluorobenzene
Pentafluorobenzene
Toluene-d_8

Volatile Calibration Check Compounds (CCC)

CLP-020		**$ 30 / 1 x 1 mL**
CLP-020-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH		6 comps.
CLP-020-10X		**$ 30 / 1 x 1 mL**
CLP-020-10X-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH		6 comps.

Chloroform
1,1-Dichloroethene
1,2-Dichloropropane
Ethylbenzene
Toluene
Vinyl chloride

Volatile System Performance Check Compounds (SPCC)

CLP-021		**$ 30 / 1 x 1 mL**
CLP-021-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH		5 comps.
CLP-021-10X		**$ 30 / 1 x 1 mL**
CLP-021-10X-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH		5 comps.

Bromoform
Chlorobenzene
Chloromethane
1,1-Dichloroethane
1,1,2,2-Tetrachloroethane

Instrument Performance Check Solutions

CLP-004		**$ 10 / 1 x 1 mL**
CLP-004-PAK	***SAVE 20%***	**$ 40 / 5 x 1 mL**
25 µg/mL in MeOH		
CLP-004-10X		**$ 10 / 1 x 1 mL**
CLP-004-10X-PAK	***SAVE 20%***	**$ 40 / 5 x 1 mL**
250 µg/mL in MeOH		
CLP-004-100X		**$ 10 / 1 x 1 mL**
CLP-004-100X-PAK	***SAVE 20%***	**$ 40 / 5 x 1 mL**
2500 µg/mL in MeOH		

p-Bromofluorobenzene

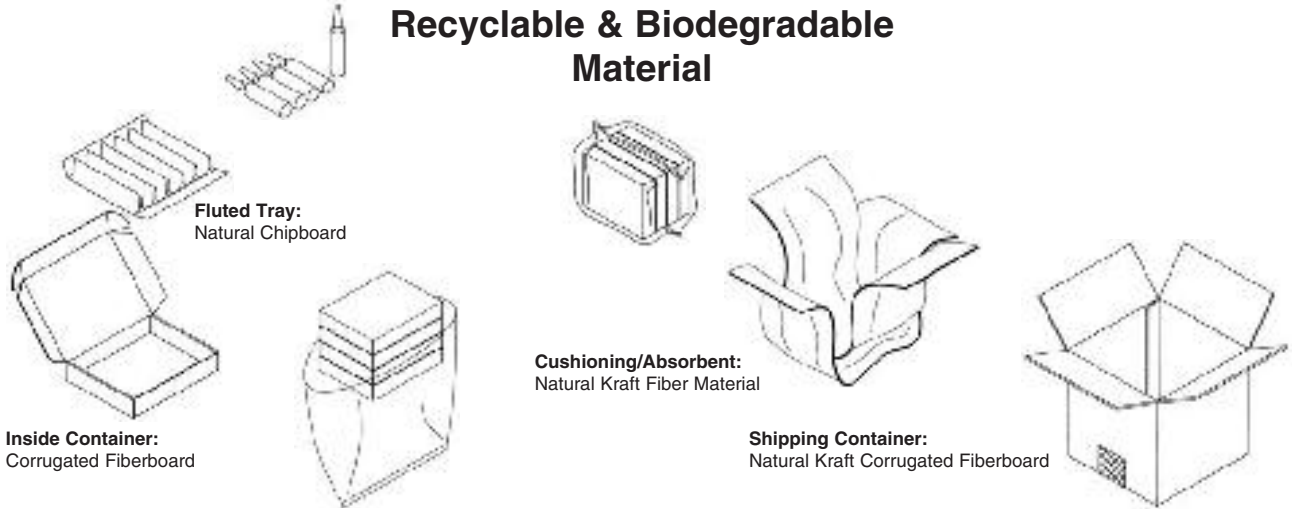
Purgeable Organic Matrix Spiking Solutions

CLP-003-R		**$ 20 / 1 x 1 mL**
CLP-003-R-PAK	***SAVE 20%***	**$ 80 / 5 x 1 mL**
0.25 mg/mL each in MeOH		5 comps.
CLP-003-R-10X		**$ 20 / 1 x 1 mL**
CLP-003-R-10X-PAK	***SAVE 20%***	**$ 80 / 5 x 1 mL**
2.5 mg/mL each in MeOH		5 comps.

Benzene
Chlorobenzene
1,1-Dichloroethene
Toluene
Trichloroethene

AccuStandard has Environmentally Friendly Packaging

Recyclable & Biodegradable Material



Fluted Tray:
Natural Chipboard

Inside Container:
Corrugated Fiberboard

Cushioning/Absorbent:
Natural Kraft Fiber Material

Shipping Container:
Natural Kraft Corrugated Fiberboard

Package compliant with DOT Title 49, CFR 173.4.

Method 8270C/D Semi-Volatile by GC/MS as core mixtures

The primary analytes typically analyzed in Method 8270 version C and D have been formulated based on one of the following considerations: large core mixes, analyte retention time association to ISTD's, similar functional groups, Third Party Certified Standards or as working level Ready-to-Inject standards.

Use of these Method 8270C/D components in 5 mixtures can save you time and money in preparing your calibration curves. Four high concentration solutions CLP-HC-BN-SET, CLP-HC-A-R, CLP-HC-X1 and Z-014E can be combined to give you the 92 typical analytes needed for Method 8270C/D. Product Z-014E-R can be used in lieu of Z-014E for those labs interested in adding pyridine to their target list.

These mixtures can also serve as your **second source** requirements since they are independently prepared from product M-8270 (7 x 1 mL).

Base-Neutral Mixture (44 components)

CLP-HC-BN-R

- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- Benz[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- 4-Bromophenyl phenyl ether
- Butyl benzyl phthalate
- bis(2-Chloroethoxy)methane
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Chrysene
- Dibenz[a,h]anthracene
- Di-*n*-butyl phthalate
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Di-*n*-octyl phthalate
- bis(2-Ethylhexyl)phthalate
- Fluoranthene
- Fluorene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Indeno[1,2,3-cd]pyrene
- Isophorone
- Naphthalene
- Nitrobenzene
- N-Nitrosodimethylamine
- N-Nitrosodiphenylamine
- N-Nitrosodi-*n*-propylamine
- Phenanthrene
- Pyrene
- 1,2,4-Trichlorobenzene

Benzidine Mixture (2 comps.)

Z-014F

- Benzidine
- 3,3'-Dichlorobenzidine

Alternate Source Line (ASL)
For complete listing of competitive 8270 see the QC Section

Technical Note

Azobenzene was substituted for 1,2-diphenylhydrazine since it oxidizes to azobenzene under GC operating conditions.

Base-Neutrals

CLP-HC-BN-R — **$ 160 / 1 x 1 mL**
2.0 mg/mL each in Benzene : CH_2Cl_2 : AcCN (2:2:1) — 44 comps.

CLP-HC-BN-R-PAK *SAVE 20%* — **$ 640 / 5 x 1 mL**
2.0 mg/mL each in Benzene : CH_2Cl_2 : AcCN (2:2:1) — **44 comps.**

Benzidine

Z-014F — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH — 2 comps.

Base-Neutral and Benzidine Sets

CLP-HC-BN-SET — **$ 190 / 2 x 1 mL (CLP-HC-BN-R, Z-014F)**

CLP-HC-BN-SET-PAK *SAVE 20%* — **$ 760 / 5 x (2 x 1 mL) 5 x (CLP-HC-BN-R, Z-014F)**

Additional Analyte Solutions

Acid Composite Mixture

CLP-HC-A-R — **$ 55 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 19 comps.

- Benzoic acid
- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- *o*-Cresol
- *p*-Cresol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-2-methylphenol
- 2,4-Dinitrophenol
- Ethyl methanesulfonate
- Methyl methanesulfonate
- 2-Nitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,3,4,6-Tetrachlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Composite #1

Z-014E — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 8 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline

Composite #2

Z-014E-R — **$ 32 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 9 comps.

- Aniline
- Benzyl alcohol
- 4-Chloroaniline
- Dibenzofuran
- 2-Methylnaphthalene
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- Pyridine

Composite #3A

CLP-HC-X1 — **$ 85 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 19 comps.

- Acetophenone
- 4-Aminobiphenyl
- 1-Chloronaphthalene
- Dibenz[a,j]acridine
- *p*-Dimethylaminoazobenzene
- 7,12-Dimethylbenz[a]anthracene
- α,α-Dimethylphenethylamine
- Diphenylamine
- 3-Methylcholanthrene
- 1-Naphthylamine
- 2-Naphthylamine
- N-Nitrosodi-*n*-butylamine
- N-Nitrosopiperidine
- Pentachlorobenzene
- Pentachloronitrobenzene
- Phenacetin
- 2-Picoline
- Pronamide
- 1,2,4,5-Tetrachlorobenzene

M-8270-07

M-8270-07 — **$ 160 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 15 comps.

- Aramite
- Chlorobenzilate
- Diallate
- 2,4-D
- Dimethoate
- Dinoseb
- Disulfoton
- Famphur
- Kepone
- Methyl parathion
- Parathion
- Phorate
- Silvex *(2,4,5-TP)*
- Sulfotep
- Thionazin

M-8270-08

M-8270-08 — **$ 65 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 9 comps.

- 3,3'-Dimethyl benzidine
- 4-Nitroquinoline-1-oxide
- N-Nitrosodiethylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopyrrolidine
- 5-Nitro-*o*-toluidine
- *p*-Phenylenediamine
- *o*-Toluidine

M-8270-09

M-8270-09 — **$ 65 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 10 comps.

- 2-Acetyl aminofluorene
- *m*-Dinitrobenzene
- Hexachlorophene
- Hexachloropropene
- Isodrin
- Isosafrole
- Methapyrilene
- 1,4-Naphthoquinone
- Safrole
- 0,0,0-Triethyl phosphorothioate

Method 8270C/D (Continued) Auxiliary Standards

Internal Standard

Z-014J **$ 80 / 1 x 1 mL**
Z-014J-PAK *SAVE 37%* **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Surrogate Standards

M-8270-SS **$ 80 / 1 x 1 mL**
M-8270-SS-PAK *SAVE 20%* **$ 320 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 6 comps.

- 2-Fluorobiphenyl
- 2-Fluorophenol
- Nitrobenzene-d_5
- Phenol-d_5
- *p*-Terphenyl-d_{14}
- 2,4,6-Tribromophenol

M-8270-SS-R **$ 75 / 1 x 1 mL**
M-8270-SS-R-PAK *SAVE 20%* **$ 300 / 5 x 1 mL**
At stated conc. each in CH_2Cl_2: MeOH (4:1) 6 comps.

2-Fluorobiphenyl	(1.0 mg/mL)	Phenol-d_5	(2.0 mg/mL)
2-Fluorophenol	(2.0 mg/mL)	Terphenyl-d_{14}	(1.0 mg/mL)
Nitrobenzene-d_5	(1.0 mg/mL)	2,4,6-Tribromophenol	(2.0 mg/mL)

Base/Neutrals & Acids - Matrix Standard Spiking Solutions

CLP-007-SET **$ 35 / 2 x 1 mL**
CLP-007-SET-PAK *SAVE 20%* **$ 140 / 5 x (2 x 1 mL)**
(CLP-007A, CLP-007B)

Base/Neutrals

CLP-007A **$ 20 / 1 x 1 mL**
1.0 mg/mL each in MeOH 6 comps.

- Acenaphthene
- 1,4-Dichlorobenzene
- 2,4-Dinitrotoluene
- N-nitroso-di-*n*-propylamine
- Pyrene
- 1,2,4-Trichlorobenzene

Acids

CLP-007B **$ 20 / 1 x 1 mL**
2.0 mg/mL each in MeOH 5 comps.

- 2-Chlorophenol
- 4-Chloro-3-methylphenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol

GC/MS Tuning Standard

M-625-TS-20X **$ 40 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 4 comps.

- Benzidine
- p,p'-DDT
- DFTPP
- Pentachlorophenol

Calibration Check Compounds (CCC)

CLP-011-SET **$ 35 / set of 2 x 1 mL**
(CLP-011A, CLP-011B)

Base/Neutrals

CLP-011A **$ 20 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 7 comps.

- Acenaphthene
- Benzo[a]pyrene
- 1,4-Dichlorobenzene
- Di-*n*-octyl phthalate
- Hexachlorobutadiene
- Fluoranthene
- N-nitroso-diphenylamine

Acids

CLP-011B **$ 20 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 6 comps.

- 4-Chloro-3-methylphenol
- 2,4-Dichlorophenol
- 2-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,4,6-Trichlorophenol

System Performance Check Compounds (SPCC)

CLP-010 **$ 25 / 1 x 1 mL**
0.2 mg/mL each in CH_2Cl_2 4 comps.
CLP-010-10X **$ 25 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 4 comps.

- 2,4-Dinitrophenol
- Hexachlorocyclopentadiene
- 4-Nitrophenol
- N-nitroso-*di*-*n*-propylamine

Multi-Component Analytes
Polychlorinated Biphenyls, Chlordane & Toxaphene

Each at 1,000 µg/mL in Hexane

Aroclors #	Cat. No.	1 mL	AccuPAK™ (5 x 1 mL) SAVE 20% Cat. No.	PAK
Aroclor 1016	C-216S-H-10X	$ 20	C-216S-H-10X-PAK	$ 80
Aroclor 1221	C-221S-H-10X	20	C-221S-H-10X-PAK	80
Aroclor 1232	C-232S-H-10X	20	C-232S-H-10X-PAK	80
Aroclor 1242	C-242S-H-10X	20	C-242S-H-10X-PAK	80
Aroclor 1248	C-248S-H-10X	20	C-248S-H-10X-PAK	80
Aroclor 1254	C-254S-H-10X	20	C-254S-H-10X-PAK	80
Aroclor 1260	C-260S-H-10X	20	C-260S-H-10X-PAK	80
Aroclor 1262	C-262S-H-10X	20	C-262S-H-10X-PAK	80
Aroclor 1268	C-268S-H-10X	20	C-268S-H-10X-PAK	80
Pesticides				
Chlordane	P-017S-H-10X	$ 15	P-017S-H-10X-PAK	$ 80
Toxaphene	P-093S-H-10X	15	P-093S-H-10X-PAK	80

Method 8270C/D (Continued) Semi-Volatiles by Capillary Column GC/MS

These Method 8270C/D formulations are designed based on the association of the analyte to a specific internal standard. These formulations allow for easy preparation of the typical analytes in the calibration curve. In addition, instrument/method problems can be rapidly diagnosed by examining those specific analytes and the associated internal standard in the affected part of the analysis.

Save when ordering a complete set over individual solutions

Complete 8270 Method Mixture Set

M-8270-SET — **$ 505 / 7 x 1 mL (M-8270-01,M-8270-02,M-8270-03,M-8270-04A,M-8270-04B,M-8270-05,M-8270-06)**

M-8270-R-SET — **$ 480 / 7 x 1 mL (M-8270-01,M-8270-02,M-8270-03,M-8270-04A,M-8270-04B-R1,M-8270-05,M-8270-06)**

M-8270-01 — **$ 80 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 17 comps.

- Aniline
- Benzyl alcohol
- bis(2-Chloroethyl) ether
- bis(2-Chloro-1-methylethyl) ether
- 2-Chlorophenol
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- Ethylmethanesulfonate
- Hexachloroethane
- Methylmethanesulfonate
- 2-Methylphenol
- 4-Methylphenol
- N-Nitrosodimethylamine
- N-Nitrosodi-*n*-propylamine
- Phenol
- 2-Picoline

M-8270-02 — **$ 80 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 18 comps.

- Acetophenone
- Benzoic acid
- bis(2-Chloroethoxy)methane
- 4-Chloroaniline
- 4-Chloro-3-methylphenol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- α,α-Dimethylphenethylamine
- 2,4-Dimethylphenol
- Hexachlorobutadiene
- Isophorone
- 2-Methylnaphthalene
- Naphthalene
- Nitrobenzene
- 2-Nitrophenol
- N-Nitroso-di-*n*-butylamine
- N-Nitrosopiperidine
- 1,2,4-Trichlorobenzene

M-8270-03 — **$ 120 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 24 comps.

- Acenaphthene
- Acenaphthylene
- 1-Chloronaphthalene
- 2-Chloronaphthalene
- 4-Chlorophenyl phenyl ether
- Dibenzofuran
- Diethyl phthalate
- Dimethyl phthalate
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Fluorene
- Hexachlorocyclopentadiene
- 1-Naphthylamine
- 2-Naphthylamine
- 2-Nitroaniline
- 3-Nitroaniline
- 4-Nitroaniline
- 4-Nitrophenol
- Pentachlorobenzene
- 1,2,4,5-Tetrachlorobenzene
- 2,3,4,6-Tetrachlorophenol
- 2,4,6-Trichlorophenol
- 2,4,5-Trichlorophenol

M-8270-04A — **$ 45 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 9 comps.

- 4-Aminobiphenyl
- Anthracene
- 4-Bromophenyl phenyl ether
- Di-*n*-butyl phthalate
- 4,6-Dinitro-2-methylphenol
- Fluoranthene
- Hexachlorobenzene
- Pentachlorophenol
- Phenanthrene

M-8270-04B — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 6 comps.

- Diphenylamine
- 1,2-Diphenylhydrazine
- N-Nitrosodiphenylamine
- Pentachloronitrobenzene
- Phenacetin
- Pronamide

M-8270-05 — **$ 80 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 8 comps.

- Benzidine
- Benzo[a]anthracene
- bis(2-Ethylhexyl)phthalate
- Butylbenzylphthalate
- Chrysene
- 3,3'-Dichlorobenzidine
- *p*-Dimethylaminoazobenzene
- Pyrene

M-8270-06 — **$ 120 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 10 comps.

- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[a]pyrene
- Dibenz[a,j]acridine
- Dibenz[a,h]anthracene
- 7,12-Dimethylbenz[a]anthracene
- Di-*n*-octylphthalate
- Indeno[1,2,3-cd]pyrene
- 3-Methylcholanthrene

Technical Note

Under EPA recommended GC conditions (Method 8270) the analyte 1,2-Diphenylhydrazine is converted in varying degrees to Azobenzene and breakdown products. According to our study, the use of an injection port temperature range (240°C - 300°C) will cause the 1,2-Diphenylhydrazine to break down.

Substituting Azobenzene for 1,2-Diphenylhydrazine will allow analysis yielding a single peak regardless of the EPA recommended injection port temperature range used.

Alternate Formulation

M-8270-04B-R1 — **$ 35 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 6 comps.

- Azobenzene
- Diphenylamine
- N-Nitrosodiphenylamine
- Pentachloronitrobenzene
- Phenacetin
- Pronamide

M-8270-07 — **$ 160 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 15 comps.

- Aramite
- Chlorobenzilate
- Diallate
- 2,4-D
- Dimethoate
- Dinoseb
- Disulfoton
- Famphur
- Kepone
- Methyl parathion
- Parathion
- Phorate
- Silvex *(2,4,5-TP)*
- Sulfotep
- Thionazin

M-8270-08 — **$ 65 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 9 comps.

- 3,3'-Dimethyl benzidine
- 4-Nitroquinoline-1-oxide
- N-Nitrosodiethylamine
- N-Nitrosomethylethylamine
- N-Nitrosomorpholine
- N-Nitrosopyrrolidine
- 5-Nitro-*o*-toluidine
- *p*-Phenylenediamine
- *o*-Toluidine

M-8270-09 — **$ 65 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 10 comps.

- 2-Acetyl aminofluorene
- 1,3-Dinitrobenzene
- Hexachlorophene
- Hexachloropropene
- Isodrin
- Isosafrole
- Methapyrilene
- 1,4-Naphthoquinone
- Safrole
- O,O,O-Triethylphosphorothioate

Method 8270C/D (Continued) Appendix IX Semi-Volatiles Analyzed by Method 8270

M-8270-10 **$ 15 / 1 x 1 mL**
2.0 mg/mL in MeOH

sym-Trinitrobenzene

M-8270-10-R **$ 15 / 1 x 1 mL**
2.0 mg/mL each in MeOH 2 comps.

Pyridine
sym-Trinitrobenzene

Additions to Method 8270

M-8270-13-SET **$ 95 / 2 x 1 mL**
(M-8270-13A-R, M-8270-13B-R)

M-8270-13A-R **$ 85 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 12 comps.

4-Aminoazobenzene
3-Amino-9-ethylcarbazole
o-Anisidine
5-Chloro-2-methylaniline
p-Cresidine
2,4-Diaminotoluene
4,4'-Methylenebis(N,N-dimethylaniline)
4,4'-Methylene bis(2-chloroaniline)
4,4'-Oxydianiline
2-Picoline
Pyridine
2,4,5-Trimethylaniline

M-8270-13B-R **$ 25 / 1 x 1 mL**
2.0 mg/mL each in THF 3 comps.

2-Aminoanthraquinone
4-Chloro-1,2-phenylenediamine
4-Chloro-1,3-phenylenediamine

M-8270-14-SET **$ 95 / 3 x 1 mL**
(M-8270-14A, M-8270-14B, M-8270-14C)

M-8270-14A **$ 35 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 6 comps.

m-Cresol
o-Cresol
Resorcinol
Thiophenol
tris(2,3-Dibromopropyl)phosphate
Tri-*p*-tolyl phosphate

M-8270-14B **$ 35 / 1 x 1 mL**
2.0 mg/mL each in THF 5 comps.

p-Benzoquinone
Hydroquinone
Maleic anhydride
Phthalic anhydride
Trimethyl phosphate

M-8270-14C ❄ **$ 35 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:MeOH (3:1) 5 comps.

1-Acetyl-2-thiourea
Diethyl sulfate
Hexamethylphosphoramide
3-Picolyl chloride HCL
Toluene diisocyanate

M-8270-15 **$ 95 / 1 x 1 mL**
1.0 mg/mL each in CH_2Cl_2:MeOH (19:1) 13 comps.

Dibenzo[a,e]pyrene
1,2-Dibromo-3-chloropropane
Diethyl stilbestrol
1,2-Dinitrobenzene
1,4-Dinitrobenzene
5,5-Diphenylhydantoin
Mestranol
Nicotine
5-Nitroacenapthene
5-Nitro-*o*-anisidine
4-Nitrobiphenyl
Propylthiouracil
Strychnine

Alternate Source Line
For complete listing of competitive 8270 see the QC Section

Pesticides

M-8270-16 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 10 comps.

Anilazine
Azinphos methyl
Barbamate
Demeton (mixed isomers)
Dichlone
Dioxathion
Mirex
Sulfoxide
Sulfallate
Trifluralin

M-8270-17 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 7 comps.

Brominal
Captafol
Captan
Dinex
Dinocap
Fluchloralin
Nitrofen

Carbamates/Pesticides

M-8270-18 **$ 75 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 6 comps.

Carbaryl
Carbofuran
Ethyl carbamate
Mexacarbate
Schradan (Octamethylpyrophosphoramide)
Phenobarbital

Pesticides

M-8270-19 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 12 comps.

Carbophenothion
Coumaphos
EPN
Ethion
Fensulfothion
Fenthion
Leptophos
Malathion
Phosalone
Imidan (Phosmet)
Terbufos
Tetrachlorvinphos

M-8270-20 **$ 50 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 9 comps.

Chlorfenvinphos
Ciodrin (Crotoxyphos)
Dichlorvos
Dicrotophos
Mevinphos
Monocrotophos
Naled
Phosphamidon
TEPP (Tetraethyl pyrophosphate)

Azo Dye

RAC-12-10X **$ 35 / 1 x 1 mL**
1.0 mg/mL in CH_2Cl_2

3,3'-Dimethoxylbenzidine

Pesticide Mix

Z-014C-R **$ 95 / 1 x 1 mL**
Z-014C-R-PAK ***SAVE 20%*** **$ 380 / 5 x 1 mL**
2.0 mg/mL each in Toluene : Hexane (1:1) 20 comps.

Aldrin
α-BHC
β-BHC
γ-BHC
δ-BHC
α-Chlordane
γ-Chlordane
4,4'-DDD
4,4'-DDE
4,4'-DDT
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
Heptachlor
Heptachlor epoxide
Methoxychlor

❄ A ColdPAK is required.

EPA Method 8000 Series
Ready-to-Inject Working Level Semi-Volatile Standards

Method 8270C/D 5 point Semi-Volatile Calibration Curve

AccuStandard provides a 5 point semi-volatile calibration curve in 2 formats. One calibration curve already incorporates the internal standards in each level of the curve. To begin analysis, the chemist just cracks the ampule open and transfers the content to the autosampler vial. The second semi-volatile curve does not contain the internal standard.

The analytical chemist will need to add 10 µL of internal standard to each level of the curve and the environmental samples as the vials are placed on the GC/MS. We offer both types of curves to meet your laboratory's preference regarding the addition of internal standards.

Target Analytes *(Semi-Volatiles)*

Acenaphthene
Acenaphthylene
Aniline
Anthracene
Azobenzene
Benz[a]anthracene
Benzidine
Benzo[b]fluoranthene
Benzo[k]fluoranthene
Benzoic acid
Benzo[g,h,i]perylene
Benzo[a]pyrene
Benzyl alcohol
4-Bromophenyl phenyl ether
Butyl benzyl phthalate
Carbazole
4-Chloroaniline
bis(2-Chloroethoxy)methane
bis(2-Chloroethyl) ether
bis(2-Chloro-1-methylethyl) ether
4-Chloro-3-methylphenol
2-Chloronaphthalene
2-Chlorophenol
4-Chlorophenyl phenyl ether
Chrysene
o-Cresol
p-Cresol
Dibenz[a,h]anthracene
Dibenzofuran
Di-*n*-butyl phthalate
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3'-Dichlorobenzidine
2,4-Dichlorophenol
Diethyl phthalate
2,4-Dimethylphenol
Dimethyl phthalate
4,6-Dinitro-2-methylphenol
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Di-*n*-octyl phthalate
bis(2-Ethylhexyl)phthalate
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Indeno[1,2,3-cd]pyrene
Isophorone
2-Methylnaphthalene
Naphthalene
2-Nitroaniline
3-Nitroaniline
4-Nitroaniline
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosodi-*n*-propylamine
Pentachlorophenol
Phenanthrene
Phenol
Pyrene
Pyridine
1,2,4-Trichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol

Surrogates Analytes

2-Fluorobiphenyl
2-Fluorophenol
Nitrobenzene-d_5
Phenol-d_5
p-Terphenyl-d_{14}
2,4,6-Tribromophenol

Technical Note

AccuStandard has prepared both Semi-Volatile curves from special high concentration stocks. The useful shelf life for these 5 point curves is similar to the shelf life experienced at the environmental laboratory when the standard is prepared from previously used high concentrate stocks.

Internal Standard Analytes

Acenaphthene-d_{10}
Chrysene-d_{12}
1,4-Dichlorobenzene-d_4
Naphthalene-d_8
Perylene-d_{12}
Phenanthrene-d_{10}

Working Level Semi-Volatiles Curve
With Internal Standards

M-8270-CAL-IS-SET — **$ 275 / 5 x 1 mL**
All solutions in CH_2Cl_2 — 83 comps.

Components *(units in µg/mL)*	Level 1	Level 2 *(2.5X)*	Level 3 *(4X)*	Level 4 *(6X)*	Level 5 *(8X)*
Target Analytes	20	50	80	120	160
Surrogate Analytes	20	50	80	120	160
Internal Analytes	40	40	40	40	40

Level 2 *Daily QC Working Level*
CCC (with Internal Standard)

M-8270-IS-WL-2.5X-5ML — **$ 275 / 1 x 5 mL**
M-8270-IS-WL-2.5X-10ML — **$ 425 / 1 x 10 mL**
At stated conc. in CH_2Cl_2

Working Level Semi-Volatiles Curve
Without Internal Standards

M-8270-CAL-SET — **$ 250 / 5 x 1 mL**
All solutions in CH_2Cl_2 — 77 comps.

Components *(units in µg/mL)*	Level 1	Level 2 *(2.5X)*	Level 3 *(4X)*	Level 4 *(6X)*	Level 5 *(8X)*
Target Analytes	20	50	80	120	160
Surrogate Analytes	20	50	80	120	160

Level 2 *Daily QC Working Level*
CCC (without Internal Standard)

M-8270-WL-2.5X-5ML — **$ 250 / 1 x 5 mL**
M-8270-WL-2.5X-10ML — **$ 400 / 1 x 10 mL**
At stated conc. in CH_2Cl_2

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001



Method 8270C/D (Continued)

Matrix Spike *(SW 846)*

CLP-007-WL-50ML — **$ 115 / 1 x 50 mL**
At stated conc. in MeOH — 11 comps.

4-Chloro-3-methyl phenol	(200 µg/mL)	1,4-Dichlorobenzene	(100 µg/mL)
2-Chlorophenol	(200 µg/mL)	2,4-Dinitrotoluene	(100 µg/mL)
4-Nitrophenol	(200 µg/mL)	N-Nitrosodi-*n*-propylamine	(100 µg/mL)
Pentachlorophenol	(200 µg/mL)	Pyrene	(100 µg/mL)
Phenol	(200 µg/mL)	1,2,4-Trichlorobenzene	(100 µg/mL)
Acenaphthene	(100 µg/mL)		

Prep Note

To help maximize instrument performance, add 10 µL of internal standard to a 1 mL sample extract.

Internal Standard

Z-014J — **$ 80 / 1 x 1 mL**
Z-014J-PAK — ***SAVE 37%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 — 6 comps.

Acenaphthene-d_{10}	Naphthalene-d_8
Chrysene-d_{12}	Perylene-d_{12}
1,4-Dichlorobenzene-d_4	Phenanthrene-d_{10}

Benzidine Solution

M-625C-1-40X — **$ 20 / 1 x 1 mL**
2.0 mg/mL in CH_2Cl_2

Benzidine

GC/MS Tuning Solution

M-625-TS — **$ 40 / 1 x 1 mL**
M-625-TS-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
50 µg/mL each in CH_2Cl_2 — 4 comps.

Benzidine	DFTPP
p,p'-DDT	Pentachlorophenol

DFTPP GC/MS Tuning Solution

M-625C-3 — **$ 20 / 1 x 1 mL**
M-625C-3-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
25 µg/mL in CH_2Cl_2

Decafluorotriphenylphosphine *(DFTPP)*

Technical Note

AccuStandard has found that benzidine degrades in multi-component semi-volatile solutions. For this reason, the benzidine in any calibration curve should be used as a qualitative retention time marker. Reported hits for benzidine should be quantitatively determined by analyzing a single benzidine solution or by using the benzidine response observed in the Daily GC/MS tuning solution.

Matrix Spike *(3/90 SOW)*

CLP-007R-WL-50ML — **$ 115 / 1 x 50 mL**
At stated conc. in MeOH — 11 comps.

4-Chloro-3-methyl phenol	(150 µg/mL)	1,4-Dichlorobenzene	(100 µg/mL)
2-Chlorophenol	(150 µg/mL)	2,4-Dinitrotoluene	(100 µg/mL)
4-Nitrophenol	(150 µg/mL)	N-Nitrosodi-*n*-propylamine	(100 µg/mL)
Pentachlorophenol	(150 µg/mL)	Pyrene	(100 µg/mL)
Phenol	(150 µg/mL)	1,2,4-Trichlorobenzene	(100 µg/mL)
Acenaphthene	(100 µg/mL)		

Method 8270 Surrogate Spiking Solutions

M-8270-SS-R-WL-PAK — **$ 190 / 5 x 10 mL**
M-8270-SS-R-WL-VAP — **$ 300 / 10 x 10 mL**
At stated conc. in CH_2Cl_2: MeOH (4:1) — 6 comps.

2-Fluorobiphenyl	(100 µg/mL)	Phenol-d_5	(200 µg/mL)
2-Fluorophenol	(200 µg/mL)	Terphenyl-d_{14}	(100 µg/mL)
Nitrobenzene-d_5	(100 µg/mL)	2,4,6-Tribromophenol	(200 µg/mL)

M-8270-SS-R — **$ 75 / 1 x 1 mL**
M-8270-SS-R-PAK — ***SAVE 20%*** **$ 300 / 5 x 1 mL**
At stated conc. in CH_2Cl_2: MeOH (4:1) — 6 comps.

2-Fluorobiphenyl	(1000 µg/mL)	Phenol-d_5	(2000 µg/mL)
2-Fluorophenol	(2000 µg/mL)	Terphenyl-d_{14}	(1000 µg/mL)
Nitrobenzene-d_5	(1000 µg/mL)	2,4,6-Tribromophenol	(2000 µg/mL)

Prep Note

To ensure extraction efficiency add, 1 mL of Surrogate to the sample.

CLP Surrogate Spiking Solution

CLP-031-R-WL-25ML — **$ 110 / 1 x 25 mL**
CLP-031-R-WL-50ML — **$ 190 / 1 x 50 mL**
At stated conc. in MeOH — 8 comps.

2-Chlorophenol-d_4	(150 µg/mL)	Nitrobenzene-d_5	(100 µg/mL)
1,2-Dichlorobenzene-d_4	(100 µg/mL)	Phenol-d_6	(150 µg/mL)
2-Fluorobiphenyl	(100 µg/mL)	*p*-Terphenyl-d_{14}	(100 µg/mL)
2-Fluorophenol	(150 µg/mL)	2,4,6-Tribromophenol	(150 µg/mL)

Alternate Source Line
For complete listing of competitive 8270 see the QC Section

Methdod 8272 PAHs (GC/MS)

M-8272 — NEW — **$ 45 / 1 x 1 mL**
At stated conc. in Dichloromethane — 12 comps.

Naphthalene	42	Anthracene	0.6
1-Methylnaphthalene	24	Phenanthrene	5.5
2-Methylnaphthalene	20	Fluoranthene	2.1
Acenaphthylene	9	Pyrene	1.8
Acenaphthene	11	Benz(a)anthracene	0.08
Fluorene	7.6	Chrysene	0.03

Internal Standard - Deuterated Analogs

M-8272-IS — **$ 200 / 1 x 1 mL**
At stated conc. in Acetone — 8 comps.

Naphthalene-d_8	5	Phenanthrene-d_{10}	0.96
1-Methylnaphthalene-d_{10}	6	Fluranthene-d_{10}	0.93
Acenaphthene-d_{10}	1.2	Perylene-d_{12}	0.84
Fluorene-d_{10}	1.2	Chrysene-d_{12}	0.033

Method 8275A (Thermal Extraction/GC/FID/MS) Semi-Volatiles by Thermal Chromatography

Semi-Volatiles

M-8275 — **$ 60 / 1 x 1 mL**
1.0 mg/mL each in Acetone — 17 comps.

- Aldrin
- Benzo[k]fluoranthene
- Benzo[a]pyrene
- Carbazole
- 4-Chloro-3-methylphenol
- 1-Chloronaphthalene
- 2-Chlorophenol
- Dibenzothiophene
- 2,4-Dichlorophenol
- 2,4-Dinitrotoluene
- Diphenylamine
- Fluorene
- Hexachlorobenzene
- 4-Methylphenol
- Naphthalene
- Phenanthrene
- Pyrene

Internal Standard

Z-014J — **$ 80 / 1 x 1 mL**
Z-014J-PAK — ***SAVE 37%*** **$ 250 / 5 x 1 mL**
4.0 mg/mL each in CH_2Cl_2 — 6 comps.

- Acenaphthene-d_{10}
- Chrysene-d_{12}
- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Perylene-d_{12}
- Phenanthrene-d_{10}

Buy AccuPAKs™
Save 20-40% 5 x 1 mL



Method 8280A Dioxins & Furans by HRGC/LRMS

Dioxin Mixture

M-8280A — **$ 150 / 1 x 1 mL**
M-8280A-PAK — ***SAVE 20%*** **$ 600 / 5 x 1 mL**
5 µg/mL each in Toluene — 5 comps.

- 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin
- 1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
- 1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
- Octachlorodibenzo-*p*-dioxin

Furan Mixture

M-8280B — **$ 150 / 1 x 1 mL**
M-8280B-PAK — ***SAVE 20%*** **$ 600 / 5 x 1 mL**
5 µg/mL each in Toluene — 5 comps.

- 2,3,7,8-Tetrachlorodibenzofuran
- 1,2,3,7,8-Pentachlorodibenzofuran
- 1,2,3,4,7,8-Hexachlorodibenzofuran
- 1,2,3,4,6,7,8-Heptachlorodibenzofuran
- Octachlorodibenzofuran

Column Performance Check

M-8280-CPC — **$ 200 / 1 x 1 mL**
5 µg/mL each in Toluene — 7 comps.

- 1,2,3,4-Tetrachlorodibenzo-*p*-dioxin
- 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin
- 1,2,3,4,7-Pentachlorodibenzo-*p*-dioxin
- 1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8,9-Octachlorodibenzo-*p*-dioxin
- 2,3,7,8-Tetrachlorodibenzofuran

Canadian Environmental Method Multi-Component Dioxin Mixtures

Custom Window Defining Mixture

D-WD	20,000 ng/mL in Toluene	**$ 1,100 / 1 x 1 mL**
D-WD-2.5X	50,000 ng/mL in Toluene	**$ 2,000 / 1 x 1 mL**

7 comps.

- 1,2,4,6,8/1,2,4,7,9-Pentachlorodibenzo-*p*-dioxin (Isomer pair)
- 1,2,3,8,9-Pentachlorodibenzo-*p*-dioxin
- 1,2,4,6,7,9/1,2,4,6,8,9-Hexachlorodibenzo-*p*-dioxin (Isomer pair)
- 1,2,3,4,6,7-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,9-Heptachlorodibenzo-*p*-dioxin
- Octachlorodibenzo-*p*-dioxin

Formulations at Highest Concentration for Economical Prices

Custom Calibration Mixture

D-CAL	20,000 ng/mL in Toluene	**$ 900 / 1 x 1 mL**
D-CAL-2.5X	50,000 ng/mL in Toluene	**$ 1,600 / 1 x 1 mL**

6 comps.

- 1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
- 1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
- Octachlorodibenzo-*p*-dioxin

Column Performance Check

M-8280-CPC — **$ 200 / 1 x 1 mL**
5.0 µg/mL each in Toluene — 7 comps.

- 1,2,3,4-Tetrachlorodibenzo-*p*-dioxin
- 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin
- 1,2,3,4,7-Pentachlorodibenzo-*p*-dioxin
- 1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
- 1,2,3,4,6,7,8,9-Octachlorodibenzo-*p*-dioxin
- 2,3,7,8-Tetrachlorodibenzofuran

Standards of Interest

For more Canadian Methods see the Regional Section of this catalog

Method 8310 PAHs by HPLC

PAH Mixture

M-8310 **$ 75 / 1 x 1 mL**
M-8310-PAK ***SAVE 20%*** **$ 300 / 5 x 1 mL**
0.5 mg/mL each in AcCN 16 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

PAH Quality Control Calibration Mixture

M-610-QC **$ 35 / 1 x 1 mL**
At stated conc. in AcCN 16 comps.

Acenaphthene	(0.1 mg/mL)	Chrysene	(0.01 mg/mL)
Acenaphthylene	(0.1 mg/mL)	Dibenz[a,h]anthracene	(0.01 mg/mL)
Anthracene	(0.1 mg/mL)	Fluoranthene	(0.01 mg/mL)
Benzo[a]anthracene	(0.01 mg/mL)	Fluorene	(0.1 mg/mL)
Benzo[a]pyrene	(0.01 mg/mL)	Indeno[1,2,3-cd]pyrene	(0.01 mg/mL)
Benzo[b]fluoranthene	(0.01 mg/mL)	Naphthalene	(0.1 mg/mL)
Benzo[g,h,i]perylene	(0.01 mg/mL)	Phenanthrene	(0.1 mg/mL)
Benzo[k]fluoranthene	(0.005 mg/mL)	Pyrene	(0.01 mg/mL)

Surrogate Standard

M-8310-SS **$ 10 / 1 x 1 mL**
M-8310-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
0.1 mg/mL in Acetonitrile

- Decafluorobiphenyl

Internal Standard Post Supercritical Fluid Extraction

M-8310-SFE-IS-100X **$ 10 / 1 x 1 mL**
M-8310-SFE-IS-100X-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
20,000 µg/mL in AcCN:THF (1:1)

- Biphenyl

Florida Method PAH Mixture

Z-014G-FL **$ 85 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:Benzene 18 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene
- 1-Methylnaphthalene
- 2-Methylnaphthalene

Florida Administrative Code (continued) PAHs by HPLC

Performance Check Solution

M-610-QC-FL **$ 35 / 1 x 1 mL**
M-610-QC-FL-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
At stated conc. in AcCN 18 comps.

Acenaphthene	(0.1 mg/mL)	Dibenz[a,h]anthracene	(0.01 mg/mL)
Acenaphthylene	(0.1 mg/mL)	Fluoranthene	(0.01 mg/mL)
Anthracene	(0.1 mg/mL)	Fluorene	(0.1 mg/mL)
Benz[a]anthracene	(0.01 mg/mL)	Indeno[1,2,3-cd]pyrene	(0.01 mg/mL)
Benzo[a]pyrene	(0.01 mg/mL)	1-Methyl naphthalene	(0.1 mg/mL)
Benzo[b]fluoranthene	(0.01 mg/mL)	2-Methyl naphthalene	(0.1 mg/mL)
Benzo[g,h,i]perylene	(0.01 mg/mL)	Naphthalene	(0.1 mg/mL)
Benzo[k]fluoranthene	(0.005 mg/mL)	Phenanthrene	(0.1 mg/mL)
Chrysene	(0.01 mg/mL)	Pyrene	(0.01 mg/mL)

Matrix Spiking Solution

M-610-MS **$ 30 / 1 x 1 mL**
M-610-MS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in AcCN 6 comps.

Benz[a]pyrene	(0.5 mg/mL)	2-Methylnaphthalene	(5.0 mg/mL)
Chrysene	(0.5 mg/mL)	Phenanthrene	(0.5 mg/mL)
1-Methylnaphthalene	(5.0 mg/mL)	Pyrene	(0.5 mg/mL)

PAH Mix Additions

H-001S/002S-M-20X **$ 30 / 1 x 1 mL**
1.0 mg/mL each in MeOH 2 comps.

- 1-Methyl naphthalene
- 2-Methyl naphthalene

Polynuclear Aromatic Hydrocarbons (HPLC)

M-8310-FL **$ 50 / 1 x 1 mL**
M-8310-FL-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
0.5 mg/mL each in AcCN 18 comps.
M-8310-FL-SET **$ 360 / 18 x 1 mL**

Acenaphthene	M-8310-FL-01	$ 20
Acenaphthylene	M-8310-FL-02	20
Anthracene	M-8310-FL-03	20
Benz[a]anthracene	M-8310-FL-04	25
Benzo[a]pyrene	M-8310-FL-05	25
Benzo[b]fluoranthene	M-8310-FL-06	30
Benzo[g,h,i]perylene	M-8310-FL-07	30
Benzo[k]fluoranthene	M-8310-FL-08	30
Chrysene	M-8310-FL-09	25
Dibenz[a,h]anthracene	M-8310-FL-10	20
Fluoranthene	M-8310-FL-11	20
Fluorene	M-8310-FL-12	20
Indeno[1,2,3-cd]pyrene	M-8310-FL-13	35
1-Methylnaphthalene	M-8310-FL-14	20
2-Methylnaphthalene	M-8310-FL-15	20
Naphthalene	M-8310-FL-16	20
Phenanthrene	M-8310-FL-17	20
Pyrene	M-8310-FL-18	20

Polynuclear Aromatic Hydrocarbons (HPLC)

M-8310-QC-ATI **$ 55 / 1 x 1 mL**
M-8310-QC-ATI-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
At stated conc. in AcCN 18 comps.

Acenaphthene	(1000 µg/mL)	Dibenz[a,h]anthracene	(200 µg/mL)
Acenaphthylene	(2000 µg/mL)	Fluoranthene	(200 µg/mL)
Anthracene	(100 µg/mL)	Fluorene	(200 µg/mL)
Benz[a]anthracene	(100 µg/mL)	Indeno[1,2,3-cd]pyrene	(100 µg/mL)
Benzo[a]pyrene	(100 µg/mL)	1-Methylnaphthalene	(1000 µg/mL)
Benzo[b]fluoranthene	(200 µg/mL)	2-Methylnaphthalene	(1000 µg/mL)
Benzo[g,h,i]perylene	(200 µg/mL)	Naphthalene	(1000 µg/mL)
Benzo[k]fluoranthene	(100 µg/mL)	Phenanthrene	(100 µg/mL)
Chrysene	(100 µg/mL)	Pyrene	(100 µg/mL)

Method 8315/8315A Ketones/Aldehydes by HPLC

Aldehyde Mixture

M-8315 — **$ 20 / 1 x 1 mL**
M-8315-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1.0 mg/mL each in H_2O — 2 comps.

- Acetaldehyde
- Formaldehyde

Aldehyde Individuals

Acetaldehyde *(1.0 mg/mL in H_2O)*	**M-8315-01**	**$ 20 / .1 x 1 mL**
Formaldehyde *(1.0 mg/mL in H_2O)*	**M-8315-02**	**$ 20 / 1 x 1 mL**

Aldehyde as DNPH Derivatives

M-8315-DNPH-10ML — **$ 30 / 1 x 10 mL**
1.0 mg/mL each in MeOH — 2 comps. as DNPH derivatives

- Acetaldehyde
- Formaldehyde

Option 1

(Samples Collected from Water, Air, Soil, Waste or Stacks by Method 0011)

Carbonyl Mixture

M-8315-R1 — **$ 65 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 12 comps.

- Acetaldehyde
- Butanal *(Butyraldehyde)*
- Crotonaldehyde
- Cyclohexanone
- Decanal
- Formaldehyde
- Heptanal
- Hexanal *(Hexaldehyde)*
- Nonanal
- Octanal
- Pentanal *(Valeraldehyde)*
- Propanal *(Propionaldehyde)*

Carbonyl DNPH Derivative Mixture

M-8315-R1-DNPH — **$ 90 / 1 x 1 mL**
0.1 mg/mL each in AcCN — 12 comps. as DNPH derivatives

- Acetaldehyde
- Butanal *(Butyraldehyde)*
- Crotonaldehyde
- Cyclohexanone
- Decanal
- Formaldehyde
- Heptanal
- Hexanal *(Hexaldehyde)*
- Nonanal
- Octanal
- Pentanal *(Valeraldehyde)*
- Propanal *(Propionaldehyde)*

Option 2

(Samples Collected from Indoor Air by Method 0100)

Carbonyl Mixture

M-8315-R2 — **$ 75 / 1 x 1 mL**
1.0 mg/mL each in AcCN — 15 comps.

- Acetaldehyde
- Acetone
- Acrolein
- Benzaldehyde
- Butanal *(Butyraldehyde)*
- Crotonaldehyde
- 2,5-Dimethylbenzaldehyde
- Formaldehyde
- Hexanal *(Hexaldehyde)*
- Isovaleraldehyde
- Pentanal *(Valeraldehyde)*
- Propanal *(Propionaldehyde)*
- *m*-Tolualdehyde
- *o*-Tolualdehyde
- *p*-Tolualdehyde

Carbonyl DNPH Derivative Mixture

M-8315-R2-DNPH — **$ 120 / 1 x 1 mL**
0.1 mg/mL each in AcCN — 15 comps. as DNPH derivatives

- Acetaldehyde
- Acetone
- Acrolein
- Benzaldehyde
- Butanal *(Butyraldehyde)*
- Crotonaldehyde
- 2,5-Dimethylbenzaldehyde
- Formaldehyde
- Hexanal *(Hexaldehyde)*
- Isovaleraldehyde
- Pentanal *(Valeraldehyde)*
- Propanal *(Propionaldehyde)*
- *m*-Tolualdehyde
- *o*-Tolualdehyde
- *p*-Tolualdehyde

Carbonyl Compound Set

M-8315-R3-10X-SET — **$ 200 / 20 x 1 mL**
Each at 1.0 mg/mL in AcCN

- Acetaldehyde (01)
- Acetone (02)
- Acrolein (03)
- Benzaldehyde (04)
- Butanal (05)
- Crotonaldehyde (06)
- Cyclohexanone (07)
- Decanal (08)
- 2,5-Dimethylbenzaldehyde (09)
- Formaldehyde (10)
- Heptanal (11)
- Hexanal (12)
- Isovaleraldehyde (13)
- Nonanal (14)
- Octanal (15)
- Pentanal (16)
- Propanal (17)
- *m*-Tolualdehyde (18)
- *o*-Tolualdehyde (19)
- *p*-Tolualdehyde (20)

Carbonyl DNPH Derivative Set

M-8315-R-DNPH-SET — **$ 250 / 20 x 1 mL**
Each at 0.1 mg/mL in AcCN — 20 comps. as DNPH Derivatives

- Acetaldehyde (01)
- Acetone (02)
- Acrolein (03)
- Benzaldehyde (04)
- Butanal *(Butyraldehyde)* (05)
- Crotonaldehyde (06)
- Cyclohexanone (07)
- Decanal (08)
- 2,5-Dimethylbenzaldehyde (09)
- Formaldehyde (10)
- Heptanal (11)
- Hexanal *(Hexaldehyde)* (12)
- Isovaleraldehyde (13)
- Nonanal (14)
- Octanal (15)
- Pentanal *(Valeraldehyde)* (16)
- Propanal *(Propionaldehyde)* (17)
- *m*-Tolualdehyde (18)
- *o*-Tolualdehyde (19)
- *p*-Tolualdehyde (20)

Technical Note

For initial Method 8315 development, AccuStandard offers individual analyte sets (20 x 1 mL) for both the Carbonyl compounds and their corresponding DNPH derivatives. Use of these sets will allow the analytical chemist to rapidly establish individual analyte retention times and to troubleshoot possible extraction recovery problems.

Method 8316 Acrolein, Acrylamide, Acrylonitrile by HPLC

M-8316 ❄ — **$ 20 / 1 x 1 mL**
1.0 mg/mL each in Water — 3 comps.

- Acrolein
- Acrylamide
- Acrylonitrile

❄ A ColdPAK is required.

Method 8318 N-Methylcarbamates by HPLC

N-Methylcarbamates

M-8318-SET — **$ 140 / 10 x 1 mL**
Each at 0.1 mg/mL in MeOH
M-8318M — **$ 60 / 1 x 1 mL**
Mixture, 0.1 mg/mL each in MeOH — 10 comps.

- Aldicarb (01)
- Aldicarb sulfone (02)
- Carbaryl (03)
- Carbofuran (04)
- Dioxacarb (05)
- 3-Hydroxycarbofuran (06)
- Methiocarb (07)
- Methomyl (08)
- Promecarb (09)
- Propoxur (10)

Method 8321 Non-Volatile Compounds by HPLC/TSP/MS or UV Solvent Extractable

Chlorinated Phenoxyacid Herbicide Mix

M-8321-HERB **$ 75 / 1 x 1 mL**
0.1 mg/mL each in AcCN 14 comps.

Dalapon	Dinoseb
Dicamba	MCPA
2,4-D	MCPP
2,4-D, butoxyethanol ester	Silvex *(2,4,5-TP)*
2,4-D, ethylhexyl ester	2,4,5-T
2,4-DB	2,4,5-T, butyl ester
Dichlorprop	2,4,5-T, butoxyethanol ester

Organophosphorus Pesticide Mix

M-8321-OP **$ 75 / 1 x 1 mL**
0.1 mg/mL each in AcCN 15 comps.

Asulam	Methyl parathion
Dichlorvos	Monocrotophos
Dimethoate	Naled
Disulfoton	Phorate
Famphur	Thiofanox
Fensulfothion	Trichlorfon
Merphos	Tris(2,3-Dibromopropyl)phosphate
Methomyl	

Method 8325 Benzidines & Nitrogen containing Pesticides by L-L or L-S Extraction & RP HPLC/Particle Beam/MS

Benzidine/Pesticide Mix

M-553 ❄ **$ 95 / 1 x 1 mL**
At stated conc. in AcCN : MeOH (1:1) 13 comps.

Benzidine	(250 µg/mL)	3,3'-Dimethylbenzidine	(350 µg/mL)
Benzoylprop ethyl	(350 µg/mL)	Diuron	(450 µg/mL)
Caffeine	(300 µg/mL)	Linuron	(1,300 µg/mL)
Carbaryl	(1,000 µg/mL)	Monuron	(400 µg/mL)
o-Chlorophenyl thiourea	(750 µg/mL)	Rotenone	(3,200 µg/mL)
3,3'-Dichlorobenzidine	(250 µg/mL)	Siduron	(450 µg/mL)
3,3'-Dimethoxybenzidine	(750 µg/mL)		

Performance Check Solution

M-553-PC **$ 20 / 1 x 1 mL**
0.1 mg/mL in AcCN

DFTPPO *(Decafluorotriphenylphosphine oxide)*

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a "Cold Pack"

Method 8323 Organometallic Tin Analysis by Electrospray Ion Trap Mass Spectrometry

The following Organo-tin standards were originally formulated to meet custom applications for a number of our customers. AccuStandard has introduced the below set of standards as regular catalog items to meet the increased requests for Organo-tin standards. The environmental interest in these compounds stems from their addition to the list of endocrine disrupters. Organo-tin compounds such as Tributyl-tin were used as marine antifouling agents and Triphenyl-tin as a crop pesticide.

Organometallic Butyltin Chloride Standard

OMT-001 **$ 40 / 1 x 1 mL**
OMT-001-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 4 comps.

Butyltin trichloride	Tetrabutyltin
Dibutyltin dichloride	Tributyltin chloride

Organometallic Phenyltin Chloride Standard

OMT-002 **$ 40 / 1 x 1 mL**
OMT-002-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 4 comps.

Diphenyltin dichloride	Tetraphenyltin
Phenyltin trichloride	Triphenyltin chloride

Tri-*n*-propyltin Surrogate Standard

OMT-003 **$ 30 / 1 x 1 mL**
OMT-003-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2000 µg/mL in CH_2Cl_2

Tri-*n*-propyltin chloride

Tripentyltin Chloride Surrogate Standard

OMT-004 **$ 30 / 1 x 1 mL**
OMT-004-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2000 µg/mL in CH_2Cl_2

Tripentyltin chloride

Tetra-*n*-propyl tin Internal Standard

OMT-005 **$ 40 / 1 x 1 mL**
OMT-005-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2000 µg/mL in CH_2Cl_2

Tetra-*n*-propyl tin

Tetrapentyltin Internal Standard

OMT-006 **$ 30 / 1 x 1 mL**
OMT-006-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2000 µg/mL in CH_2Cl_2

Tetrapentyltin



Over 40,000 Standards, just a click away

(Over 10,000 Listed and over 30,000 formulated custom standards)

AccuStandard.com

EPA Method 8000 Series
Explosives

Method 8330 TNT Metabolites

Analyte	Concentration (µg/mL)	Solvent	Cat. No.	Price (1 mL)
2-Amino-4,6-dinitrotoluene	100	AcCN : MeOH (1:1)	M-8330-13-0.1X	$ 20
4-Amino-2,6-dinitrotoluene	100	AcCN : MeOH (1:1)	M-8330-14-0.1X	20
2,4-Diamino-6-nitrotoluene	100	AcCN	M-8330-ADD-12	40
2,6-Diamino-4-nitrotoluene	100	AcCN	M-8330-ADD-13	40
1,3-Dinitrobenzene	100	AcCN : MeOH (1:1)	M-8330-01-0.1X	20
2,4-Dinitrotoluene	100	AcCN : MeOH (1:1)	M-8330-02-0.1X	20
2,6-Dinitrotoluene	100	AcCN : MeOH (1:1)	M-8330-03-0.1X	20
3,5-Dinitrotoluene	100	AcCN : MeOH (1:1)	M-8330-ADD-39	75
Hexanitrostilbene (HNS)	100	AcCN	M-8330-ADD-26	60
2-Hydroxylamino-4,6-dinitrotoluene ★	100	AcCN	M-8330-ADD-18 ❄	115
4-Hydroxylamino-2,6-dinitrotoluene ★	100	AcCN	M-8330-ADD-20 ❄	115
Nitrobenzene	100	AcCN : MeOH (1:1)	M-8330-06-0.1X	20
2-Nitrotoluene	100	AcCN : MeOH (1:1)	M-8330-07-0.1X	15
3-Nitrotoluene	100	AcCN : MeOH (1:1)	M-8330-08-0.1X	15
4-Nitrotoluene	100	AcCN : MeOH (1:1)	M-8330-09-0.1X	15
2,2',6,6'-Tetranitro-4,4'-azoxytoluene	100	AcCN : MeOH (1:1)	M-8330-ADD-15	75
2,2',6,6'-Tetranitro-4,4'-azotoluene	100	AcCN	M-8330-ADD-17	100
4,4',6,6'-Tetranitro-2,2'-azotoluene	100	AcCN	M-8330-ADD-19	100
TNT	100	AcCN : MeOH (1:1)	M-8330-11-0.1X	20
1,3,5-Trinitrobenzene	100	AcCN : MeOH (1:1)	M-8330-12-0.1X	20

★ 3 month stability

Explosives by HPLC Set

M-8330-R-SET ❄ **$ 175 / 14 x 1 mL**
Each at 100 µg/mL in AcCN : MeOH (1:1)
M-8330-R-10X-SET ❄ **$ 210 / 14 x 1 mL**
Each at 1000 µg/mL in AcCN : MeOH (1:1)

1,3-Dinitrobenzene (01)
2,4-Dinitrotoluene (02)
2,6-Dinitrotoluene (03)
HMX (04)
RDX (05)
Nitrobenzene (06)
2-Nitrotoluene (07)
3-Nitrotoluene (08)
4-Nitrotoluene (09)
Tetryl (10)
TNT (11)
1,3,5-Trinitrobenzene (12)
2-Amino-4,6-dinitrotoluene (13)
4-Amino-2,6-dinitrotoluene (14)

Method 8330 Additional Explosives by HPLC

Analyte	Concentration (µg/mL)	Solvent	Cat. No.	Price (1 mL)
Ammonium picrate	100	AcCN	M-8330-ADD-27	$ 25
DEGDN	100	AcCN : MeOH (1:1)	M-8330-ADD-36	30
1,2-Diaminopropane	100	MeOH	M-8330-ADD-9	20
2,3-Dimethyl-2,3-dinitrobutane (DMNB)	100	AcCN	M-8330-ADD-21	30
3,5-Dinitroaniline	100	AcCN : MeOH (1:1)	M-8330-ADD-4	30
1,3-Dinitrobenzene	100	AcCN : MeOH (1:1)	M-8330-01-0.1X	20
1,2-Dinitroglycerin	100	AcCN : MeOH (1:1)	M-8330-ADD-33	20
1,3-Dinitroglycerin	100	AcCN : MeOH (1:1)	M-8330-ADD-34	20
EGDN	100	AcCN	M-8330-ADD-5	26
Guanidine nitrate	100	MeOH	M-8330-ADD-10	20
Hexamethylenetriperoxide diamine (HMTD)	100	AcCN	M-8330-ADD-25	75
Hexanitrodiphenylamine	100	AcCN : MeOH (1:1)	M-8330-ADD-37	40
Hexanitrostilbene (HNS)	100	AcCN	M-8330-ADD-26	60
HMX	100	AcCN : MeOH (1:1)	M-8330-04-0.1X	20
Hydrazine	100	MeOH	M-8330-ADD-8	20
N-Nitrodimethylamine	100	AcCN	M-8330-ADD-40	75
Nitroglycerin	100	EtOH	M-8330-ADD-1	20
	1000	EtOH	M-8330-ADD-1-10X	30
1-Nitroglycerin	100	AcCN : MeOH (1:1)	M-8330-ADD-31	20
2-Nitroglycerin	100	AcCN : MeOH (1:1)	M-8330-ADD-32	20
Nitroguanidine	100	MeOH	M-8330-ADD-6	20
Nitromethane	100	MeOH	M-8330-ADD-7	20
PETN	100	MeOH	M-8330-ADD-2	20
	1000	MeOH	M-8330-ADD-2-10X	30
Picramic acid	100	AcCN : MeOH (1:1)	M-8330-ADD-22	30
Picric acid	100	AcCN : MeOH (1:1)	M-8330-ADD-3	20
PYX(2,6-bis,bis-(pricrylamine)-3,5-dinitropyridine	100	AcCN	M-8330-ADD-11	20
RDX	100	AcCN : MeOH (1:1)	M-8330-05-0.1X	20
TEGDN	100	AcCN : MeOH (1:1)	M-8330-ADD-41-R1	30
Tetryl	100	AcCN : MeOH (1:1)	M-8330-10-0.1X	20
1,3,5-Triamino-2,4,6-trinitrobenzene (TATB)	40	Dimethyl formamide	M-8330-ADD-14-DMF	40
Triacetone triperoxide (TATP)	100	AcCN	M-8330-ADD-24 ❄	95
2,4,6-Triaminotoluene trihydrochloride	N/A	5 mg	M-8330-ADD-23N-5MG	150
Trimethylolethane trinitrate	100	AcCN : MeOH (1:1)	M-8330-ADD-28	30
2,4,6-Trinitroresorcinol	100	AcCN : MeOH (1:1)	M-8330-ADD-29	60

Technical Note

DMNB (M-8330-ADD-21) is a required taggant added to commercially manufactured plastic explosives.

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

Additional Explosive Standards

Method 529
Explosive & Related Compounds by SPE & Capillary Column GC/MS

Method 8095
Also see Explosive Intermediate (GC/ECD)

Method 8330 Multi-Component Formulations for Explosive Analysis

The following A and B mixes provide better resolution between possible coeluting analytes, assisting the chemist to optimize the HPLC system. We suggest, when first performing Method 8330 development, to purchase the high concentration 14 x 1 mL set "M-8330-R-10X-SET".

M-8330A ❄ — **$ 40 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1)
M-8330A-10X ❄ — **$ 50 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 7 comps.

- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- HMX
- Nitrobenzene
- RDX
- 1,3,5-Trinitrobenzene
- TNT

M-8330A-R ❄ — **$ 45 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1)
M-8330A-R-10X ❄ — **$ 55 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 8 comps.

- 2-Amino-4,6-dinitrotoluene
- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- HMX
- Nitrobenzene
- RDX
- 1,3,5-Trinitrobenzene
- TNT

Composite Explosive Mixture

M-8330-R — **$ 110 / 1 x 1 mL**
M-8330-R-PAK — ***SAVE 20%*** **$ 440 / 5 x 1 mL**
1.0 mg/mL each in MeOH:AcCN (1:1) — 14 comps.

- 1,3-Dinitrobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- HMX
- RDX
- Nitrobenzene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene
- Tetryl
- TNT
- 1,3,5-Trinitrobenzene
- 2-Amino-4,6-dinitrotoluene
- 4-Amino-2,6-dinitrotoluene

Internal Standard

M-8330-IS — **$ 15 / 1 x 1 mL**
M-8330-IS-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in MeOH

- 3,4-Dinitrotoluene

M-8330B ❄ — **$ 25 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1)
M-8330B-10X ❄ — **$ 40 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 5 comps.

- Tetryl
- 2,6-Dinitrotoluene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene

M-8330B-R ❄ — **$ 30 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1)
M-8330B-R-10X ❄ — **$ 45 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 7 comps.

- 2-Amino-4,6-dinitrotoluene
- 4-Amino-2,6-dinitrotoluene
- Tetryl
- 2,6-Dinitrotoluene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene

M-8330B-R2 ❄ — **$ 30 / 1 x 1 mL**
0.1 mg/mL each in AcCN:MeOH (1:1)
M-8330B-R2-10X ❄ — **$ 40 / 1 x 1 mL**
1.0 mg/mL each in AcCN:MeOH (1:1) — 6 comps.

- 4-Amino-2,6-dinitrotoluene
- Tetryl
- 2,6-Dinitrotoluene
- 2-Nitrotoluene
- 3-Nitrotoluene
- 4-Nitrotoluene

Surrogate Standard

M-8330-SS — **$ 20 / 1 x 1 mL**
1.0 mg/mL in MeOH

- 1,2-Dinitrobenzene

Method 8410 Semi-Volatiles by GC/FTIR

Internal Standard

M-8410-IS — **$ 30 / 1 x 1 mL**
M-8410-IS-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 2 comps.

- 1-Fluoronaphthalene
- *p*-Terphenyl-d_{14}

Method 8430 bis(2-Chloroethyl)ether & Hydrolysis Products

M-8430 — **$ 20 / 1 x 1 mL**
1.0 mg/mL each in Water — 5 comps.

- bis(2-Chloroethyl) ether
- 2-Chloroethanol
- 2-(2-Chloroethoxy)-ethanol
- Diethylene glycol
- Ethylene glycol

Method 8440 Total Petroleum Hydrocarbon

Total Recoverable Petroleum Hydrocarbon Mix

M-8440 — **$ 20 / 1 x 1 mL**
M-8440-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
At stated conc. in Tetrachloroethene — 3 comps.

- Chlorobenzene (0.10 w/w %)
- *n*-Hexadecane (0.15 w/w %)
- Isooctane (0.15 w/w %)

Silica Gel Cleanup Calibration Solution

M-8440-SGC — **$ 10 / 1 x 1 mL**
M-8440-SGC-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
10.0 mg/mL in Tetrachloroethene

- Corn Oil

Total Petroleum Hydrocarbon Concentrate Mix

M-8440-CON — **$ 30 / 1 x 1 mL**
M-8440-CON-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
3 comps.

- Chlorobenzene (25.0 vol %)
- *n*-Hexadecane (37.5 vol %)
- Isooctane (37.5 vol %)

❄ To delay premature breakdown of thermally labile products in transit a ColdPAK is required.

REACH Statement

In an effort to ensure that all chemicals are tested and used in safe ways, the European Union has adopted a plan (REACH - Registration, Evaluation, Authorization and Restriction of Chemicals), which went into effect on June 1, 2007. This plan originated out of the desire to replace the patchwork of existing regulations in Europe with a more comprehensive law that encompasses all chemicals, including those placed on the market prior to 1981 when the industry did not have to provide documented health and safety information.

Listed below are the important dates outlined in the REACH directive.

June 1, 2007 The REACH Directive takes effect

June 1, 2008 Pre-registration for existing substances and Registration for new substances begins

November 30, 2008 Pre-registration for existing substances ends

December 1, 2008 Registration for existing substances that have not been pre-registered begins

January 1, 2009 List of pre-registered substances is published

June 1, 2009 First recommendation of priority substances to be considered for authorization published

December 1, 2010 PHASE 1 - The following pre-registered 'phase-in' substances should have been registered when supplied at:

≥ 1000 tons per year or;
≥ 100 tons per year and classified under CHIP as very toxic to aquatic organisms or;
≥ 1 ton per year and classified under CHIP as Category 1 or 2 carcinogens, mutagens or reproductive toxicants

June 1, 2013 PHASE 2 - Deadline for registration of substances supplied at ≥ 100 tons per year

June 1, 2018 PHASE 3 - Deadline for registration of substances supplied at ≥ 1 ton per year

AccuStandard fully supports the efforts and objectives of the REACH Directive and will continue to monitor any changes in the scope of this regulation. Changes may include newly banned substances, expiring exemptions or lowered maximum concentration levels. As a leading manufacturer of chemical reference standards in the world, AccuStandard will take all necessary actions under REACH in order to continue to expand the supply of our products in Europe. For other guidance on REACH, please go to the ECHA-website (www.echa.europa.eu).

Standards for International Testing Protocols

AccuStandard has researched and developed standard solutions that meet the requirements of various governmental bodies around the world. If you do not locate a solution that meets your requirements, please contact our Technical Department, and we will quickly develop a formulation that meets your requirements.



Organic Chemicals	USEPA Methods	DIN	ISO
PCBs	508, 617, 680, 1668, 8082		
Congeners	508, 525.1, 525.2, 1668, 8082	38407-3, 38414-20	6468
PCB Metabolites & Derivatives	8082		
Aroclors	505, 508, 508A, 625		
Dibenzofurans	613, 8280A		
PAHs & Derivatives	525, 550, 553, 610, 625, 8100, 8310, 1653	38407-8, 38407-18, 38414-23	
Nitroaromatics	609, 8070A, 8090, 8091	38407-17	
Amines, Anilines & Amino Aromatics	605, 607, 620, 8131, 8325	38407-16	
Nitrogen Containing Compounds (other)	509, 553		
Phenols & Derivatives	528, 604, 642, 8040, 8040, 8041, 8085	12673	17495
Phthalates	506, 606, 8060, 8061A		
Aldehydes	554, 556, 1667A, 8315, 8315A		
Ketones	554, 556, 8315, 8315A, 8091		
Halo Ethers	611, 8110, 8111		
Haloacetic acids	552		
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Cross-references are available on the AccuStandard website for many general categories that cross chemical groups.

Endocrine Disruptors (EU and US) **Allergens** **RoHS** **Dyes** **Oeko-Tex Labeling**

The text of methods from various governmental agencies and non-governmental agencies can be downloaded from the

AccuStandard web site or from the agency sites.

EU Directives **EPA Methods**

PCB Congeners

Toxicity and Abundance based PCB Congener Formulations
These formulations have been selected by the Institute for Biological Sciences of Canada. The concentration level for these formulations is selected so that 1 mL of standard diluted into 100 mL will show equal response by ECD.

PCB Congener Set
C-CAN-SET **$ 150 / 4 x 1 mL (C-CAN-01, C-CAN-02, C-CAN-03, C-CAN-04)**

PCB Congener Mix #1
C-CAN-01 **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane	14 comps.
(Congener No.)	µg/mL
2,2',5-Trichlorobiphenyl (18)	11.8
2,4',5-Trichlorobiphenyl (31)	6.6
2,2',3,3'-Tetrachlorobiphenyl (40)	4.9
2,2',3,5'-Tetrachlorobiphenyl (44)	5.9
2,2',4,5'-Tetrachlorobiphenyl (49)	7.6
2,2',6,6'-Tetrachlorobiphenyl (54)	16.6
3,3',4,4'-Tetrachlorobiphenyl (77)	5.5
2,2',3,4,5-Pentachlorobiphenyl (86)	2.9
2,2',3,4,5'-Pentachlorobiphenyl (87)	3.8
2,3',4,5',6-Pentachlorobiphenyl (121)	3.1
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	2.1
2,3,3',4,4',5-Hexachlorobiphenyl (156)	1.5
2,3,3',4,5,5'-Hexachlorobiphenyl (159)	1.2
Decachlorobiphenyl (209)	1.7

PCB Congener Mix #2
C-CAN-02 **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane	15 comps.
(Congener No.)	µg/mL
4,4'-Dichlorobiphenyl (15)	91.9
2,2',5,5'-Tetrachlorobiphenyl (52)	15.2
2,3,4,4'-Tetrachlorobiphenyl (60)	3.9
2,2',4,5',6-Pentachlorobiphenyl (103)	10.8
2,3,3',4,4'-Pentachlorobiphenyl (105)	4
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	4.9
2,2',3,4,5,6'-Hexachlorobiphenyl (143)	5.7
2,2',4,4',5,6'-Hexachlorobiphenyl (154)	6.2
2,2',3,3',4,5,6-Heptachlorobiphenyl (173)	2.3
2,2',3,4,4',5,6'-Heptachlorobiphenyl (182)	3.8
2,2',3,3',5,5',6,6'-Octachlorobiphenyl (202)	3.6
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	3.2
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl (207)	3.8
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	2.4
Decachlorobiphenyl (209)	2.8

PCB Congener Mix #3
C-CAN-03 **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane	15 comps.
(Congener No.)	µg/mL
4,4'-Dichlorobiphenyl (15)	138.1
2,3,4,4',5-Pentachlorobiphenyl (114)	6.3
2,2',3,3',4,5-Hexachlorobiphenyl (129)	8.3
2,2',3,4,4',5-Hexachlorobiphenyl (137)	7.4
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	7.3
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	5.2
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	6.6
2,2',3,4,5,5',6-Heptachlorobiphenyl (185)	3.5
2,3,3',4,4',5,5'-Heptachlorobiphenyl (189)	4.7
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	5
2,2',3,3',4,5',6,6'-Octachlorobiphenyl (201)	4.8
2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	7
2,2',3,4,4',5,5',6-Octachlorobiphenyl (203)	5.1
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	6.7
Decachlorobiphenyl (209)	5.1

PCB Congener Mix #4
C-CAN-04 **$ 45 / 1 x 1 mL**

At stated conc. in Isooctane	15 comps.
(Congener No.)	µg/mL
4,4'-Dichlorobiphenyl (14)	76.7
2,2',4,5,5'-Pentachlorobiphenyl (101)	8.9
2,3',4,4',5-Pentachlorobiphenyl (118)	3.9
2,2',3,4,4',5'-Hexachlorobiphenyl (138)	4.2
2,2',3,4,5,5'-Hexachlorobiphenyl (141)	2.8
2,2',3,5,5',6-Hexachlorobiphenyl (151)	5
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	3.3
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	3
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	2.8
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	3.2
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	2.4
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	2.6
2,2',3,3',4,4',5,6'-Octachlorobiphenyl (196)	3.3
2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	3.6
Decachlorobiphenyl (209)	2.7

PCB Congener Formulation
Quebec Ministry of Environment

PCB Congener Mix
C-QME-01 **$ 125 / 1 x 1 mL**

At stated conc. in Isooctane	41 comps.
(Congener No.)	ng/mL
2,2',4-Trichlorobiphenyl (17)	500
2,2',5-Trichlorobiphenyl (18)	2000
2,4,4'-Trichlorobiphenyl (28)	2000
2,4',5-Trichlorobiphenyl (31)	1500
2',3,4-Trichlorobiphenyl (33)	2000
2,2',3,5'-Tetrachlorobiphenyl (44)	2000
2,2',4,5'-Tetrachlorobiphenyl (49)	2000
2,2',5,5'-Tetrachlorobiphenyl (52)	2000
2,3',4',5-Tetrachlorobiphenyl (70)	2000
2,4,4',5-Tetrachlorobiphenyl (74)	2000
2,2',3,3',4-Pentachlorobiphenyl (82)	500
2,2',3,4,5'-Pentachlorobiphenyl (87)	2000
2,2',3,5',6-Pentachlorobiphenyl (95)	1000
2,2',4,4',5-Pentachlorobiphenyl (99)	2000
2,2',4,5,5'-Pentachlorobiphenyl (101)	2000
2,3,3',4,4'-Pentachlorobiphenyl (105)	500
2,3,3',4',6-Pentachlorobiphenyl (110)	2000
2,3',4,4',5-Pentachlorobiphenyl (118)	2000
2,2',3,3',4,4'-Hexachlorobiphenyl (128)	2000
2,2',3,3',4,6'-Hexachlorobiphenyl (132)	1000
2,2',3,4,4',5'-Hexachlorobiphenyl (138)	2000
2,2',3,4',5',6-Hexachlorobiphenyl (149)	2000
2,2',3,5,5',6-Hexachlorobiphenyl (151)	2000
2,2',4,4',5,5'-Hexachlorobiphenyl (153)	2000
2,3,3',4,4',5-Hexachlorobiphenyl (156)	2000
2,3,3',4,4',6-Hexachlorobiphenyl (158)	500
3,3',4,4',5,5'-Hexachlorobiphenyl (169)	2000
2,2',3,3',4,4',5-Heptachlorobiphenyl (170)	2000
2,2',3,3',4,4',6-Heptachlorobiphenyl (171)	2000
2,2',3,3',4',5,6-Heptachlorobiphenyl (177)	2000
2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)	2000
2,2',3,4,4',5',6-Heptachlorobiphenyl (183)	2000
2,2',3,4',5,5',6-Heptachlorobiphenyl (187)	2000
2,3,3',4,4',5',6-Heptachlorobiphenyl (191)	2000
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (194)	2000
2,2',3,3',4,4',5,6-Octachlorobiphenyl (195)	2000
2,2',3,3',4,5,5',6'-Octachlorobiphenyl (199)	1500
2,3,3',4,4',5,5',6-Octachlorobiphenyl (205)	2000
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (206)	2000
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl (208)	2000
Decachlorobiphenyl (209)	2000

Dioxins: Calibration & Window Defining Mixtures (Canadian Environmental Methods)

Custom Window Defining Mixture
D-WD **$ 1,100 / 1 x 1 mL**
20,000 ng/mL in Toluene
D-WD-2.5X **$ 2,000 / 1 x 1 mL**
50,000 ng/mL in Toluene 7 comps.

1,2,4,6,8/1,2,4,7,9-Pentachlorodibenzo-*p*-dioxin (Isomer pair)
1,2,3,8,9-Pentachlorodibenzo-*p*-dioxin
1,2,4,6,7,9/1,2,4,6,8,9-Hexachlorodibenzo-*p*-dioxin (Isomer pair)
1,2,3,4,6,7-Hexachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,9-Heptachlorodibenzo-*p*-dioxin
Octachlorodibenzo-*p*-dioxin

Custom Calibration Mixture
D-CAL **$ 900 / 1 x 1 mL**
20,000 ng/mL in Toluene
D-CAL-2.5X **$ 1,600 / 1 x 1 mL**
50,000 ng/mL in Toluene 6 comps.

1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin
Octachlorodibenzo-*p*-dioxin

PAH Mixture
Quebec Ministry of Environment

PAH Standard
H-QME-01 **$ 110 / 1 x 1 mL**
500 µg/mL each in CH_2Cl_2:Benzene (1:1) 24 comps

Acenaphthene	Dibenz[a,h]anthracene
Acenaphthylene	Dibenzo[a,h]pyrene
Anthracene	Dibenzo[a,i]pyrene
Benz[a]anthracene	Dibenzo[a,l]pyrene
Benzo[b]fluoranthene	7,12-Dimethylbenz[a]anthracene
Benzo[j]fluoranthene	Fluoranthene
Benzo[k]fluoranthene	Fluorene
Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene
Benzo[c]phenanthrene	3-Methylcholanthrene
Benzo[a]pyrene	Naphthalene
Benzo[e]pyrene	Phenanthrene
Chrysene	Pyrene



Petroleum Brownfield Regulation

The Brownfield Regulation has been approved by the Canadian Ministry of the Environment as of October 1, 2004.

Light Petroleum Fraction
CCME-LPF-SET **$ 95 / 5 x 1 mL**
At stated conc. (µg/mL) in MeOH 8 comps.

Compound	0.05X	0.1X	0.2X	0.5X	1X
n-Decane	12.5	25	50	125	250
n-Hexane	12.5	25	50	125	250
Toluene	12.5	25	50	125	250
Benzene	12.5	25	50	125	250
o-Xylene	12.5	25	50	125	250
m-Xylene	6.25	12.5	25	62.5	125
p-Xylene	6.25	12.5	25	62.5	125
Ethylbenzene	12.5	25	50	125	250

Medium & Heavy Petroleum Fraction
CCME-MHPF-SET **$ 75 / 3 x 1 mL**
At stated conc. (µg/mL) in n-Hexane 3 comps.

Compound	0.1X	0.5X	1X
n-Decane	40	200	400
n-Hexadecane	40	200	400
n-Tetratriacontane	40	200	400

Performance Check Standard
CCME-QC **$ 45 / 1 x 1 mL**
CCME-QC-PAK **$ 180 / 5 x 1 mL**
40 µg/mL each in n-Hexane:Cyclohexane (1:1) 2 comps.

n-Pentacontane
n-Tetracontane

Spike Standard
CCME-SPIKE **$ 30 / 1 x 1 mL**
2500 µg/mL each in n-Hexane 2 comps.

SAE 30W Motor Oil - Non-Detergent Formula
#2 Diesel Fuel - 50% Weathered

Canadian Atlantic RBCA EPH Mix
CCME-EPH **$ 35 / 1 x 1 mL**
1000 µg/mL each in Hexane:CH_2Cl_2 85:15 11 comps.

Acenapthene	n-Dotriacontane
Anthracene	n-Heneicosane
Benzo[a]pyrene	n-Hexadecane
Chrysene	n-Octaconsane
n-Decan	Naphthalene
n-Dodecane	

Surrogate Standard
CCME-EPH/SS **$ 20 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 2 comps.

n-Dotriacontane Isobutylbenzene

Canadian Atlantic RBCA VPH Mix
CCME-VPH **$ 30 / 1 x 1 mL**
1000 µg/mL each in MeOH 12 comps.

Benzene	n-Octane
n-Decane	Toluene
Ethylbenzene	1,2,4-Trimethylbenzene
n-Heptane	1,3,5-Trimethylbenzene
n-Hexane	o-Xylene
1-Methyl-3-ethylbenzene	p-Xylene

Surrogate Standard
CCME-VPH/SS **$ 15 / 1 x 1 mL**
1000 µg/mL in MeOH

Isobutylbenzene

Canadian Drinking Water Brownfield Regulation

Phenoxyacid Herbicides Mix
CCME-CDW-PHERB **$ 45 / 1 x 1 mL**
1000 µg/mL each in Acetone 11 comps.

Bromoxynil	Pentachlorophenol
2,4-D	Picloram
Dicamba	2,4,5-T
2,4-Dichlorophenol	2,3,4,6-Tetrachlorophenol
Diclofop methyl	2,4,6-Trichlorophenol
Dinoseb	

Carbamates Mix
CCME-CDW-CARB **$ 30 / 1 x 1 mL**
100 µg/mL each in AcCN 5 comps.

Aldicarb	Carbofuran
Bendiocarb	Triallate
Carbaryl	

Chlorinated Pesticide Mix
CCME-CDW-CPEST **$ 40 / 1 x 1 mL**
200 µg/mL each in Hexane:Toluene (1:1) 14 comps.

Aldrin	4,4'-DDT
γ-BHC	Dieldrin
α-Chlordane	Heptachlor
γ-Chlordane	Heptachlor epoxide (Isomer B)
2,4'-DDE	Methoxychlor
4,4'-DDE	Oxychlordane Isomer
2,4'-DDT	Trifluralin

MISA Analytical Test Groups

Set MISA-VH-1/VH-2-SET $ 60 / 2 x 1 mL (MISA-VH-1, MISA-VH-2)

Group 16: Volatiles, Halogenated

MISA-VH-1 $ 40 / 1 x 1 mL
MISA-VH-1-PAK *SAVE 20%* $ 160 / 5 x 1 mL
0.5 mg/mL each in MeOH 22 comps.

- Bromoform
- Carbon tetrachloride
- Chlorobenzene
- Chloroform
- Dibromochloromethane
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethane
- *trans*-1,2-Dichloroethene
- 1,1-Dichloroethene
- 1,2-Dichloropropane
- *cis*-1,3-Dichloropropene*
- *trans*-1,3-Dichloropropene**
- Methylene chloride
- 1,1,2,2-Tetrachloroethane
- Tetrachloroethene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene

* cis (1.06 x conc.)
** trans (0.94 x conc.)

MISA-VH-2 $ 25 / 1 x 1 mL
MISA-VH-2-PAK *SAVE 20%* $ 100 / 5 x 1 mL
0.5 mg/mL each in MeOH 5 comps.

- Bromomethane
- Chloroethane
- Chloromethane
- Trichlorofluoromethane
- Vinyl chloride

Group 17: Volatiles, Non-Halogenated

MISA-VNH $ 30 / 1 x 1 mL
MISA-VNH-PAK *SAVE 20%* $ 120 / 5 x 1 mL
0.5 mg/mL each in MeOH 7 comps.

- Benzene
- Ethylbenzene
- Styrene
- Toluene
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

Group 18: Volatiles, Water Soluble

MISA-VWS $ 15 / 1 x 1 mL
2.0 mg/mL each in Water 2 comps.

- Acrolein
- Acrylonitrile

Group 19: Extractables, Base-Neutral

Z-014G $ 65 / 1 x 1 mL
Z-014G-PAK *SAVE 20%* $ 260 / 5 x 1 mL
2.0 mg/mL each in CH_2Cl_2: Benzene (1:1) 16 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluroanthene
- Benzo[ghi]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- Naphthalene
- Phenanthrene
- Pyrene

MISA-BN-1 $ 35 / 1 x 1 mL
2.0 mg/mL each in CH_2Cl_2 8 comps.

- Biphenyl
- Camphene
- 1-Chloronaphthalene
- 2-Chloronaphthalene
- 1-Methylnaphthalene
- 2-Methylnaphthalene
- 5-Nitroacenaphthene
- Perylene

MISA-BN-2 $ 35 / 1 x 1 mL
2.0 mg/mL each in CH_2Cl_2 8 comps.

- Benzylbutylphthalate
- 4-Bromophenyl phenyl ether
- bis(2-Chloroethyl) ether
- bis(2-Chloroisopropyl) ether
- 4-Chlorophenyl phenyl ether
- Di-n-butyl phthalate
- Di-n-octyl phthalate
- bis(2-Ethylhexyl)phthalate

MISA-BN-3 $ 35 / 1 x 1 mL
2.0 mg/mL each in CH_2Cl_2 8 comps.

- bis(2-Chloroethoxy)methane
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Diphenylamine
- Diphenylether
- Indole
- N-Nitroso-diphenylamine
- N-Nitroso-di-*n*-propyl amine

Group 20: Extractables, Acid (Phenolics)

MISA-A $ 60 / 1 x 1 mL
MISA-A-PAK *SAVE 20%* $ 240 / 5 x 1 mL
2.0 mg/mL each in CH_2Cl_2 20 comps.

- 4-Chloro-3-methylphenol
- 2-Chlorophenol
- 2-Cresol
- 3-Cresol
- 4-Cresol
- 2,4-Dichlorophenol
- 2,6-Dichlorophenol
- 2,4-Dimethylphenol
- 4,6-Dinitro-2-cresol
- 2,4-Dinitrophenol
- 4-Nitrophenol
- Pentachlorophenol
- Phenol
- 2,3,4,5-Tetrachlorophenol
- 2,3,4,6-Tetrachlorophenol
- 2,3,5,6-Tetrachlorophenol
- 2,3,4-Trichlorophenol
- 2,3,5-Trichlorophenol
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol

Group 22: Organochlorine Pesticides

MISA-PEST $ 75 / 1 x 1 mL
MISA-PEST-PAK *SAVE 20%* $ 300 / 5 x 1 mL
2.0 mg/mL each in Acetone 18 comps.

- Aldrin
- α-BHC
- β-BHC
- γ-BHC
- δ-BHC
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- Heptachlor
- Heptachlor epoxide isomer B
- Methoxychlor

Group 23: Extractables, Chlorinated Neutrals

MISA-NC $ 40 / 1 x 1 mL
2.0 mg/mL each in CH_2Cl_2 12 comps.

- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachlorocyclopentadiene
- Hexachloroethane
- Octachlorostyrene
- Pentachlorobenzene
- 1,2,3,4-Tetrachlorobenzene
- 1,2,3,5-Tetrachlorobenzene
- 1,2,4,5-Tetrachlorobenzene
- 1,2,3-Trichlorobenzene
- 1,2,4-Trichlorobenzene
- 2,4,5-Trichlorotoluene

Group 27: Polychlorinated Biphenyls

Solutions and Sets

Each at 35 µg/mL	Isooctane	MeOH	Price / 1 mL
Aroclor 1016	C-216S	C-216S-M	$ 15
Aroclor 1221	C-221S	C-221S-M	15
Aroclor 1232	C-232S	C-232S-M	15
Aroclor 1242	C-242S	C-242S-M	15
Aroclor 1248	C-248S	C-248S-M	15
Aroclor 1254	C-254S	C-254S-M	15
Aroclor 1260	C-260S	C-260S-M	15
Aroclor 1262	C-262S	C-262S-M	15
Aroclor 1268	C-268S	C-268S-M	15
Set of 9 above	**Z-008S-SET $ 78**	**Z-008S-M-SET**	**$ 78**

PCB Congener Standards

PCB Congener Mixture

PCB-W22 **$ 35 / 1 x 1 mL**
10 µg/mL each in Isooctane 15 comps.
PCB-W22-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**

PCB-W22-SET **$ 225 / 15 x 1 mL**
100 µg/mL in Isooctane (Set of Individual Solutions)

No.	
18	2,2',5-Trichlorobiphenyl
20	2,3,3'-Trichlorobiphenyl
28	2,4,4'-Trichlorobiphenyl
31	2,4',5-Trichlorobiphenyl
44	2,2',3,5'-Tetrachlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl
105	2,3,3',4,4'-Pentachlorobiphenyl
118	2,3',4,4',5-Pentachlorobiphenyl
138	2,2',3,4,4',5'-Hexachlorobiphenyl
149	2,2',3,4',5',6-Hexachlorobiphenyl
153	2,2',4,4',5,5'-Hexachlorobiphenyl
170	2,2',3,3',4,4',5-Heptachlorobiphenyl
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl

Internal Standard

C-EU-IS-10ML **$ 75 / 1 x 10 mL**
At stated conc. in Isooctane 2 comps.

2,4,6-Trichlorobiphenyl
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

ISO 6468 PCB Standard

ISO6468-PCB **$ 35 / 1 x 1 mL**
10 µg/mL each in Hexane 7 comps.

2,4,4'-Trichlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,2',3,3',4,4',5,5'-Octachlorobiphenyl

PCB Congener Content Evaluation Mix #1

AE-00059 **$ 25 / 1 x 1 mL**
AE-00059-10ML **$ 95 / 1 x 10 mL**
10 µg/mL each in Isooctane 6 comps.

No.	
28	2,4,4'-Trichlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl
138	2,2',3,4,4',5'-Hexachlorobiphenyl
153	2,2',4,4',5,5'-Hexachlorobiphenyl
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl

PCB Congener Content Evaluation Mix #2

AE-00060 **$ 30 / 1 x 1 mL**
AE-00060-10ML **$ 95 / 1 x 10 mL**
10 µg/mL each in Isooctane 3 comps.

No.	
77	3,3',4,4'-Tetrachlorobiphenyl
126	3,3',4,4',5-Pentachlorobiphenyl
169	3,3',4,4',5,5'-Hexachlorobiphenyl

Congener Calibration Mix #27

AE-00081-10ML **$ 325 / 1 x 1 mL**
100 µg/mL each in Isooctane 10 comps.

2,4,4'-Trichlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl
2,3,3',4,4'-Pentachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
2,3,3',4,4',5-Hexachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl
Decachlorobiphenyl

Congener Calibration Mix

AE-00061 **$ 35 / 1 x 1 mL**
AE-00061-10ML **$ 180 / 1 x 10 mL**
10 µg/mL each in Isooctane 14 comps.

No.	
18	2,2',5-Trichlorobiphenyl
28	2,4,4'-Trichlorobiphenyl
31	2,4',5-Trichlorobiphenyl
44	2,2',3,5'-Tetrachlorobiphenyl
52	2,2',5,5'-Tetrachlorobiphenyl
101	2,2',4,5,5'-Pentachlorobiphenyl
118	2,3',4,4',5-Pentachlorobiphenyl
138	2,2',3,4,4',5'-Hexachlorobiphenyl
149	2,2',3,4',5',6-Hexachlorobiphenyl
153	2,2',4,4',5,5'-Hexachlorobiphenyl
170	2,2',3,3',4,4',5-Heptachlorobiphenyl
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl
194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl
209	Decachlorobiphenyl

Internal Standards

Each in 100 µg/mL in Isooctane

C-030S-TP **$ 15 / 1 x 1 mL**
2,4,6-Trichlorobiphenyl
C-209S-TP **$ 15 / 1 x 1 mL**
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

Technical Note

These Congener Content Evaluation Mixes have proven useful for European Laboratories estimating the PCB content of a sample when following EU guideline 96/59/EU for cleanup of PCBs.

Custom Standards

When you have a need for unique Analytical Standards, let the experts at AccuStandard assist in designing your formulation. Our technical group, with over 80 years of combined analytical experience, will review your request, suggest the most economical and stable formulation, and provide pricing all within 2 day turn around for quotes.



Volatiles

DIN 38407-2 Benzene Standard

Determination of water, waste water and sludge for low volatile halogenated hydrocarbons by GC.

DIN38407-2-BENZ **$ 20 / 1 x 1 mL**

10 µg/mL each in n-Hexane 5 comps.

- Hexachlorobenzene
- Pentachlorobenzene
- Pentachloronitrobenzene
- 1,2,4,5-Tetrachlorobenzene
- 1,2,4-Trichlorobenzene

Volatile Standard

AE-00048 **$ 25 / 1 x 1 mL**

100 µg/mL each in MeOH 5 comps.

- 1,1,1-Trichloroethane
- Trichloroethene
- Tetrachloroethene
- Dichloromethane
- Tetrachloromethane

Calibration Solution

Set of 5 ampules with a conc. each in MeOH of 1 µg/mL, 5 µg/mL, 10 µg/mL, 50 µg/mL and 100 µg/mL

Compound	Cat. No.	Price / Unit
1,1,1-Trichloroethane	AE-00034-CAL-SET	$ 45 / 5 x 1 mL
Trichloroethene	AE-00035-CAL-SET	45 / 5 x 1 mL
Tetrachloroethene	AE-00036-CAL-SET	45 / 5 x 1 mL
Dichloromethane	AE-00037-CAL-SET	45 / 5 x 1 mL
Carbon tetrachloride	AE-00038-CAL-SET	45 / 5 x 1 mL

DIN 38407-9 Benzene Mix

Determination of Benzene and Benzene derivatives in water, wastewater and sludge by GC.

DIN38407-9-BENZ **$ 22 / 1 x 1 mL**

100 µg/mL each in MeOH 8 comps.

- Benzene
- Toluene
- Ethylbenzene
- Chlorobenzene
- 1,4-Dichlorobenzene
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

DIN EN ISO 10301 - Halogenated VOCs

Determination of water, waste water and sludge for low volatile halogenated hydrocarbons by GC.

DINENISO-10301 **$ 35 / 1 x 1 mL**

1 µg/mL each in MeOH 17 comps.

- Dichloromethane
- Trichloromethane
- Carbon tetrachloride
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethene
- Tetrachloroethene
- 1,2-Dichloropropane
- 1,3-Dichloropropane
- 1,3-Dichloropropene
- Dibromomethane
- Tribromoethene
- Bromochloromethane
- Bromodichloromethane
- Dibromochloromethane

Volatiles Calibration Curve Mix 1

AE-00039-CAL-SET **$ 60 / 5 x 1 mL**

1 µg/mL, 5 µg/mL, 10 µg/mL, 50 µg/mL, 100 µg/mL Each comp. in MeOH 5 comps.

- Dichloromethane
- Tetrachloroethene
- Tetrachloromethane
- 1,1,1-Trichloroethane
- Trichloroethene

Volatiles Calibration Curve Mix 2

AE-00040-CAL-SET **$ 70 / 5 x 1 mL**

1 µg/mL, 5 µg/mL, 10 µg/mL, 50 µg/mL, 100 µg/mL Each comp. in MeOH 6 comps.

- Chloroform
- Dichloromethane
- Tetrachloroethene
- Tetrachloromethane
- 1,1,1-Trichlorothane
- Trichloroethene

Chlorinated Organic Volatile

Calibration Standards

Appendix 2, Drinking Water Regulation of May 22, 1986.

Compound	Cat. No.	*Each at 100 µg/mL in MeOH* Price / 1 mL
1,1,1-Trichloroethane	APP-9-202	$ 12
Trichloroethene	APP-9-204	12
Tetrachloroethene	APP-9-194	12
Dichloromethane	APP-9-074	12
Carbon tetrachloride	APP-9-036	12

Nitroaromatic Compounds

DIN-38407-17 Nitroaromatic Compounds

Examination of water, wastewater, and sludge for the determination of selected nitroaromatic compounds by Gas-Liquid Chromatography

DIN38407-17 **$ 68 / 1 x 1 mL**

500 µg/mL each in MeOH 12 comps.

- Nitrobenzene
- 2-Nitrotoluene
- 4-Nitrotoluene
- 1,3-Dinitrobenzene
- 2,6-Dinitrotoluene
- 2,4-Dinitrotoluene
- 3,4-Dinitrotoluene
- 2-Amino-6-nitrotoluene
- 4-Amino-2-nitrotoluene
- 4-Amino-2,6-dinitrotoluene
- 2-Amino-4,6-dinitrotoluene
- 2,4,6-Trinitrotoluene

Explosives

DIN 38407-21 Explosives

Examination of water, wastewater, and sludge for determination of selected explosives and related compounds by HPLC with UV detection

DIN38407-21-A **$ 95 / 1 x 1 mL**

10 µg/mL each in MeOH 12 comps.

- Picric acid
- HMX
- RDX
- Tetryl
- EGDN
- DEGDN
- Nitroglycerin
- TNT
- 2-Nitrotoluene
- PETN
- 4-Nitrotoluene
- 3-Nitrotoluene

DIN 38407-21 Related Compounds

Examination of water, wastewater, and sludge for determination of selected explosives and related compounds by HPLC with UV detection

DIN38407-21-B **$ 65 / 1 x 1 mL**

10 µg/mL each in MeOH:AcCN (98:2) 8 comps.

- 1,3,5-Trinitrobenzene
- 1,3-Dinitrobenzene
- 4-Amino-2,6-dinitrotoluene
- 2,2',4,4',6,6'-Hexanitrodiphenylamine
- 2-Amino-4,6-dinitrotoluene
- 2,6-Dinitrotoluene
- 2,4-Dinitrotoluene
- Diphenylamine

PAHs

DIN 38407-8 PAH Mix (WHO 6 List)

Determination of PAH in water, wastewater and sludge by HPLC.

DIN38407-8-PAH **$ 15 / 1 x 1 mL**
2 µg/mL each in Acetonitrile 6 comps.

Fluoranthene	Benzo[a]pyrene
Benzo[b]fluoranthene	Benzo[k]fluoranthene
Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene

DIN 38407-18 PAH Solution

Examination of water, wastewater, and sludge for the determination of 15 polycyclic aromatic hydrocarbons (PAH) by HPLC with fluorescence detection.

DIN38407-18 **$ 45 / 1 x 1 mL**
10 µg/mL each in Acetonitrile 15 comps.

Naphthalene	Benzo[k]fluoranthene
Acenaphthene	Benzo[a]pyrene (Ames grade)
Fluorene	Dibenz[a,h]anthracene
Phenanthrene	Benzo[g,h,i]perylene
Anthracene	Pyrene
Fluoranthene	Benz[a]anthracene
Chrysene	Indeno[1,2,3-cd]pyrene
Benzo(b)fluoranthene	

DIN 38414-23 PAHs

Determination of 15 PAHs in water, waste water and sludge by HPLC and Fluorescence detection.

DIN38414-23 **$ 45 / 1 x 1 mL**
10 µg/mL each in Acetonitrile 15 comps.

Naphthalene	Benzo[k]fluoranthene
Acenaphthene	Benzo[a]pyrene (Ames grade)
Fluorene	Dibenz[a,h]anthracene
Phenanthrene	Benzo[g,h,i]perylene
Anthracene	Pyrene
Fluoranthene	Benz[a]anthracene
Chrysene	Indeno[1,2,3-cd]pyrene
Benzo[b]fluoranthene	

PAH Standard Kits and Solutions

The following mixtures and kits have been prepared to meet the needs of laboratories utilizing European and USEPA methodologies.
Minimum purity 99%, except where indicated.

PAH Mix #1

Regulations for drinking water analysis, (E-DIN 38407-F-18, E-DIN 38414-F-21). Regulations for sediment and sludge

AE-00025 **$ 48 / 1 x 1 mL**
AE-00025-10ML **$ 240 / 1 x 10 mL**
At stated conc. in Acetonitrile 16 comps.

Acenaphthene	(25 µg/mL)	Chrysene	(20 µg/mL)
Acenaphthylene	(25 µg/mL)	Dibenz[a,h]anthracene	(40 µg/mL)
Anthracene	(25 µg/mL)	Fluoranthene	(40 µg/mL)
Benz[a]anthracene	(10 µg/mL)	Fluorene	(40 µg/mL)
Benzo[b]fluoranthene	(25 µg/mL)	Indeno[1,2,3-cd]pyrene	(25 µg/mL)
Benzo[k]fluoranthene	(10 µg/mL)	Naphthalene	(50 µg/mL)
Benzo[g,h,i]perylene	(25 µg/mL)	Phenanthrene (98%)	(30 µg/mL)
Benzo[a]pyrene	(20 µg/mL)	Pyrene	(40 µg/mL)

PAH Mix #2

For European methods according to customer requests.

AE-00045 **$ 16 / 1 x 1 mL**
AE-00045-10ML **$ 80 / 1 x 10 mL**
At stated conc. in Acetonitrile 7 comps.

Benzo[b]fluoranthene	(2 µg/mL)	Fluoranthene	(10 µg/mL)
Benzo[k]fluoranthene	(2 µg/mL)	Indeno[1,2,3,cd]pyrene	(2 µg/mL)
Benzo[g,h,i]perylene	(2 µg/mL)	Perylene	(10 µg/mL)
Benzo[a]pyrene	(2 µg/mL)		

PAH Mix #3

German method for drinking water analysis.

AE-00032 **$ 20 / 1 x 1 mL**
AE-00032-10ML **$ 100 / 1 x 10 mL**
10 µg/mL each in Acetonitrile 7 comps.

Benzo[b]fluoranthene	Fluoranthene
Benzo[k]fluoranthene	Indeno[1,2,3,cd]pyrene
Benzo[g,h,i,]perylene	Perylene
Benzo[a]pyrene	

PAH Mix #4

For European methods according to customer requests.

AE-00033 **$ 24 / 1 x 1 mL**
AE-00033-10ML **$ 120 / 1 x 10 mL**
In Acetonitrile 7 comps.

Benzo[b]fluoranthene	(20 µg/mL)	Fluoranthene	(50 µg/mL)
Benzo[k]fluoranthene	(20 µg/mL)	Indeno[1,2,3,cd]pyrene	(40 µg/mL)
Benzo[g,h,i,]perylene	(20 µg/mL)	Perylene	(20 µg/mL)
Benzo[a]pyrene	(20 µg/mL)		

ISO/DIS 22032 PBDEs in Sediment & Sludge

DRAFT INTERNATIONAL STANDARD

ISO/DIS 22032 Calibration Curve Set

ISO/DIS-22032-SET **$ 475 / 7 x 1 mL**
At stated conc. (ng/mL) in Isooctane 8 comps. each

ISO/DIS-22032 (Congener No.)	**01**	**02**	**03**	**04**	**05**	**06**	**07**
2,2',4,4'-Tetrabromodiphenyl ether (#47)	5	12.5	25	50	100	150	250
2,2',4,4',5-Pentabromodiphenyl ether (#99)	5	12.5	25	50	100	150	250
2,2',4,4',6-Pentabromodiphenyl ether (#100)	5	12.5	25	50	100	150	250
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)	5	12.5	25	50	100	150	250
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)	5	12.5	25	50	100	150	250
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)	5	12.5	25	50	100	150	250
2,3,3',4,4',5,5',6-Octabromodiphenyl ether (#205)	5	12.5	25	50	100	150	250
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (#209)	25	50	100	200	500	700	1000

Internal Standard for BDE# 47, 99 and 100

ISO22032-IS-1-5ML **$ 50/1 x 5 mL**
ISO22032-IS-1-10ML **$ 75/1 x 10 mL**
100 ng/mL each in Isooctane

3,3',4,4'-Tetrabromodiphenyl ether

Internal Standard for BDE# 153, 154 and 183

ISO22032-IS-2-5ML **$ 50/1 x 5 mL**
ISO22032-IS-2-10ML **$ 75/1 x 10 mL**
100 ng/mL each in Isooctane

2,2',3,4,4',5,6-Heptabromodiphenyl ether

Aliphatic, Aromatic Amines and Derivatives

Aryl Amine Multi-Componet Solution

AE-00049-SET **$ 55 / 2 x 1 mL**
10 µg/mL each in Ethyl acetate 24 comps. (Includes AE-00049-R1 plus RAC-08)
AE-00049-R1 **$ 45 / 1 mL**
10 µg/mL each in Ethyl acetate 23 comps.

o-Aminoazotoluene
4-Aminobiphenyl
2-Amino-4-nitrotoluene
Benzidine
4-Chloroaniline
4-Chloro-*o*-toluidine
p-Cresidine
4,4'-Diaminodiphenylmethane
2,4-Diaminotoluene
3,3'-Dichlorobenzidine
3,3'-Dimethoxybenzidine
3,3'-Dimethylbenzidine
3,3'-Dimethyl-4,4'-diaminodiphenylmethane
4,4'-Methylenebis(2-chloroaniline)
2-Naphthylamine
4,4'-Oxydianiline
4,4'-Thiodianiline
o-Toluidine
2,4,5-Trimethylaniline
p-Aminoazobenzene
2-Aminobiphenyl
o-Anisidine
3-Chloro-*o*-toluidine

RAC-08 **$ 25 / 1 mL**
100 µg/mL each in Pyride

2,4-Diaminoanisole

EFSA for Isopropylthioxanthone (ITX)

Responding to the hazard found in Italy, France, Spain, and Portugal, AccuStandard has formulated Isopropylthioxanth-9-one (a photographical chemical) found in baby milk in Italy. The 2-isomer as well as the technical mixture also contains the 4-isomer.

2-Isopropylthioxanthone (ITX)

EFSA-ITX-01 **$ 45 / 1 x 1 mL**
1.0 mg/mL in Isooctane

2-Isopropylthioxanth-9-one

Isopropylthioxanthone (ITX) Mixed Isomers

EFSA-ITX-02 **$ 25 / 1 x 1 mL**
1.0 mg/mL in Isooctane

2- and 4- Isopropylthioxanth-9-one

Halo Acetic Acids

DIN 38407-25 Selected Halo Acetic Acids

DIN38407-25 **$ 45 / 1 x 1 mL**
10 µg/mL in MtBE 7 comps.

Bromochloroacetic acid
Dalapon
Dibromoacetic acid
Dichloroacetic acid
Bromoacetic acid
Chloroactic acid
Trichloroacetic acid

Pesticide Standards

The following Pesticide Standards are for German Regulations (for residue thresholds), Swiss Regulations (for components and contaminants in food), and DFG collected methods.

Pesticide / Congener Mix #1

AE-00010 **$ 64 / 1 x 1 mL**
AE-00010-10ML **$ 320 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 31 comps.

2,4,4'-Trichlorobiphenyl	1
2,2',5,5'-Tetrachlorobiphenyl	1
2,2',4,5,5'-Pentachlorobiphenyl	1
2,2',3,4,4',5'-Hexachlorobiphenyl	1
2,2',4,4',5,5'-Hexachlorobiphenyl	1
2,2',3,4,4',5,5'-Heptachlorobiphenyl	1
Aldrine	10
cis-Chlordane	10
trans-Chlordane	10
oxy-Chlordane	10
o,p'-DDD	10
p,p'-DDD	10
o,p'-DDE	10
p,p'-DDE	10
o,p'-DDT	10
p,p'-DDT	10
Dieldrine	10
Endosulfan I	10
Endosulfan II	10
Endrine	10
α-HCH	10
β-HCH	10
γ-HCH	10
δ-HCH	10
Heptachlor	10
cis-Heptachlorepoxide	10
trans-Heptachlorepoxide	10
Hexachlorbenzene	10
Isodrin	10
Methoxychlor	10
Mirex	10

Pesticide Mix #2

AE-00011 **$ 62 / 1 x 1 mL**
AE-00011-10ML **$ 310 / 1 x 10 mL**
10 µg/mL each in Toluene 22 comps.

Anilazine	Tecnacene
Captan	Tetradifon
Chlorthalonil	Tetrasul
Clorfenson	Tridiamefon
Dichlofluanid	Tridiamenol
Dicofol	Trifluarin
Endosulfane-sulfate	Pentachloroaniline
Fenson	Procymidon
Folpet	Propyzamid
Imazalil	Quintozen
Iprodion	Vinclozolin

Pesticide Mix #3

AE-00012 **$ 32 / 1 x 1 mL**
AE-00012-10ML **$ 160 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 10 comps.

Captafol	200
Captan	100
Demethon-S-methyl	500
Demethon-S-methyl-sulfone	500
Dicofol	200
Pentachlorophenol	100
Tetrachlorvinphos	10
Trichlorfon	100
Tolyfluanid	100
Vamidithion	200

Pesticide Mix #4

AE-00013 **$ 25 / 1 x 1 mL**
AE-00013-10ML **$ 125 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 5 comps.

Cyproconazole	500
Hexaconazole	500
Penconazole	500
Tebuconazole	500
Tetrachlorvinphos	10

Pesticide Mix #5

AE-00014 **$ 25 / 1 x 1 mL**
AE-00014-10ML **$ 125 / 1 x 10 mL**
At stated conc. (µg/mL) in Ethyl acetate 8 comps.

Atrazine	200
Cyanazine	200
Desmertryn	500
Metribuzin	500
Prometryne	500
Simazine	200
Terbutryn	500
Tetrachlorvinphos	10

Tetrachlorvinphos Surrogate / Internal Standard

AE-00047 **$ 20 / 1 x 1 mL**
1000 µg/mL in Acetonitrile

Tetrachlorvinphos

Pesticide Mix #6

AE-00015 **$ 30 / 1 x 1 mL**
AE-00015-10ML **$ 150 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 8 comps.

Chlorpyriphos-methyl	100
Diazinon	100
Ethion	100
Etrimfos	50
Iodofenphos	200
Malathion	100
Phosphamidon	200
Tetrachlorvinphos	10

Pesticide Mix #7

AE-00016 **$ 30 / 1 x 1 mL**
AE-00016-10ML **$ 150 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 8 comps.

Bromophos-methyl	100
Bromophos-ethyl	150
Fenitrothion	200
Methacryfos	150
Omethoate	150
Phosalone	100
Tetrachlorvinfos	10
Tolclofos-methyl	100

Pesticide Mix #8

AE-00017 **$ 25 / 1 x 1 mL**
AE-00017-10ML **$ 125 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene:Acetone:Hexane (18:1:1) 6 comps.

Chlorbufam	500
Chlorpropham	500
Dichlobenil	200
Imazalil	500
Pyrazon	500
2,3,5,6-Tetrachloronitrobenzene	100

Pesticide Mix #9

AE-00018 **$ 36 / 1 x 1 mL**
AE-00018-10ML **$ 180 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 9 comps.

Azinophos-ethyl	100
Fenchlorvos	100
Fonophos	150
Methidathion	100
Mevinphos	200
Parathion-ethyl	150
Parathion-methyl	100
Pirimiphos-methyl	100
Tetrachlorvinphos	10

Pesticide Mix #10

AE-00019 **$ 26 / 1 x 1 mL**
AE-00019-10ML **$ 130 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 7 comps.

Benalaxyl	500
Carbaryl	500
Oxadixyl	500
Terbuthylazine	250
Tetrachlorvinphos	10
Triadimefon	500
Triadimenol	500

Pesticide Standards continued on next page

Pesticide Standards

The following Pesticide Standards are for German Regulations (for residue thresholds), Swiss Regulations (for components and contaminants in food), and DFG collected methods.

Pesticide Mix #11

AE-00020 **$ 80 / 1 x 1 mL**
AE-00020-10ML **$ 400 / 1 x 10 mL**
10 µg/mL each in Toluene 19 comps.

Aldrin	β-HCH
Chloridazon	γ-HCH
o,p'-DDD	δ-HCH
p,p'-DDD	Heptachlor
o,p'-DDE	cis-Heptachlorepoxide
p,p'-DDE	trans-Heptachlorepoxide
o,p'-DDT	Hexachlorobenzene
p,p'-DDT	Tecnazene
Endrin	Tetrachlorvinphos
α-HCH	

Pesticide Mix #12

AE-00021 **$ 36 / 1 x 1 mL**
AE-00021-10ML **$ 180 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 9 comps.

Carbophenthion	100
Disulfoton	150
Fenthion	100
Methamidophos	100
Phorate	150
Phorate-sulfatone	100
Phorate-sulfone	150
Tetrachlorvinphos	10
Thiomethon	100

Pesticide Mix #13

AE-00022 **$ 30 / 1 x 1 mL**
AE-00022-10ML **$ 150 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 8 comps.

Chlorfenvinphos (CFVP)	100
Chlorpyriphos	100
Dichlorvos	100
Dimethoate	100
Heptenophos	100
Quinalphos	100
Tetrachlorvinphos	10
Triazophos	100

Pesticide Mix #14

AE-00023 **$ 34 / 1 x 1 mL**
AE-00023-10ML **$ 170 / 1 x 10 mL**
At stated conc. (µg/mL) in Toluene 10 comps.

Cyfluthrin	500
λ-Cyhalothrin	500
Cypermethrin	500
Deltamethrin	500
Dichloran	100
Fenvalerate	500
Pendimethalin	100
Permethrin	500
Tefluthrin	100
Tetrachlorvinphos	10

Regulations for drinking water and water used in food manufacturing, May 27, 1986, BGBI, I,S. 760.

Pesticide Mix #15

AE-00024 **$ 84 / 1 x 1 mL**
AE-00024-10ML **$ 420 / 1 x 10 mL**
0.02 µg/mL each in Ethyl acetate 33 comps.

Atrazine	Linuron
Bifenox	Pencycuron
Bromacil	Pendimethalin
Carbetamide	Prometryne
Chloridazo	Propazine
Chloroxuron	Metamitron
Chlorpropham	Metazachlor
Chlortoluron	Methabenzthiazuron
Crimidine	Methoprotryne
Cyanazine	Metobromuron
Desethylatrazine	Metolachlor
Desisopropylatrazine	Monolinuron
Desethylterbuthylazine	Sebuthylazin
Dimefuron	Simazine
Diuron	Terbutryn
Isoproturon	Terbuthylazine
Karbutilate	

Regulations for drinking water analysis, (E-DIN 38407-F-18, E-DIN 38414-F-21) Regulations for sediment and sludge.

Pesticide Mix #16

AE-00030 **$ 44 / 1 x 1 mL**
AE-00030-10ML **$ 220 / 1 x 10 mL**
10 µg/mL each in Ethyl acetate 20 comps.

Aldicarb	Lindane
Atrazine	MCPA *
Bentazone *	Mecoprop *
Chlortofuron	Metazachlor
Cyanazine	Metobromuron
2,4-D *	Metoxuron
Dichlorprop *	Sebuthylazin
1,3-Dichloropropene	Simazine
Endosulfan I	Terbuthylazine
Endosulfan II	
Isoproturon	

* Underivatized

Regulations - Test methods for organochlorine and organophosphorus compounds and pyrethroid Current Science and Technology, German Book of Medicine (1996).

Pesticide Mix #17

AE-00027 **$ 36 / 1 x 1 mL**
AE-00027-10ML **$ 180 / 1 x 10 mL**
10 µg/mL each in Toluene 14 comps.

Alachlor	Methyl pentachlorophenyl sulfide
Bromopropylate	Pentachloraniline
Carbophenothion	cis-Permethrin
Cypermethrin	trans-Permethrin
Deltamethrin	Piperonyl butoxide
Endosulfane sulfate	Pyrethrins
Fenvalerate	Quintozene

Pesticide Mix #18

AE-00028 **$ 40 / 1 x 1 mL**
AE-00028-10ML **$ 200 / 1 x 10 mL**
10 µg/mL each in Toluene 16 comps.

Azinphos-methyl	Ethyl parathion
Carbophenothion	Fenitrothion
Chlorfenvinphos	Fonofos
Chlorpyrifos-ethyl	Methyl parathion
Chlorpyrifos-methyl	Malathion
Diazinon	Methidathion
Dichlorphos	Phosalone
Ethion	Pirimiphos-methyl

Pesticide Mix #19

AE-00029 **$ 36 / 1 x 1 mL**
AE-00029-10ML **$ 180 / 1 x 10 mL**
10 µg/mL each in Toluene 13 comps.

Chlorpyrifos-methyl	Fenitrothion
p,p'-DDT	Lindane
Deltamethrin	Methyl parathion
Dichlorvos	Phosalone
Dieldrin	Quintozene
Endosulfan sulfate	Tecnazene
Ethion	

Pesticide Standards

Pesticide Mix #20
AE-00050 **$ 45 / 1 x 1 mL**
AE-00050-10ML **$ 125 / 1 x 10 mL**
10 µg/mL each in Ethyl acetate 20 comps.

Aldicarb	Isoproturon
Atrazine	γ-BHC
Bentazon	MCPA
Chlortoluron	MCPP acid
Cyanazine	Metazachlor
2,4-D	Metobromuron
Dichlorprop	Metoxuron
1,1-Dichloropropene	Sebutylazin
Endosulfan I	Simazine
Endosulfan II	Terbuthylazine

Pesticide Mix #20
Regulation DIN V 38407 Part 12 Method F12
AE-00031 **$ 45 / 1 x 1 mL**
AE-00031-10ML **$ 220 / 1 x 10 mL**
10 µg/mL each in Ethyl acetate 17 comps.

Atrazine	Metazachlor
Chlortoluron	Methabenzthiazuron
Cyanazine	Metobromuron
Desethyl atrazine	Metolachlor
Hexazinone	Metoxuron
Isoproturon	Monolinuron
Karmex	Sebuthylazin
Linuron	Simazine
	Terbuthylazine

Pesticide Mix #21
AE-00051 **$ 45 / 1 x 1 mL**
10 µg/mL each in Cyclohexane 16 comps.

Aldrin	Endrin
p,p'-DDD	Heptachlor
p,p'-DDE	Heptachlor epoxide (isomer B)
o,p'-DDT	Hexachlorobenzene
p,p'-DDT	α-BHC
Dieldrin	β-BHC
Endosulfan I	γ-BHC
Endosulfan II	Methoxychlor

Pesticide Mix #22
AE-00052 **$ 20 / 1 x 1 mL**
AE-00052-10ML **$ 100 / 1 x 10 mL**
10 µg/mL each in Acetonitrile 8 comps.

Atrazine	Metoxuron
Desethyl atrazine	Propazine
Bromacil	Simazine
Chloridazon	Terbuthylazine

Pesticide Mix #23
AE-00053 **$ 20 / 1 x 1 mL**
AE-00053-10ML **$ 100 / 1 x 10 mL**
10 µg/mL each in Acetonitrile 6 comps.

2,4-D	MCPA
2,4-DB	MCPB
Dichlorprop	MCPP acid

Pesticide Mix #24
AE-00054 **$ 20 / 1 x 1 mL**
AE-00054-10ML **$ 100 / 1 x 10 mL**
At stated conc. (µg/mL) in Cyclohexane 6 comps.

Aldrin	0.2	α-BHC	0.15
p,p'-DDT	0.4	γ-BHC	0.15
Dieldrin	0.3	Heptachlor	0.2

Pesticide Mix #25
AE-00055 **$ 20 / 1 x 1 mL**
AE-00055-10ML **$ 100 / 1 x 10 mL**
10 µg/mL each in Cyclohexane 4 comps.

α-BHC	γ-BHC
β-BHC	δ-BHC

Pesticide Mix #26
AE-00056 **$ 25 / 1 x 1 mL**
AE-00056-10ML **$ 125 / 1 x 10 mL**
1.0 µg/mL each in Cyclohexane 5 comps.

α-BHC	δ-BHC
β-BHC	ε-BHC
γ-BHC	

Pesticide Mix #27
AE-00057 **$ 40 / 1 x 1 mL**
AE-00057-10ML **$ 100 / 1 x 10 mL**
1.0 µg/mL each in Isooctane 13 comps.

α-BHC	p,p'-DDE
β-BHC	Dieldrin
γ-BHC	Endrin
δ-BHC	Heptachlor epoxide (isomer B)
o,p'-DDD	Methoxychlor
p,p'-DDD	Mirex
o,p'-DDE	

Regional Standards
European Methodologies

Pesticide Standards

ISO 6468 Pesticide Standard
Water quality determination of certain organochlorine insecticides, polychlorine biphenyls and chlorobenzenes by GC after liquid-liquid extraction.
ISO6468-PEST **$ 30 / 1 x 1 mL**
10 µg/mL each in n-Hexane 19 comps.

- α-BHC
- β-BHC
- γ-BHC
- δ-BHC
- o,p'-DDE
- p,p'-DDE
- o,p'-DDD
- p,p'-DDD
- o,p'-DDT
- p,p'-DDT
- Methoxychlor
- Aldrin
- Dieldrin
- Endrin
- Heptachlor
- Heptachlor epoxide (Isomer A)
- Heptachlor epoxide (Isomer B)
- Endosulfan I
- Endosulfan II

EN ISO 10695 Pesticide Mix
Water quality determination of selected organic nitrogen and phosphorous compound by GC.
ENISO10695-PEST **$ 50 / 1 x 1 mL**
10 µg/mL each in Acetone 12 comps.

- Atrazine
- Cyanazine
- Metazachlor
- Parathion
- Methyl parathion
- Pendimethalin
- Propazine
- Sebuthylazin
- Simazine
- Terbuthylazine
- Trifluralin
- Vinclozolin

DIN 38407-2 Pesticide Standard
Determination of water, waste water and sludge for low volatile halogenated hydrocarbons by GC.
DIN38407-2-PEST **$ 50 / 1 x 1 mL**
10 µg/mL each in n-Hexane 17 comps.

- Aldrin
- p,p'-DDD
- o,p'-DDE
- p,p'-DDE
- o,p'-DDT
- p,p'-DDT
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endrin
- Heptachlor
- Heptachlor epoxide (Isomer A)
- Heptachlor epoxide (Isomer B)
- α-BHC
- β-BHC
- γ-BHC
- Methoxychlor

EN ISO 11369 Pesticide Mix 20
Regulation DIN V 38407 Part 12 Method F12
AE-00031 **$ 45 / 1 x 1 mL**
AE-00031-10ML **$ 220 / 1 x 10 mL**
10 µg/mL each in Ethyl acetate 17 comps.

- Atrazine
- Chlortoluron
- Cyanazine
- Desethyl atrazine
- Hexazinone
- Isoproturon
- Karmex (Diuron)
- Linuron
- Metazachlor
- Methabenzthiazuron
- Metobromuron
- Metolachlor
- Metoxuron
- Monolinuron
- Sebuthylazin
- Simazine
- Terbuthylazine

DIN V 38407-11 Pesticide Mix
Scope: Determination of plant protection agents in water, wastewater and sludge.
DINV38407-11-PST **$ 55 / 1 x 1 mL**
DINV38407-11-PST-PAK **$ 220 / 5 x 1 mL**
5 µg/mL each in Acetonitrile 21 comps.

- Alachlor
- Atrazine
- Chlorfenvinphos
- Chlortoluron
- Cyanazine
- 2,4-D
- MCPA acid
- Metazachlor
- Metobromuron
- Metolachlor
- Metoxuron
- Monuron
- Parathion
- Pendimethalin
- Propazine
- Sebuthylazin
- Simazine
- 2,4,5-T
- Terbuthylazine
- Trifluralin
- Vinclozolin

DIN 38407-14 Methyl Esters Mix
Examination of water, wastewater and sludge for phenoxyalkyl carbonic acids by GC and MS detection after solid-liquid extraction and derivatization.
DIN38407-14-ME **$ 65 / 1 x 1 mL**
500 µg/mL each in n-Hexane 8 comps.

- Mecoprop methyl ester
- MCPA methyl ester
- Dichlorprop methyl ester
- 2,4-D methyl ester
- Fenoprop methyl ester
- MCPB methyl ester
- 2,4,5-T methyl ester
- 2,4-DB methyl ester

DIN 38407-22Glyphosate & AMPA
Examination of water, wastewater, and sludge for Glyphosate and Aminomethyl phosphonic acid (AMPA)
DIN38407-22 **$ 45 / 1 x 1 mL**
100 µg/mL each in Water 2 comps.

- Glyphosate
- Aminomethylphosphonic acid

Pesticide Mix 16
Regulations for drinking water analysis, (E-DIN 38407-F-18, E-DIN 38414-F-21) Regulations for sediment and sludge.
AE-00030 **$ 44 / 1 x 1 mL**
AE-00030-10ML **$ 220 / 1 x 10 mL**
10 µg/mL each in Ethyl acetate 20 comps.

- Aldicarb
- Atrazine
- Bentazone *
- Chlortoluron
- Cyanazine
- 2,4-D *
- Dichlorprop *
- 1,3-Dichloropropene
- Endosulfan I
- Endosulfan II
- Isoproturon
- Lindane
- MCPA *
- Mecoprop *
- Metazachlor
- Metobromuron
- Metoxuron
- Sebuthylazine
- Simazine
- Terbuthylazine

* Underivatized

DIN 38407-14 Acid Mix
Examination of water, wastewater and sludge for phenoxyalkyl carbonic acids by GC and MS detection after solid-liquid extraction and derivatization.
DIN38407-14-ACID **$ 55 / 1 x 1 mL**
500 µg/mL each in n-Hexane 8 comps.

- Mecoprop acid
- MCPA acid
- Dichlorprop acid
- 2,4-D acid
- Fenoprop acid
- MCPB acid
- 2,4,5-T acid
- 2,4-DB acid

Phenols & Derivatives

DIN EN 12673 Chlorophenols
Scope: Determination of selected chlorophenols in water by GC
DINEN-12673 **$ 40 / 1 x 1 mL**
At stated conc. (µg/mL) in Ethanol 19 comps.

2-Chlorophenol	30	2,3,5-Trichlorophenol	3
3-Chlorophenol	30	2,3,6-Trichlorophenol	3
4-Chlorophenol	30	2,4,5-Trichlorophenol	3
2,3-Dichlorophenol	4	2,4,6-Trichlorophenol	3
2,4-Dichlorophenol	4	3,4,5-Trichlorophenol	3
2,5-Dichlorophenol	4	2,3,4,5-Tetrachlorophenol	2
2,6-Dichlorophenol	4	2,3,4,6-Tetrachlorophenol	2
3,4-Dichlorophenol	4	2,3,5,6-Tetrachlorophenol	2
3,5-Dichlorophenol	4	Pentachlorophenol	1
2,3,4-Trichlorophenol	3		

DIN EN ISO 17495 Nitrophenols
Scope: determination of selected nitrophenols by solid-phase extraction and gas chromatography with mass spectrometric detection.
DINENISO-17495 **$ 50 / 1 x 1 mL**
500 µg/mL each in Acetone 14 comps.

- 2,4-Dinitrophenol
- 2,5-Dinitrophenol
- 2,6-Dinitrophenol
- 2-Methyl-4,6-dinitrophenol
- 2,6-Dimethyl-4-nitrophenol
- 2,4-Dichlor-6-nitrophenol
- 2,6-Dichlor-4-nitrophenol
- 2-Nitrophenol
- 3-Nitrophenol
- 4-Nitrophenol
- 4-Methyl-2-nitrophenol
- 3-Methyl-4-nitrophenol
- 5-Methyl-2-nitrophenol
- 3-Methyl-2-nitrophenol

ENISO 9377 Hydrocarbon in Oil

Diesel #2/Mineral Oil Standard
ENISO9377-2-1 **$ 25 / 1 x 1 mL**
10000 µg/mL total hydrocarbons in Hexane 2 comps.

#2 Diesel Fuel	(5000 µg/mL)
Mineral Oil	(5000 µg/mL)

Quality Control Standard Mix
ISO/DIS9377-4-1 **$ 25 / 1 x 1 mL**
1000 µg/mL total hydrocarbons in Acetone 2 comps.

#2 Diesel Fuel	(500 µg/mL)
Mineral Oil	(500 µg/mL)

Extraction Solvent Stock Solution
ENISO9377-2-3 **$ 25 / 1 x 5 mL**
At stated conc. in Hexane 2 comps.

n-Decane	(20 µl/L)
n-Tetracontane	(20 mg/L)

System Performance Standard of n-alkanes
ENISO9377-2-2 **$ 45 / 1 x 1 mL**
50 µg/mL each in Hexane 16 comps.

n-Decane	n-Hexacosane
n-Dodecane	n-Octacosane
n-Tetradecane	n-Triacontane
n-Hexadecane	n-Dotriacontane
n-Octadecane	n-Tetratriacontane
n-Eicosane	n-Hexatriacontane
n-Docosane	n-Octatriacontane
n-Tetracosane	n-Tetracontane

Stearyl Stearate Test Solution
ISO/DIS9377-4-2 **$ 45 / 1 x 10 mL**
2000 µg/mL in Cyclohexane

Stearyl stearate

ISO/DIS 9377-4 Standard Mix Stock Solution
TPH-006-10X **$ 35 / 1 x 1 mL**
TPH-006-10X-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
5000 µg/mL each in Cyclohexane 2 comps.

#2 Diesel fuel
Mineral oil

Florisil Cartridge QC Standard Mix
ENISO9377-2-4 **$ 40 / 1 x 10 mL**
2000 µg/mL total hydrocarbons in Hexane 2 comps.

#2 Diesel Fuel	(1000 µg/mL)
Mineral Oil	(1000 µg/mL)

European Equivalents of Alcohol Oxidation Products in Automotive Engine Exhaust by HPLC of DNPH Derivatives

Carbonyl-DNPH Mix #1
AE-00043 **$ 45 / 1 x 1 mL**
20 µg/mL each in Acetonitrile 13 comps.

Acetaldehyde-DNPH	Formaldehyde-DNPH (40 µg/mL)
Acetone-DNPH	Hexanal-DNPH
Acrolein-DNPH	Methacrolein-DNPH
Benzaldehyde-DNPH	Propionaldehyde-DNPH
Butanonal-DNPH	*p*-Tolualdehyde-DNPH
Methyl ethyl ketone-DNPH	Valeraldehyde-DNPH
Crotonaldehyde-DNPH	

Cyclohexanone
AE-00046 **$ 20 / 1 x 1 mL**
500 µg/mL in Acetonitrile

Cyclohexanone-DNPH

Carbonyl-DNPH Mix #2
AE-00044 **$ 45 / 1 x 1 mL**
2 µg/mL each in Acetonitrile 14 comps.

Acetaldehyde-DNPH	Cyclohexanone-DNPH (5 µg/mL)
Acetone-DNPH	Formaldehyde-DNPH (4 µg/mL)
Acrolein-DNPH	Hexanal-DNPH
Benzaldehyde-DNPH	Methacrolein-DNPH
Butanone-DNPH	Propionaldehyde-DNPH
n-Butyraldehyde-DNPH	*p*-Tolualdehyde-DNPH
Crotonaldehyde-DNPH	Valeraldehyde-DNPH

Japan Ministry of Health and Welfare Standards

Volatile Organic Solution

JMHW-001 **$ 50 / 1 x 1 mL**
JMHW-001-PAK *SAVE 20%* **$ 200 / 5 x 1 mL**
1000 µg/mLeach in MeOH 23 comps.

Benzene
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chloroform
Dibromochloromethane
1,4-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Dichloromethane
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Tetrachloroethene
Toluene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
m-Xylene
o-Xylene
p-Xylene

Volatile Organic Solution

JMHW-002 **$ 25 / 1 x 1 mL**
JMHW-002-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
2000 µg/mL each in MeOH 16 comps.

Benzene
Bromodichloromethane
Bromoform
Carbon tetrachloride
Chloroform
Dibromochloromethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
Dichloromethane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Tetrachloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene

Method of Interests

Japanese Methods JIS-K0311 and JIS-K0312
See EPA Method 1613 Dioxins & Furans which can be used for EPA Method 23, 8280, 8290 and EU Method EN-1948

Volatile Organic Solution B

JMHW-003 **$ 20 / 1 x 1 mL**
JMHW-003-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
2000 µg/mL each in MeOH 7 comps.

1,4-Dichlorobenzene
trans-1,2-Dichloroethene
1,2-Dichloropropane
Toluene
m-Xylene
o-Xylene
p-Xylene

Tuning Solution/Surrogate Standard Mixture

CLP-004-100X **$ 10 / 1 x 1 mL**
CLP-004-100X-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
2.5 mg/mL in MeOH

p-Bromofluorobenzene

Japan Environmental Agency Standards

Volatile Organic Solution

JEAM-001 **$ 25 / 1 x 1 mL**
JEAM-001-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
1000 µg/mL each in MeOH 12 comps.

Benzene
Carbon Tetrachloride
1,1-Dichloroethene
cis-1,2-Dichloroethene
Dichloromethane
1,2-Dichloroethane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Tetrachloroethene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene

Method Aldehydes as DNPH Derivatives

JEAM-002 **$ 30 / 1 x 1 mL**
JEAM-002-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
100 µg/mL each in Ethyl acetate 6 comps.

Acetaldehyde-DNPH
Butyraldehyde-DNPH
Isobutyraldehyde-DNPH
Isovaleraldehyde-DNPH
Propionaldehyde-DNPH
Pentanal-DNPH

Internal Standard

M-524-IS **$ 20 / 1 x 1 mL**
M-524-IS-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH 2 comps.

1,2-Dichlorobenzene-d_4
Fluorobenzene

Drinking Water Odor Standard

ODOR-JDWOS **$ 80 / 1 x 1 mL**
100 µg/mL each in MeOH 2 comps.

(+/-) Geosmin
2-methylisoborneol

Korean Drinking Water Regulations Standards

VOC Mix A

KDWR-001 **$ 25 / 1 x 1 mL**
KDWR-001-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
100 µg/mL each in MeOH 15 comps.

Benzene
Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Ethylbenzene
Dichloromethane
Phenol
Tetrachloroethene
Toluene
1,1,1-Trichloroethane
Trichloroethene
m-Xylene
p-Xylene
o-Xylene

VOC Mix B

KDWR-002 **$ 25 / 1 x 1 mL**
KDWR-002-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
100 µg/mL each in MeOH 8 comps.

Bromodichloromethane
Bromoform
Chloroform
Dibromochloromethane
Dichloromethane
Tetrachloroethene
1,1,1-Trichloroethane
Trichloroethene

Pesticide Mix

KDWR-003 **$ 30 / 1 x 1 mL**
KDWR-003-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
1000 µg/mL each in MeOH 5 comps.

Carbaryl
Diazinon
Fenitrothion
Malathion
Parathion

California Methods

California Air Resources Board Method 1004 Carbonyl Compounds as DNPH derivatives by HPLC

M-1004 **$ 25 / 1 x 1 mL**
At stated conc. in AcCN 13 comps.
M-1004-10X **$ 35 / 1 x 1 mL**
At 10 times the stated conc. in AcCN 13 comps.

Carbonyl Compound		DNPH Derivative
Acetaldehyde	3.0 µg/mL	15.3 µg/mL
Acetone	3.0 µg/mL	12.3 µg/mL
Acrolein	3.0 µg/mL	12.7 µg/mL
Benzaldehyde	3.0 µg/mL	8.1 µg/mL
2-Butanone *(MEK)*	3.0 µg/mL	10.5 µg/mL
n-Butyraldehyde	3.0 µg/mL	10.5 µg/mL
Crotonaldehyde	3.0 µg/mL	10.7 µg/mL
Formaldehyde	3.0 µg/mL	21.0 µg/mL
Hexanal	3.0 µg/mL	8.4 µg/mL
Methacrolein	3.0 µg/mL	10.7 µg/mL
Propionaldehyde	3.0 µg/mL	12.3 µg/mL
m-Tolualdehyde	3.0 µg/mL	7.5 µg/mL
Valeraldehyde	3.0 µg/mL	9.3 µg/mL

CAR-DNPH **$ 20 / 1 x 1 mL**
At stated conc. in AcCN as DNPH derivatives 7 comps.

Acetaldehyde-DNPH	1000 µg/mL	Butyraldehyde-DNPH	500 µg/mL
Acetone-DNPH	500 µg/mL	Formaldehyde-DNPH	1500 µg/mL
Acrolein-DNPH	500 µg/mL	Propionaldehyde-DNPH	500 µg/mL
Benzaldehyde-DNPH	500 µg/mL		

Reference Gas Oil Sample

RGS-001 **$ 20 / 1 x 1 mL**

Hydrocarbon Mixture *(boiling point range 250-850°F)*

California Method 750-M Standard

BDE-CALEWS **$ 600 / 1 x 1 mL**
10 µg/mL each in Isooctane 13 comps.

2,2',4-Tribromodiphenyl ether (#17)
2,4,4'-Tribromodiphenyl ether (#28)
2,2',4,4'-Tetrabromodiphenyl ether (#47)
2,3',4,4'-Tetrabromodiphenyl ether (#66)
2,3',4',6-Tetrabromodiphenyl ether (#71)
2,2',4,4',5-Pentabromodiphenyl ether (#99)
2,2',4,4',6-Pentabromodiphenyl ether (#100)
2,2',3,4,4',5'-Hexabromodiphenyl ether (#138)
2,2',4,4',5,5'-Hexabromodiphenyl ether (#153)
2,2',4,4',5,6'-Hexabromodiphenyl ether (#154)
2,2',3,4,4',5',6-Heptabromodiphenyl ether (#183)
2,2',3,3',4,4',5,5',6,6'-Decabromodiphenyl ether (#209)
2,2',6,6'-Tetrabromobisphenol A

Florida Methods PAH by HPLC

Z-014G-FL **$ 85 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:Benzene 18 comps.

Acenaphthene	Dibenz[a,h]anthracene
Acenaphthylene	Fluoranthene
Anthracene	Fluorene
Benz[a]anthracene	Indeno[1,2,3-cd]pyrene
Benzo[a]pyrene	Naphthalene
Benzo[b]fluoranthene	Phenanthrene
Benzo[g,h,i]perylene	Pyrene
Benzo[k]fluoranthene	1-Methylnaphthalene
Chrysene	2-Methylnaphthalene

Performance Check Solution

M-610-QC-FL **$ 35 / 1 x 1 mL**
M-610-QC-FL-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
At stated conc. in AcCN 18 comps.

Acenaphthene	(0.1 mg/mL)	Dibenz[a,h]anthracene	(0.01 mg/mL)
Acenaphthylene	(0.1 mg/mL)	Fluoranthene	(0.01 mg/mL)
Anthracene	(0.1 mg/mL)	Fluorene	(0.1 mg/mL)
Benz[a]anthracene	(0.01 mg/mL)	Indeno[1,2,3-cd]pyrene	(0.01 mg/mL)
Benzo[a]pyrene	(0.01 mg/mL)	1-Methyl naphthalene	(0.1 mg/mL)
Benzo[b]fluoranthene	(0.01 mg/mL)	2-Methyl naphthalene	(0.1 mg/mL)
Benzo[g,h,i]perylene	(0.01 mg/mL)	Naphthalene	(0.1 mg/mL)
Benzo[k]fluoranthene	(0.005 mg/mL)	Phenanthrene	(0.1 mg/mL)
Chrysene	(0.01 mg/mL)	Pyrene	(0.01 mg/mL)

Matrix Spiking Solution

M-610-MS **$ 30 / 1 x 1 mL**
M-610-MS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in AcCN 6 comps.

Benz[a]pyrene	(0.5 mg/mL)	2-Methylnaphthalene	(5.0 mg/mL)
Chrysene	(0.5 mg/mL)	Phenanthrene	(0.5 mg/mL)
1-Methylnaphthalene	(5.0 mg/mL)	Pyrene	(0.5 mg/mL)

PAH Mix Additions

H-001S/002S-M-20X **$ 30 / 1 x 1 mL**
1.0 mg/mL each in MeOH 2 comps.

1-Methyl naphthalene	2-Methyl naphthalene

Polynuclear Aromatic Hydrocarbons (HPLC)

M-8310-FL **$ 50 / 1 x 1 mL**
M-8310-FL-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
0.5 mg/mL each in AcCN 18 comps.
M-8310-FL-SET **$ 360 / 18 x 1 mL**

Acenaphthene	M-8310-FL-01	$ 20
Acenaphthylene	M-8310-FL-02	20
Anthracene	M-8310-FL-03	20
Benzo[a]anthracene	M-8310-FL-04	25
Benzo[a]pyrene	M-8310-FL-05	25
Benzo[b]fluoranthene	M-8310-FL-06	30
Benzo[g,h,i]perylene	M-8310-FL-07	30
Benzo[k]fluoranthene	M-8310-FL-08	30
Chrysene	M-8310-FL-09	25
Dibenz[a,h]anthracene	M-8310-FL-10	20
Fluoranthene	M-8310-FL-11	20
Fluorene	M-8310-FL-12	20
Indeno[1,2,3-cd]pyrene	M-8310-FL-13	35
1-Methylnaphthalene	M-8310-FL-14	20
2-Methylnaphthalene	M-8310-FL-15	20
Naphthalene	M-8310-FL-16	20
Phenanthrene	M-8310-FL-17	20
Pyrene	M-8310-FL-18	20

Polynuclear Aromatic Hydrocarbons (HPLC)

M-8310-QC-ATI **$ 55 / 1 x 1 mL**
M-8310-QC-ATI-PAK ***SAVE 20%*** **$ 220 / 5 x 1 mL**
At stated conc. in AcCN 18 comps.

Acenaphthene	(1000 µg/mL)	Dibenz[a,h]anthracene	(200 µg/mL)
Acenaphthylene	(2000 µg/mL)	Fluoranthene	(200 µg/mL)
Anthracene	(100 µg/mL)	Fluorene	(200 µg/mL)
Benz[a]anthracene	(100 µg/mL)	Indeno[1,2,3-cd]pyrene	(100 µg/mL)
Benzo[a]pyrene	(100 µg/mL)	1-Methylnaphthalene	(1000 µg/mL)
Benzo[b]fluoranthene	(200 µg/mL)	2-Methylnaphthalene	(1000 µg/mL)
Benzo[g,h,i]perylene	(200 µg/mL)	Naphthalene	(1000 µg/mL)
Benzo[k]fluoranthene	(100 µg/mL)	Phenanthrene	(100 µg/mL)
Chrysene	(100 µg/mL)	Pyrene	(100 µg/mL)

Minnesota Method 465-D

List of Volatiles

Liquids

M-502A-R **$ 60 / 1 x 1 mL**
M-502A-R-PAK ***SAVE 20%*** **$ 240 / 5 x 1 mL**
0.2 mg/mL each in MeOH 54 comps.

Benzene (01)
Bromobenzene (02)
Bromochloromethane (03)
Bromodichloromethane (04)
Bromoform (05)
n-Butylbenzene (07)
sec-Butylbenzene (08)
tert-Butylbenzene (09)
Carbon tetrachloride (10)
Chlorobenzene (11)
Chloroform (13)
2-Chlorotoluene (15)
4-Chlorotoluene (16)
Dibromochloromethane (17)
1,2-Dibromo-3-chloropropane (18)
1,2-Dibromoethane (19)
Dibromomethane (20)
1,2-Dichlorobenzene (21)
1,3-Dichlorobenzene (22)
1,4-Dichlorobenzene (23)
1,1-Dichloroethane (25)
1,2-Dichloroethane (26)
1,1-Dichloroethene (27)
cis-1,2-Dichloroethene (28)
trans-1,2-Dichloroethene (29)
1,2-Dichloropropane (30)
1,3-Dichloropropane (31)
2,2-Dichloropropane (32)
1,1-Dichloropropene (33)
cis-1,3-Dichloropropene (34A) *
trans-1,3-Dichloropropene (34B) **
Ethylbenzene (35)
Hexachlorobutadiene (36)
Isopropylbenzene *(Cumene)* (37)
p-Isopropyltoluene *(p-Cymene)* (38)
Methylene chloride (39)
Naphthalene (40)
n-Propylbenzene (41)
Styrene (42)
1,1,1,2-Tetrachloroethane (43)
1,1,2,2-Tetrachloroethane (44)
Tetrachloroethene (45)
Toluene (46)
1,2,3-Trichlorobenzene (47)
1,2,4-Trichlorobenzene (48)
1,1,1-Trichloroethane (49)
1,1,2-Trichloroethane (50)
Trichloroethene (51)
1,2,3-Trichloropropane (53)
1,2,4-Trimethylbenzene (54)
1,3,5-Trimethylbenzene (55)
o-Xylene (57)
m-Xylene (58)
p-Xylene (59)

* cis (1.06 x conc.) (34A)
** trans (0.94 x conc.) (34B)

Gases

M-465B-10X **$ 25 / 1 x 1 mL**
M-465B-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
0.2 mg/mL each in MeOH 7 comps.

Bromomethane
Chloroethane
Chloromethane
Dichlorodifluoromethane
Dichlorofluoromethane
Trichlorofluoromethane
Vinyl chloride

M-465D-ADD-R ❄ **$ 30 / 1 x 1 mL**
0.2 mg/mL each in MeOH 8 comps.

Acetone
Allyl chloride
Ethyl ether
Methyl ethyl ketone
Methyl isobutyl ketone
Methyl-t-butyl ether
Tetrahydrofuran
Trichlorotrifluoroethane

❄ To delay premature breakdown of thermally labile products in transit we suggest shipping with a "ColdPAK"

Method 465-D Volatiles Set

M-465D-SET **$ 75 / 3 x 1 mL**
(M-502A-R, M-465B-10X, M-465D-ADD-R)
M-465D-SET-PAK ***SAVE 20%*** **$ 300 / 5 x (3 x 1 mL)**

Pesticides & Herbicides

List 1 - Pesticide Standard

MDA-PEST-01-R1 **$ 105 / 1 x 1 mL**
MDA-PEST-01-R1-PAK ***SAVE 20%*** **$ 420 / 5 x 1 mL**
500 µg/mL each in CH_2Cl_2 22 comps.

Acetochlor
Alachlor
Atrazine
Atrazine-desisopropyl
Cyanazine
Desethyl atrazine
Dimethenamid
Dursban
Dyfonate
EPTC
Ethalfluralin
Metolachlor
Metribuzin
Pendimethalin
Phorate
Propachlor
Prometon
Propazine
Simazine
Terbufos
Triallate
Trifluralin

P-088S-10X **$ 24 / 1 x 1 mL**
100 µg/mL in MeOH

Butylate

List 2 - Herbicide Acids Standards

MDA-HERB-01 **$ 60 / 1 x 1 mL**
At stated conc. in Acetone 9 comps.

2,4-D	(0.1 mg/mL)	Dicamba	(0.1 mg/mL)
2,4-DB	(0.1 mg/mL)	MCPA	(10 mg/mL)
2,4,5-T	(0.1 mg/mL)	Picloram	(0.1 mg/mL)
Silvex	(0.1 mg/mL)	Triclopyr	(0.1 mg/mL)
Bentazon	(0.1 mg/mL)		

Technical Note

This expanded analyte list for Method 465-D contains all the analytes in one multi-component standard, at a high concentration. This eliminates the need to combine more than one standard to cover the complete analyte list. The "Butylate" pesticide in conjunction with the MDA Method 465 formulation has all the required analytes for the Wisconsin DATCP pesticide program. Since many labs perform work in both Minnesota and Wisconsin, a single calibration curve can be used to monitor analytes covered by both methods.

Wisconsin DNR VOC Mixture

S-989 **$ 100 / 1 x 1 mL**
2.0 mg/mL each in MeOH 52 comps.

Benzene
Bromobenzene
Bromodichloromethene
n-Butylbenzene
sec-Butylbenzene
tert-Butylbenzene
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
4-Chlorotoluene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,2-Dichloropropane
1,3-Dichloropropane
2,2-Dichloropropane
Diisopropyl ether
Ethylbenzene
Hexachlorobutadiane
Isopropylbenzene
p-Isopropyltoluene
Methylene chloride
Methyl tert-butyl ether
Naphthalene
n-Propylbenzene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Toluene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
o-Xylene
m-Xylene
p-Xylene

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Methods Other Than EPA
Nonylphenol and Octylphenol Ethoxylates

Nonylphenols (NPs) have been known to disrupt endocrine function and sexual development in aquatic organisms. Environmental exposure occurs from breakdown products of the industrially important alkylphenol (poly)ethoxylates (APEs). Due to the outstanding surfactant properties of APEs they have been produced from NP in large quantities and used in detergents and cleaning products as well as emulsifiers in paints, pesticides, and textiles. Ninety percent of the APEs produced are nonylphenol ethoxylates (NPEs). Octylphenol ethoxylates are less commonly used.

The US EPA is working collaboratively with ASTM to develop and validate an analytical method for NPs and APEs. Under its plan, the US EPA will add nonylphenols (NPs) and nonylphenol ethoxylates (NPEs) to the Toxic Release Inventory thus requiring companies to report their discharge of the substances into water, air, or land. Some U.S. corporations have recognized the dangers of NPEs and voluntarily eliminated NPEs in their products.

The European Union and Canada have already banned the use of NPEs in detergents. According to the European Union's Directive 76/769/EEC, the use of these compounds is restricted.

ASTM D7065-06 4-tert-Octylphenol, 4-Nonylphenol and their Tech Equivalents, Mono and Multi-Ethoxylates

Nonylphenol Calibration Standard Solution

M-1626 — **$ 95 / 1 x 1 mL**
At stated conc. in CH_2Cl_2 — 7 comps.

Nonylphenol	(160 µg/mL)
Nonylphenol monoethoxylate	(320 µg/mL)
Nonylphenol diethoxylate	(640 µg/mL)
4-tert-Octylphenol	(32 µg/mL)
Bisphenol A (BPA)	(32 µg/mL)
4-Nonylphenol	(32 µg/mL)
4-Nonylphenol monoethoxylate	(32 µg/mL)

Nonylphenol Internal Standard

M-1626-IS — **$ 40 / 1 x 1 mL**
2000 µg/mL each in CH_2Cl_2 — 2 comps.

Acenaphthene-d_{10} Phenanthrene-d_{10}

Nonylphenol Target Component Spike Standard

M-1626-S — **$ 35 / 1 x 1 mL**
At stated conc. in MeOH — 5 comps.

Nonylphenol	(160 µg/mL)
Nonylphenol monoethoxylate	(320 µg/mL)
Nonylphenol diethoxylate	(640 µg/mL)
4-tert-Octylphenol	(32 µg/mL)
Bisphenol A	(32 µg/mL)

Nonylphenol Surrogate Component Spike Standard

M-1626-SS — **$ 45 / 1 x 1 mL**
32 µg/mL each in MeOH — 2 comps.

4-Nonylphenol 4-Nonylphenol monoethoxylate

M-1626-01S — **$ 20 / 1 x 1 mL**
1000 µg/mL in MeOH

Bisphenol A (BPA)

ASTM D7485

Nonylphenols in Environmental Water Set

D-7485-SET — **$ 265 / 5 x 1 mL**
*2500 µg/mL each in AcCN:MeOH(9:1), * except (1:1)* — 7 comps.

Nonylphenol	D-7485-1 *	**$ 20 /** 1 mL
Nonylphenol monoethoxylate	D-7485-2	**$ 110 /** 1 mL
Nonylphenol diethoxylate	D-7485-3	**$ 110 /** 1 mL
Octylphenol	D-7485-4	**$ 20 /** 1 mL
2-Bromo-4-(1,1,3,3-tetramethylbutyl)phenol	D-7485-09-SS	**$ 75 /** 1 mL

Storage Refrig (0-5°C)

Alkyl-Phenol-Metabolites

Compound	CAS No.	100 µg/mL in MeOH Cat. No.	Price / 1 mL
Tech Grades			
Nonylphenol (tech)	84852-15-3	PEO-002S	$ 15
Nonylphenol monoethoxylate (tech)	68412-54-4	PEO-005S	60
Nonylphenol diethoxylate (tech)		PEO-006S	60
Nonylphenol triethoxylate (tech)		PEO-008S	95
Nonylphenoxy acetic acid (tech)	3115-49-9	PEO-009S	125
Nonylphenoxyethoxyacetic acid (tech)		PEO-012S	125
4-n-Nonylphenol	104-40-5	PEO-004S	60
4-n-Nonylphenol monoethoxylate	104-35-8	PEO-007S	125
4-n-Nonylphenol diethoxylate	20427-84-3	PEO-014S	125
4-tert-Octylphenol	140-66-9	PEO-003S	15
4-tert-Octylphenol monoethoxylate		PEO-010S	75
4-tert-Octylphenol diethoxylate		PEO-011S	75
4-tert-Octylphenol triethoxylate		PEO-013S	75
4-n-Octylphenol	1806-26-4	PEO-001S	40
4-n-Octylphenol monoethoxylate	51437-89-9	PEO-016S	75
4-n-Octylphenol diethoxylate	51437-90-2	PEO-017S	75
4-n-Octylphenol triethoxylate		PEO-018S	75
2-Bromo-4-tert-octylphenol (Internal Standard)		PEO-015S-IS	75



Methods Other Than EPA
USP 467 VOCs, F-List Hazardous Waste

Method USP 467 VOCs from Stack Gas Effluents

USP/National Formulary VOC Mixtures

NF-467 **$ 20 / 1 x 1 mL**
NF-467-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in MeOH 5 comps.

Benzene	(200 µg/mL)	Methylene chloride	(200 µg/mL)
Chloroform	(100 µg/mL)	Trichloroethene	(200 µg/mL)
1,4-Dioxane	(200 µg/mL)		

NF-467-R **$ 20 / 1 x 1 mL**
NF-467-R-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in DMSO 6 comps.

Benzene	(200 µg/mL)	Ethylene oxide	(20 µg/mL)
Chloroform	(100 µg/mL)	Methylene chloride	(200 µg/mL)
1,4-Dioxane	(200 µg/mL)	Trichloroethene	(200 µg/mL)

NF-467-R3 **$ 25 / 1 x 1 mL**
NF-467-R3-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in MeOH 5 comps.

Benzene	(2 µg/mL)	Dichloromethane	(600 µg/mL)
Chloroform	(60 µg/mL)	Trichloroethene	(80 µg/mL)
p-Dioxane	(380 µg/mL)		

NF-467-R4 **$ 25 / 1 x 1 mL**
NF-467-R4-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in Dimethyl sulfoxide 5 comps.

Benzene	(2 µg/mL)	Dichlorometane	(600 µg/mL)
Chloroform	(60 µg/mL)	Trichloroethene	(80 µg/mL)
p-Dioxane	(380 µg/mL)		

NF-467-R6 **$ 20 / 1 x 1 mL**
NF-467-R6-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in Dimethyl sulfoxide 5 comps.

Benzene	(100 µg/mL)	Dichlorometane	(500 µg/mL)
Chloroform	(50 µg/mL)	Trichloroethene	(100 µg/mL)
p-Dioxane	(100 µg/mL)		

F-List Hazardous Waste from Non-Specific Sources

F001 & F002 Solvent List Components

FL-0102 **$ 25 / 1 x 1 mL**
2.0 mg/mL each in MeOH 10 comps.

Carbon tetrachloride	1,1,1-Trichloroethane
Chlorobenzene	1,1,2-Trichloroethane
1,2-Dichlorobenzene	Trichloroethene
Methylene chloride	1,1,2-Trichloro-1,2,2-trifluoroethane
Tetrachloroethene	Trichlorofluoromethane

F003 List Components (excluding MeOH as analyte)

FL-0003 **$ 25 / 1 x 1 mL**
2.0 mg/mL in MeOH 10 comps.

Acetone	Ethyl ether
n-Butanol	Methyl isbutyl ketone
Cyclohexanone	*m*-Xylene
Ethyl acetate	*o*-Xylene
Ethylbenzene	*p*-Xylene

Additional Alcohol Solvents

FL-OADD **$ 15 / 1 x 1 mL**
2.0 mg/mL each in H_2O 3 comps.

Ethanol	Methanol
Isopropanol	

F004 List Component Mixes

FL-0004-CR **$ 20 / 1 x 1 mL**
2.0 mg/mL in MeOH 3 comps.

m-Cresol	*p*-Cresol
o-Cresol	

FL-0004-CA **$ 15 / 1 x 1 mL**
2.0 mg/mL in MeOH

Cresylic acid (technical mixture of phenol, cresols & xylenes)

F005 List Components (includes Nitrobenzene)

FL-0005-NB **$ 25 / 1 x 1 mL**
2.0 mg/mL each in MeOH 9 comps.

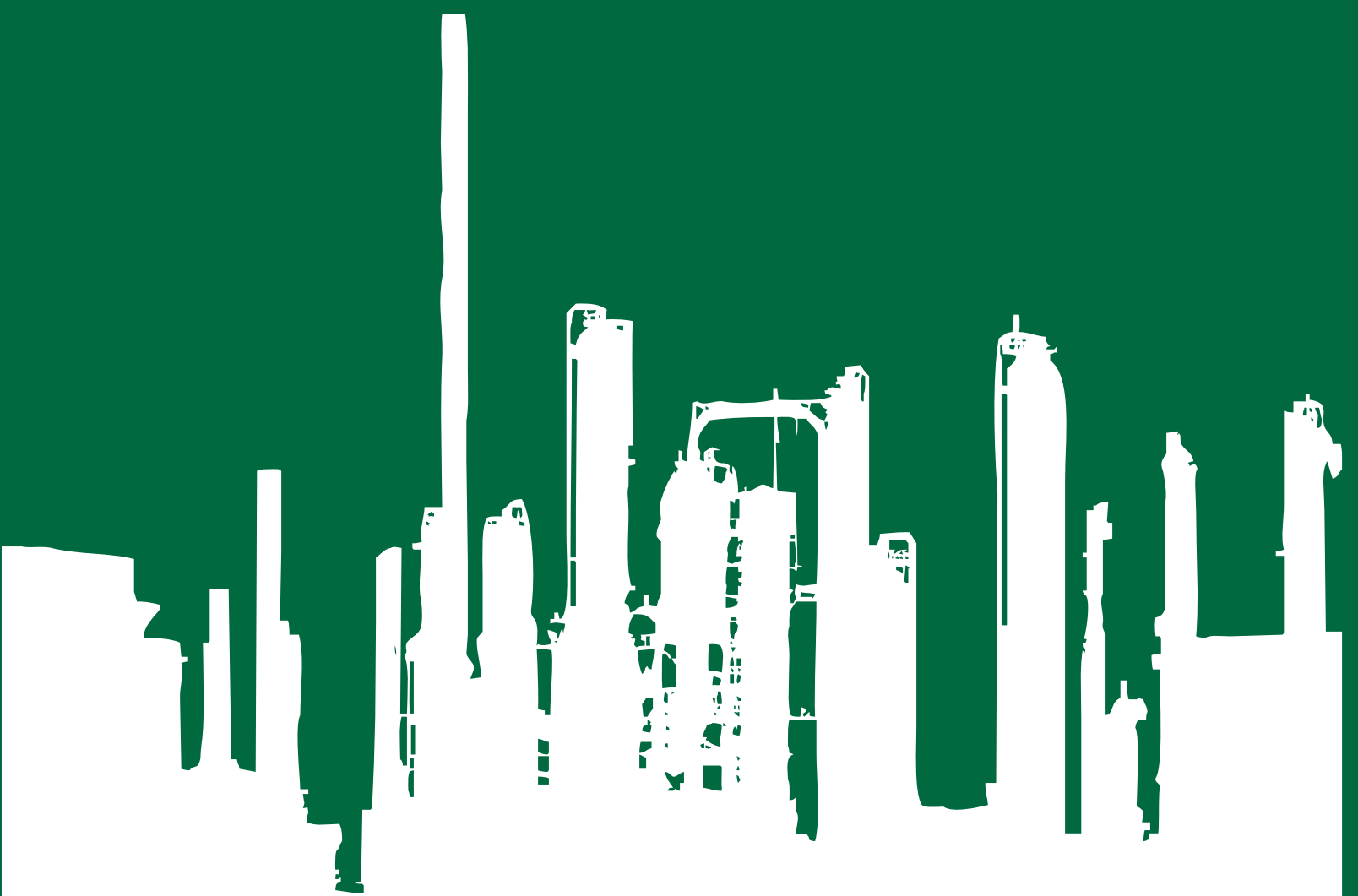
Benzene	Nitrobenzene
Carbon disulfide	2-Nitropropane
2-Ethoxyethanol	Pyridine
Isobutanol	Toluene
Methyl ethyl ketone	



PetroChemical Standards

- This selection of Biofuel reference standards. Includes FAMEs & FAEEs from most popular biomasses, sulfurs, physical standards, wear metals, and free & total glycerin.
- Reference standards to meet the most common UOP LLC (a Honeywell company) methods.
- Reference standards for over 100 ASTM methods plus cross references to ISO, DIN, IP, JIS & AFNOR methods see page 273.

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Sulfur Standards Group

D2622	Sulfur by XRF
D3120	Sulfur by Oxidative Microcoulometry
D3246	Sulfur in Petro Gas by Oxidative Microcoulometry
D4294	Sulfur by ED-XRF
D5453	Sulfur by Ultra Violet Fluorescence
D5623	Sulfur Compounds by Sulfur Selective Detection
D6334	Sulfur in Gasoline by Wavelength WD-XRF
D6445	Sulfur in Gasoline by ED-XRF

Wear Metals Group

D3605	Trace Metals in Gas Turbine Fuel by AA
D4628	Wear Metals in Lube Oil
D4927	Wear Metals and Additives by WDXRF
D4951	Wear Metals and Additives by ICP
D5185	Wear Metals and Additives by ICP
D5708	Trace Metals by ICP
D5863	Trace Metals by AA
D6443	Metals in Oil
D6481	Lube Oils by ED-XRF

Additional Methods

Motor Oil Standards	310
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Method 413.2, 418.1 and TPH Analysis	336
Method 8440 TPH Analysis	249
Method 1004 Alcohol Oxidation Products in Engine Exhaust	326

Shipping Symbols

▲ Hazardous fee required.
▼ Hazardous fee not required
❄ A ColdPAK is required
Can not be shipped by Air
Reformulated to ship by Air

AccuPetroCheck and AccuPetroTest Real World Gasoline QC Standards

In cooperation with ASTM D02 subcommittee 3 and 4, AccuStandard ampulled 21 Real World gasoline reference fuels. Consensus Values have been determined for these reference fuels by various ASTM Round Robins to provide Petrochemical Laboratories with a source of well characterized gasoline standards for use in QA/QC applications and as Single Blind test samples over an extended period of time. As new ASTM D02.03 and D02.04 Test methods are promulgated they require mandatory Quality Control testing of real world samples. AccuStandard's PetroTest & PetroCheck standards are being successfully used to achieve these new Quality Control requirements.

AccuPetroTest

Sulfur in Diesel Fuel QC Standard

SBPT-SDF-VAP **$ 25 / 2 x 15 mL**

Parameter	Approx. Range
Sulfur	20 - 11000 µg/g

See ASTM Methods D2622, D3120, D3246, D4294, D5453 for Sulfur Calibration Standards

Sulfur in White Mineral Oil QC Standard

SBPT-SWMO-VAP **$ 25 / 2 x 15 mL**

Parameter	Approx. Range
Sulfur	20 - 11000 µg/g

See ASTM Methods D2622, D3120, D3246, D4294, D5453 for Sulfur Calibration Standards

Sulfur Single Blind AccuPetroTest Alternative Matrices Standards

We have manufactured a number of Diesel and White Mineral Oil QC products containing a gravimetrically prepared amount of Sulfur. Use of these alternative matrix materials can provide further evaluation of the QA/QC process in the laboratory. Two samples will be sent for the test parameter and a separate sealed envelope containing the gravimetrically prepared sulfur values is also provided. The second sample is for repeatability testing or for use as a future QA/QC reference.

AccuPetroTest Gasoline

Low Sulfur QC Sample

SBPT-LSGAS-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx. Range
Sulfur	D5453	0 - 50 µg/g

Olefin QC Sample

SBPT-OLEFINSFC-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx. Range
Total Olefins	D6550	1 - 40 Vol.%

AccuPetroTest Gasoline

Comprehensive Single Blind Gasoline QC Sample

SBPT-COMP-VAP **$ 50 / 2 x 15 mL**

Parameter	Method	Approx. Range	Conc.
Total Aromatics	D1319	8 - 60	Vol.%
Total Olefins	D1319	1 - 40	Vol.%
Total Saturates	D1319	30 - 80	Vol.%
Sulfur	D2622	0.0001 - 0.0930	Wt.%
Sulfur	D4294	0.0016 - 0.0930	Wt.%
Sulfur	D5453	0.5 -500	µg/g
Sulfur	D6344	1.0 - 1000	µg/g
Benzene	D5769	0.1 - 2.0	Vol.%
Toluene	D5769	1.0 - 15	Vol.%
Total Aromatics	D5769	8 - 60	Vol.%
Benzene	D5769	0.1 - 2.0	Vol.%
Total Olefins	D6550	1 - 40	Vol.%

Technical Note

This comprehensive single blind gasoline QC sample tests for more parameters from a single sample. The actual gasoline sample will have consensus values listed on the datasheet that fall within the range listed for each parameter.

Quality Control Standards continue on next page

Quality Control

AccuPetroTest Gasoline QC

Olefins QC Sample

SBPT-OLEFIN-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx. Range
Total Aromatics	D1319	8-60 Vol.%
Total Olefins	D1319	1 - 40 Vol.%
Total Saturates	D1319	30-80 Vol. %

See ASTM Method D1319 for Sulfur Calibration Standards

Sulfur QC Sample

SBPT-SGAS-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx. Range
Sulfur	D2622	0.0001 - 0.0930 Wt.%
Sulfur	D4294	0.0016 - 0.0930 Wt.%
Sulfur	D5453	4.0 - 500 µg/g
Sulfur	D6344	1.0 - 1000 µg/g

See ASTM Methods D2622, D3120, D3246, D4294, D5453 for Sulfur Calibration Standards

Aromatics QC Sample

SBPT-AROM-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx. Range
Total Aromatics	D5769	8 - 60 Vol.%

See ASTM Methods, D3606, D5580, D5769 for Benzene Calibration Standards

Benzene/Toluene QC Sample

SBPT-BENZ-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx. Range
Benzene	D5769	0.1 - 2.0 Vol.%
Toluene	D5769	1.0 - 15 Vol.%

See ASTM Methods, D3606, D5580, D5769 for Benzene Calibration Standards

Technical Note

AccuPetroTest Single Blind Standards

Petrochemical laboratories looking to test the performance of the laboratory for a specific parameter can order the Single Blind **AccuPetroTest** sample for the parameter of interest. Two real world gasoline samples will be sent for the test parameter requested and a separate sealed envelope containing the determined Consensus Value is also provided. The second sample is for repeatability testing or as a future QA/QC reference.

Conducting a Petrochemical Round Robin for a new ASTM method?

Select AccuStandard to prepare the necessary samples for the Round Robin study

AccuStandard has packaged for ASTM committee D02 various select groups of gasoline fuels and hydrocarbon products for use in various Round Robin studies.

Large Sample Offering

AccuStandard was selected by ASTM committee D02 to fill, seal and package an initial set of 21 different types of Round Robin Gasolines. Each gasoline was selected due to its unique properties. These unique properties will be determined by various ASTM methods under evaluation through ASTM subcommittees. AccuStandard has expanded this offering with additional materials blended for other ASTM Round Robins.

Flexibility

Use the original 21 gasoline samples to conduct a Round Robin and we can label the samples appropriately to protect the integrity of the Round Robin. In addition, we can easily add additional samples to your specific Round Robin study to expand the scope of the method for different matrices, concentrations or instrument types.

Petro PT Samples

Oxygenate PT Sample

With MtBE contamination problems in drinking water, numerous states are requiring certification for Oxygenate monitoring. Join AccuStandard's next study for Oxygenate analysis. Our timely PT schedule easily allows your lab to be proactive in new regulatory requirements. The analytes in the standard and the PT sample have been drawn from the California list of known prevalent oxygenates in gasoline. These Oxygenate PT samples and standards allow your Lab to:

- Expand testing capabilities
- Generate new testing revenue
- Eliminate standard preparation
- Easily combine with other Volatile standards

SUFFIX KEY
AT = Pre-Test
AV = Values Included

WS-PT Oxygenates

OPE-OXY-001-AT **$ 47 / 2 mL**
OPE-OXY-001-AV **$ 47 / 2 mL**
Sample conc. after prep 5.0-50 µg/L 4 comps.

ETBE	MTBE
Diisopropylether	TAME

Technical Note

This PT sample can be used by gravimetric oil and grease methods. In addition, it can also be used for TPH analysis by gravimetric methods including the EPA method 1664. The sample contains real world material commonly found at petroleum containment sites.

WP-PT Oil, Grease & TPH

IPE-OILG-001-AT **$ 32 / 5 mL**
IPE-OILG-001-AV **$ 32 / 5 mL**
Sample conc. after prep 2 comps.

Analyte List	Sample range
Total Oil & Grease	5-100 mg/L
TPH	5-100 mg/L

Suggested Calibration Standards

Oxygenate Gasoline Additive Standards

OGAD-001 **$ 30 / 1 x 1 mL**
OGAD-001-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in MeOH 5 comps

MtBE	(2000 µg/mL)	TAME	(2000 µg/mL)
ETBE	(2000 µg/mL)	t-Butanol	(10000 µg/mL)
Isopropyl ether	(2000 µg/mL)		

OGAD-002 **$ 30 / 1 x 1 mL**
At stated conc. in MeOH 5 comps

t-Butanol	(10000 µg/mL)	TAME	(2000 µg/mL)
ETBE	(2000 µg/mL)	TAEE	(2000 µg/mL)
Isopropyl ether	(2000 µg/mL)		

Suggested Calibration Standard

Oil and Grease

WC-OILG-10X-1 **$ 45 / 100 mL**
1000 µg/mL Total Oil and Grease in n-Propanol 2 comps.

Contains 500 µg/mL vegetable oil and 500 µg/mL of petroleum oil.

Shake well before use.

ASTM

ASTM Committee D02 has jurisdiction over 580 published methods pertaining to petroleum products and lubricants. AccuStandard is a member of this technical committee, as well as ASTM Committee D16 on Aromatic Hydrocarbons. Working with fellow committee members has given us the opportunity to formulate products to meet the requirements of many of these methods.

In addition, AccuStandard can prepare, package and ship products for both ASTM PTP's (proficiency testing programs) and round robin studies. Please contact our Technical Service Department for more information.

Use this Cross-reference Table to Match other Methods for known Petrochemical analysis.

ANALYSIS	ASTM	IP	ISO	DIN	JIS	AFNOR
Tag Flash Point	D56			51411	K 2580	M07-003
Distillation	D86	123	3405	51751	K 2254	M07-002
COC Flash Point	D92	36	2592	51376	K 2265	T60-118
PMCC Flash Point	D93	34	2719	51758	K 2265	M07-019
Kinematic Viscosity	D445	71-1	3104	51562	K 2283	T60-100
Aniline Point	D611	2	2977	51775		M07-021
Hydrocarbon Types by FID	D1319	156	3837	51791	K 2536	M07-024
Water (Karl Fischer)	D1744		6296			T60-154
Freezing Point	D2386	16	3013	51421	K 2276	M07-048
Cloud Point	D2500	219	3015	51597	K 2269	T60-105
Sulfur by XRF	D2622			51400T6	K 2541	
Boiling Range By GC	D2887		3924			
Sulfur by Oxidative Microcoulometry	D3120		16591			
Lead by AAS	D3237	428				
Sulfur by Oxidative Microcoulometry	D3246	373				M07-052
Metals by AA	D3605	413	8691	51790T3		
Benzene by GC	D3606	425				
Sulfur by ED-XRF	D4294	336	8754			M07-053
Water (Karl Fischer)	D4377	356	10336			
Metals by AA	D4628	308		51391T1		
Nitrogen by Chemiluminescence Detection	D4629	379				M07-058
Metals by WD-XRF	D4927	407		51391T2		
Water (Karl Fischer)	D4928	386	10337			
Lead in Gas By X-Ray	D5059	228				
Vapor Pressure	D5191	394				M07-079
Oxygenates	D5599	408				
Cloud Point	D5771	444				
Cloud Point	D5772	445				
Cloud Point	D5773	446				
Freezing Point	D5901	434				
Auto-Freeze Point	D5972	435				
Hydrocarbons Automatic	D6379	436				
Hydrocarbons Automatic	D6591	391				
Metals			14597			

This is a partial list of Standards available for ASTM Methods.

Tables Generated from

(a) R.A. Nadkarni, "Guide to ASTM Test Methods for the Analysis of Petroleum Products and Lubricants," Manual 44 (200), ASTM West Conshohocken, PA
(b) Annual Book of ASTM Standards 2000, Volumes 05.01 to 05.05

MEMBER

ASTM INTERNATIONAL
Standards Worldwide



On site Viscosity testing



Vacuum Distillation apparatus for Testing Biodiesels Standards

ASTM D56, D92, D93 Flash Point Standards

The reference material is a stable, pure hydrocarbon with a method specific flash point determined by using the ASTM Method # referenced.

ASTM #	Nominal Flash Point	Cat. No.	Price / Unit
PMCC D93	60 °C	ASTM-P-132-01	$ 110 / 250 mL
PMCC D93	93 °C	ASTM-P-132-02	110 / 250 mL
COC D92	200 °C	ASTM-P-132-03	110 / 250 mL
COC D92	230 °C	ASTM-P-132-04	110 / 250 mL
PMCC D93	65 °C	ASTM-P-133-01	$ 175 / 250 mL
PMCC D93	134 °C	ASTM-P-133-02	130 / 250 mL
COC D92	138 °C	ASTM-P-133-03	130 / 250 mL
TCC D56	67 °C	ASTM-P-133-04	175 / 250 mL

Note: nominal 250 mL fill

ASTM D86 Distillation Standards

The automatic distillation apparatus duplicates the distillation conditions of the manual method. The increased reliance on electronic control requires an independent standard to verify that the apparatus is performing correctly. This synthetic blend of hydrocarbons boil in the temperature range specified in ASTM D86 distillation Groups 1 and 2, and a fuel oil that meets the group 4 criteria.

The Group 1 and 2 standards cover the boiling range 129-368°F (54-187°C). The Group 4 standard covers the range from 410-670°F (210-355°C).

Group	Description	Cat. No.	Price / Unit
1, 2	Synthetic Distillation Standard	ASTM-P-126-01 ▲	$ 160 / 500 mL
		ASTM-P-126-SET ▲	290 / 2 x 500 mL
4	Distillation Standard	ASTM-P-127-01 ▲	160 / 250 mL
		ASTM-P-127-02 ▲	290 / 500 mL

Note: nominal 500 mL fill, or 250 mL fill

ASTM D445 Viscosity Calibration Standards

Viscosity @ 40°C	Cat. No.	Price / Unit
4 Cst	ASTM-P-128-01	$ 60 / 500 mL
7 Cst	ASTM-P-128-02	60 / 500 mL
19 Cst	ASTM-P-128-03	60 / 500 mL
61 Cst	ASTM-P-128-04	60 / 500 mL
180 Cst	ASTM-P-128-05	60 / 500 mL
520 Cst	ASTM-P-128-06	60 / 500 mL

Note: nominal 500 mL fill

ASTM D611 Aniline Point Standards

The accuracy of automated aniline point apparatus can be verified using a range of standards whose aniline points are determined using ASTM D611 (Method A) and ASTM D611 (Method E). Standards are packaged in 20 mL ampules in an inert atmosphere.

Aniline Point Verification Method 611(A)

Set include 5 Standards listed below

Nominal Aniline Point	Cat. No. D-611-SET	Price / Unit $ 90 / 5 x 20 mL
0°C	D-611-01	20 mL
30°C	D-611-02	20 mL
55°C	D-611-03	20 mL
68°C	D-611-04	20 mL
94°C	D-611-05	20 mL

Aniline Point Verification Method 611(E)

Set include 3 Standards listed below

Nominal Aniline Point	Cat. No. D-611E-SET	Price / Unit $ 90 / 3 x 20 mL
43 °C	D-611E-01	20 mL
62 °C	D-611E-02	20 mL
77 °C	D-611E-03	20 mL
Pure Aniline	ASTM-P-134-PAK	$ 30 / 5 x 15 mL

Technical Note

For routine purposes pure Aniline is packaged in ampules under dry nitrogen. This minimizes the risk of oxidation.

ASTM D1015 Freezing Points of High Purity Hydrocarbons

Nominal Freezing Point	Cat. No.	Price / Unit
- 50 °C	ASTM-P-129-01	$ 110 / 250 mL
- 45 °C	ASTM-P-129-02	110 / 250 mL

Note: nominal 250 mL fill

▲ Hazardous fee required.

ASTM D1319 Calibration Standards by Fluorescent Indicator Adsorption FIA

Olefin FIA Calibration Curve

FIA-CAL-SET — **$ 350 / Set of 7 x 1 mL**

D1319 Meets EPA Guidelines for RFG Analysis

	Std. 1 Target Vol. %	Std. 2 Vol. %	Std. 3 Vol. %	Std. 4 Vol. %	Std. 5 Vol. %	Std. 6 Vol. %	Std. 7 Vol. %
Total Olefins	2.0	4.0	5.0	6.0	8.0	10.0	12.0
Total Paraffins	57.0	55.0	52.0	51.0	45.0	45.0	40.0
Total Aromatics	23.0	24.0	25.0	26.0	29.0	28.0	30.0
Total Oxygenate	18.0	17.0	18.0	17.0	18.0	17.0	18.0

	Cat. No.	Price / 1 mL
Standard 1	FIA-CAL-01	$ 60
Standard 2	FIA-CAL-02	60
Standard 3	FIA-CAL-03	60
Standard 4	FIA-CAL-04	60
Standard 5	FIA-CAL-05	60
Standard 6	FIA-CAL-06	60
Standard 7	FIA-CAL-07	60

FIA Olefin Standard

FIA-OLE — **$ 45 / 1 x 1 mL**
FIA-OLE-5ML — **$ 135 / 1 x 5 mL**
3 comps.

	Vol. %		Vol. %
1-Pentene	33.3	1-Heptene	33.3
2,3-Dimethyl-2-butene	33.3		

FIA Paraffin Standard

FIA-PAR — **$ 35 / 1 x 1 mL**
FIA-PAR-5ML — **$ 115 / 1 x 5 mL**
8 comps.

	Vol. %		Vol. %
n-Pentane	8	2,3-Dimethylpentane	14
n-Hexane	9	Isooctane	16
Cyclohexane	15	*n*-Octane	14
n-Heptane	14	*n*-Decane	7

FIA Aromatic Standard

FIA-ARO — **$ 35 / 1 x 1 mL**
FIA-ARO-5ML — **$ 115 / 1 x 5 mL**
10 comps.

	Vol. %		Vol. %
Benzene	4	*m*-Xylene	16
Toluene	32	1,2,4-Trimethylbenzene	8
Ethylbenzene	8	1,3,5-Trimethylbenzene	8
p-Xylene	8	1,2,4,5-Tetramethylbenzene	4
o-Xylene	8	Naphthalene	4

Technical Note

These standards have been prepared for the determination of aromatics, olefins, oxygenates and saturates in petroleum fractions by Fluorescent Indicator Adsorption (FIA) IP designation 156/95.

The certificate for the FIA calibration curve lists both the volume percents for the hydrocarbon types and the individual volume percents for each analyte in the functional group.

The weight fraction for each hydrocarbon type and individual analyte is also listed on the certificate.

ASTM D1744, E1064, D4377 Water in Liquid Petroleum Products by Karl Fischer D4928, D6304

Standards are available for coulometric Karl Fischer titrations and are packaged in 2 mL, 5 mL, and 20 mL ampules in sets of 5 and 10. The following concentrations are available:

Description	Cat. No.	Price / Unit
Water content 40 µg/g	KF-0.4X-5ML-VAP	$ 40 / 10 x 5 mL
Water content 60 µg/g	KF-0.6X-5ML-VAP	$ 65 / 10 x 5 mL
Water content 100 µg/g	KF-1X-2ML-VAP	40 / 10 x 2 mL
	KF-1X-5ML-VAP	45 / 10 x 5 mL
	KF-1X-20ML-PAK	50 / 5 x 20 mL
Water content 1000 µg/g	KF-10X-2ML-VAP	40 / 10 x 2 mL
	KF-10X-5ML-VAP	45 / 10 x 5 mL
	KF-10X-20ML-PAK	50 / 5 x 20 mL
Water content 5000 µg/g	KF-50X-2ML-VAP	40 / 10 x 2 mL
	KF-50X-5ML-VAP	45 / 10 x 5 mL
	KF-50X-20ML-PAK	50 / 5 x 20 mL

Value Added Paks (Cat. No.'s ending in -VAP) provide multiple single units packaged together for both greater stability and cost savings.

Value Added PAK
Packaged in ready to use quantities.


Karl Fischer titrator

ASTM D2386 Freezing Points Calibration Standards

Nominal Freezing Point	Cat. No.	Price / Unit
- 50 °C	ASTM-P-129-01 ▲	$ 110 / 250 mL
- 45 °C	ASTM-P-129-02 ▲	110 / 250 mL

ASTM D2500 Cloud Point Calibration Standards

Cloud Point, Approx. Value	Cat. No.	Price / Unit
+ 5 °C	ASTM-P-131-01 ▲	$ 110 / 250 mL
- 2 °C	ASTM-P-131-02 ▲	110 / 250 mL
- 10 °C	ASTM-P-131-03 ▲	110 / 250 mL
- 15 °C	ASTM-P-131-04 ▲	110 / 250 mL
- 20 °C	ASTM-P-131-05 ▲	110 / 250 mL

▲ Hazardous fee required.

AccuStandard stands for accuracy in Cloud Points.



D2622, D3120, D3246, D4294, D5453, D6334, D6445 & Proposed ASTM Sulfur Methods
AccuStandard offers the Petroleum Industry the most complete line of calibration standards designed for today's test methods for sulfur analysis. These standards are designed specifically for the analysis of sulfur in a wide variety of matrices such as #2 diesel fuel, white mineral oil, kerosene, gasoline, crude oil and residual oil.

Traceability, Quality and Certification
All sulfur standards are manufactured from the highest quality raw materials, including well characterized starting materials and the lowest sulfur matrices available. Most standards are manufactured on a weight/weight basis using balances that are calibrated and verified daily against reference mass standards directly traceable to NIST. The concentration of these working level Sulfur standards have established traceability links to NIST SRM's where available.

Packaging
Since applicable concentration ranges will vary based on the instrumentation used and the nature of the sample the standards can be ordered as complete sets or individual bottles.

Sulfur Standards for ASTM D2622, D3120, D3246, D4294, D5453, D6334, D6445 & Proposed ASTM Sulfur Methods

Sulfur in Heavy Weight Mineral Oil (75 cSt) — Ready-to-Use

Concentration µg/g	Concentration Wt. %	100 mL Cat. No.	PAK 5 x 20 mL Cat. No.
Blank	0.000	SWMO-BL-100ML	SWMO-BL-20ML-PAK
100	0.010	SWMO-1X-100ML	SWMO-1X-20ML-PAK
200	0.020	SWMO-2X-100ML	SWMO-2X-20ML-PAK
300	0.030	SWMO-3X-100ML	SWMO-3X-20ML-PAK
400	0.040	SWMO-4X-100ML	SWMO-4X-20ML-PAK
500	0.050	SWMO-5X-100ML	SWMO-5X-20ML-PAK
750	0.075	SWMO-7.5X-100ML	SWMO-7.5X-20ML-PAK
1,000	0.10	SWMO-10X-100ML	SWMO-10X-20ML-PAK
1,500	0.15	SWMO-15X-100ML	SWMO-15X-20ML-PAK
3,000	0.30	SWMO-30X-100ML	SWMO-30X-20ML-PAK
5,000	0.50	SWMO-50X-100ML	SWMO-50X-20ML-PAK
7,000	0.70	SWMO-70X-100ML	SWMO-70X-20ML-PAK
10,000	1.00	SWMO-100X-100ML	SWMO-100X-20ML-PAK
15,000	1.50	SWMO-150X-100ML	SWMO-150X-20ML-PAK
20,000	2.00	SWMO-200X-100ML	SWMO-200X-20ML-PAK
30,000	3.00	SWMO-300X-100ML	SWMO-300X-20ML-PAK
40,000	4.00	SWMO-400X-100ML	SWMO-400X-20ML-PAK
50,000	5.00	SWMO-500X-100ML	SWMO-500X-20ML-PAK
60,000	6.00	SWMO-600X-100ML	SWMO-600X-20ML-PAK

Set of above SWMO-CAL-100ML-SET 19 x 100 mL $ 850 — At stated concentration 5 x 20 mL $ 60 / ea

Individual Sulfur Standards 100 mL Bottle 1 - 10 units $ 55 ea 10+ units $ 50 ea

Sulfur in Light Weight Mineral Oil (20 cSt) — Ready-to-Use

Concentration µg/g	Concentration Wt. %	100 mL Cat. No.	PAK 5 x 20 mL Cat. No.
Blank	0.000	SWMO-LT-BL-100ML	SWMO-LT-BL-20ML-PAK
100	0.010	SWMO-LT-1X-100ML	SWMO-LT-1X-20ML-PAK
200	0.020	SWMO-LT-2X-100ML	SWMO-LT-2X-20ML-PAK
300	0.030	SWMO-LT-3X-100ML	SWMO-LT-3X-20ML-PAK
400	0.040	SWMO-LT-4X-100ML	SWMO-LT-4X-20ML-PAK
500	0.050	SWMO-LT-5X-100ML	SWMO-LT-5X-20ML-PAK
750	0.075	SWMO-LT-7.5X-100ML	SWMO-LT-7.5X-20ML-PAK
1,000	0.10	SWMO-LT-10X-100ML	SWMO-LT-10X-20ML-PAK
1,500	0.15	SWMO-LT-15X-100ML	SWMO-LT-15X-20ML-PAK
3,000	0.30	SWMO-LT-30X-100ML	SWMO-LT-30X-20ML-PAK
5,000	0.50	SWMO-LT-50X-100ML	SWMO-LT-50X-20ML-PAK
7,000	0.70	SWMO-LT-70X-100ML	SWMO-LT-70X-20ML-PAK
10,000	1.00	SWMO-LT-100X-100ML	SWMO-LT-100X-20ML-PAK
15,000	1.50	SWMO-LT-150X-100ML	SWMO-LT-150X-20ML-PAK
20,000	2.00	SWMO-LT-200X-100ML	SWMO-LT-200X-20ML-PAK
30,000	3.00	SWMO-LT-300X-100ML	SWMO-LT-300X-20ML-PAK
40,000	4.00	SWMO-LT-400X-100ML	SWMO-LT-400X-20ML-PAK
50,000	5.00	SWMO-LT-500X-100ML	SWMO-LT-500X-20ML-PAK
60,000	6.00	SWMO-LT-600X-100ML	SWMO-LT-600X-20ML-PAK

Set of above SWMO-LT-CAL-100ML-SET 19 x 100 mL $ 850 — At stated concentration 5 x 20 mL $ 60

Individual Sulfur Standards 100 mL Bottle 1 - 10 units $ 55 ea 10+ units $ 50 ea

Sulfur in #2 Diesel Fuel — Ready-to-Use

Concentration µg/g	Concentration Wt. %	100 mL Cat. No.	PAK 5 x 20 mL Cat. No.
Blank	0.000	SDF-BL-100ML ▲	SDF-BL-20ML-PAK
100	0.010	SDF-1X-100ML ▲	SDF-1X-20ML-PAK
200	0.020	SDF-2X-100ML ▲	SDF-2X-20ML-PAK
300	0.030	SDF-3X-100ML ▲	SDF-3X-20ML-PAK
400	0.040	SDF-4X-100ML ▲	SDF-4X-20ML-PAK
500	0.050	SDF-5X-100ML ▲	SDF-5X-20ML-PAK
750	0.075	SDF-7.5X-100ML ▲	SDF-7.5X-20ML-PAK
1,000	0.10	SDF-10X-100ML ▲	SDF-10X-20ML-PAK
1,500	0.15	SDF-15X-100ML ▲	SDF-15X-20ML-PAK
3,000	0.30	SDF-30X-100ML ▲	SDF-30X-20ML-PAK
5,000	0.50	SDF-50X-100ML ▲	SDF-50X-20ML-PAK
7,000	0.70	SDF-70X-100ML ▲	SDF-70X-20ML-PAK
10,000	1.00	SDF-100X-100ML ▲	SDF-100X-20ML-PAK
15,000	1.50	SDF-150X-100ML ▲	SDF-150X-20ML-PAK
20,000	2.00	SDF-200X-100ML ▲	SDF-200X-20ML-PAK
30,000	3.00	SDF-300X-100ML ▲	SDF-300X-20ML-PAK
40,000	4.00	SDF-400X-100ML ▲	SDF-400X-20ML-PAK
50,000	5.00	SDF-500X-100ML ▲	SDF-500X-20ML-PAK
60,000	6.00	SDF-600X-100ML ▲	SDF-600X-20ML-PAK

Set of above SDF-CAL-100ML-SET 19 x 100 mL $ 850 — SDF-CAL-20ML-SET 19 x (5 x 20 mL) $ 950

Individual Sulfur Standards 100 mL Bottle 1 - 10 units $ 55 ea 10+ units $ 50 ea — At stated concentration 5 x 20 mL $ 60

▲ Hazardous fee required.

Technical Note

A well-characterized di-*n*-butyl sulfide is used as the starting material in these products.

Custom Concentrations

AccuStandard can custom design a sulfur set for your specific needs. Contact our Technical Service Department for assistance or additional information.

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis

Sulfur Standards for ASTM D2622, D3120, D3246, D4294, D5453, D6334, D6445 & Proposed ASTM Sulfur Methods

Sulfur in Light Distillate Kerosene

Ready-to-Use

Concentration µg/g	Concentration Wt. %	100 mL Cat. No.	PAK 5 x 20 mL Cat. No.
Blank	0.000	SK-BL-100ML ▲	SK-BL-20ML-PAK
100	0.010	SK-1X-100ML ▲	SK-1X-20ML-PAK
300	0.030	SK-3X-100ML ▲	SK-3X-20ML-PAK
500	0.050	SK-5X-100ML ▲	SK-5X-20ML-PAK
750	0.075	SK-7.5X-100ML ▲	SK-7.5X-20ML-PAK
1,000	0.10	SK-10X-100ML ▲	SK-10X-20ML-PAK
2,000	0.20	SK-20X-100ML ▲	SK-20X-20ML-PAK
3,000	0.30	SK-30X-100ML ▲	SK-30X-20ML-PAK
4,000	0.40	SK-40X-100ML ▲	SK-40X-20ML-PAK
5,000	0.50	SK-50X-100ML ▲	SK-50X-20ML-PAK
10,000	1.00	SK-100X-100ML ▲	SK-100X-20ML-PAK
20,000	2.00	SK-200X-100ML ▲	SK-200X-20ML-PAK

Set of above **SK-CAL-100ML-SET** ▲ 12 x 100 mL $ 500 — At stated conc. 5 x 20 mL $ 60

Individual Sulfur Standards 100 mL Bottle: 1 - 10 units $ 55 ea; 10+ units $ 50 ea

Technical Note

A well-characterized di-*n*-butyl sulfide is used as the starting material in these products.

Sulfur in Heavy Distillate Kerosene

Concentration µg/g	Concentration Wt. %	100 mL Cat. No.
Blank	0.000	SK-HD-BL-100ML ▲
100	0.010	SK-HD-1X-100ML ▲
200	0.020	SK-HD-2X-100ML ▲
300	0.030	SK-HD-3X-100ML ▲
400	0.040	SK-HD-4X-100ML ▲
500	0.050	SK-HD-5X-100ML ▲
750	0.075	SK-HD-7.5X-100ML ▲
1,000	0.10	SK-HD-10X-100ML ▲
1,500	0.15	SK-HD-15X-100ML ▲
2,000	0.20	SK-HD-20X-100ML ▲
3,000	0.30	SK-HD-30X-100ML ▲
4,000	0.40	SK-HD-40X-100ML ▲
5,000	0.50	SK-HD-50X-100ML ▲
7,000	0.70	SK-HD-70X-100ML ▲
10,000	1.00	SK-HD-100X-100ML ▲
15,000	1.50	SK-HD-150X-100ML ▲
20,000	2.00	SK-HD-200X-100ML ▲
30,000	3.00	SK-HD-300X-100ML ▲
40,000	4.00	SK-HD-400X-100ML ▲
50,000	5.00	SK-HD-500X-100ML ▲
60,000	6.00	SK-HD-600X-100ML ▲

Set of above **SK-HD-CAL-100ML-SET** ▲ 21 x 100 mL $ 950

Individual Sulfur Standards 100 mL Bottle: 1 - 10 units $ 55 ea; 10+ units $ 50 ea

Standards of Interest

For the mandatory real world QC samples stipulated in the Method, see page 271.

Custom Concentrations

AccuStandard can custom design a sulfur set for your specific needs. Contact our Technical Service Department for assistance or additional information.

▲ Hazardous fee required.



Antek 900 Series Sulfur Analyzer



XOS Optical Systems, Sufur Analyzer (Monochromatic Wavelength-Dispersive X-Ray Fluorescence Spectrometer)

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis

ASTM D2622, D4294 Sulfur Calibration

Sulfur Calibration Standards in Isooctane for Gasoline & Reformulated Gasoline Analysis

In Isooctane

Sulfur Conc.	Sulfur Wt.%	Cat. No. (100 mL)
Blank	0.0	STP-BL-100ML ▲
10 µg/g	0.001	STP-1X-100ML ▲
20 µg/g	0.002	STP-2X-100ML ▲
30 µg/g	0.003	STP-3X-100ML ▲
50 µg/g	0.005	STP-5X-100ML ▲
100 µg/g	0.010	STP-10X-100ML ▲
200 µg/g	0.020	STP-20X-100ML ▲
300 µg/g	0.030	STP-30X-100ML ▲
400 µg/g	0.040	STP-40X-100ML ▲
600 µg/g	0.060	STP-60X-100ML ▲
1000 µg/g	0.10	STP-100X-100ML ▲
2000 µg/g	0.20	STP-200X-100ML ▲
3000 µg/g	0.30	STP-300X-100ML ▲

STP-CAL-100ML-SET ▲ **$ 650 / 13 x 100 mL**
In IsooctaneSet of 13 individual bottles

Standards can be mixed for quantity discounts

1 to 4 units	$ 60 each
5 to 10 units	$ 55 each
more than 10 units	$ 50 each

Technical Note

A well characterized di-*n*-butyl sulfide starting material is used with a low sulfur Isooctane matrix for RFG/gasoline sulfur standards.

ASTM D3120, D3246 Sulfur Calibration

Sulfur Calibration Set

D-3120-92-CAL-SET **$ 75 / 8 x 1 mL**
In Isooctane

Sulfur Conc.	Sulfur Wt. %	Cat. No (1 mL)
Blank	———	D-3120-92-BL
1 µg/g	0.0001	D-3120-92-1X
3 µg/g	0.0003	D-3120-92-3X
10 µg/g	0.0010	D-3120-92-10X
30 µg/g	0.0030	D-3120-92-30X
50 µg/g	0.0050	D-3120-92-50X
75 µg/g	0.0075	D-3120-92-75X
100 µg/g	0.010	D-3120-92-100X

Technical Note

Well characterized di-*n*-butyl sulfide is used in a low sulfur Isooctane matrix for this calibration set.

ASTM D2622, D6334, D6445 Sulfur Calibration

Sulfur Calibration Standards used on XRF Energy Dispersive or Wavelength Instruments

Low Level

In Isooctane:Toluene (3:1)

Sulfur Conc.	Sulfur Wt.%	Cat. No. (100 mL)
Blank	0.0	D-2622-LL-BL-100ML ▲
5 µg/g	0.0005	D-2622-LL-5X-100ML ▲
10 µg/g	0.0010	D-2622-LL-10X-100ML ▲
30 µg/g	0.0030	D-2622-LL-30X-100ML ▲
50 µg/g	0.0050	D-2622-LL-50X-100ML ▲
75 µg/g	0.0075	D-2622-LL-75X-100ML ▲
100 µg/g	0.010	D-2622-LL-100X-100ML ▲
300 µg/g	0.030	D-2622-LL-300X-100ML ▲
500 µg/g	0.050	D-2622-LL-500X-100ML ▲
1000 µg/g	0.100	D-2622-LL-1000X-100ML ▲

D-2622-LL-CAL-100ML-SET ▲ **$ 450 / 10 x 100 mL**
In Isooctane:Toluene (3:1) Set of 10 individual bottles

Mid Level Additions

200 µg/g	0.020	D-2622-LL-200X-100ML ▲
400 µg/g	0.040	D-2622-LL-400X-100ML ▲
600 µg/g	0.060	D-2622-LL-600X-100ML ▲
700 µg/g	0.070	D-2622-LL-700X-100ML ▲
800 µg/g	0.080	D-2622-LL-800X-100ML ▲
900 µg/g	0.090	D-2622-LL-900X-100ML ▲
1100 µg/g	0.110	D-2622-LL-1100X-100ML ▲
1200 µg/g	0.120	D-2622-LL-1200X-100ML ▲

Standards can be mixed for quantity discounts

1 to 4 units	$ 60 each
5 to 10 units	$ 55 each
more than 10 units	$ 50 each

Technical Note

Well characterized Thiophene & 2-Methyl thiophene are used as starting material in these products.

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis

▲ Hazardous fee required.

ASTM Methods - Sulfur in Oil

Sulfur in Crude Oil Standards

µg/g	Wt. %	Cat. No. (100 mL)
1,000	0.10	SCO-10X-100ML ▲
2,500	0.25	SCO-25X-100ML ▲
5,000	0.50	SCO-50X-100ML ▲
10,000	1.00	SCO-100X-100ML ▲
20,000	2.00	SCO-200X-100ML ▲
30,000	3.00	SCO-300X-100ML ▲
40,000	4.00	SCO-400X-100ML ▲
50,000	5.00	SCO-500X-100ML ▲

SCO-CAL-100ML-SET ▲ $ 1160 / 8 x 100 mL
In Crude oil Set of 8 individual bottles

Individual Sulfur $ 145 ea
100 mL Bottle

Sulfur in Residual Oil Standards

µg/g	Wt. %	Cat. No. (100 mL)	Price
3,500	0.35	SRO-35X-100ML	$ 145
7,000	0.70	SRO-70X-100ML	145
10,000	1.00	SRO-100X-100ML	145
15,000	1.50	SRO-150X-100ML	190
20,000	2.00	SRO-200X-100ML	145
30,000	3.00	SRO-300X-100ML	145
40,000	4.00	SRO-400X-100ML	145

SRO-CAL-100ML-SET $ 1060 / x 100 mL
In Residual oil Set of 7 individual bottles

Standards of Interest

We can provide **Ready-to-Inject** working level calibration standards to meet unique laboratory applications. Call or fax us your standard requirements.

ASTM Methods Sulfur in Aromatic Hydrocarbons

Total Sulfur in Aromatic Compounds by Hydrogenolysis & Rateometric Colorimetry

ASTM-P-0010-PAK **$ 75 / 5 x 1 mL**
1000 µg/mL in Toluene

Sulfur (as Thiophene)

Trace Quantities of Sulfur in Liquid Aromatic Hydrocarbons by Oxidative Microcoulometry

ASTM-P-0020-PAK **$ 75 / 5 x 1 mL**
1000 µg/mL in Xylenes

Sulfur (as Dibenzothiophene)

ASTM-SSTDA/B-SET **$ 100 / 10 x 2 mL**
Set contains the following 10 standards in isooctane

Description	Cat. No. (2 mL)
Sulfur Blank	ASTM-SSTDA-BL
Sulfur @ 0.5 µg/g in Isooctane	ASTM-SSTDA-01
Sulfur @ 1.0 µg/g in Isooctane	ASTM-SSTDA-02
Sulfur @ 2.5 µg/g in Isooctane	ASTM-SSTDA-03
Sulfur @ 5.0 µg/g in Isooctane	ASTM-SSTDA-04
Sulfur Blank	ASTM-SSTDB-BL
Sulfur @ 5.0 µg/g in Isooctane	ASTM-SSTDB-04
Sulfur @ 10.0 µg/g in Isooctane	ASTM-SSTDB-05
Sulfur @ 25.0 µg/g in Isooctane	ASTM-SSTDB-06
Sulfur @ 50.0 µg/g in Isooctane	ASTM-SSTDB-07

Member

AccuStandard is an active member in ASTM and strives to keep abreast of ASTM method revisions. If our listed formulation does not meet the most recent method revision, please contact Technical Support for an updated product.

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis



AccuStandard's Environmental Efforts

1. As part of a recent facility expansion, and in cooperation with the local utilities, AccuStandard invested almost $100,000 on energy conservation and controls. The estimated impact on the environment is similar to that of planting 19 acres of trees.

2. Many customers avoid the environmental impact and cost of disposing of unused standards. One of the only standards manufacturers to offer this, Accustandard's "On-Going Stability Program" allows us to extend the expiration date on a standard if our testing over time on a specific lot warrants it.

3. Many every day steps such as using recycled paper for the tens of thousands of catalogs every year, educating customers on the value of using standards as pre-made solutions rather than buying large quantities of neats.

▲ Hazardous fee required.

ASTM
PIANO, PONA, PNA

The **PIANO** line of quantitative and qualitative petrochemical standards for analysis of naphthas, gasolines, reformates and other complex hydrocarbons mixtures. **PIANO** analysis involves the determination of the percentage of the following five fractions Paraffins, Isoparaffins, Aromatics, Naphthenes, and Olefins. **PONA** analysis involves analyzing the naphtha sample for Paraffins, Olefins, Naphthenes, and Aromatics. If the Isoparaffins and Olefins are not present, the analysis is just for **PNA**.

The **PIANO** line of standards is used to determine quantitative and qualitative retention times and indices as well as to monitor response factors within the hydrocarbon blend. These complex mixes are prepared from materials of the highest available purity, accurate to four decimal places, and include a detailed data sheet on the formulation composition. The typical range for the analytes in each formulation has been provided for each catalog item. The exact composition on a weight % basis for each analyte has been provided on the certificate, and a disk deliverable spreadsheet is available on request.

Updated PIANO Full Analytical Data Package (FAP) includes:

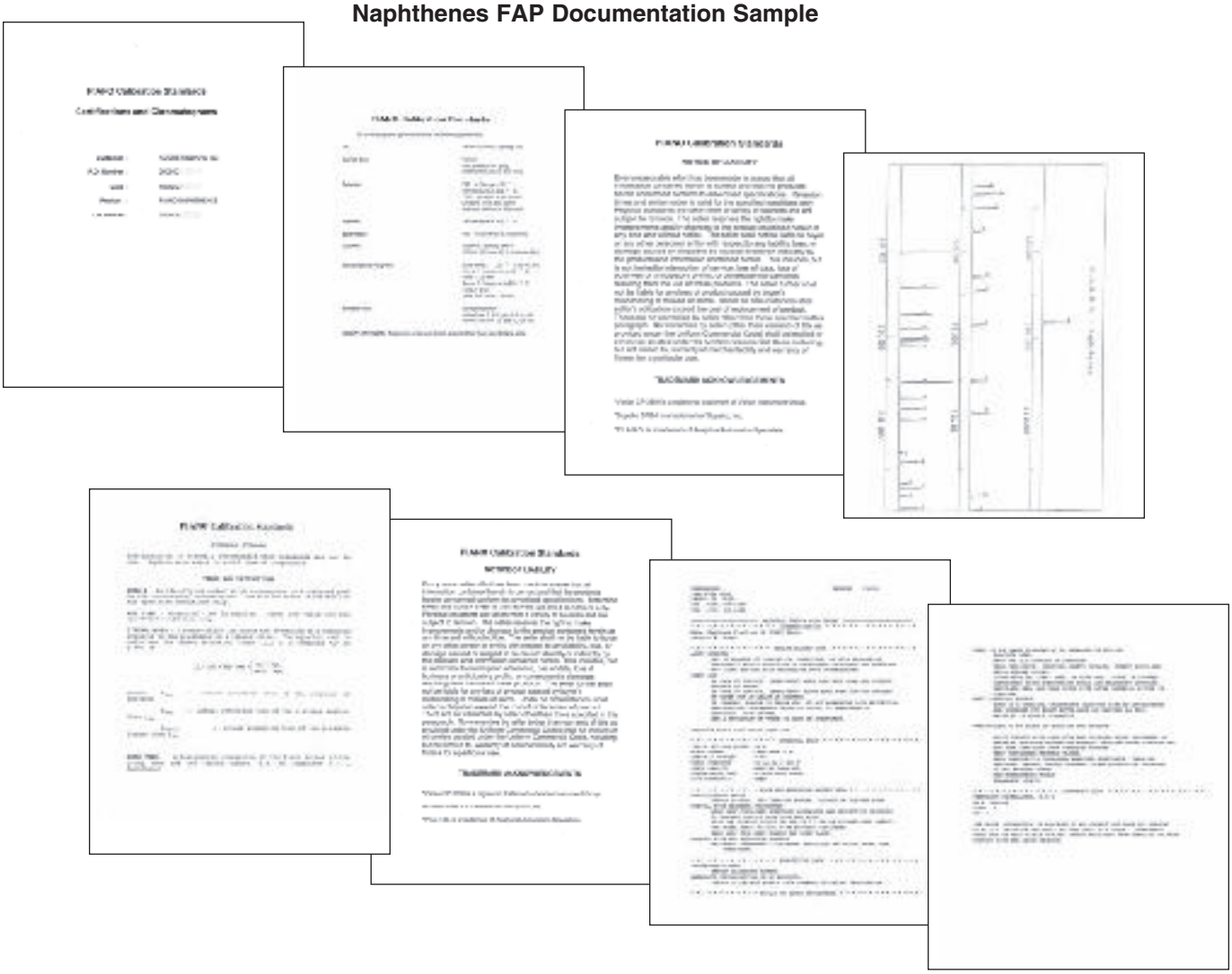
- **Detailed analytical contitions**
- **Certification of all components**
- **Chromatograms all products**

Products are prepared and certified gravimetrically.

1. All weights are traceable through National Institute of Standards & Technology.
2. Certified Analyte Concentration = Purity x Prepared Concentration.
3. The uncertainty value is ±2% and is determined in accordance with the CITAC guide to Quantifying Uncertainty in Analytical Measurement and is reported as an Expanded Uncertainty ($U(C_{cd})$). Assuming a normal distribution, a coverage factor of K=2 (95% confidence level) is used in the calculation.

Partnering with Air Liquide to provide these materials enables AccuStandard to provide a detailed certification package to meet your needs.

Naphthenes FAP Documentation Sample



PIANO, PONA, PNA Analysis

PIANO *n*-Paraffins Mix

ASTM-P-0031-FAP **$ 220 / 100 µL**

11 paraffins listed below at varying Wt. % typically in the range from 7.0 to 11.0 Wt. %. The actual certificate will have the exact Wt. % for each analyte.

	Typ. Wt. %
n-Pentane	9.4375
n-Hexane	9.5661
n-Heptane	9.8048
n-Octane	9.5518
n-Nonane	9.0482
n-Decane	9.2517
n-Undecane	9.3172
n-Dodecane	9.1855
n-Tridecane	8.9332
n-Tetradecane	8.7989
n-Pentadecane	7.1057

PIANO Isoparaffins Mix

ASTM-P-0032-FAP **$ 240 / 100 µL**

35 Isoparaffins listed below at varying Wt. % typically in the range from 0.5 to 6.0 Wt. %. The actual certificate will have the exact Wt. % for each analyte.

	Typ. Wt. %		Typ. Wt. %		Typ. Wt. %
Isopentane	2.1928	2,2-Dimethylhexane	1.3061	2,3-Dimethylheptane	1.4870
2,3-Dimethylbutane	0.4466	2,5-Dimethyl hexane	3.6975	3,4-Dimethylheptane	3.7450
2-Methylpentane	3.2815	2,2,3-Trimethylpentane	1.7371	2-Methyloctane	3.7576
3-Methylpentane	5.3865	2,4-Dimethylhexane	1.6252	3-Methyloctane	5.6020
2,2-Dimethylpentane	1.7747	2,3-Dimethylhexane	1.6212	3,3-Diethylpentane	1.5755
2,4-Dimethylpentane	3.6993	2-Methylheptane	4.4073	2,2-Dimethyloctane	3.4135
2,2,3-Trimethylbutane	3.9291	4-Methylheptane	3.2015	3,3-Dimethyloctane	3.2582
3,3-Dimethylpentane	1.1848	3-Methylheptane	5.5186	2,3-Dimethyloctane	3.8842
2-Methylhexane	2.2384	3-Ethylhexane	0.6999	3-Ethyloctane	3.7482
2,3-Dimethylpentane	1.7883	3,3-Dimethylheptane	1.7011	2-Methylnonane	3.7144
3-Methylhexane	1.6708	2,5-Dimethylheptane	5.6731	3-Methylnonane	5.7687
3-Ethylpentane	0.5080	3,5-Dimethylheptane	0.7565		

PIANO Aromatics Mix

ASTM-P-0033-FAP **$ 240 / 100 µL**

38 Aromatics listed below at varying Wt. % typically in the range from 0.2 to 7.0 Wt. %. The actual certificate will have the exact Wt. % for each analyte.

	Typ. Wt. %
Benzene	3.45
Toluene	4.5738
EthylBenzene	6.7670
m-Xylene	2.2259
p-Xylene	4.4815
o-Xylene	2.2519
Isopropylbenzene	2.2248
n-Propylbenzene	4.4979
1-Methyl-3-ethylbenzene	2.2243
1-Methyl-4-ethylbenzene	2.2206
1,3,5-Trimethylbenzene	1.1076
1-Methyl-2-ethylbenzene	2.2611
1,2,4-Trimethylbenzene	2.2535
tert-Butylbenzene	4.5310
Isobutylbenzene	4.4216
sec-Butylbenzene	2.2368
1-Methyl-3-isopropylbenzene	1.1066
1-Methyl-4-isopropylbenzene	1.0668
1-Methyl-2-isopropylbenzene	1.1241
1-Methyl-3-*n*-propylbenzene	2.1135
1-Methyl-4-*n*-propylbenzene	2.2336
n-Butylbenzene	2.2087
1,2-Diethylbenzene	1.0947
1-Methyl-2-*n*-propylbenzene	2.2641
1,4-Dimethyl-2-ethylbenzene	2.2803
1,3-Dimethyl-5-ethylbenzene	2.2858
1,2-Dimethyl-4-ethylbenzene	2.2558
1,3-Dimethyl-2-ethylbenzene	1.1416
1,2-Dimethyl-3-ethylbenzene	2.1864
1,2,4,5-Tetramethylbenzene	0.2360
2-Methylbutylbenzene	1.1453
1-tert-Butyl-2-methylbenzene	0.7641
n-Pentylbenzene	4.4828
1-tert-Butyl,3,5-dimethylbenzene	2.1641
1-tert-Butyl-4-ethylbenzene	2.2322
1,3,5-Triethylbenzene	4.5671
1,2,4-Triethylbenzene	1.1087
n-Hexylbenzene	4.5029

PIANO Naphthenes Mix

ASTM-P-0034-FAP **$ 240 / 100 µL**

30 Napthenes listed below at varying Wt. % typically in the range from 0.5 to 8.0 Wt. %. The actual certificate will have the exact Wt. % for each analyte.

	Typ. Wt. %
Cyclopentane	4.9143
Methylcyclopentane	3.2829
Cyclohexane	5.3268
1,1-Dimethylcyclopentane	3.4612
cis-1,3-Dimethylcyclopentane	0.5963
trans-1,2-Dimethylcyclopentane	1.4715
trans-1,3-Dimethylcyclopentane	2.7531
Methylcyclohexane	5.6091
Ethylcyclopentane	3.5534
ctc-1,2,3-Trimethylcyclopentane	1.5859
cct-1,2,4-Trimethylcyclopentane	3.7208
ctc-1,2,4-Trimethylcyclopentane	1.6467
trans-1,4-Dimethylcyclohexane	3.6499
1-Ethyl-1-methylcyclopentane	1.0554
trans-1,2-Dimethylcyclohexane	1.6537
ccc-1,2,3-Trimethylcyclopentane	0.7971
Isopropylcyclopentane	3.5042
cis-1,2-Dimethylcyclohexane	3.7159
n-Propylcyclopentane	3.6438
ccc-1,3,5-Trimethylcyclohexane	3.5263
1,1,4-Trimethylcyclohexane	3.6791
ctt-1,2,4-Trimethylcyclohexane	3.6107
ctc-1,2,4-Trimethylcyclohexane	3.5069
1,1,2-Trimethylcyclohexane	3.3354
Isobutylcyclopentane	3.7123
Isopropylcyclohexane	5.7233
n-Butylcyclopentane	3.6944
Isobutylcyclohexane	5.6729
t-1-Methyl-2-propylcyclohexane	3.8434
t-1-Methyl-2-(4MP)cyclopentane	3.7534

PIANO Olefins Mix

ASTM-P-0035-FAP **$ 240 / 100 µL**

25 Olefins listed below at varying Wt. % typically in the range from 1.2 to 9.0 Wt. %. The actual certificate will have the exact Wt. % for each analyte.

	Typ. Wt. %
3-Methyl-1-butene	1.9396
1-Pentene	4.1355
2-Methyl-1-butene	1.4440
2-Methyl-1,3-butadiene	2.3889
trans-2-Pentene	1.8034
cis-2-Pentene	1.9792
4-Methylpentene-1	3.4372
1-Hexene	7.0484
trans-2-Hexene	1.7302
2-Methylpentene-2	3.3901
cis-2-Hexene	3.8765
1-Heptene	7.6134
trans-3-Heptene	3.3469
cis-3-Heptene	5.8657
trans-2-Heptene	3.7217
cis-2-Heptene	5.7679
1-Octene	7.6901
trans-2-Octene	1.9432
cis-2-Octene	3.9502
1-Nonene	7.6425
trans-3-Nonene	1.9972
cis-3-Nonene	4.0042
trans-2-Nonene	1.9848
cis-2-Nonene	2.7952
1-Decene	8.2053

Technical Note

We may add and/or subtract PIANO Analytes and vary the weight % for each Analyte. The certificate will reflect the exact Analyte composition.

PIANO Mixture

ASTM-P-0030-FAP **$ 660 / 100 µL**

139 comps.

The PIANO formulation contains the *n*-Paraffins, Isoparaffins,Aromatics, Naphthenes, and Olefins: **ASTM-P-0031-FAP, ASTM-P-0032-FAP, ASTM-P-0033-FAP, ASTM-P-0034-FAP, ASTM-P-0035-FAP**. Approximate weight %'s for the total: *n*-Paraffins 18.5%, Isoparaffins 17.9%, Aromatics 23.6%, Naphthenes 20.9%, Olefins 19.0%. The certificate lists the weight % for all analytes in the formulation.

PIANO Mix Set

ASTM-PIANO-FAP-SET **$ 1320 / 6 x 100 µL**

Set includes the following **ASTM-P-0030, ASTM-P-0031, ASTM-P-0032, ASTM-P-0033, ASTM-P-0034, ASTM-P-0035**

ASTM D2789 Hydrocarbon Types in Low Olefinic Gas by MS

Hydrocarbon Mixture

D-2789-CTM **$ 40 / 1 x 1 mL**
D-2789-CTM-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
9 comps.

	Vol. %		Vol. %
2-Methylpentane	7.2	*cis*-1,2-Dimethylcyclohexane	15.5
2,4-Dimethylpentane	9.4	Benzene	7.7
n-Octane	16.6	Toluene	10
Methylcyclopentane	7.1	*p*-Xylene	16.5
Methylcyclohexane	10		

Technical Note

Both the actual volume percent ratio and the final weight fractions for each analyte will be listed on the certificate.

ASTM D2887 Boiling Range Distribution of Petroleum Fractions by GC

Calibration Mixture

DRH-002N **$ 30 / 100 mg**
DRH-002N-10X **$ 40 / 1 gm**
17 comps.

	Wt. %		Wt. %
n-Hexane	6	*n*-Octadecane	5
n-Heptane	6	*n*-Eicosane	2
n-Octane	8	*n*-Tetracosane	2
n-Nonane	8	*n*-Octacosane	1
n-Decane	12	*n*-Dotriacontane	1
n-Undecane	12	*n*-Hexatriacontane	1
n-Dodecane	12	*n*-Tetracontane	1
n-Tetradecane	12	*n*-Tetratetracontane	1
n-Hexadecane	10		

Hydrocarbon Window Defining Standard

DRH-008S-R2 **$ 65 / 1 x 1 mL**
DRH-008S-R2-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
500 µg/mL each in Chloroform 35 comps.

Octane	Nonadecane	Triacontane
Nonane	Phytane	*n*-Hentriacontane
Decane	Eicosane	Dotriacontane
Undecane	Heneicosane	Tritriacontane
Dodecane	Docosane	Tetratriacontane
Tridecane	Tricosane	Pentatriacontane
Tetradecane	Tetracosane	Hexatriacontane
Pentadecane	Pentacosane	Heptatriacontane
Hexadecane	Hexacosane	Octatriacontane
Heptadecane	Heptacosane	Nonatriacontane
Octadecane	Octacosane	Tetracontane
Pristane	Nonacosane	

Fuel Oil Degradation/Retention Time Mix for Quantification of C_{17}/Pristane & C_{18}/Phytane ratios

DRH-005S-10X **$ 20 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2:CS_2 (1:1) 4 comps.
DRH-005S-R1-10X **$ 25 / 1 x 1 mL**
DRH-005S-R1-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in Chloroform 4 comps.

Heptadecane
Octadecane
Phytane *(2,6,10,14-Tetramethylhexadecane)*
Pristane *(2,6,10,14-Tetramethylpentadecane)*

Technical Note

AccuStandard offers a hydrocarbon window defining standard with the C_8 to C_{40} odd and even alkanes. As an added benefit, pristane and phytane are included in the formulation. Use of this one standard measuring the C_{17}/ pristane and C_{18}/ phytane ratio can be used to estimate degradation of fuel oil.

Also available is a fuel oil degradation mixture containing just the four required analytes to determine the C_{17}/pristane and C_8/ phytane ratio (DRH-005S-10X).

Column Test Mixture

D-2887 **$ 10 / 1 x 1 mL**
1% v/v in n-Octane 2 comps.

n-Hexadecane *n*-Octadecane

Reference Gas Oil Sample Lot #2

D-2887-REFOIL **$ 35 / 1 x 1 mL**

Calibration Solutions

DRH-002S-R1 **$ 50 / 1 x 1 mL**
DRH-002S-R1-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
At stated conc. in Chloroform 17 comps.

	µg/mL		µg/mL
n-Hexane	600	*n*-Octadecane	500
n-Heptane	600	*n*-Eicosane	200
n-Octane	800	*n*-Tetracosane	200
n-Nonane	800	*n*-Octacosane	100
n-Decane	1200	*n*-Dotriacontane	100
n-Undecane	1200	*n*-Hexatriacontane	100
n-Dodecane	1200	*n*-Tetracontane	100
n-Tetradecane	1200	*n*-Tetratetracontane	100
n-Hexadecane	1000		

DRH-002S-R2 **$ 50 / 1 x 1 gm**
DRH-002S-R2-PAK ***SAVE 20%*** **$ 200 / 5 x 1 gm**
0.1 % Wt./Wt. each in Chloroform 20 comps.

n-Tetratetracontane	*n*-Octadecane	*n*-Octane
n-Tetracontane	*n*-Hexadecane	*n*-Heptane
n-Hexatriacontane	*n*-Tetradecane	*n*-Hexane
n-Dotriacontane	*n*-Dodecane	*n*-Pentane
n-Octacosane	*n*-Undecane	*n*-Pentadecane
n-Tetracosane	*n*-Decane	*n*-Heptadecane
n-Eicosane	*n*-Nonane	

Reformulated to ship by Air

ASTM
Simulated Distillation (SIM DIS)

Simulated Distillation (SIM DIS) and Proposed Motor Oil Volatility Method

AccuStandard has developed an extensive line of SIM DIS standards for normal and high temperature analytical requirements when generating boiling point versus retention time calibration curves. Since normal paraffins above Alkane C60 are not readily available, Polywax 500, 655, 850 and 1000 standards have been incorporated to perform SIM DIS analysis of heavy petroleum fractions with boiling points up to 1350°F.

SIM DIS Simulated Distillation Standards

Stock SIM DIS Paraffin Solution

ASTM-P-0050 **$ 85 / 1 x 5 mL**
14 comps.

	Wt. %		Wt. %
n-Pentane	6.66	*n*-Dodecane	13.33
n-Hexane	6.66	*n*-Tetradecane	6.66
n-Heptane	6.66	*n*-Pentadecane	6.66
n-Octane	6.66	*n*-Hexadecane	6.66
n-Nonane	6.66	*n*-Heptadecane	6.66
n-Decane	6.66	*n*-Octadecane	6.66
n-Undecane	6.66	*n*-Eicosane	6.66

Working Level SIM DIS Paraffin Solution with Polywax 500

ASTM-P-0052 **$ 40 / 1 x 1 mL**
ASTM-P-0052-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated conc. in Carbon disulfide 15 comps.

	Wt. %		Wt. %
n-Pentane	0.0333	*n*-Tetradecane	0.0333
n-Hexane	0.0333	*n*-Pentadecane	0.0333
n-Heptane	0.0333	*n*-Hexadecane	0.0333
n-Octane	0.0333	*n*-Heptadecane	0.0333
n-Nonane	0.0333	*n*-Octadecane	0.0333
n-Decane	0.0333	*n*-Eicosane	0.0333
n-Undecane	0.0333	Polywax 500	0.5
n-Dodecane	0.0666		

Carbon disulfide can not ship by air. When possible alternate solvents can be used. Please contact our Technical Service Department for other options.

Polywax 850®

ASTM-P-0137N-2G **$ 20 / 2 grams**
Polywax 850

Polywax 1000®

ASTM-P-0138N-2G **$ 20 / 2 grams**
Polywax 1000

Polywax 500®

ASTM-P-0051N-2G **$ 20 / 2 grams**
Polywax 500

Polywax 655®

ASTM-P-0053N-2G **$ 20 / 2 grams**
Polywax 655

Standards of Interest

See ASTM Methods D3710, D5307, D5442, D6352 for additional calibration standards for hydrocarbon analysis.

ASTM D3120 & D3246 Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry

Sulfur Calibration Set

D-3120-92-CAL-SET **$ 75 / set of 8 x 1 mL**
In Isooctane

Sulfur Conc.	Sulfur Wt. %	Cat. No.	Sulfur Conc.	Sulfur Wt. %	Cat. No.
Blank	———	D-3120-92-BL	30 µg/g	0.0030	D-3120-92-30X
1 µg/g	0.0001	D-3120-92-1X	50 µg/g	0.0050	D-3120-92-50X
3 µg/g	0.0003	D-3120-92-3X	75 µg/g	0.0075	D-3120-92-75X
10 µg/g	0.0010	D-3120-92-10X	100 µg/g	0.010	D-3120-92-100X

Technical Note

Well characterized di-n-butyl sulfide is used in a low sulfur Isooctane matrix for this calibration set.

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis

ASTM D3230 Determination of Salts in Crude Oil

see page 405

ASTM D3231 Determination of Phosphorus in Gasoline

see page 350

ASTM D3237 Lead in Gasoline by AA Spectroscopy

see page 405

ASTM D3246 Sulfur in Petroleum Gas by Oxidative Microcoulometry

see pages 276-279

ASTM D3340 Li & Na in Lubricating Greases by Flame Photometer

see page 355

ASTM D3524 Diesel Fuel Diluent in Used Diesel Engine Oils by GC

Calibration Curve

D-3524-CAL-5ML-SET **$ 150 / 6 x 5 mL**
D-3524-CAL-10ML-SET **$ 250 / 6 x 10 mL**

Analyte	Std. 1	Std. 2	Std. 3	Std. 4	Std. 5	Std. 6
Target Wt. %		Target Wt. %	Target Wt. %	Target Wt. %	Target Wt. %	Target Wt. %
# 2 Diesel	10	7.5	5.0	2.5	1.0	0
30 W Motor oil	90	92.5	95	97.5	99	100

Internal Standard

D-3524-IS-10ML **$ 20 / 1 x 10 mL**
D-3524-IS-10ML-PAK ***SAVE 20%*** **$ 100 / 5 x 10 mL**
At stated conc. in n-Heptane 2 comps.

	Wt./Wt. %
n-Decane	1.0
n-Octadecane	0.2

Mid Level Daily QC Solution

D-3524-QC-10ML **$ 30 / 1 x 10 mL**
At stated conc. 2 comps.

	Wt. / Wt. %
# 2 Diesel	5.0
30 W Motor oil	95.0

Column Resolution Mix

D-3524-CR **$ 10 / 1 x 1 mL**
D-3524-CR-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
At stated conc. in n-Heptane 2 comps.

	Wt. / Wt. %
n-Hexadecane	1.0
n-Octadecane	1.0

ASTM D3605 Trace Metals in Gas Turbine Fuels by AA & Flame Emission & Spectroscopy

see page 405

ASTM D3606 Benzene & Toluene in Finished Motor & Aviation Gasoline by GC

Aromatics Quantitative Calibration Standards

Without Internal Standards

D-3606-25ML-SET — **$ 800 / 7 x 25 mL**

	Analyte Calibr. range	Std. 1 Target Vol. %	Std. 2 Vol. %	Std. 3 Vol. %	Std. 4 Vol. %	Std. 5 Vol. %	Std. 6 Vol. %	Std. 7 Vol. %
Benzene	0.06 - 5.0	5.00	2.50	1.25	0.67	0.33	0.12	0.06
Toluene	0.5 - 20	20.00	15.00	10.00	5.00	2.50	1.00	0.50
Isooctane		75.00	82.50	88.75	94.33	97.17	98.88	99.44

D3606 Meets EPA Guidelines for RFG Analysis

With Internal Standard: MEK

D-3606/IS-SET — **$ 115 / 7 x 1 mL**
D-3606/IS-2ML-SET — **$ 190 / 7 x 2 mL**
D-3606/IS-2ML-SET-PAK — **$ 760 / 5 x (7 x 2) mL**

	Analyte Calibr. range	Std. 1 Target Vol. %	Std. 2 Vol. %	Std. 3 Vol. %	Std. 4 Vol. %	Std. 5 Vol. %	Std. 6 Vol. %	Std. 7 Vol. %
Benzene	0.06 - 5.0	4.8	2.4	1.2	0.6432	0.3168	0.1152	0.0576
Toluene	0.5 - 20	19.2	14.4	9.6	4.8000	2.4000	0.9600	0.4800
Isooctane		72.0	79.2	85.2	90.5568	93.2832	94.9248	95.4624
Methyl ethyl ketone (Internal Std.)		4.0	4.0	4.0	4.0	4.0	4.0	4.0

Aromatics Quantitative Calibration Standard

With Internal Standard: sec Butanol

D-3606/IS2-SET — **$ 115 / 7 x 1 mL**
D-3606/IS2-SET-PAK — **$ 460 / 5 x (7 x 1) mL**

	Analyte Calibr. range	Std. 1 Target Vol. %	Std. 2 Vol. %	Std. 3 Vol. %	Std. 4 Vol. %	Std. 5 Vol. %	Std. 6 Vol. %	Std. 7 Vol. %
Benzene	0.06 - 5.0	4.8	2.4	1.2	0.6432	0.3168	0.1152	0.0576
Toluene	0.5 - 20	19.2	14.4	9.6	4.8000	2.4000	0.9600	0.4800
Isooctane		72.0	79.2	85.2	90.5568	93.2832	94.9248	95.4624
sec Butanol (Internal Std.)		4.0	4.0	4.0	4.0	4.0	4.0	4.0

Aromatics Quantitative Calibration Curve

D-3606/IS2-R1-SET — **$ 115 / set of 7 x 1 mL**

	Analyte Calibr. range	Std. 1 Target Vol. %	Std. 2 Vol. %	Std. 3 Vol. %	Std. 4 Vol. %	Std. 5 Vol. %	Std. 6 Vol. %	Std. 7 Vol. %
Benzene	0.06 - 5.0	5	4.2	3.4	2.6	1.7	0.9	0.1
Toluene	0.5 - 20	20	17	14	11	8	5	2
Isooctane		75	78.8	82.6	86.4	90.3	94.1	97.9
sec Butanol (Internal Std.)		4	4	4	4	4	4	4

Technical Note

Due to the possible use of other oxygenates (i.e. ethanol) in gasoline, a calibration curve using sec-butanol as an internal standard has been formulated. The use of this internal standard minimizes coelution caused by the oxygenate(s) and pre column - standard column configuration in the GC system.

Daily Gasoline Refinery Quality Control Standards

With Internal Standard: sec Butanol

D-3606-QC-IS2-25ML — **$ 125 / 1 x 25 mL**
D-3606-QC-IS2-25ML-PAK — **$ 600 / 5 x 25 mL**
Each at stated quantities — 4 comps.

Compound	Target Vol. %
Benzene	0.6432
Toluene	4.8000
Isooctane	90.5568
sec-Butanol (Internal Std.)	4.0v
	100

With Internal Standard: MEK

D-3606-QC/IS-10ML — **$ 75 / 1 x 10 mL**
D-3606-QC/IS-10ML-PAK — **$ 300 / 5 x 10 mL**
Each at stated quantities — 4 comps.

Compound	Target Vol. %
Benzene	0.6432
Toluene	4.8000
Isooctane	90.5568
Methyl ethyl ketone (Internal Std.)	4.0
	100

Without Internal Standard

D-3606-QC-25ML — **$ 125 / 1 x 25 mL**
D-3606-QC-25ML-PAK — **$ 500 / 5 x 25 mL**
Each at stated quantities — 3 comps.

Compound	Target Vol. %
Benzene	0.67
Toluene	5.00
Isooctane	94.33
	100

ASTM D3710 Boiling Range Distribution of Gasoline & Gasoline Fractions by GC

This **SIM DIS** (Simulated Distillation or GCD) Method is used to determine the boiling range distribution of gasoline and gasoline components. ASTM Method D3710 is used for petroleum products and fractions with a final boiling point of 500°F (260°C) or lower. By having an insight into the composition of the gasoline blend, essential data for the calculation of vapor pressure and a prediction of the D86 distillation curve can be made.

Qualitative Calibration Standard

D-3710-QUAL **$ 50 / 1 x 1 mL**
D-3710-QUAL-PAK *SAVE 20%* **$ 200 / 5 x 1 mL**
19 comps.

	Approx. Wt./ Wt. %		Approx. Wt./ Wt. %
n-Butane	4.5	*n*-Octane	5.4
n-Butylbenzene	3.2	*n*-Pentadecane	2.2
n-Decane	3.2	*n*-Pentane	7.6
2,4-Dimethylpentane	5.4	*n*-Propane	1.5
n-Dodecane	3.2	*n*-Propylbenzene	4.3
n-Heptane	9.7	*n*-Tetradecane	2.2
n-Hexane	5.4	Toluene	10.8
2-Methylbutane	9.7	*n*-Tridecane	2.2
2-Methylpentane	5.4	*p*-Xylene	13
2-Methylpropane	1.5		

Quanitative Calibration Standard

D-3710 **$ 40 / 1 x 1 mL**
D-3710-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
16 comps.

	Vol./Vol. %		Vol./Vol. %
n-Butylbenzene	3.5	n-Octane	5.8
n-Decane	3.5	n-Pentadecane	2.3
2,4-Dimethylpentane	5.8	n-Pentane	8.1
n-Dodecane	3.5	n-Propylbenzene	4.7
n-Heptane	10.5	n-Tetradecane	2.3
n-Hexane	5.8	Toluene	11.6
2-Methylbutane	10.5	n-Tridecane	2.3
2-Methylpentane	5.8	p-Xylene	14.0

ASTM D2887 Boiling Range Distribution of Petroleum Fractions by GC

Calibration Solution

DRH-002S-R1 **$ 50 / 1 x 1 mL**
DRH-002S-R1-PAK *SAVE 20%* **$ 200 / 5 x 1 mL**
At stated conc. in Chloroform 17 comps.

Reformulated to ship by Air

	µg/mL		µg/mL		µg/mL		µg/mL
n-Hexane	600	*n*-Undecane	1200	*n*-Octadecane	500	*n*-Dotriacontane	100
n-Heptane	600	*n*-Dodecane	1200	*n*-Eicosane	200	*n*-Hexatriacontane	100
n-Octane	800	*n*-Tetradecane	1200	*n*-Tetracosane	200	*n*-Tetracontane	100
n-Nonane	800	*n*-Hexadecane	1000	*n*-Octacosane	100	*n*-Tetratetracontane	100
n-Decane	1200						

ASTM D3798 Analysis of p-Xylene by GC

p-Xylene Impurity Standards

With Internal Standard

D-3798-IS **$ 30 / 1 x 1 mL**
D-3798-IS-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
At stated conc. by weight 11 comps.

	Wt./Wt. %		Wt./Wt. %
n-Pentane	0.15	*o*-Xylene	0.15
n-Octane	0.15	Cumene	0.15
Benzene	0.15	Propylbenzene	0.15
Toluene	0.15		
Ethylbenzene	0.15	Total Analytes	100
p-Xylene	98.65	plus *n*-Undecane* (ISTD)	0.500
m-Xylene	0.15	grams	

Without Internal Standard

D-3798-10ML **$ 65 / 1 x 10 mL**
D-3798-10ML-PAK *SAVE 20%* **$ 260 / 5 x 10 mL**
At stated conc. by weight 10 comps.

	Wt./Wt. %		Wt./Wt. %
n-Pentane	0.15	*p*-Xylene	98.65
n-Octane	0.15	*m*-Xylene	0.15
Benzene	0.15	*o*-Xylene	0.15
Toluene	0.15	Cumene	0.15
Ethylbenzene	0.15	Propylbenzene	0.15

Technical Note

Other internal standards can be used in conjunction with the bulk packaged D-3798 (1 x 10 mL) to meet your specfic application. If you prefer to eliminate making standards, contact our Technical Service Department with your unique formulation for a custom quotation. A custom quotation request form is located in the back of this catalog.

ASTM D3831 Manganese in Gasoline by AA Spectroscopy

see page 405

ASTM D4059 Polychlorinated Biphenyls in Insulating Liquids by GC

Solutions in PCB-Free Transformer Oil (Individuals, 2 Concentrations)

Aroclor # / CAS No.	Conc. ppm w/w	Individual Cat. No.	Price 1 mL	PAK *SAVE 20%* Cat. No.	PAK 5 x 1 mL
Aroclor 1016	50	C-216-ST-1	$ 25	C-216-ST-1-PAK	$ 100
12674-11-2	500	C-216-ST-2	30	C-216-ST-2-PAK	120
Aroclor 1221	50	C-221-ST-1	25	C-221-ST-1-PAK	100
11104-28-2	500	C-221-ST-2	30	C-221-ST-2-PAK	120
Aroclor 1232	50	C-232-ST-1	25	C-232-ST-1-PAK	100
11141-16-5	500	C-232-ST-2	75	C-232-ST-2-PAK	300
Aroclor 1242	50	C-242-ST-1	25	C-242-ST-1-PAK	100
53469-21-9	500	C-242-ST-2	30	C-242-ST-2-PAK	120
Aroclor 1248	50	C-248-ST-1	25	C-248-ST-1-PAK	100
12672-29-6	500	C-248-ST-2	30	C-248-ST-2-PAK	120
Aroclor 1254	50	C-254-ST-1	25	C-254-ST-1-PAK	100
11097-69-1	500	C-254-ST-2	30	C-254-ST-2-PAK	120
Aroclor 1260	50	C-260-ST-1	25	C-260-ST-1-PAK	100
11096-82-5	500	C-260-ST-2	30	C-260-ST-2-PAK	120

Aroclor # / CAS No.	Conc. ppm w/w	Individual Cat. No.	Price 1 mL	PAK *SAVE 20%* Cat. No.	PAK 5 x 1 mL
Aroclor 1262	50	C-262-ST-1	25	C-262-ST-1-PAK	100
37324-23-5	500	C-262-ST-2	30	C-262-ST-2-PAK	120
Aroclor 1268	50	C-268-ST-1	25	C-268-ST-1-PAK	100
11100-14-4	500	C-268-ST-2	75	C-268-ST-2-PAK	300

Neats (Individuals)

Aroclor #	Cat. No.	Price / Unit
Aroclor 1016	C-216N	$ 40 / 100 mg
Aroclor 1221	C-221N-50MG	50 / 50 mg
Aroclor 1242	C-242N-50MG	25 / 50 mg
Aroclor 1248	C-248N-50MG	40 / 50 mg
Aroclor 1254	C-254N-50MG	55 / 50 mg
Aroclor 1260	C-260N-50MG	40 / 50 mg
Aroclor 1262	C-262N-50MG	40 / 50 mg

Aroclor-free Transformer Oil

T-W130 **$ 10 / 1 x 1 mL**

ASTM D4291 Trace Ethylene Glycol in Used Engine Oil

D-4291-93 **$ 20 / 5 x 1 mL**
D-4291-93-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
2000 µg/mL in water

Ethylene glycol

ASTM D4294 Sulfur in Petroleum Products by ED-XRF Spectroscopy

see pages 276-279

ASTM D4377 Water in Crude oils by Potentiometric Karl Fischer Titration

see pages 275, 312

ASTM D4420 Aromatics in Finished Gasoline by GC

see page 402

Aromatics in Gasoline by GC/TC

D-4420-CAL-SET **$ 105 / set of 7 x 1 mL**

Analyte	Std. 1 Target Vol. %	Std. 2 Target Vol. %	Std. 3 Target Vol. %	Std. 4 Target Vol. %	Std. 5 Target Vol. %	Std. 6 Target Vol. %	Std. 7 Target Vol. %
Benzene	0.05	0.10	0.25	0.75	1.25	2.50	5.00
Toluene	0.5	1.00	2.50	5.00	10.00	15.00	25.00
Total Xylenes (C_8 aromatics)	5	10.00	15.00	20.00	25.00	1.00	3.00
n-Butylbenzene (C_9 + aromatics)	30.00	25.00	20.00	10.00	5.00	15.00	2.50
Isooctane	64.45	63.90	62.25	64.25	58.75	66.50	64.50

D-4420-94 **$ 20 / 1 x 1 mL**
D-4420-94-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**

	5 comps. Vol. %
Benzene	3.00
Toluene	10.00
Total Xylenes (C_8 aromatics)	15.00
n-Butylbenzene(C_9 + aromatics)	15.00
Isooctane	57.00

ASTM D4628 Barium, Calcium, Magnesium & Zinc in Unused Lubricating Oil

see page 402

ASTM D4629 Trace Nitrogen in Liquid Petroleum Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection. IP 379/88

D4629 is used to determine trace total nitrogen naturally found in liquid hydrocarbons boiling from 50 to 400°C with viscosities 0.2 - 10 cSt. This method monitors feed stocks for nitrogen to prevent the poisoning of some process catalysts when trace nitrogenous materials are present.

Nitrogen Calibration Set - Low Boiling Solvents

D-4629-LB-CAL-R1-SET **$ 85 / 8 x 1 mL**
Nitrogen introduced using Pyridine Set includes the following Cat. No.s

Each in Isooctane	Cat. No.	Price / 1 mL	Each in Isooctane	Cat. No.	Price / 1 mL
Blank	D-4629-91-LB-BL	$ 20	Nitrogen @ 25 µg/mL	D-4629-91-LB-25X	$ 20
Nitrogen @ 0.3 µg/mL	D-4629-91-LB-0.3X	20	Nitrogen @ 50 µg/mL	D-4629-91-LB-50X	20
Nitrogen @ 1 µg/mL	D-4629-91-LB-1X	20	Nitrogen @ 75 µg/mL	D-4629-91-LB-75X	20
Nitrogen @ 10 µg/mL	D-4629-91-LB-10X	20	Nitrogen @ 100 µg/mL	D-4629-91-LB-100X	20

Stock Nitrogen Solution Low Boiling Solvents

D-4629-91-LB-CON **$ 20 / 1 x 1 mL**
D-4629-91-LB-CON-PAK **$ 80 / 5 x 1 mL**
1000 µg/mL in Isooctane

Nitrogen introduced using Pyridine

Nitrogen Calibration Set - High Boiling Solvents

D-4629-HB-CAL-R1-SET **$ 85 / set of 8 x 1 mL**
Nitrogen introduced using Carbazole Set includes the following Cat. No.s

Each in Toluene	Cat. No.	Price / 1 mL	Each in Toluene	Cat. No.	Price / 1 mL
Blank	D-4629-91-HB-BL	$ 20	Nitrogen @ 25 µg/mL	D-4629-91-HB-25X	$ 20
Nitrogen @ 0.3 µg/mL	D-4629-91-HB-0.3X	20	Nitrogen @ 50 µg/mL	D-4629-91-HB-50X	20
Nitrogen @ 1 µg/mL	D-4629-91-HB-1X	20	Nitrogen @ 75 µg/mL	D-4629-91-HB-75X	20
Nitrogen @ 10 µg/mL	D-4629-91-HB-10X	20	Nitrogen @ 100 µg/mL	D-4629-91-HB-100X	20

Stock Nitrogen Solution High Boiling Solvents

D-4629-91-HB-CON **$ 20 / 1 x 1 mL**
D-4629-91-HB-CON-PAK **$ 80 / 5 x 1 mL**
1000 µg/mL in Toluene:Acetone (9:1)

Nitrogen introduced using Carbazole

Nitrogen Calibration Set - Low Level

ASTM-P-0070-SET **$ 75 / 6 x 1 mL**
Nitrogen introduced using Aniline Set includes the following Cat. No.s

Each in Isooctane	Cat. No.	Unit	Each in Isooctane	Cat. No.	Unit
Isooctane Blank	ASTM-P-0070-BL	1 mL	Nitrogen @ 2.0 µg/g	ASTM-P-0070-4X	1 mL
Nitrogen @ 0.5 µg/g	ASTM-P-0070-1X	1 mL	Nitrogen @ 5.0 µg/g	ASTM-P-0070-10X	1 mL
Nitrogen @ 1.0 µg/g	ASTM-P-0070-2X	1 mL	Nitrogen @ 10.0 µg/g	ASTM-P-0070-20X	1 mL

Low Level Nitrogen & Sulfur Calibration Set

ASTM-P-0071-SET **$ 50 / 4 x 1 mL**
The Nitrogen is introduced using Aniline and the Sulfur is introduced using di-n-butyl sulfide Set includes the following Cat. No.s

Concentration in Benzene	Cat. No.	Unit
Benzene Blank	ASTM-P-0071-BL	1 mL
Nitrogen @ 0.25 µg/g & Sulfur @ 0.25 µg/g	ASTM-P-0071-01	1 mL
Nitrogen @ 0.50 µg/g & Sulfur @ 0.50 µg/g	ASTM-P-0071-02	1 mL
Nitrogen @ 1.00 µg/g & Sulfur @ 1.00 µg/g	ASTM-P-0071-03	1 mL

ASTM D4815 MtBE, EtBE, TAME, DIPE, Tertiary-amyl & C1 to C4 Alcohols in Gasoline by GC

Oxygenate Quantitative Calibration Mixtures

D4815 Meets EPA Guidelines for RFG Analysis

Without Internal Standard

D-4815-10ML-SET **$ 300 / set of 5 x 10 mL** of 5 component mix

Analyte	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
	Target Concentrations				
Ethanol	3.00	0.10	6.00	9.00	12.00
t-Butanol	0.10	3.00	6.00	8.00	12.00
Methyl *t*-butyl ether *(MtBE)*	20.0	15.00	10.00	5.00	0.10
t-Pentanol	1.25	5.00	2.50	3.75	0.10
Isooctane/xylene (65:35)	75.65	76.90	75.50	74.25	75.80

With Internal Standard

D-4815/IS-SET **of 6 component mix** **$ 125 / set of 5 x 1 mL**
D-4815/IS-SET-PAK **$ 500 / set of 5 x (5 x 1 mL)**

Analyte	Calibration Range	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
		Target Concentrations				
Ethanol	0.1 - 11.40	2.85	0.095	5.70	8.55	11.40
t-Butanol	0.1 - 11.40	0.095	2.85	5.70	7.60	11.40
Methyl *t*-butyl ether *(MtBE)*	0.1 - 19.0	19.00	14.25	9.50	4.75	0.095
t-Pentanol	0.1 - 4.79	1.19	4.75	2.38	3.56	0.095
1,2-Dimethoxyethane *(DME)* (Internal Std.)		5.00	5.00	5.00	5.00	5.00
Isooctane/xylene (65:35)		71.87	73.06	71.73	70.54	72.01
Total Oxgenates & Internal Standard		**28.14**	**26.95**	**28.28**	**29.46**	**28.00**

Oxygenate Internal Standard

M-GRO-IS-5ML **$ 10 / 1 x 5 mL**
M-GRO-IS-5ML-PAK ***SAVE 20%*** **$ 40 / 5 x 5 mL**

1,2-Dimethoxyethane (neat)

Oxygenate Free Refinery Gasoline Blank

RFA-BLNK-10ML **$ 10 / 1 x 10 mL**
RFA-BLNK-10ML-PAK ***SAVE 20%*** **$ 40 / 5 x 10 mL**

RFA Gasoline (neat)

Quantitative Peak ID and Retention Time Mixture

D-4815-RT **$ 25 / 1 x 1 mL**
D-4815-RT-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**

16 comp. core mix

	Wt. %
Methylcyclopentane	4.00
Methanol	7.30
Ethanol	7.30
Isopropanol	7.30
tert-Butanol	7.30
n-Propanol	7.30
Methyl *tert*-butyl ether *(MtBE)*	4.00
sec-Butanol	7.30
Diisopropyl ether *(DIPE)*	4.00
Isobutanol	7.30
Ethyl *tert*-butyl ether *(EtBE)*	4.00
tert-Pentanol	7.30
1,2-Dimethoxyethane (ISTD)	6.00
n-Butanol	7.30
Benzene	5.00
tert-Amyl methyl ether	7.30
	100

Valve Timing Mixture

D-4815-VT **$ 25 / 1 x 1 mL**
D-4815-VT-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**

5 comps.

	Wt. %
Methylcyclopentane	10.00
Diisopropyl ether *(DIPE)*	10.00
Ethyl *tert*-butyl ether *(EtBE)*	10.00
Methyl *tert*-butyl ether *(MtBE)*	10.00
n-Hexane	60.00

ASTM D4927 Elemental Analysis of Lubricant and Additive Components - Barium, Calcium, Phosphorus, Sulfur, and Zinc by WD-XRF Spectroscopy

see page 402

ASTM D4928 Water in Crude oils by Potentiometric Karl Fischer Titration

see page 275

ASTM D4929 Organic Chloride Content in Crude Oil - Test Method B Combustion and Microcoulometry

Working Level Chlorine Standard

D-4929-94 **$ 10 / 1 x 5 mL**
D-4929-94-PAK ***SAVE 20%*** **$ 40 / 5 x 5 mL**
10 µg/mL in Isooctane

Chlorine

Stock Chlorine Standard

D-4929-94-100X **$ 15 / 1 x 5 mL**
D-4929-94-100X-PAK ***SAVE 20%*** **$ 60 / 5 x 5 mL**
1000 µg/mL in Isooctane

Chlorine

Chlorine in Lube Oils

ASTM-P-0092-100ML-SET **$ 475 / set of 7 x 100 mL**
Each in 75 cSt mineral oil

Cat. No.	Chlorine Wt. %	Chlorine µg/g	Unit	Price
ASTM-P-0092-BL-100ML	Blank	Blank	100 mL	$ 75
ASTM-P-0092-0.1X-100ML	0.001	10	100 mL	75
ASTM-P-0092-1X-100ML	0.01	100	100 mL	75
ASTM-P-0092-5X-100ML	0.05	500	100 mL	75
ASTM-P-0092-10X-100ML	0.1	1,000	100 mL	75
ASTM-P-0092-100X-100ML	1	10,000	100 mL	75
ASTM-P-0092-500X-100ML	5	50,000	100 mL	75

ASTM D4951 Additive Elements in Lubricating Oils by Inductively Coupled Plasma Atomic Emission Spectrometry

see page 403

ASTM D5056 Trace Metals in Petroleum Coke by AA

see pages 354-356

ASTM D5059 Lead in Gasoline by X-Ray Spectroscopy IP Designation 228/79

Part A - Lead in Gasoline Standards

D-5059-A-CAL-100ML-SET ▲ **$ 450 / 7 x 100 mL**
7 solutions in Isooctane

Lead Concentration g Pb/US gal	g Pb/ UK gal	mg Pb/mL	Cat. No.	Price 100 mL
0.0000	0.000	0.000	D-5059-A-01-100ML ▲	$ 10
0.1000	0.120	0.026	D-5059-A-02-100ML ▲	80
1.0000	1.200	0.264	D-5059-A-03-100ML ▲	80
2.0000	2.400	0.528	D-5059-A-04-100ML ▲	80
3.0000	3.600	0.793	D-5059-A-05-100ML ▲	80
4.0000	4.800	1.057	D-5059-A-06-100ML ▲	80
5.0000	6.000	1.321	D-5059-A-07-100ML ▲	80

Part C - Lead in Gasoline Standards

D-5059-C-CAL-100ML-SET ▲ **$ 450 / set of 7 x 100 mL**
The set contains the following 7 solutions in Isooctane

Lead Concentration g Pb/US gal	g Pb/ UK gal	µg Pb/mL	Cat. No.	Price 100 mL
0.0000	0.000	0.000	D-5059-C-01-100ML ▲	$ 10
0.0010	0.001	0.264	D-5059-C-02-100ML ▲	80
0.0050	0.006	1.321	D-5059-C-03-100ML ▲	80
0.0100	0.012	2.642	D-5059-C-04-100ML ▲	80
0.0500	0.060	13.209	D-5059-C-05-100ML ▲	80
0.1000	0.120	26.417	D-5059-C-06-100ML ▲	80
0.3000	0.360	79.252	D-5059-C-07-100ML ▲	80

Internal Standard

D-5059-IS-100ML **$ 80 / 1 x 100 mL**
D-5059-IS-10ML-PAK **$ 60 / 5 x 10 mL ampules**
0.793 mg/mL in Mineral Oil

Bismuth

D5059 Meets EPA Guidelines for RFG Analysis

Technical Note

AccuStandard has formulated D5059 standards to measure the lead content in gasoline for both high and low concentrations using bismuth as an internal standard. The 100 mL quantities are designed for laboratories analyzing many samples while the 10 mL ampules are for laboratories that have limited requests for the test method. Should you require bulk quantities of the internal standard packaged in single-use ampules, contact our Technical Service Department for a quotation.

Technical Note

Certificates for D5059 standards have the lead content listed in 3 concentration units.

ASTM D5134 Petroleum Naphthas through n-Nonane by Capillary GC

Qualitative Reference Petroleum Set

D-5134-92-SET **$ 75 / 3 x 1 mL**

Qualitative Reference Standards	Cat. No.	Price / 1 mL
Alkylate Standard neat fraction approx. 30 comps. identified	D-5134-92-ALK	$ 30
Naphtha Standard neat fraction approx. 70 comps. identified	D-5134-92-NAP	30
Reformate Standard neat fraction approx. 100 comps. identified	D-5134-92-REF	20

Column Evaluation Mix

D-5134-92-CEM **$ 35 / 1 x 1 mL**
7 comps.

	Wt. / Wt. %		Wt. / Wt. %
Toluene	0.5	4-Methylheptane	1.0
n-Heptane	1.0	*n*-Octane	1.0
2,3,3-Trimethylpentane	1.0	2-Methylpentane	94.5
2-Methylheptane	1.0		

Linearity Check Mix

D-5134-92-LCM-PAK **$ 55 / 5 x 50 mg**
10% w/w each component 10 comps.

Benzene	2-Methylheptane
2,4-Dimethylheptane	2-Methylhexane
2,4-Dimethylhexane	*n*-Nonane
n-Heptane	*n*-Octane
n-Hexane	Toluene

ASTM D5184 Al and Si in Fuel Oils by Ashing, Fusion, ICP-AES & AA Spectrometry

see page 392

ASTM D5185 Additive Elements, Wear Metals & Contaminants in Used Lubricating Oils by ICP-AES

see pages 397, 402-404

ASTM D5186 Aromatic Content & Polynuclear Aromatic Content of Diesel Fuels & Aviation Turbine Fuels by SFC

Performance Solution

D-5186-96-PM **$ 40 / 1 x 1 mL**
D-5186-96-PM-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated approx. Wt. % 4 comps.

	Wt./Wt. %		Wt./Wt. %
n-Hexadecane	75	Tetralin	3.0
Naphthalene	2.0	Toluene	20

Detector Linearity Check Solution Set

D-5186-96-DLC-SET **$ 30 / 2 x 1 mL**
Set includes the below two Cat. No.'s

#2 Diesel Fuel in n-Hexadecane	
25% w/w	**D-5186-96-DLC-25X**
50% w/w	**D-5186-96-DLC-50X**

Docosane

D-5186-91-PM-0.4X **$ 20 / 1 x 1 mL**
20% w/w in Toluene

▲ Hazardous fee required.

ASTM D5188 Vapor - Liquid Ratio Temperature Standards

Performance Check Samples for daily monitoring of instrument performance

Volume/Liquid Temp	Cat. No.	Price / Set
36.1˚C (96.9˚F)	ASTM-P-125-01-VAP	$ 45 / 5 x 20 mL
68.0˚C (155.7˚F)	ASTM-P-125-02-VAP	45 / 5 x 20 mL

ASTM D5191 & D5482 Vapor Pressure Standards

Vapor Pressure Quality Control Samples

Vapor Pressure	Cat. No.	Price / Set
68.3kPa (9.91 psi)	ASTM-P-124-01-VAP	$ 65 / 10 x 10 mL
68.0kPa (9.86 psi)	ASTM-P-124-02-VAP	90 / 10 x 10 mL
51.1kPa (7.41 psi)	ASTM-P-124-03-VAP	85 / 10 x 10 mL
46.7kPa (6.77 psi)	ASTM-P-124-04-VAP	129 / 10 x 10 mL
22.5kPa (3.26 psi)	ASTM-P-124-05-VAP	50 / 10 x 10 mL
7.1kPa (1.03 psi)	ASTM-P-124-06-VAP	50 / 10 x 10 mL

Technical Note

Consists of pure solvents with known vapor pressures.

Value Added PAK
Packaged in ready to use quantities.

ASTM D5307 Boiling Range Distribution of Crude Petroleum by GC

Quantitative Paraffins Standard

D-5307-QUANT **$ 60 / 1 x 2 mL**
D-5307-QUANT-PAK ***SAVE 20%*** **$ 240 / 5 x 2 mL**
Equal Wt. % 16 comps.

- *n*-Decane
- *n*-Undecane
- *n*-Dodecane
- *n*-Tridecane
- *n*-Tetradecane
- *n*-Pentadecane
- *n*-Hexadecane
- *n*-Heptadecane
- *n*-Octadecane
- *n*-Eicosane
- *n*-Tetracosane
- *n*-Octacosane
- *n*-Dotriacontane
- *n*-Hexatriacontane
- *n*-Tetracontane
- *n*-Tetratetracontane

Qualitative Paraffins Standard

D-5307-QUAL **$ 40 / 1 x 1 mL**
D-5307-QUAL-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated approx. Wt. % 7 comps.

	Wt./Wt. %		Wt./Wt. %
Propane	10	*n*-Heptane	15
Butane	15	*n*-Octane	15
n-Pentane	15	*n*-Nonane	15
n-Hexane	15		

Internal Standard

D-5307-IS-10ML **$ 30 / 1 x 10 mL**
D-5307-IS-10ML-PAK ***SAVE 20%*** **$ 120 / 5 x 10 mL**
4 comps.

	Wt./Wt. %		Wt./Wt. %
n-Tetradecane	25	*n*-Hexadecane	25
n-Pentadecane	25	*n*-Heptadecane	25

Column Resolution Mix

D-5307-CR **$ 15 / 1 x 1 mL**
D-5307-CR-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
At stated approx. Wt. % 3 comps.

	Wt./Wt. %		Wt./Wt. %
n-Hexadecane	1.0	*n*-Octane	98.0
n-Octadecane	1.0		



ASTM D5441 Analysis of Methyl tert-butyl ether (MtBE) by GC

ASTM Committee D02 on Petroleum Products and Lubricants has issued the Standard Method D5441 for the determination of the purity of methyl tert-butyl ether (MtBE) by Gas Chromatography. This method provides a procedure to measure impurities in MtBE such as C_4 to C_{12} olefins, methyl, isopropyl and tert-butyl alcohols, methyl sec-butyl and methyl tert-amyl ethers, acetone, and methyl ethyl ketones. The presence of these impurities in MtBE can have a direct effect upon the value of the MtBE as a gasoline additive. The following reference standards have been formulated to meet the method specifications. Different packaging sizes are available to meet various sample testing capacities.

MtBE Contaminant Standard
Low Concentration

D-5441		**$ 30 / 1 x 1 mL**
D-5441-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
D-5441-5ML		**$ 100 / 1 x 5 mL**
D-5441-5ML-PAK	***SAVE 20%***	**$ 400 / 5 x 5 mL**
0.1% Wt./Wt. each in MtBE		12 comps.

tert-Amyl methyl ether
tert-Butanol
tert-Butyl ethyl ether
4,4-Dimethyl-2-neopentyl-1-pentene
Methanol
2-Methylbutane
2-Methyl-2-butene
2,2',4,6,6'-Pentamethyl-3-heptene
Pentane
cis-2-Pentene
trans-2-Pentene
2,4,4-Trimethyl-1-pentene

MtBE Contaminant Standard
High Concentration

D-5441-10X		**$ 30 / 1 x 1 mL**
D-5441-10X-PAK	***SAVE 20%***	**$ 120 / 5 x 1 mL**
D-5441-10X-5ML		**$ 100 / 1 x 5 mL**
D-5441-10X-5ML-PAK	***SAVE 20%***	**$ 400 / 5 x 5 mL**
1% Wt./Wt. each in MtBE		12 comps.

tert-Amyl methyl ether
tert-Butanol
tert-Butyl ethyl ether
4,4-Dimethyl-2-neopentyl-1-pentene
Methanol
2-Methylbutane
2-Methyl-2-butene
2,2',4,6,6'-Pentamethyl-3-heptene
Pentane
cis-2-Pentene
trans-2-Pentene
2,4,4-Trimethyl-1-pentene

Qualitative Standard

D-5441-QUAL	**$ 145 / 1 x 1 mL**
0.1% Wt./Wt. each in n-Dodecane	33 comps.

Methanol
Isobutylene
n-Butane
trans-2-butene
cis-2-butene
3-Methyl-1-butene
Acetone
Isopentane
2-Propanol
1-Pentene
2-Methyl-1-butene
n-Pentane
trans-2-Pentene
t-Butanol
cis-2-Pentene
2-Methyl-2-butene
Cyclopentene
MtBE
2,3-Dimethyl-1-butene
4-Methyl-cis-2-pentene
2-Methylpentane
Methylethyl ketone
3-Methylpentane
sec-Butyl methyl ether
ETBE
TAME
3,5-Dimethyl-1-hexene
2,4,4-Trimethyl-1-pentene
2,4,4-Trimethyl-2-pentene
3,4,4-Trimethyl-trans-2-pentene
2,3,4-Trimethyl-2-pentene
4,4-Dimethyl-2-neopentyl-1-pentene
2,2',4,6,6'-Pentamethyl-3-heptene

Quantitative Standard

D-5441-QUANT-R1	**$ 130 / 1 x 1 mL**
0.1% Wt./Wt. each in n-Dodecane	29 comps.

Methanol (0.04 Wt/Wt)
3-Methyl-1-butene
Acetone
Isopentane
2-Propanol
1-Pentene
2-Methyl-1-butene
n-Pentane
trans-2-Pentene
t-Butanol
cis-2-Pentene
2-Methyl-2-butene
Cyclopentene
MtBE
2,3-Dimethyl-1-butene
4-Methyl-*cis*-2-pentene
2-Methylpentane
Methyl ethyl ketone
3-Methylpentane
sec-Butyl methyl ether
Ethyl tert-butyl ether
TAME
3,5-Dimethyl-1-hexene
2,4,4-Trimethyl-1-pentene
2,4,4-Trimethyl-2-pentene
3,4,4-Trimethyl-trans-2-pentene
2,3,4-Trimethyl-2-pentene
4,4-Dimethyl-2-neopentyl-1-pentene
2,2',4,6,6'-Pentamethyl-3-heptene

MtBE Resolution Test Mix

D-5441-RES		**$ 20 / 1 x 1 mL**
D-5441-RES-PAK	***SAVE 20%***	**$ 80 / 5 x 1 mL**
D-5441-RES-5ML		**$ 60 / 1 x 5 mL**
D-5441-RES-5ML-PAK	***SAVE 20%***	**$ 240 / 5 x 5 mL**
1% Wt./Wt. each in MtBE		3 comps.

trans-2-Pentene
tert-Butanol
cis-Pentene

Member

AccuStandard is an active member in ASTM and strives to keep abreast of ASTM method revisions. If our listed formulation does not meet the most recent method revision, please contact Technical Support, for an updated product.

ASTM D5442 Analysis of Petroleum Waxes by GC

Quantitative Wax Standard

D-5442 **$ 25 / 1 x 1 mL**
D-5442-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
At stated Wt. % in Cyclohexane 16 comps.

	Wt./Wt. %		Wt./Wt.
n-Dodecane	0.02	*n*-Octacosane	0.12
n-Tetradecane	0.03	*n*-Triacontane	0.10
n-Hexadecane	0.04	*n*-Dotriacontane	0.08
n-Octadecane	0.05	*n*-Hexatriacontane	0.06
n-Eicosane	0.06	*n*-Tetracontane	0.05
n-Docosane	0.08	*n*-Tetratetracontane	0.04
n-Tetracosane	0.10	*n*-Pentacontane	0.03
n-Hexacosane	0.12	*n*-Hexacontane	0.02

Column Resolution Standard

D-5442-CR-PAK **$ 40 / 5 x 1 mL**
At stated Wt. % in Cyclohexane 2 comps.

	Wt./Wt. %
n-Eicosane	0.05
n-Tetracontane	0.05

Hydrocarbon Standard Brownfield Regulation

D-5442-R1 **$ 60 / 1 x 1 mL**
100 µg/mL each in Cyclohexane 18 comps.

n-Decane	n-Octacosane
n-Dodecane	n-Triacontane
n-Tetradecane	n-Dotriacontane
n-Hexadecane	n-Tetratriacontane
n-Octadecane	n-Hexatriacontane
n-Eicosane	n-Octatriacontane
n-Docosane	n-Tetracontane
n-Tetracosane	n-Tetratetracontane
n-Hexacosane	n-Pentacontane

Retention Time Standard Mix 1

D-5442-RT1 **$ 50 / 500 mg**
Equal parts by weight 12 comps.

n-Hexadecane (c16)	*n*-Octacosane (c28)
n-Octadecane (c18)	*n*-Triacontane (c30)
n-Eicosane (c20)	*n*-Dotriacontane (c32)
n-Docosane(c22)	*n*-Hexatriacontane (c36)
n-Tetracosane (c24)	*n*-Tetracontane (c40)
n-Hexacosane (c26)	*n*-Tetratetracontane (c44)

Retention Time Standard Mix 2

D-5442-RT2 **$ 55 / 500 mg**
Equal parts by weight 16 comps.

n-Dodecane (c12)	*n*-Octacosane (c28)
n-Tetradecane (c14)	*n*-Triacontane (c30)
n-Hexadecane (c16)	*n*-Dotriacontane (c32)
n-Octadecane (c18)	*n*-Hexatriacontane (c36)
n-Eicosane (c20)	*n*-Tetracontane (c40)
n-Docosane (c22)	*n*-Tetratetracontane (c44)
n-Tetracosane (c24)	*n*-Pentacontane (c50)
n-Hexacosane (c26)	*n*-Hexacontane (c60)

Standards of Interest

See ASTM Methods D3710, D5307, and D6352 for additional calibration standards for hydrocarbon analysis.

ASTM D5443 Paraffin, Naphthene and Aromatic Hydrocarbon Type Analysis in Petroleum Distillates through 200°C by Multi-dimensional GC

Hydrocarbon Test Mixture

D-5443-93-HTM **$ 100 / 1 x 1 mL**
At stated Wt. % 28 comps.

	Wt./Wt. %		Wt./Wt. %		Wt./Wt. %
Cyclopentane	1.00	1cis,2-Dimethylcyclohexane	5.00	*trans*-Decahydronaphthelene	4.25
n-Pentane	1.00	Isooctane	5.00	*n*-Tetradecane	4.50
Cyclohexane	2.00	*n*-Octane	5.00	Ethylbenzene	4.50
2,3-Dimethylbutane	2.00	1cis,2 cis,4-Trimethylcyclohexane	4.25	*o*-Xylene	4.25
n-Hexane	2.00	*n*-Nonane	4.50	*n*-Propylbenzene	5.00
n-Hexene	1.50	*n*-Decane	4.25	1,2,4-Trimethylbenzene	4.50
Methylcyclohexane	4.25	*n*-Undecane	3.50	1,2,3-Trimethylbenzene	5.00
4-Methyl-1-hexene	1.50	*n*-Dodecane	3.25	1,2,4,5-Tetramethylbenzene	5.00
n-Heptane	3.50	Benzene	2.25	Pentamethylbenzene	5.00
		Toluene	2.25		

ASTM D5453 Total Sulfur in Light Hydrocarbons, Motor Fuels and Oils by Ultraviolet Fluorescence

Low Level Sulfur Set

D-5453-LL-SET **$ 90 / 5 x 2 mL**
Contains the following 5 standards in Isooctane

Description	Unit
Sulfur Blank	2 mL
Sulfur @ 0.5 ng/µL	2 mL
Sulfur @ 2.5 ng/µL	2 mL
Sulfur @ 5.0 ng/µL	2 mL
Sulfur @ 10.0 ng/µL	2 mL

Mid Level Sulfur Set

D-5453-ML-SET **$ 90 / 6 x 2 mL**
Contains the following 5 standards in Isooctane

Description	Unit
Sulfur Blank	2 mL
Sulfur @ 5.0 ng/µL	2 mL
Sulfur @ 25 ng/µL	2 mL
Sulfur @ 50 ng/µL	2 mL
Sulfur @ 100 ng/µL	2 mL
Sulfur @ 200 ng/µL	2 mL

High Level Sulfur Set

D-5453-HL-SET **$ 90 / 5 x 2 mL**
Contains the following 5 standards in Isooctane

Description	Unit
Sulfur Blank	2 mL
Sulfur @ 100 ng/µL	2 mL
Sulfur @ 250 ng/µL	2 mL
Sulfur @ 500 ng/µL	2 mL
Sulfur @1000 ng/µL	2 mL

Standards of Interest

ASTM Method D5453 Sulfur as Di-n-butyl sulfide in Biodiesel see ASTM D6751.

Real World Sulfur in Various Gasoline & Fuels QC Samples

SBPT-LSGAS-VAP **$ 25 / 2 x 15 mL**

Parameter	Method	Approx .Range
Sulfur	D-5453-00	0 - 50 µg/g

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis

ASTM D5480 Engine Oil Volatility by GC

Stock Column Resolution Standard

D-5480-CR-PAK **$ 40 / 5 x 1 mL**
10 µg/mL each in Carbon disufide 5 comps.
D-5480-CR-100X-PAK **$ 50 / 5 x 1 mL**
1000 µg/mL each in Carbon disufide 5 comps.

n-Decane
n-Dodecane
n-Hexadecane
n-Octadecane
n-Tetracosane

Tetracosane (Solution A)

D-5480-C40-5ML **$ 15 / 1 x 5 mL**
D-5480-C40-5ML-PAK ***SAVE 20%*** **$ 60 / 5 x 5 mL**
500 µg/mL in Carbon disufide
D-5480-C40-R1-5ML **$ 15 / 1 x 5 mL**
D-5480-C40-R1-5ML-PAK ***SAVE 20%*** **$ 60 / 5 x 5 mL**
500 µg/mL in Chloroform

n-Tetracosane

Internal Standard Solution

D-5480-IS-5ML **$ 30 / 1 x 5 mL**
D-5480-IS-5ML-PAK ***SAVE 20%*** **$ 120 / 5 x 5 mL**
Each comp. at equal weights 3 comps.

n-Decane
n-Dodecane
n-Undecane

Carbon disulfide can not ship by air. When possible alternate solvents can be used. Please contact our Technical Service Department for other options.

ASTM D5482 & D5191 Vapor Pressure Standards

Vapor Pressure Quality Control Samples

Vapor Pressure	Cat. No	Price / Set of 10
68.3kPa (9.91 psi)	ASTM-P-124-01	$ 65 / 10 x 10 mL
68.0kPa (9.86 psi)	ASTM-P-124-02	75 / 10 x 10 mL
51.1kPa (7.41 psi)	ASTM-P-124-03	70 / 10 x 10 mL
46.7kPa (6.77 psi)	ASTM-P-124-04	125 / 10 x 10 mL
22.5kPa (3.26 psi)	ASTM-P-124-05	50 / 10 x 10 mL
7.1kPa (1.03 psi)	ASTM-P-124-06	50 / 10 x 10 mL

ASTM D5501 Ethanol Content of Denatured Fuel Ethanol by GC

Denatured Fuel Ethanol Calibration Set

D-5501-94-SET **$ 75 / 7 x 1 mL**

Comp.1	Wt./ Wt.%	Comp.2	Wt./ Wt.%	Comp.3	Wt./ Wt.%	Unit
Ethanol	92	Methanol	0.6	Heptane	7.4	1 mL
Ethanol	93	Methanol	0.5	Heptane	6.5	1 mL
Ethanol	94	Methanol	0.4	Heptane	5.6	1 mL
Ethanol	95	Methanol	0.3	Heptane	4.7	1 mL
Ethanol	96	Methanol	0.2	Heptane	3.8	1 mL
Ethanol	97	Methanol	0.1	Heptane	2.9	1 mL
Ethanol	98	Methanol	0.05	Heptane	1.95	1 mL

Technical Note

Additional Oxygenate calibration, check standards, and independent reference standards can be found in ASTM method D4815 or D5622. The required QA/QC procedures in EPA methods stipulate a calibration check standard be used once per analytical batch or per 10 sample set. AccuStandard has bulk packaged check standards to meet this increased usage.



ASTM D5580 Benzene, Toluene, Ethylbenzene, m/p-Xylene, o-Xylene, C9 & Heavier Aromatics & Total Aromatics in Finished Gasoline by GC

Aromatics Quantitative Calibration Mixes

Without Internal Standard

D-5580-95-CAL-10ML-SET — **$ 300 / 5 x 10 mL** (of 6 component mix)

Analyte	Calibration range	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene	0.10 - 5.00	0.10	0.50	1.00	2.00	5.00
Toluene	1.00 - 15.00	15.00	10.00	5.00	2.50	1.00
Ethylbenzene	0.50 - 10.00	0.50	1.00	2.50	5.00	10.00
o-Xylene	0.50 - 10.00	1.00	2.50	10.00	5.00	0.50
1,2,4-Trimethylbenzene	0.50 - 10.00	1.00	10.00	0.50	5.00	2.50
Isooctane		82.40	76.00	81.00	80.50	81.00

With Internal Standard

D-5580-95-CAL-IS-SET — **$ 100 / 5 x 1 mL** (of 7 component mix)

Analyte	Calibration range	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene	0.09 - 4.50	0.09	0.45	0.90	1.80	4.50
Toluene	0.90 - 13.50	13.50	9.00	4.50	2.25	0.90
Ethylbenzene	0.45 - 9.00	0.45	0.90	2.25	4.50	9.00
o-Xylene	0.45 - 9.00	0.90	2.25	9.00	4.50	0.45
1,2,4-Trimethylbenzene	0.45 - 9.00	0.90	9.00	0.45	4.50	2.25
2-Hexanone (Internal Standard)		10.00	10.00	10.00	10.00	10.00
Isooctane		74.16	68.40	72.90	72.45	72.90

Standard 2 D-5580-95-CAL-IS-2 $ 25 / 1 mL

Technical Note

The configuration of the instrument valve time switching and the pre-column incorporated determines which QA/QC standard provides optimum performance when analyzing gasolines samples by Method D5580. Use of the D5580 standards in conjunction with the real world gasoline standards can provide added assurance that the analytical results generated are reproducible and the analytical system is performing to method specifications.

Valve Timing Calibration Mixes

With Internal Standard

M-GRA-VT/IS-AS **$ 25 / 1 x 1 mL**
M-GRA-VT/IS-AS-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
Each at stated conc. 6 comps.

	Wt./Wt. %
Benzene	4.5
Toluene	4.5
Ethylbenzene	9.0
o-Xylene	9.0
2-Hexanone (Internal Std.)	10.0
Isooctane	63.0

Without Internal Standard

M-GRA-VT-AS-10ML **$ 100 / 1 x 10 mL**
M-GRA-VT-AS-10ML-PAK *SAVE 20%* **$ 400 / 5 x 10 mL**
Each at stated conc. 5 comps.

	Wt./Wt. %
Benzene	5.0
Toluene	5.0
Ethylbenzene	10.0
o-Xylene	10.0
Isooctane	70.0

Internal Standard

M-GRA-IS-AS-5ML **$ 20 / 1 x 5 mL**
M-GRA-IS-AS-5ML-PAK *SAVE 20%* **$ 80 / 5 x 5 mL**

2-Hexanone (Neat)

Selectivity Check Standard

M-GRA-SCS-AS **$ 10 / 1 x 1 mL**
M-GRA-SCS-AS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
Each at stated conc. 2 comps.

	Wt./Wt. %
n-Dodecane	1.5
Isooctane	98.5

Daily Quality Control Standard

Without Internal Standard

D-5580-QC-R1-10ML **$ 125 / 1 x 10 mL**
D-5580-QC-R1-10ML-PAK *SAVE 20%* **$ 500 / 5 x 10 mL**
14 comps.

	Wt./Wt. %		Wt./Wt. %
n-Hexane	12	Toluene	9
n-Heptane	20	Ethylbenzene	2
n-Octane	15	*p*-Xylene	3
n-Decane	10	*o*-Xylene	2
n-Dodecane	1	1,2,4-Trimethylbenzene	3
Isooctane	20	1,2,4,5-Tetramethylbenzene	1
Benzene	1	Naphthalene	1

Daily Quality Control Standard

Without Internal Standard

D-5580-QC-10ML **$ 125 / 1 x 10 mL**
D-5580-QC-10ML-PAK *SAVE 20%* **$ 500 / 5 x 10 mL**
14 comps.

	Wt./Wt. %		Wt./Wt. %
n-Hexane	12	Toluene	9
n-Heptane	20	Ethylbenzene	2
n-Octane	15	*p*-Xylene	3
n-Decane	10	*o*-Xylene	2
n-Tridecane	1	1,2,4-Trimethylbenzene	3
Isooctane	20	1,2,4,5-Tetramethylbenzene	1
Benzene	1	Naphthalene	1

ASTM D5599 Oxygenates in Gas by GC & O-FID

Oxygenates Calibration Curves

With Internal Standard

M-GRO-CAL/IS-SET **$ 250 / 8 x 1 mL**
M-GRO-CAL/IS-SET-PAK ***SAVE 20%*** **$ 1,000 / 5 x (8 x 1) mL**
of 15 Comp. Mix

Calibration range		Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %	Std. 6 Wt. %	Std. 7 Wt. %	Std. 8 Wt. %
Methanol	0.1 - 5.0	---	0.1	2.5	---	5	0.5	1	---
Ethanol	1.0 - 12.0	12	---	3	---	8	5	1	---
Isopropanol	0.1 - 2.0	2	1	---	0.1	0.3	---	0.5	---
t-Butanol	0.1 - 2.0	0.5	0.1	1	---	2	0.3	---	---
Propanol	0.2 - 2.0	2	---	0.7	0.2	1	---	0.4	---
MtBE	1.0 - 17.0	5	17	---	---	1	2.5	10	---
sec-Butanol	0.1 - 2.5	1	---	0.5	0.1	---	2.5	0.7	---
Diisopropyl ether	0.1 - 2.0	---	0.5	0.3	0.1	2	1	---	---
iso-Butanol	0.1 - 2.0	2	0.5	---	1	0.1	0.3	---	---
EtBE	1.0 - 18.0	---	3.5	18	7.5	---	1	12	---
t-Pentanol	0.1 - 2.0	0.3	1	---	0.5	0.1	2	---	---
Butanol	0.1 - 2.0	1	---	0.3	---	0.5	0.1	2	---
TAME	1.0 - 18.0	---	3.5	1	18	7.5	12	---	---
1,2-Dimethoxyethane (ISTD)		4	4	4	4	4	4	4	---
RFA Gasoline		70.2	68.8	68.7	68.5	68.5	68.8	68.4	100
Total oxygenates and ISTD		**29.8**	**31.2**	**31.3**	**31.5**	**31.5**	**31.2**	**31.6**	**0**

Technical Note

This certified oxygenate calibration curve can be used in combination with other aromatic standards for combined oxygenate/aromatic analysis, to change the amount of internal standard added, or to incorporate alternative internal standard analytes.

With Internal Standard

M-GRO-CAL/IS-R1-SET **$ 250 / 8 x 1 mL**

M-GRO-CAL/IS Analyte Calibration range		01-R1 Wt. %	02-R1 Wt. %	03-R1 Wt. %	04-R1 Wt. %	05-R1 Wt. %	06-R1 Wt. %	07-R1 Wt. %	08-R1 Wt. %
Methanol	0.1 - 5.0	--	0.1	2.5	--	5	0.5	1	--
Ethanol	1.0 - 12.0	12	--	3	--	8	5	1	--
Isopropanol	0.1 - 2.0	2	1	--	0.1	0.3	--	0.5	--
t-Butanol	0.1 - 2.0	0.5	0.1	1	--	2	0.3	--	--
Propanol	0.2 - 2.0	2	--	0.7	0.2	1	--	0.4	--
MtBE	1.0 - 17.0	5	17	--	--	1	2.5	10	--
sec-Butanol	0.1 - 2.5	1	--	0.5	0.1	--	2.5	0.7	--
Diisopropyl ether	0.1 - 2.0	--	0.5	0.3	0.1	2	1	--	--
Isobutanol	0.1 - 2.0	2	0.5	--	1	0.1	0.3	--	--
EtBE	1.0 - 18.0	--	3.5	18	7.5	--	1	12	--
tert-Pentanol	0.1 - 2.0	0.3	1	--	0.5	0.1	2	--	--
Butanol	0.1 - 2.0	1	--	0.3	--	0.5	0.1	2	--
TAME	1.0 - 18.0	--	3.5	1	18	7.5	12	--	--
1,2-Dimethoxyethane (ISTD)		4	4	4	4	4	4	4	--
RFA Gasoline		74.2	72.8	72.7	72.5	72.5	72.8	72.4	100
Total oxygenates and ISTD		**28.6**	**30.0**	**30.1**	**30.3**	**30.3**	**30.0**	**30.4**	**0**

Technical Note

The revised Set formulates the product components and gasoline to 100 mL volume and then adds the Internal Standard for a total volume of 104 mL.

D5599 Meets EPA Guidelines for RFG Analysis

Without Internal Standard

M-GRO-CAL-SET **$ 850 / 8 x 10 mL**
of 14 Comp. Mix

Calibration range		Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %	Std. 6 Wt. %	Std. 7 Wt. %	Std. 8 Wt. %
Methanol	0.1 - 5.0	---	0.1	2.5	---	5	0.5	1	---
Ethanol	1.0 - 12.0	12	---	3	---	8	5	1	---
Isopropanol	0.1 - 2.0	2	1	---	0.1	0.3	---	0.5	---
t-Butanol	0.1 - 2.0	0.5	0.1	1	---	2	0.3	---	---
Propanol	0.2 - 2.0	2	---	0.7	0.2	1	---	0.4	---
MtBE	1.0 - 17.0	5	17	---	---	1	2.5	10	---
sec-Butanol	0.1 - 2.5	1	---	0.5	0.1	---	2.5	0.7	---
Diisopropyl ether	0.1 - 2.0	---	0.5	0.3	0.1	2	1	---	---
iso-Butanol	0.1 - 2.0	2	0.5	---	1	0.1	0.3	---	---
EtBE	1.0 - 18.0	---	3.5	18	7.5	---	1	12	---
t-Pentanol	0.1 - 2.0	0.3	1	---	0.5	0.1	2	---	---
Butanol	0.1 - 2.0	1	---	0.3	---	0.5	0.1	2	---
TAME	1.0 - 18.0	---	3.5	1	18	7.5	12	---	---
RFA Gasoline		74.2	72.8	72.7	72.5	72.5	72.8	72.4	100
Total oxygenates		**25.8**	**27.2**	**27.3**	**27.5**	**27.5**	**27.2**	**27.6**	**0**

ASTM D5599 (Continued) Oxygenates in Gas by GC & O-FID

Daily QC Standard
Without Internal Standard

M-GRO-QC-10ML $ 100 / 1 x 10 mL
M-GRO-QC-10ML-PAK *SAVE 20%* $ 400 / 5 x 10 mL
14 comps.

Oxygenate	Target Wt. %	Compound Oxygenate	Target Wt. %
Methanol	1	*Di*-isopropyl ether	3
Ethanol	1	iso-Butanol	1
Isopropanol	1	EtBE	3
t-Butanol	1	*t*-Pentanol	1
Propanol	1	Butanol	1
MtBE	3	TAME	3
sec-Butanol	1	RFA Gasoline	79

Daily QC Standard
With Internal Standard

M-GRO-QC/IS-5ML $ 75 / 1 x 5 mL
M-GRO-QC/IS-5ML-PAK *SAVE 20%* $ 300 / 5 x 5 mL
Internal Standard 1,2-Dimethoxyethane is combined in a 4 to 100 weight ratio. 15 comps.

Oxygenate	Target Wt. %	Oxygenate	Target Wt. %
Methanol	1	*Di*-isopropyl ether	3
Ethanol	1	iso-Butanol	1
Isopropanol	1	EtBE	3
t-Butanol	1	*t*-Pentanol	1
Propanol	1	Butanol	1
MtBE	3	TAME	3
sec-Butanol	1	RFA Gasoline	79

Gasoline Refinery Blank
With Internal Standard

M-GRO-BLNK/IS-10ML $ 15 / 1 x 10 mL
M-GRO-BLNK/IS-10ML-PAK *SAVE 20%* $ 60 / 5 x 10 mL
2 comps.

	Wt. %
1,2-Dimethoxyethane (ISTD)	4
RFA Gasoline	96

O-FID Gasoline Refinery Blank

RFA-BLNK-10ML $ 10 / 1 x 10 mL
RFA-BLNK-10ML-PAK *SAVE 20%* $ 40 / 5 x 10 mL

RFA Gasoline (neat)

Revised Daily QC Standard
Without Internal Standard

M-GRO-QC-R-10ML $ 100 / 1 x 10 mL
M-GRO-QC-R-10ML-PAK *SAVE 20%* $ 400 / 5 x 10 mL
14 comps.

Oxygenate	Target Wt. %	Oxygenate	Target Wt. %
Methanol	1	*Di*-isopropyl ether	1
Ethanol	1	iso-Butanol	1
Isopropanol	1	EtBE	3
t-Butanol	1	*t*-Pentanol	1
Propanol	1	Butanol	1
MtBE	3	TAME	3
sec-Butanol	1	RFA Gasoline	81

Revised Daily QC Standard
With Internal Standard

M-GRO-QC-R/IS-5ML $ 75 / 1 x 5 mL
M-GRO-QC-R/IS-5ML-PAK *SAVE 20%* $ 300 / 5 x 5 mL
Internal Standard 1,2-Dimethoxyethane is combined in a 4 to 100 weight ratio. 15 comps.

Oxygenate	Target Wt. %	Oxygenate	Target Wt. %
Methanol	1	*Di*-isopropyl ether	1
Ethanol	1	iso-Butanol	1
Isopropanol	1	EtBE	3
t-Butanol	1	*t*-Pentanol	1
Propanol	1	Butanol	1
MtBE	3	TAME	3
sec-Butanol	1	RFA Gasoline	81

O-FID/EPA Gasoline Refinery
Internal Standard

M-GRO-IS-5ML $ 10 / 1 x 5 mL
M-GRO-IS-5ML-PAK *SAVE 20%* $ 40 / 5 x 5 mL

1,2-Dimethoxyethane (Internal Standard)

D5599 Meets EPA Guidelines for RFG Analysis

Technical Note

Additional Oxygenate calibration, check standards, and independent reference standards can be found in ASTM method D4815 or D5622. The required QA/QC procedures in EPA methods stipulate a calibration check standard be used once per analytical batch or per 10 sample set. AccuStandard has bulk packaged check standards to meet this increased usage.

ASTM D5599 EPA Gasoline Refinery Oxygenates Calibration Curves

EPA O-FID Quantitative Calibration Mixes

Without Internal Standard

M-GRO-CAL-EPA-10ML-SET **$ 350 / 5 x 10 mL**

5 comps.

	Calibr. range	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Methanol	0.30 - 12.00	6.00	12.00	3.00	0.30	9.00
Ethanol	0.30 - 12.00	0.30	3.00	6.00	9.00	12.00
t-Butanol	0.30 - 12.00	0.30	6.00	9.00	12.00	3.00
MtBE	0.30 - 15.00	15.00	7.50	11.25	3.75	0.30
RFA Gasoline		78.40	71.50	70.75	74.95	75.70

With Internal Standard

M-GRO-CAL-IS/EPA-SET **$ 175 / 5 x 1 mL**

6 comps.

	Calibr. range	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Methanol	0.29 - 11.40	5.70	11.40	2.85	0.29	8.55
Ethanol	0.29 - 11.40	0.29	2.85	5.70	8.55	11.40
t-Butanol	0.29 - 11.40	0.29	5.70	8.55	11.40	2.85
MtBE	0.29 - 14.29	14.25	7.13	10.69	3.56	0.29
1,2-Dimethoxyethane (ISTD)		5.00	5.00	5.00	5.00	5.00
RFA Gasoline		74.48	67.93	67.31	71.20	71.92

EPA O-FID Quantitative Calibration Check Standard

Without Internal Standard

M-GRO-EPA-CC-10ML **$ 50 / 1 x 10 mL**

M-GRO-EPA-CC-10ML-PAK *SAVE 20%* **$ 200 / 5 x 10 mL**

5 comps.

	Wt./Wt. %		Wt./Wt. %
Methanol	4.0	Methyl *tert*-butyl ether	12.0
Ethanol	8.0	RFA gasoline	71.0
tert-Butanol	5.0		

EPA O-FID Spiking Solution

M-GRO-EPA-SP-5ML **$ 50 / 1 x 5 mL**

M-GRO-EPA-SP-5ML-PAK *SAVE 20%* **$ 200 / 5 x 5 mL**

4 comps.

	Wt./Wt. %		Wt./Wt. %
Methanol	14.3	*tert*-Butanol	14.3
Ethanol	28.6	Methyl tert-butyl ether	42.8

Internal Standard

M-GRO-IS-5ML **$ 10 / 1 x 10 mL**

M-GRO-IS-5ML-PAK *SAVE 20%* **$ 40 / 5 x 10 mL**

1,2-Dimethoxyethane (Internal Standard)

EPA O-FID Quantitative Calibration Check Standard

With Internal Standard

M-GRO-EPACC/IS-5ML **$ 35 / 1 x 5 mL**

M-GRO-EPACC/IS-5ML-PAK *SAVE 20%* **$ 150 / 5 x 5 mL**

6 comps.

	Wt./Wt. %		Wt./Wt. %
Methanol	3.80	Methyl tert-butyl ether	11.40
Ethanol	7.60	RFA gasoline	67.45
tert-Butanol	4.75	DME (Internal Standard)	5.0

Oxygenate Free Gasoline Refinery Blank

RFA-BLNK-10ML **$ 10 / 1 x 10 mL**

RFA-BLNK-10ML-PAK *SAVE 20%* **$ 40 / 5 x 10 mL**

RFA Gasoline (neat)

Technical Note

EPA O-FID Oxygenate Petrochemical Standards

This second oxygenate version has been formulated to meet the specific analyte requirements of the EPA methodology.

Technical Note

Additional Oxygenate calibration, check standards, and independent reference standards can be found in ASTM method D4815 or D5622. The required QA/QC procedures in EPA methods stipulate a calibration check standard be used once per analytical batch or per 10 sample set. AccuStandard has bulk packaged check standards to meet this increased usage.

ASTM D5600 Trace Metals in Petroleum Coke by ICP-AES

see page 392

ASTM D5622 Total Oxygen in Gasoline & MeOH Fuels by Reductive Pyrolysis

Description (2 x 10 mL, plus an RFA gasoline blank)	Oxygenate Wt. %	Cat. No.	Price / Unit
Ethanol in Oxygenate free RFA gasoline	5.0	ASTM-P-0061-SET	$ 50 / 3 x 10 mL
Ethanol in Oxygenate free RFA gasoline	10.0	ASTM-P-0062-SET	50 / 3 x 10 mL
t-Amyl methyl ether in Oxygenate free RFA gasoline	10.0	ASTM-P-0063-SET	50 / 3 x 10 mL
t-Amyl methyl ether in Oxygenate free RFA gasoline	15.0	ASTM-P-0064-SET	50 / 3 x 10 mL
Ethyl t-butyl ether in Oxygenate free RFA gasoline	10.0	ASTM-P-0065-SET	50 / 3 x 10 mL
Ethyl t-butyl ether in Oxygenate free RFA gasoline	15.0	ASTM-P-0066-SET	50 / 3 x 10 mL
Methyl t-butyl ether in Oxygenate free RFA gasoline	10.0	ASTM-P-0067-SET	50 / 3 x 10 mL
Methyl t-butyl ether in Oxygenate free RFA gasoline	15.0	ASTM-P-0068-SET	50 / 3 x 10 mL
Methanol & t-Butanol in Oxygenate free RFA gasoline	10.0 & 5.0	ASTM-P-0069-SET	50 / 3 x 10 mL

Technical Note

All oxygenate blends come with a certificate to maintain traceability links to NIST SRMs (when available). The 10 mL size eliminates the need for special packaging and hazardous material fees.

Oxygenate Free Gasoline Refinery Blank

RFA-BLNK-10ML **$ 10 / 1 x 10 mL**

RFA Gasoline (neat)

ASTM D5623 Sulfur Compounds in Light Petroleum Liquids by GC & Sulfur Selective Detection

ASTM-P-0091-10X-SET **$ 625 / set of 22 x 1 mL**

Approx. 2.0 mg/mL each in Toluene

Compound	Cat. No.	Price / 1 mL
Hydrogen sulfide	ASTM-P-0091-01-10X	$ 35
Carbonyl sulfide (Carbon oxysulfide)	ASTM-P-0091-02-10X	35
Methyl mercaptan (Methanethiol)	ASTM-P-0091-03-10X	35
Ethyl mercaptan (Ethanethiol)	ASTM-P-0091-04-10X	35
Methyl sulfide (Dimethyl sulfide)	ASTM-P-0091-05-10X	35
Carbon disulfide	ASTM-P-0091-06-10X	35
2-Propanethiol (Isopropyl mercaptan)	ASTM-P-0091-07-10X	35
2-Methyl-2-propanethiol (t-butyl mercaptan)	ASTM-P-0091-08-10X	35
1-Propanethiol (Propyl mercaptan)	ASTM-P-0091-09-10X	35
Ethyl methyl sulfide	ASTM-P-0091-10-10X	35
1-Methyl-1-propanethiol (2-butanethiol)	ASTM-P-0091-11-10X	35
Thiophene	ASTM-P-0091-12-10X	35
2-Methyl-1-propanethiol (Isobutyl mercaptan)	ASTM-P-0091-13-10X	35
Diethyl sulfide	ASTM-P-0091-14-10X	35
1-Butanethiol (Butyl mercaptan)	ASTM-P-0091-15-10X	35
Methyl disulfide (Dimethyl disulfide)	ASTM-P-0091-16-10X	35
2-Methylthiophene	ASTM-P-0091-17-10X	35
3-Methylthiophene	ASTM-P-0091-18-10X	35
Diethyl disulfide (Ethyl disulfide)	ASTM-P-0091-19-10X	35
3-Methylbenzo[b]thiophene	ASTM-P-0091-20-10X	35
5-Methylbenzo[b]thiophene	ASTM-P-0091-21-10X	75
Diphenyl sulfide	ASTM-P-0091-22-10X	35

Technical Note

This set of qualitative Sulfur Standards is formulated for research evaluation of the presence of the sulfur analytes or their breakdown products.

ASTM D5708 Nickel, Vanadium, & Iron in Crude Oils & Residual Fuels by ICP-AES

see page 401

ASTM D5762 Nitrogen in Petroleum & Petroleum Products by Boat-Inlet Chemiluminescence

Nitrogen Calibration Set

D-5762-95-CAL-SET **$ 75 / 6 x 1 mL**

Nitrogen introduced using Acridine

Description	Cat. No.	Price / 1 mL
Xylene Blank	D-5762-95-BL	$ 10
Nitrogen @ 1.0 µg/mL in Xylene	D-5762-95-1X	15
Nitrogen @ 5.0 µg/mL in Xylene	D-5762-95-5X	15
Nitrogen @ 10 µg/mL in Xylene	D-5762-95-10X	15
Nitrogen @ 50 µg/mL in Xylene	D-5762-95-50X	15
Nitrogen @ 100 µg/mL in Xylene	D-5762-95-100X	15

Nitrogen Calibration Set - Low Level

ASTM-P-0070-SET **$ 75 / 6 x 1 mL**

Nitrogen introduced using Aniline

Description	Cat. No. (1 mL)
Isooctane Blank	ASTM-P-0070-BL
Nitrogen @ 0.5 µg/g in Isooctane	ASTM-P-0070-1X
Nitrogen @ 1.0 µg/g in Isooctane	ASTM-P-0070-2X
Nitrogen @ 2.0 µg/g in Isooctane	ASTM-P-0070-4X
Nitrogen @ 5.0 µg/g in Isooctane	ASTM-P-0070-10X
Nitrogen @ 10.0 µg/g in Isooctane	ASTM-P-0070-20X

Low Level Nitrogen & Sulfur Calibration Set

ASTM-P-0071-SET **$ 50 / 4 x 1 mL**

The Nitrogen is introduced using Aniline, the Sulfur is introduced using di-n-butyl sulfide

Description	Cat. No. (1 mL)
Benzene Blank	ASTM-P-0071-BL
Nitrogen @ 0.25 µg/g & Sulfur @ 0.25 µg/g in Benzene	ASTM-P-0071-01
Nitrogen @ 0.50 µg/g & Sulfur @ 0.50 µg/g in Benzene	ASTM-P-0071-02
Nitrogen @ 1.00 µg/g & Sulfur @ 1.00 µg/g in Benzene	ASTM-P-0071-03

Stock Nitrogen Standard

D-5762-95-500X-PAK **$ 60 / 5 x 1 mL**

Nitrogen @ 500 µg/mL in Xylene (Acridine @ 6397 µg/mL)

Custom Services

Custom Synthesis

The AccuStandard Synthesis Department employs several PhD. Organic Chemists with many years of pertinent academic and industrial experience. The experienced staff has developed hundreds of pure chemical compounds for companies and governmental agencies around the world. The very well-equipped synthetic laboratory, with significant analytical support has made many notable synthesis projects possible. We specialize in synthesizing chemicals of high purity to be used as reference standards, and also offer custom synthesis capability on milligram to kilogram scales.



Analytical Capabilities

- GC-MS, GC-FID, GC-ECD, GC-NPD
- HPLC, LC-MS
- ICP, ICP-MS
- access to more anlytical instrumentation if necessary

Synthesis and Purification

- Milligram to Kilogram Glassware
- Inert Conditions Equipment
- High Performance Flash Chromatography
- Distillation Equipment - High Vacuum, Molecular (Kugelrohr), and Spinning Band Columns Preparative TLC
- Parr Pressure and Hydrogenation Reactor

Custom Synthesized Products

- PCBs (all 209 congeners), & hydroxy, methoxy, and methylsulfonyl metabolites
- Halo-Dibenzodioxins and Furans
- PBDEs (205 out of 209 congeners) & hydroxy, methoxy, and chloro metabolites
- Fluorinated PBDEs
- Other Brominated Flame Retardants
- PBBs
- PAHs, Nitro-PAHs, Methyl-PAHs
- Pesticides and metabolites
- Explosives and metabolites
- Nonyl- and Octylphenol Ethoxylates
- Mono- and Diester Phthalates
- Organophosphates
- Other Rare Chemicals

AccuStandard is renowned for its quick response to the needs for new compounds. The company's especially strong Synthesis Department allows the synthesis of important and unique products. Featured in its history of firsts, are all of the 209 congeners of polychlorinated biphenyls (PCBs), 205 out of the 209 congeners of polybrominated diphenyl ethers (PBDEs) as well as many halogenated dioxins and dibenzofurans, PAHs, pesticides and fluorinated surrogates substituting the expensive isotopically labelled compounds.

Among the more recent introductions are the hydroxy and methoxy PBDE congeners, mixed bromo/chloro hydroxy and methoxy diphenyl ethers, organophosphate flame retardants, biofuels, plastic additives (AccuStandard authored the Handbook for the Chemical Analysis of Plastic and Polymer Additives published by CRC Press), EPA Method 535 pesticide derivatives and previously unavailable explosive standards.

Custom Formulations

With over 30,000+ custom and 10,000+ listed standards, there is a good chance that AccuStandard will have a standard to meet your needs. However, if your laboratory requires something specific, our Chemists will manufacture a Custom Standard to meet your unique requirements. Custom Standards are an economical and time saving way to have a Standard prepared for your individual needs.



Custom QC options

1. Gravimetric/Volumetric Certification: Each purity is measured gravimetrically and QC verified instrumentally (where available). Every component in the Standard is guaranteed to be within +/-0.5% of the requested value unless otherwise stated on the Certificate of Analysis. The solutions are diluted to volume using Class A glassware. A Certificate of Analysis accompanies each Standard and documents the gravimetric values used.
2. Full Quantitative Certification: This QA/QC method includes extended GC analysis using both internal calibration standards plus statistical analysis. A data package containing analytical and gravimetric data can be provided if requested during the quotation phase (Organic Customs only).

Custom Packaging & Bulk Quantity Requirements

AccuStandard has the resources and equipment to meet your custom packaging requirements.

- Automated ampule filling & sealing 0.2 mL up to 20 mL and ampule sizes from 1 mL to 20 mL
- Quantities from 500 to over 500,000 ampules
- Homogeneity testing
- Amber ampules for added product stability
- Private labeling and packaging (OEM)

We can reduce your costs using the Cozzoli Auto Filling/Sealing Machine to package just the right size product for your application. OEM Standards - Privately labeled standards manufactured and tested to your specifications. Cold and under Nitrogen sealing available.





ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

These standards and methods are used in the monitoring of total aromatics according to the methods and amendments to the US Clean Air Act. Amendments containing more stringent specifications are in effect and can be found listed under this method. Standards for Method D5769 are listed on pages 299-306.

Calibration Curve with 3 Component Deuterated Internal Standard Added

Aromatics Calibration Standards Kit
Internal Standard Version

M-GRA-CAL/IS-SET — **$ 375 / set of 5 x 1 mL**

Core Calibration Mix 24 Comps.	Target Vol. %	Std. 1 Vol. %	Std. 2 Vol. %	Std. 3 Vol. %	Std. 4 Vol. %	Std. 5 Vol. %
Benzene	3	1.50	0.75	0.375	0.1875	
Toluene	19	9.50	4.75	2.375	1.1875	
Ethylbenzene	5	2.50	1.25	0.625	0.3125	
m-Xylene	6	3.00	1.50	0.750	0.3750	
p-Xylene	6	3.00	1.50	0.750	0.3750	
o-Xylene	6	3.00	1.50	0.750	0.3750	
Isopropylbenzene	3	1.50	0.75	0.375	0.1875	
n-Propylbenzene	3	1.50	0.75	0.375	0.1875	
1-Methyl-3-ethylbenzene	3	1.50	0.75	0.375	0.1875	
1-Methyl-4-ethylbenzene	3	1.50	0.75	0.375	0.1875	
1,3,5-Trimethylbenzene	3	1.50	0.75	0.375	0.1875	
1-Methyl-2-ethylbenzene	3	1.50	0.75	0.375	0.1875	
1,2,4-Trimethylbenzene	5	2.50	1.25	0.625	0.3125	
1,2,3-Trimethylbenzene	3	1.50	0.75	0.375	0.1875	
Indan	3	1.50	0.75	0.375	0.1875	
1,4-Diethylbenzene	3	1.50	0.75	0.375	0.1875	
n-Butylbenzene	3	1.50	0.75	0.375	0.1875	
1,2-Diethylbenzene	3	1.50	0.75	0.375	0.1875	
1,2,4,5-Tetramethylbenzene	2	1.00	0.50	0.250	0.1250	
1,2,3,5-Tetramethylbenzene	2	1.00	0.50	0.250	0.1250	
Naphthalene	2	1.00	0.50	0.250	0.1250	
Pentamethylbenzene	2	1.00	0.50	0.250	0.1250	
1-Methylnaphthalene	2	1.00	0.50	0.250	0.1250	
2-Methylnaphthalene	2	1.00	0.50	0.250	0.1250	
Isooctane	--	Bal	Bal	Bal	Bal	
Internal Standard (M-GRA-IS)						
Benzene-d_6	2	2	2	2	2	
Ethylbenzene-d_{10}	2	2	2	2	2	
Naphthalene-d_8	1	1	1	1	1	

Optional Sixth Standard
Internal Standard Added

M-GRA-ADD/IS — **$ 100 / 1 x 1 mL**

Core Calibr. Mix 24 Comps.	Optional Std. 6 Target Vol. %
Benzene	2.25
Toluene	15
Ethylbenzene	3.75
m-Xylene	4.50
p-Xylene	4.50
o-Xylene	4.50
Isopropylbenzene	2.25
n-Proplylbenzene	2.25
3-Ethyltoluene	2.25
4-Ethyltoluene	2.25
1,3,5-Trimethylbenzene	2.25
2-Ethyltoluene	2.25
1,2,4-Trimethylbenzene	3.75
1,2,3-Trimethylbenzene	2.25
Indan	2.25
1,4-Diethylbenzene	2.25
n-Butylbenzene	2.25
1,2-Diethylbenzene	2.25
1,2,4,5-Tetramethylbenzene	4.0
1,2,3,5-Tetramethylbenzene	1.5
Naphthalene	1.5
Pentamethylbenzene	1.5
1-Methylnaphthalene	1.5
2-Methylnaphthalene	1.5
Isooctane	Bal
Internal Standard (M-GRA-IS)	
Benzene-d_6	2
Ethylbenzene-d_{10}	2
Naphthalene-d_8	1

Disk Deliverable
(At no additional charge)

CALAMTS™
(Disk containing "Calibration Amounts")
Eliminates hand keyed-in data.

Each analyte in each standard is individually weighed. Actual weights and weight percents are provided.

Daily Quality Control Standard
Without Internal Standard

M-GRA-QC-10ML — **$ 125 / 1 x 10 mL**
M-GRA-QC-10ML-PAK — ***SAVE 20%*** **$ 500 / 5 x 10 mL**
13 comps.

Wt. Ratio		Wt. Ratio	
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	3
Benzene	1		

Technical Note

Use with any M-GRA Calibration Curve.

Daily Quality Control Standard
With Internal Standard

M-GRA-QC/IS-5ML — **$ 100 / 1 x 5 mL**
M-GRA-QC/IS-5ML-PAK — ***SAVE 20%*** **$ 400 / 5 x 5 mL**
16 comps.

Wt. Ratio		Compound	Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	3
Benzene	1	13 comp. Core Mix	100

Includes **M-GRA-IS** (3 comp. Internal Standards mix) combined with the above 13 comp. Core Mix in a 5 to 100 weight ratio.

ASTM/EPA Sensitivity Test Solution
M-GRA-ST — **$ 10 / 1 x 1 mL**
M-GRA-ST-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
100 µg/mL in Isooctane

1,4-Diethylbenzene

3 Comp. Deuterated Internal Std. Mix
M-GRA-IS-5ML — **$ 158 / 1 x 5 mL**
M-GRA-IS-5ML-PAK — ***SAVE 20%*** **$ 632 / 5 x 5 mL**
3 comps.

Mix Ratio		Mix Ratio	
Benzene-d_6	2 mL	Naphthalene-d_8	1 gm
Ethylbenzene-d_{10}	2 mL		

ASTM D5769 continued on Next Pages

ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

Calibration Curve with 4 Component Deuterated Internal Standard Added

Aromatics Calibration Standards Kit
With Internal Standard

M-GRA-CAL-R/IS-R-SET — **$ 425 / set of 5 x 1 mL**

Core Calibr. Mix 24 comps.	Target	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene		3.13	1.78	0.95	0.490	0.2490
Toluene		19.65	11.11	5.90	3.058	1.5547
Ethylbenzene		5.12	2.92	1.55	0.805	0.4090
m-Xylene		6.27	3.50	1.86	0.962	0.4891
p-Xylene		6.33	3.50	1.86	0.962	0.4891
o-Xylene		6.51	3.56	1.89	0.980	0.4981
Isopropylbenzene		3.06	1.74	0.93	0.480	0.2439
n-Propylbenzene		3.04	1.74	0.93	0.480	0.2440
3-Ethyltoluene		3.08	1.75	0.93	0.481	0.2446
4-Ethyltoluene		3.05	1.74	0.93	0.479	0.2437
1,3,5-Trimethylbenzene		3.07	1.75	0.93	0.481	0.2448
2-Ethyltoluene		3.14	1.78	0.95	0.490	0.2492
1,2,4-Trimethylbenzene		5.18	2.95	1.57	0.812	0.4130
1,2,3-Trimethylbenzene		3.19	1.81	0.96	0.498	0.2530
Indan		3.46	1.95	1.04	0.536	0.2726
1,4-Diethylbenzene		3.04	1.74	0.93	0.480	0.2439
n-Butylbenzene		3.05	1.74	0.92	0.479	0.2434
1,2-Diethylbenzene		3.22	1.78	0.95	0.490	0.2489
1,2,4,5-Tetramethylbenzene		2.10	1.20	0.64	0.329	0.1674
1,2,3,5-Tetramethylbenzene		2.09	1.20	0.64	0.330	0.1679
Naphthalene		2.35	1.34	0.71	0.369	0.1877
Pentamethylbenzene		2.16	1.23	0.66	0.340	0.1727
1-Methylnaphthalene		2.32	1.34	0.71	0.369	0.1877
2-Methylnaphthalene		2.41	1.37	0.73	0.378	0.1922
Isooctane		-----	43.47	69.96	84.441	92.0905

Internal Standard

(M-GRA-IS-R)	Mix Ratio					
Benzene-d_6	(2 mL)	16.57	16.57	16.57	16.57	16.57
Ethylbenzene-d_{10}	(2 mL)	16.76	16.76	16.76	16.76	16.76
Naphthalene-d_8	(1 gm)	8.78	8.78	8.78	8.78	8.78
Toluene-d_8	(7 mL)	57.88	57.88	57.88	57.88	57.88

Optional Sixth Standard
With Internal Standard

M-GRA-ADD/IS-R — **$ 100 / 1 x 1 mL**

Core Calibr. Mix 24 comps.	Optional Std. 6 Target Wt. %
Benzene	2.48
Toluene	16.29
Ethylbenzene	4.07
m-Xylene	4.87
p-Xylene	4.87
o-Xylene	4.96
Isopropylbenzene	2.43
n-Propylbenzene	2.43
3-Ethyltoluene	2.44
4-Ethyltoluene	2.43
1,3,5-Trimethylbenzene	2.44
2-Ethyltoluene	2.48
1,2,4-Trimethylbenzene	4.11
1,2,3-Trimethylbenzene	2.52
Indan	2.71
1,4-Diethylbenzene	2.43
n-Butylbenzene	2.42
1,2-Diethylbenzene	2.48
1,2,4,5-Tetramethylbenzene	4.44
1,2,3,5-Tetramethylbenzene	1.67
Naphthalene	1.87
Pentamethylbenzene	1.72
1-Methylnaphthalene	1.87
2-Methylnaphthalene	1.91
Isooctane	17.67

Internal Standard

(M-GRA-IS-R)	Mix Ratio	
Benzene-d_6	(2 mL)	16.57
Ethylbenzene-d_{10}	(2 mL)	16.76
Naphthalene-d_8	(1 mL)	8.78
Toluene-d_8	(7 mL)	57.88

Technical Note

A sixth standard has been formulated to improve the linearity at the high end of the calibration curve. This can be especially helpful in the quantification of gasoline containing high levels of toluene.

Technical Note

This set of calibration solutions was formulated to improve quantification for Toluene by using Toluene-d_8 as an additional Internal Standard.

The 4 component internal standard mix (M-GRA-IS-R) is combined with the 25 component core calibration curve mixtures in a 12 to 100 weight ratio to formulate a complete calibration solution containing 29 components.

Daily Quality Control Standard
Without Internal Standard

M-GRA-QC-10ML — **$ 125 / 1 x 10 mL**

M-GRA-QC-10ML-PAK — *SAVE 20%* **$ 500 / 5 x 10 mL**

13 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	3
Benzene	1		

Daily Quality Control Standard
With Internal Standard

M-GRA-QC/IS-R-5ML — **$ 125 / 1 x 5 mL**

M-GRA-QC/IS-R-5ML-PAK — *SAVE 20%* **$ 500 / 5 x 5 mL**

17 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	3
Benzene	1	13 comp. Core Mix	100

Includes **M-GRA-IS-R** (4 comp. Internal Standard Mix) combined with the above 13 comp. Core Mix in a 12 to 100 weight ratio.

4 comp. Deuterated Internal Std. Mix

M-GRA-IS-R-10ML — **$ 225 / 1 x 10 mL**

M-GRA-IS-R-10ML-PAK — *SAVE 20%* **$ 900 / 5 x 10 mL**

4 comps.

	Mix Ratio		Mix Ratio
Benzene-d_6	2 mL	Naphthalene-d_8	1 gm
Ethylbenzene-d_{10}	2 mL	Toluene-d_8	7 mL

ASTM/EPA Sensitivity Test Solution

M-GRA-ST — **$ 10 / 1 x 1 mL**

M-GRA-ST-PAK — *SAVE 20%* **$ 40 / 5 x 1 mL**

100 µg/mL in Isooctane

1,4-Diethylbenzene

ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

Calibration Curve with No Internal Standard

Calibration Curve
Without Internal Standard

D-5769-CAL-5ML-SET $ 1500 / set of 5 x 5 mL
D-5769-CAL-10ML-SET $ 2750 / set of 5 x 10 mL

Core Calibr. Mix 23 Comps.	Target	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene		5.25	2.95	1.575	0.8144	0.4143
Toluene		19.67	11.06	5.898	3.0505	1.5519
Ethylbenzene		5.18	2.91	1.552	0.8026	0.4083
m-Xylene		6.19	3.48	1.856	0.9598	0.4883
p-Xylene		6.19	3.48	1.856	0.9598	0.4883
o-Xylene		6.30	3.54	1.890	0.9776	0.4973
Isopropylbenzene		3.09	1.74	0.925	0.4786	0.2435
n-Propylbenzene		3.09	1.74	0.926	0.4787	0.2435
3-Ethyltoluene		3.10	1.74	0.928	0.4801	0.2442
4-Ethyltoluene		3.08	1.73	0.925	0.4782	0.2433
1,3,5-Trimethylbenzene		3.10	1.74	0.929	0.4804	0.2444
2-Ethyltoluene		3.15	1.77	0.945	0.4890	0.2488
1,2,4-Trimethylbenzene		5.23	2.94	1.567	0.8104	0.4123
1,2,3-Trimethylbenzene		3.20	1.80	0.960	0.4965	0.2526
Indan		3.45	1.94	1.034	0.5350	0.2722
1,4-Diethylbenzene		3.09	1.74	0.925	0.4786	0.2435
n-Butylbenzene		3.08	1.73	0.923	0.4776	0.2430
1,2-Diethylbenzene		3.15	1.77	0.945	0.4885	0.2485
1,2,4,5-Tetramethylbenzene		2.12	1.19	0.635	0.3284	0.1671
1,2,3,5-Tetramethylbenzene		2.12	1.19	0.637	0.3295	0.1676
Naphthalene		2.37	1.34	0.712	0.3683	0.1874
1-Methylnaphthalene		2.37	1.34	0.712	0.3683	0.1874
2-Methylnaphthalene		2.43	1.37	0.730	0.3773	0.1919
Isooctane		-----	43.77	70.015	84.4922	92.1105

Optional Sixth Standard
Without Internal Standard

D-5769-ADD-5ML $ 150 / 1 x 5 mL
D-5769-ADD-10ML $ 300 / 1 x 10 mL

Core Calibration Mix 23 Comps.	Target Wt. %
Benzene	4.16
Toluene	16.41
Ethylbenzene	4.10
m-Xylene	4.91
p-Xylene	4.91
o-Xylene	5.00
Isopropylbenzene	2.45
n-Propylbenzene	2.45
3-Ethyltoluene	2.45
4-Ethyltoluene	2.44
1,3,5-Trimethylbenzene	2.46
2-Ethyltoluene	2.50
1,2,4-Trimethylbenzene	4.14
1,2,3-Trimethylbenzene	2.54
Indan	2.73
1,4-Diethylbenzene	2.45
n-Butylbenzene	2.44
1,2-Diethylbenzene	2.50
1,2,4,5-Tetramethylbenzene	1.68
1,2,3,5-Tetramethylbenzene	1.68
Naphthalene	1.88
1-Methylnaphthalene	1.88
2-Methylnaphthalene	1.93
Isooctane	19.92

Disk Deliverable
(At no additional charge)

CALAMTS™
(Disk containing "Calibration Amounts")
Eliminates hand keyed-in data.

Each analyte in each standard is individually weighed. Actual weights and weight percents are provided.

Daily Quality Control Standard
Without Internal Standard

D-5769-QC-10ML $ 125 / 1 x 10 mL
D-5769-QC-10ML-PAK *SAVE 20%* $ 500 / 5 x 10 mL
14 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	2
Benzene	1	Naphthalene	1

4 comp. Deuterated Internal Std. Mix

M-GRA-IS-R-10ML $ 225 / 1 x 10 mL
M-GRA-IS-R-10ML-PAK *SAVE 20%* $ 900 / 5 x 10 mL
4 comps.

	Mix Ratio		Mix Ratio
Benzene-d_6	2 mL	Naphthalene-d_8	1 gm
Ethylbenzene-d_{10}	2 mL	Toluene-d_8	7 mL

3 comp. Deuterated Internal Std. Mix

M-GRA-IS-5ML $ 158 / 1 x 5 mL
M-GRA-IS-5ML-PAK *SAVE 20%* $ 632 / 5 x 5 mL
3 comps.

	Mix Ratio		Mix Ratio
Benzene-d_6	2 mL	Naphthalene-d_8	1 gm
Ethylbenzene-d_{10}	2 mL		

ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

With 3 Component Internal Standard

Calibration Curve

With Internal Standard

D-5769-CAL/IS-SET **$ 375 / 5 x 1 mL**

Core Calibr. Mix 24 Comps.	Target	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene		5.25	2.95	1.575	0.8144	0.4143
Toluene		19.67	11.06	5.898	3.0505	1.5519
Ethylbenzene		5.18	2.91	1.552	0.8026	0.4083
m-Xylene		6.19	3.48	1.856	0.9598	0.4883
p-Xylene		6.19	3.48	1.856	0.9598	0.4883
o-Xylene		6.30	3.54	1.890	0.9776	0.4973
Isopropylbenzene		3.09	1.74	0.925	0.4786	0.2435
n-Propylbenzene		3.09	1.74	0.926	0.4787	0.2435
3-Ethyltoluene		3.10	1.74	0.928	0.4801	0.2442
4-Ethyltoluene		3.08	1.73	0.925	0.4782	0.2433
1,3,5-Trimethylbenzene		3.10	1.74	0.929	0.4804	0.2444
2-Ethyltoluene		3.15	1.77	0.945	0.4890	0.2488
1,2,4-Trimethylbenzene		5.23	2.94	1.567	0.8104	0.4123
1,2,3-Trimethylbenzene		3.20	1.80	0.960	0.4965	0.2526
Indan		3.45	1.94	1.034	0.5350	0.2722
1,4-Diethylbenzene		3.09	1.74	0.925	0.4786	0.2435
n-Butylbenzene		3.08	1.73	0.923	0.4776	0.2430
1,2-Diethylbenzene		3.15	1.77	0.945	0.4885	0.2485
1,2,4,5-Tetramethylbenzene		2.12	1.19	0.635	0.3284	0.1671
1,2,3,5-Tetramethylbenzene		2.12	1.19	0.637	0.3295	0.1676
Naphthalene		2.37	1.34	0.712	0.3683	0.1874
1-Methylnaphthalene		2.37	1.34	0.712	0.3683	0.1874
2-Methylnaphthalene		2.43	1.37	0.730	0.3773	0.1919
Isooctane		-----	43.77	70.015	84.4922	92.1105

Optional Sixth Standard

With Internal Standard

D-5769-ADD/IS **$ 100 / 1 x 1 mL**

Core Calibration Mix 24 Comps.	Target Wt. %
Benzene	4.16
Toluene	16.41
Ethylbenzene	4.10
m-Xylene	4.91
p-Xylene	4.91
o-Xylene	5.00
Isopropylbenzene	2.45
n-Propylbenzene	2.45
3-Ethyltoluene	2.45
4-Ethyltoluene	2.44
1,3,5-Trimethylbenzene	2.46
2-Ethyltoluene	2.50
1,2,4-Trimethylbenzene	4.14
1,2,3-Trimethylbenzene	2.54
Indan	2.73
1,4-Diethylbenzene	2.45
n-Butylbenzene	2.44
1,2-Diethylbenzene	2.50
1,2,4,5-Tetramethylbenzene	1.68
1,2,3,5-Tetramethylbenzene	1.68
Naphthalene	1.88
1-Methylnaphthalene	1.88
2-Methylnaphthalene	1.93
Isooctane	19.92

Technical Note

A sixth standard has been formulated to improve the linearity at the high end of the calibration curve. This can be especially helpful in the quantification of gasoline containing high levels of toluene.

Internal Standard

M-GRA-IS

	Mix ratio
Benzene-d_6	2 mL
Ethylbenzene-d_{10}	2 mL
Naphthalene-d_8	1 gm

The 3 comp. Internal Standard Mix (M-GRA-IS) is combined with the 24 component Core Calibration Curve Mixes above in a 5 to 100 weight ratio to formulate these 27 comp. calibration solutions.

Daily Quality Control Standard

With Internal Standard

D-5769-QC/IS-5ML **$ 100 / 1 x 5 mL**
D-5769-QC/IS-5ML-PAK ***SAVE 20%*** **$ 400 / 5 x 5 mL**
17 comps.

	Wt. Ratio
n-Hexane	12
n-Heptane	17
n-Octane	17
n-Decane	12
n-Dodecane	5
Isooctane	12
Benzene	1

	Wt. Ratio
Toluene	9
Ethylbenzene	3
m-Xylene	3
o-Xylene	3
1,2,4-Trimethylbenzene	3
1,2,4,5-Tetramethylbenzene	2
Naphthalene	1

Includes M-GRA-IS (3 comp. mix) added in 5 to 100 weight ratio

Resolution Standard

M-GRA-RES **$ 30 / 1 x 1 mL**
M-GRA-RES-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
3 comps.

	Wt. %
1,3,5-Trimethylbenzene	3.0
1-Methyl-2-ethylbenzene	3.0
Isooctane	94.0

3 comp. Deuterated Internal Std. Mix

M-GRA-IS-5ML **$ 158 / 1 x 5 mL**
M-GRA-IS-5ML-PAK ***SAVE 20%*** **$ 632 / 5 x 5 mL**
3 comps.

	Mix Ratio
Benzene-d_6	2 mL
Ethylbenzene-d_{10}	2 mL
Naphthalene-d_8	1 gm

Sensitivity Test Solution

M-GRA-ST **$ 10 / 1 x 1 mL**
M-GRA-ST-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
100 µg/mL in Isooctane

1,4-Diethyl benzene

Fragmentation Pattern Standard

M-GRA-FP **$ 20 / 1 x 1 mL**
M-GRA-FP-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
3.0% w/w in Isooctane

1,2,3-Trimethylbenzene

Mass Scan Range Standard

M-GRA-MSR **$ 20 / 1 x 1 mL**
M-GRA-MSR-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
3.0% w/w in Isooctane

Toluene

ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

With 4 Component Internal Standard (includes Toluene-d_8)

Calibration Curve with Deuterated Toluene

With Internal Standard

D-5769-CAL/IS-R-SET **$ 375 / 5 x 1 mL**

Core Calibr. Mix 24 Comps.	Std. 1 Target Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene	5.25	2.95	1.575	0.8144	0.4143
Toluene	19.67	11.06	5.898	3.0505	1.5519
Ethylbenzene	5.18	2.91	1.552	0.8026	0.4083
m-Xylene	6.19	3.48	1.856	0.9598	0.4883
p-Xylene	6.19	3.48	1.856	0.9598	0.4883
o-Xylene	6.30	3.54	1.890	0.9776	0.4973
Isopropylbenzene	3.09	1.74	0.925	0.4786	0.2435
n-Propylbenzene	3.09	1.74	0.926	0.4787	0.2435
3-Ethyltoluene	3.10	1.74	0.928	0.4801	0.2442
4-Ethyltoluene	3.08	1.73	0.925	0.4782	0.2433
1,3,5-Trimethylbenzene	3.10	1.74	0.929	0.4804	0.2444
2-Ethyltoluene	3.15	1.77	0.945	0.4890	0.2488
1,2,4-Trimethylbenzene	5.23	2.94	1.567	0.8104	0.4123
1,2,3-Trimethylbenzene	3.20	1.80	0.960	0.4965	0.2526
Indan	3.45	1.94	1.034	0.5350	0.2722
1,4-Diethylbenzene	3.09	1.74	0.925	0.4786	0.2435
n-Butylbenzene	3.08	1.73	0.923	0.4776	0.2430
1,2-Diethylbenzene	3.15	1.77	0.945	0.4885	0.2485
1,2,4,5-Tetramethylbenzene	2.12	1.19	0.635	0.3284	0.1671
1,2,3,5-Tetramethylbenzene	2.12	1.19	0.637	0.3295	0.1676
Naphthalene	2.37	1.34	0.712	0.3683	0.1874
1-Methylnaphthalene	2.37	1.34	0.712	0.3683	0.1874
2-Methylnaphthalene	2.43	1.37	0.730	0.3773	0.1919
Isooctane	-----	43.77	70.015	84.4922	92.1105

Optional Sixth Standard

With Internal Standard

D-5769-ADD/IS-R **$ 100 / 1 x 1 mL**

Core Calibration Mix 24 Comp.	Target Wt. %
Benzene	4.16
Toluene	16.41
Ethylbenzene	4.10
m-Xylene	4.91
p-Xylene	4.91
o-Xylene	5.00
Isopropylbenzene	2.45
n-Propylbenzene	2.45
3-Ethyltoluene	2.45
4-Ethyltoluene	2.44
1,3,5-Trimethylbenzene	2.46
2-Ethyltoluene	2.50
1,2,4-Trimethylbenzene	4.14
1,2,3-Trimethylbenzene	2.54
Indan	2.73
1,4-Diethylbenzene	2.45
n-Butylbenzene	2.44
1,2-Diethylbenzene	2.50
1,2,4,5-Tetramethylbenzene	1.68
1,2,3,5-Tetramethylbenzene	1.68
Naphthalene	1.88
1-Methylnaphthalene	1.88
2-Methylnaphthalene	1.93
Isooctane	19.92

Internal Standard

M-GRA-IS-R

	Mix ratio
Benzene-d_6	2 mL
Ethylbenzene-d_{10}	2 mL
Naphthalene-d_8	1 gm
Toluene-d_8	7 mL

The 4 comp. Internal Standard Mix (M-GRA-IS-R) is combined with the 24 component core calibration curve mixtures above in a 12 to 100 weight ratio to formulate these 28 component calibration solutions.

Daily Quality Control Standard

With Internal Standard

D-5769-QC/IS-R-5ML **$ 100 / 1 x 5 mL**

D-5769-QC/IS-R-5ML-PAK ***SAVE 20%*** **$ 400 / 5 x 5 mL**

18 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	2
Benzene	1	Naphthalene	1

Includes M-GRA-IS-R (4 comp. mix) added in 12 to 100 weight ratio

Sensitivity Test Solution

M-GRA-ST **$ 10 / 1 x 1 mL**

M-GRA-ST-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**

100 µg/mL in Isooctane

1,4-Diethyl benzene

Resolution Standard

M-GRA-RES **$ 30 / 1 x 1 mL**

M-GRA-RES-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**

3 comps.

	Wt. %
1,3,5-Trimethylbenzene	3.0
1-Methyl-2-ethylbenzene	3.0
Isooctane	94.0

4 comp. Deuterated Internal Std. Mix

M-GRA-IS-R-10ML **$ 225 / 1 x 10 mL**

M-GRA-IS-R-10ML-PAK ***SAVE 20%*** **$ 900 / 5 x 10 mL**

	Mix Ratio		Mix Ratio
Benzene-d_6	2 mL	Naphthalene-d_8	1 gm
Ethylbenzene-d_{10}	2 mL	Toluene-d_8	7 mL

Fragmentation Pattern Standard

M-GRA-FP **$ 20 / 1 x 1 mL**

M-GRA-FP-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**

3.0 w/w in Isooctane

1,2,3-Trimethylbenzene

ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

Proposed / Promulgated Method Modifications

Calibration Curve
With Chlorinated Internal Standard

D-5769-CAL/IS-R2-SET **$ 375 / 5 x 1 mL**

Core Calibr. Mix 24 Comps.	Target	Std. 1 Wt. %	Std. 2 Wt. %	Std. 3 Wt. %	Std. 4 Wt. %	Std. 5 Wt. %
Benzene		5.25	2.95	1.575	0.8144	0.4143
Toluene		19.67	11.06	5.898	3.0505	1.5519
Ethylbenzene		5.18	2.91	1.552	0.8026	0.4083
m-Xylene		6.19	3.48	1.856	0.9598	0.4883
p-Xylene		6.19	3.48	1.856	0.9598	0.4883
o-Xylene		6.30	3.54	1.890	0.9776	0.4973
Isopropylbenzene		3.09	1.74	0.925	0.4786	0.2435
n-Propylbenzene		3.09	1.74	0.926	0.4787	0.2435
3-Ethyltoluene		3.10	1.74	0.928	0.4801	0.2442
4-Ethyltoluene		3.08	1.73	0.925	0.4782	0.2433
1,3,5-Trimethylbenzene		3.10	1.74	0.929	0.4804	0.2444
2-Ethyltoluene		3.15	1.77	0.945	0.4890	0.2488
1,2,4-Trimethylbenzene		5.23	2.94	1.567	0.8104	0.4123
1,2,3-Trimethylbenzene		3.20	1.80	0.960	0.4965	0.2526
Indan		3.45	1.94	1.034	0.5350	0.2722
1,4-Diethylbenzene		3.09	1.74	0.925	0.4786	0.2435
n-Butylbenzene		3.08	1.73	0.923	0.4776	0.2430
1,2-Diethylbenzene		3.15	1.77	0.945	0.4885	0.2485
1,2,4,5-Tetramethylbenzene		2.12	1.19	0.635	0.3284	0.1671
1,2,3,5-Tetramethylbenzene		2.12	1.19	0.637	0.3295	0.1676
Naphthalene		2.37	1.34	0.712	0.3683	0.1874
1-Methylnaphthalene		2.37	1.34	0.712	0.3683	0.1874
2-Methylnaphthalene		2.43	1.37	0.730	0.3773	0.1919
Isooctane		-----	43.77	70.015	84.4922	92.1105

Optional Sixth Standard
With Internal Standard

D-5769-ADD/IS-R2 **$ 100 / 1 x 1 mL**

Core Calibration Mix 24 Components	Target Wt.%
Benzene	4.16
Toluene	16.41
Ethylbenzene	4.10
m-Xylene	4.91
p-Xylene	4.91
o-Xylene	5.00
Isopropylbenzene	2.45
n-Propylbenzene	2.45
3-Ethyltoluene	2.45
4-Ethyltoluene	2.44
1,3,5-Trimethylbenzene	2.46
2-Ethyltoluene	2.50
1,2,4-Trimethylbenzene	4.14
1,2,3-Trimethylbenzene	2.54
Indan	2.73
1,4-Diethylbenzene	2.45
n-Butylbenzene	2.44
1,2-Diethylbenzene	2.50
1,2,4,5-Tetramethylbenzene	1.68
1,2,3,5-Tetramethylbenzene	1.68
Naphthalene	1.88
1-Methylnaphthalene	1.88
2-Methylnaphthalene	1.93
Isooctane	19.92

Disk Deliverable
(At no additional charge)

CALAMTS™
(Disk containing "Calibration Amounts")
Eliminates hand keyed-in data.

Each analyte in each standard is individually weighed. Actual weights and weight percents are provided.

Internal Standard
M-GRA-IS-R2

	Mix ratio
Chlorobenzene	2 mL
1,2-Dichlorobenzene	2 mL
1,2,4-Trichlorobenzene	1 mL

The 3 comp. Internal Standard Mix (M-GRA-IS-R2) is combined with the 24 Comp. Core Calibration Curve mixtures above in a 5 to 100 weight ratio to formulate these 27 Comp. calibration solutions.

Daily QC Standard
With Internal Standard

D-5769-QC/IS-R2-5ML **$ 100 / 1 x 5 mL**
D-5769-QC/IS-R2-5ML-PAK ***SAVE 20%*** **$ 400 / 5 x 5 mL**
17 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	2
Benzene	1	Naphthalene	1

Includes M-GRA-IS-R2 added in 5 to 100 weight ratio.

Sensitivity Test Solution
M-GRA-ST **$ 10 / 1 x 1 mL**
M-GRA-ST-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
100 µg/mL in Isooctane

1,4-Diethyl benzene

Fragmentation Pattern Standard
M-GRA-FP **$ 20 / 1 x 1 mL**
M-GRA-FP-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
3.0 w/w in Isooctane

1,2,3-Trimethylbenzene

3 comp. Chlorinated Internal Std. Mix
M-GRA-IS-R2-VAP **$ 125 / set of 25 x 1 mL**
M-GRA-IS-R2-25ML **$ 100 / 1 x 25 mL**
3 comps.

	Mix Ratio
Chlorobenzene	2 mL
1,2-Dichlorobenzene	2 mL
1,2,4-Trichlorobenzene	1 mL

Resolution Standard
M-GRA-RES **$ 30 / 1 x 1 mL**
M-GRA-RES-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
3 comps.

	Wt. %
1,3,5-Trimethylbenzene	3.0
1-Methyl-2-ethylbenzene	3.0
Isooctane	94

ASTM D5769 Benzene, Toluene & Total Aromatics in Finished Gasoline by GC/MS

Special QA/QC Formulations

Daily QC Standard
Without Internal Standard

M-GRA-QC-R-10ML **$ 125 / 1 x 10 mL**
M-GRA-QC-R-10ML-PAK *SAVE 20%* **$ 500 / 5 x 10 mL**
15 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Ethylbenzene	3
n-Heptane	17	*m*-Xylene	3
n-Octane	17	*o*-Xylene	3
n-Decane	12	1,2,4-Trimethylbenzene	3
n-Dodecane	5	1,2,4,5-Tetramethylbenzene	1
Isooctane	12	Pentamethylbenzene	1
Benzene	1	1-Methylnaphthalene	1
Toluene	9		

For use with any M-GRA Calibration Curve

Daily QC Standard
With Internal Standard M-GRA-IS

M-GRA-QC-R/IS-5ML **$ 100 / 1 x 5 mL**
M-GRA-QC-R/IS-5ML-PAK *SAVE 20%* **$ 400 / 5 x 5 mL**
18 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Ethylbenzene	3
n-Heptane	17	*m*-Xylene	3
n-Octane	17	*o*-Xylene	3
n-Decane	12	1,2,4-Trimethylbenzene	3
n-Dodecane	5	1,2,4,5-Tetramethylbenzene	1
Isooctane	12	Pentamethylbenzene	1
Benzene	1	1-Methylnaphthalene	1
Toluene	9		

Includes M-GRA-IS combined with the above 15 comp. Core Mix in a 5 to 100 weight ratio.

3 comp. Deuterated Internal Std. Mix

M-GRA-IS-5ML **$ 158 / 1 x 5 mL**
M-GRA-IS-5ML-PAK *SAVE 20%* **$ 632 / 5 x 5 mL**
3 comps.

	Mix Ratio
Benzene-d_6	2 mL
Ethylbenzene-d_{10}	2 mL
Naphthalene-d_8	1 gm

4 comp. Deuterated Internal Std. Mix

M-GRA-IS-R-10ML **$ 225 / 1 x 10 mL**
M-GRA-IS-R-10ML-PAK *SAVE 20%* **$ 900 / 5 x 10 mL**
4 comps.

	Mix Ratio
Benzene-d_6	2 mL
Ethylbenzene-d_{10}	2 mL
Naphthalene-d_8	1 gm
Toluene-d_8	7 mL

Daily QC Standard
With Internal Standard M-GRA-IS-R

M-GRA-QCR/IS-R-5ML **$ 125 / 1 x 5 mL**
M-GRA-QCR/IS-R-5ML-PAK *SAVE 20%* **$ 500 / 5 x 5 mL**
19 comps.

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Ethylbenzene	3
n-Heptane	17	*m*-Xylene	3
n-Octane	17	*o*-Xylene	3
n-Decane	12	1,2,4-Trimethylbenzene	3
n-Dodecane	5	1,2,4,5-Tetramethylbenzene	1
Isooctane	12	Pentamethylbenzene	1
Benzene	1	1-Methylnaphthalene	1
Toluene	9		

Includes M-GRA-IS-R combined with the above 15 comp. Core Mix in a 12 to 100 weight ratio.

Aromatics for Analysis by GC/MS (Daily QC Standards) Set

Original Formulations

M-GRA-K1-SET **$ 600 / Set**

Set includes:	Units	Function
M-GRA-CAL/IS-SET	5 x 1 mL	5 Point Curve with 3 Internal Standards
M-GRA-QC/IS-5ML	1 x 5 mL	Daily QC with 3 Internal Standards
M-GRA-IS-5ML	1 x 5 mL	3 Component Internal Standard
M-GRA-ST	1 x 1 mL	Sensitivity Test Solution

4 Component Internal Standard Formulations

M-GRA-K4-SET **$ 850 / Set**

Set includes:	Units	Function
M-GRA-CAL-R/IS-R-SET	5 x 1 mL	5 Point Curve with 4 Internal Standards
M-GRA-ADD/IS-R	1 x 1 mL	6th Standard for Revison 5 F
M-GRA-QC-R/IS-R-5ML	1 x 5 mL	Daily QC with 4 Internal Standards
M-GRA-IS-R-10ML	1 x 10 mL	4 Component Internal Standard
M-GRA-ST	1 x 1 mL	Sensitivity Test Solution

Revision 5 F

M-GRA-K2-SET **$ 700 / Set**

Set includes:	Units	Function
M-GRA-CAL/IS-SET	5 x 1 mL	5 Point Curve with 3 Internal Standards
M-GRA-ADD/IS	1 x 1 mL	6th Standard for Revison 5 F
M-GRA-QC/IS-5ML	1 x 5 mL	Daily QC with 3 Internal Standards
M-GRA-IS-5ML	1 x 5 mL	3 Component Internal Standard
M-GRA-ST	1 x 1 mL	Sensitivity Test Solution

Technical Note

Used to meet the Toluene-d_8 internal standard version recommended by a network of major petroleum refineries.

ASTM D5769 Additional Internal, Deuterated and Quality Control Standards

4 comp. Deuterated Internal Std. Mix

ASTM-P-0140-IS **$ 75 / 1 x 10 mL**
ASTM-P-0140-IS-PAK *SAVE 20%* **$ 300 / 5 x 10 mL**
4 comps.

	Vol. %	Compound	Vol. %
Benzene-d_6	2	Naphthalene-d_8	1
Ethylbenzene-d_{10}	2	Isooctane *	balance

Performance Evalutation Standard

ASTM-P-0140-PES **$ 55 / 1 x 1 mL**
ASTM-P-0140-PES-PAK *SAVE 20%* **$ 220 / 5 x 1 mL**
11 comps.

	Target Vol. %
Benzene	1
1,2-Diethylbenzene	0.005
1,3,5-Trimethylbenzene	1
1-Methyl-2-ethylbenzene	1
Styrene	0.1
Indene	0.1
Biphenyl	0.1
1,2,4,5-Tetramethylbenzene	1
1,2,3,5-Tetramethylbenzene	1
Hexadecane	1
Isooctane:Toluene(1:1) *	balance

4 comp. Deuterated Internal Std. Mix

ASTM-P-0140-IS2 **$ 75 / 1 x 10 mL**
ASTM-P-0140-IS2-PAK *SAVE 20%* **$ 300 / 5 x 10 mL**
5 comps.

	Vol. %		Vol. %
Benzene-d_6	2	Toluene-d_8	7
Ethylbenzene-d_{10}	2	Isooctane *	balance
Naphthalene-d_8	1		

Composition of Daily QC Standard

ASTM-P-0140-QC **$ 125 / 1 x 10 mL**
ASTM-P-0140-QC-PAK *SAVE 20%* **$ 500 / 5 x 10 mL**
9 comps.

	Target Vol. %
Benzene	1
Toluene	10
Ethylbenzene	3
1,3-Dimethylbenzene	6
1,2-Dimethylbenzene	3
1,2,4-Trimethylbenzene	3
1,2-Diethylbenzene	0.02
Naphthalene	1
Isooctane (solvent) *	balance

[A] This component is a solid at room temperature

* The isooctane balance is the amount of material to make up a 100 mL calibration standard. Certificate will reflect actual weight of each component in the 100 mL batch including the isooctane.

ASTM D5771 Cloud Point of Petroleum Products see page 275

ASTM D5772 Cloud Point of Petroleum Products (Linear Cooling Rate Method) see page 275

ASTM D5773 Cloud Point of Petroleum Products (Constant Cooling Rate Method) see page 275

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

ASTM D5836 Determination of Diisocyanates (1,2-PP Method)

Diisocyanate Sets

D-5836-SET $ 175 / 9 x 1 mL
D-5836-01N, D-5836-02N, D-5836-03N, D-5836-04N,
D-5836-01-DER, D-5836-02-DER, D-5836-03-DER, D-5836-04-DER, D-5836-DER-5ML-VAP

Underivatized Diisocyanates

Compound	Unit	Cat. No.	Price
2,4-Toluene diisocyanate	100 mg	D-5836-01N	$ 25
2,6-Toluene diisocyanate	100 mg	D-5836-02N	25
Hexamethylene diisocyanate	100 mg	D-5836-03N	25
4,4'-Methylenebis(phenyl isocyanate)	100 mg	D-5836-04N	25

Diisocyanate Storage - Refrig 0-5° C

Derivatized Diisocyanates (Weight Compensated to 1000 µg/mL of each Diisocyanate)

Compound	Cat. No.	Price / 1 mL
N,N'-(4-Methyl-1,3-phenylene)bis[4-(2-pyridinyl)-1-piperazinecarboxyamide] 72375-21-4 **(2,4-TDIP)**	D-5836-01-DER 2840 µg/mL in DMSO	$ 25
N,N'-(2-Methyl-1,3-phenylene)bis[4-(2-pyridinyl)-1-piperazinecarboxyamide] **(2,6-TDIP)**	D-5836-02-DER 2840 µg/mL in DMSO	25
N,N'-1,6-Hexanediylbis[4-(2-pyridinyl)-1-piperazinecarboxyamide] 72375-27-0 **(1,6-HDIP)**	D-5836-03-DER 2900 µg/mL in DMSO	25
N,N'-(Methylenediphenylene)bis[4-(2-pyridinyl)-1-piperazinecarboxyamide] 72375-24-7 **(4,4'-MDIP)**	D-5836-04-DER 2280 µg/mL in DMSO	25

Derivatizing Agents

1-(2-Pyridyl)piperazine 34803-66-2	D-5836-DER-5ML-VAP 2 mg/mL in CH_2Cl_2	$ 25 / 4 x 5 mL

Individual Derivatized Diisocyanates

N,N'-(4-Methyl-1,3-phenylene)bis[4-(2-pyridinyl)-1-piperazinecarboxyamide] 72375-21-4 **(2,4-TDIP)**	D-5836-01A-DER 1000 µg/mL in DMSO	$ 25
N,N'-(2-Methyl-1,3-phenylene)bis[4-(2-pyridinyl)-1-piperazinecarboxyamide] **(2,6-TDIP)**	D-5836-02A-DER 1000 µg/mL in DMSO	$ 25
N,N'-1,6-Hexanediylbis[4-(2-pyridinyl)-1-piperazinecarboxyamide] 72375-27-0 **(1,6-HDIP)**	D-5836-03A-DER 1000 µg/mL in DMSO	$ 25
N,N'-(Methylenediphenylene)bis[4-(2-pyridinyl)-1-piperazinecarboxyamide] 72375-24-7 **(4,4'-MDIP)**	D-5836-04A-DER 1000 µg/mL in DMSO	$ 25

ASTM D5863 Ni, V, Fe, & Na in Crude Oils & Residual Fuels by Flame AA Spectrometry

see .....

ASTM D5901 Freezing Point Aviation Fuels (Automated Optical Method)

see pages 274-275

ASTM D5972 Freezing Point Aviation Fuels (Automated Phase Transition Method)

see pages 274-275

ASTM D5986 Oxygenates, Benzene, Toluene, C8-C12, Aromatics & Total Aromatics in Finished Gasolines by GC/FTIR

Daily QC Standard

Without Internal Standard

M-GRA-QC-10ML **$ 125 / 1 x 10 mL**
M-GRA-QC-10ML-PAK ***SAVE 20%*** **$ 500 / 5 x 10 mL**

	Wt. Ratio		Wt. Ratio
n-Hexane	12	Toluene	9
n-Heptane	17	Ethylbenzene	3
n-Octane	17	*m*-Xylene	3
n-Decane	12	*o*-Xylene	3
n-Dodecane	5	1,2,4-Trimethylbenzene	3
Isooctane	12	1,2,4,5-Tetramethylbenzene	3
Benzene	1	13 Comp. Core Mix	100

Technical Note

This quality control standard was formulated to meet Section 11 of ASTM D-5986 specifications stipulating to “analyze the quality control reference material before every batch of samples. Bracket the samples with the reference materials”.

ASTM D6160 Polychlorinated Biphenyls (PCBs in Waste Materials by GC)

Aroclor Standards

Aroclor #	35 µg/mL in Isooctane Cat. No.	1 mL Price	35 µg/mL in MeOH Cat. No.	1 mL Price	1000 µg/mL in Hexane Cat. No.	1 mL Price
Aroclor 1016	C-216S	$ 15	C-216S-M	$ 15	C-216S-H-10X	$ 20
Aroclor 1221	C-221S	15	C-221S-M	15	C-221S-H-10X	20
Aroclor 1232	C-232S	15	C-232S-M	15	C-232S-H-10X	20
Aroclor 1242	C-242S	15	C-242S-M	15	C-242S-H-10X	20
Aroclor 1248	C-248S	15	C-248S-M	15	C-248S-H-10X	20
Aroclor 1254	C-254S	15	C-254S-M	15	C-254S-H-10X	20
Aroclor 1260	C-260S	15	C-260S-M	15	C-260S-H-10X	20
Aroclor 1262	C-262S	15	C-262S-M	15	C-262S-H-10X	20
Aroclor 1268	C-268S	15	C-268S-M	15	C-268S-H-10X	20

ASTM D6258 Solvent Red 164 Dye Concentration in Diesel Fuels

Stock Solvent Red 26 Standard

D-6258-CONC-5ML **$ 45 / 1 x 5 mL**

Solvent Red 26 @ 300 µg/mL in Xylene

D-6258 Calibration Curve

D-6258-5ML-SET **$ 125 / 6 x 5 mL**

Set includes the following Cat. No.'s

Description	Cat. No	Unit
Xylene Blank	D-6258-BL	1 x 5 mL
Solvent Red 26 Dye @ 3 µg/mL in Xylene	D-6258-01	1 x 5 mL
Solvent Red 26 Dye @ 6 µg/mL in Xylene	D-6258-02	1 x 5 mL
Solvent Red 26 Dye @ 9 µg/mL in Xylene	D-6258-03	1 x 5 mL
Solvent Red 26 Dye @ 12 µg/mL in Xylene	D-6258-04	1 x 5 mL
Solvent Red 26 Dye @ 15 µg/mL in Xylene	D-6258-05	1 x 5 mL

Technical Note

Solvent Red 26 is the azo dye standard against which the concentration of Solvent Red 164 is measured. The visible spectrum of Solvent Red 164 is virtually identical to the spectrum of Solvent Red 26.

ASTM D6293 Oxygenates & Paraffin, Olefin, Naphthene, Aromatics (O-PONA) Hydrocarbon types in Low-Olefin Spark-Ignition Engine Fuels by GC

O-PONA System Validation Mixture

ASTM-P-0080 **$ 135 / 1 x 1 mL**

ASTM-P-0080-PAK *SAVE 20%* **$ 540 / 5 x 1 mL**

33 comps.

	Wt./Wt. %		Wt./Wt. %
Cyclopentane	1.5	Benzene	2.5
n-Pentane	1.5	Toluene	2.5
Cyclohexane	2.0	*trans*-Decahydronaphthelene	3.5
2,3-Dimethylbutane	2.0	*n*-Tetradecane	2.0
n-Hexane	2.0	Ethylbenzene	3.5
1-Hexene	1.5	*o*-Xylene	3.0
Methylcyclohexane	3.5	*n*-Propylbenzene	3.5
4-Methyl-1-hexene	1.5	1,2,4-Trimethylbenzene	3.0
n-Heptane	3.0	1,2,3-Trimethylbenzene	2.0
cis-1,2-Dimethylcyclohexane	4.5	1,2,4,5-Tetramethylbenzene	2.0
Isooctane	4.0	Pentamethylbenzene	2.5
n-Octane	4.0	Ethanol	5.0
1,2,4-Trimethylcyclohexane	3.5	*t*-Butanol	4.0
n-Nonane	3.0	MtBE	8.0
n-Decane	3.5	ETBE	3.0
n-Undecane	2.0	TAME	5.0
n-Dodecane	2.0		

O-PONA Olefin Mix

ASTM-P-0081 **$ 45 / 1 x 1 mL**

ASTM-P-0081-PAK **$ 180 / 5 x 1 mL**

At stated conc. in Hexane:Heptane (1:1)

5 comps.

	Wt./Wt. %
1-Pentene	5.0
1-Hexene	2.0
1-Heptene	2.0
1-Octene	2.0
1-Nonene	3.0

O-PONA Paraffin Mixes

ASTM-P-0082 **$ 25 / 1 x 1 mL**

ASTM-P-0082-PAK **$ 100 / 5 x 1 mL**

At stated conc. in Hexane:Heptane (1:1)

2 comps.

	Wt./Wt. %
n-Nonane	5.0
n-Decane	2.0

ASTM-P-0082-R1 **$ 25 / 1 x 1 mL**

ASTM-P-0082-R1-PAK **$ 100 / 5 x 1 mL**

At stated conc. in Hexane:Heptane (1:1)

2 comps.

	Wt./Wt. %
n-Nonane	3.0
n-Decane	3.0

ASTM D6296 Total Olefins in Spark-Ignition Engine Fuels by Multidimensional GC

System Setup & Verification Standard Set

D-6296-VER-SET — **$ 40 / 2 x 1 mL (D-6296-VER1, D-6296-VER2)**

D-6296-VER-SET-PAK — *SAVE 20%* **$ 160 / 5 x (2 x 1 mL)**
Set of 5 each **(D-6296-VER1, D-6296-VER2)**

System Setup & Verification 1

D-6296-VER1 — **1 x 1 mL**, 2 comps.

	Wt. %		Wt. %
MTBE	5%	Isooctane	95%

System Setup & Verification 2

D-6296-VER2 — **1 x 1 mL**, 2 comps.

	Wt. %		Wt. %
ETBE	5%	Isooctane	95%

Calibration Standard with MTBE

D-6296-CAL1 — **$ 65 / 1 x 1 mL**
D-6296-CAL1-PAK — *SAVE 20%* **$ 260 / 5 x 1 mL**
10 comps.

	Wt. %		Wt. %
Pentene	1.0	Decene	1.0
Hexene	1.0	Undecane	1.0
Heptene	1.0	Dodecane	1.0
Octene	1.0	Isooctane	87.0
Nonene	1.0	MTBE	5.0

Calibration Standard with ETBE

D-6296-CAL2 — **$ 65 / 1 x 1 mL**
D-6296-CAL2-PAK — *SAVE 20%* **$ 260 / 5 x 1 mL**
11 comps.

	Wt. %		Wt. %
Pentene	1.0	Decane	1.0
Hexene	1.0	Undecane	1.0
Heptene	1.0	Dodecane	1.0
Octene	1.0	Isooctane	86.0
Nonene	1.0	ETBE	5.0
Decene	1.0		

Isooctane Blank Compensation Standard

D-6296-BL — **$ 15 / 1 x 5 mL**

Isooctane (Neat)

ASTM D6304 Determination of Water in Petroleum Products Lubricating oil, and additives by Coulometric Karl Fischer Titration

see pages 275, 312

ASTM D6334 Sulfur in Gasoline by Wavelength Dispersive X-Ray Fluorescence

see pages 276-279

ASTM D6352 Boiling Range Distribution of Petroleum Distillates from 174 to 700ºC by GC

Polywax 500®

ASTM-P-0051N-2G — **$ 20 / 2 grams**

Polywax 500

Polywax 655®

ASTM-P-0053N-2G — **$ 20 / 2 grams**

Polywax 655

Hydrocarbon Window Defining Standard

DRH-008S-R2 — **$ 65 / 1 x 1 mL**
DRH-008S-R2-PAK — *SAVE 20%* **$ 260 / 5 x 1 mL**
500 µg/mL each in Chloroform — 35 comps.

Octane	Nonadecane	Triacontane
Nonane	Phytane	*n*-Hentriacontane
Decane	Eicosane	Dotriacontane
Undecane	Heneicosane	Tritriacontane
Dodecane	Docosane	Tetratriacontane
Tridecane	Tricosane	Pentatriacontane
Tetradecane	Tetracosane	Hexatriacontane
Pentadecane	Pentacosane	Heptatriacontane
Hexadecane	Hexacosane	Octatriacontane
Heptadecane	Heptacosane	Nonatriacontane
Octadecane	Octacosane	Tetracontane
Pristane	Nonacosane	

Polywax 850®

ASTM-P-0137N-2G — **$ 20 / 2 grams**

Polywax 850

Polywax 1000®

ASTM-P-0138N-2G — **$ 20 / 2 grams**

Polywax 1000

Calibration Mix

DRH-002N — **$ 30 / 100 mg**
DRH-002N-10X — **$ 40 / 1 gm**
17 comps.

	Wt. %		Wt. %
n-Hexane	6	*n*-Octadecane	5
n-Heptane	6	*n*-Eicosane	2
n-Octane	8	*n*-Tetracosane	2
n-Nonane	8	*n*-Octacosane	1
n-Decane	12	*n*-Dotriacontane	1
n-Undecane	12	*n*-Hexatriacontane	1
n-Dodecane	12	*n*-Tetracontane	1
n-Tetradecane	12	*n*-Tetratetracontane	1
n-Hexadecane	10		

Column Test Mixture

D-2887 — **$ 10 / 1 x 1 mL**
1% wt./v in n-Octane — 2 comps.

n-Hexadecane *n*-Octadecane

ASTM D6378 Vapor Pressure (VPx) of Petroleum Products, Hydrocarbons, & Hydrocarbon-Oxygenate Mixtures (Triple Expansion Method)

see page 289

ASTM D6379 Aromatic Hydrocarbon Types in Aviation Fuels & Petroleum Distillates - HPLC method with Refractive Index

System Resolution Standards

D-6379-SRS **$ 40 / 1 x 1 mL**
D-6379-SRS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated conc. (mg/mL) in n-Heptane 3 comps.

Cyclohexane	10
o-Xylene	0.5
1-Methyl naphthalene	0.05

D-6379-SRS-R1 **$ 40 / 1 x 1 mL**
D-6379-SRS-R1-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated conc. (mg/mL) in n-Heptane 3 comps.

Cyclohexane	10
o-Xylene	5
1-Methyl naphthalene	0.5

Calibration Curves

D-6379-SET **$ 100 / 4 x 1 mL**
D-6379-SET-PAK ***SAVE 20%*** **$ 400 / 5 x (4 x 1 mL)**
At stated conc. (mg/mL) in n-Heptane

Analyte	Std. 1	Std. 2	Std. 3	Std. 4
Cyclohexane	5	2	0.5	0.1
o-Xylene	15	5	1.0	0.1
1-Methyl naphthalene	5	1.0	0.2	0.05

D-6379-10X-SET **$ 100 / 4 x 1 mL**
D-6379-10X-SET-PAK ***SAVE 20%*** **$ 400 / 5 x (4 x 1 mL)**
At stated conc. (mg/mL) in n-Heptane

Analyte	Std. 1	Std. 2	Std. 3	Std. 4
Cyclohexane	50	20	5	1
o-Xylene	150	50	10	1
1-Methyl naphthalene	50	10	2	0.5

ASTM D6417 Estimation of Engine Oil Volatility by Capillary GC

see page 309

ASTM D6428 Sulfur by Combustion and Electrochemical Detection

D-6428-R1-100ML-SET **$ 300 / 7 x 100 mL**
D-6428-R1-SET **$ 65 / 7 x 1 mL**
In Isooctane

Description	D-6428-R1-100ML-SET 7 x 100 mL	D-6428-R1-SET 7 x 1 mL
Sulfur Blank	D-6428-BL-100ML	D-6428-BL
Sulfur @ 0.1 µg/g	D-6428-0.1X-100ML	D-6428-0.1X
Sulfur @ 0.5 µg/g	D-6428-0.5X-100ML	D-6428-0.5X
Sulfur @ 1.0 µg/g	D-6428-1X-100ML	D-6428-1X
Sulfur @ 2.5 µg/g	D-6428-2.5X-100ML	D-6428-2.5X
Sulfur @ 5.0 µg/g	D-6428-5X-100ML	D-6428-5X
Sulfur @ 10 µg/g	D-6428-10X-100ML	D-6428-10X

D-6428-R2-100ML-SET **$ 275 / 6 x 100 mL**
D-6428-R2-SET **$ 65 / 6 x 1 mL**
In Isooctane

Description	D-6428-R2-100ML-SET 6 x 100 mL	D-6428-R2-SET 6 x 1 mL
Sulfur Blank	D-6428-BL-100ML	D-6428-BL
Sulfur @ 10 µg/g	D-6428-10X-100ML	D-6428-10X
Sulfur @ 25 µg/g	D-6428-25X-100ML	D-6428-25X
Sulfur @ 50 µg/g	D-6428-50X-100ML	D-6428-50X
Sulfur @ 75 µg/g	D-6428-75X-100ML	D-6428-75X
Sulfur @ 100 µg/g	D-6428-100X-100ML	D-6428-100X

Technical Note

Sulfur introduced using di-n-butyl sulfide

ASTM D6443 Ca, Cl, Cu, Mg, P, S, Zn in Unused Lubricating Oils & Additives by Wave-length Dispersive X-ray Fluorescence & Spectrometry

see pages 403-404

ASTM D6445 Sulfur in Gasoline by ED - XRF

see pages 276-279

ASTM D6481 P, S, Ca and Zn in Lube Oils by ED-XRF

see pages 402-403

ASTM D6550 Olefin Content of Gasolines by SFC

Stock Olefin Calibration Standard

D-6550-CONC **$ 80 / 1 x 1 mL**
D-6550-CONC-5ML **$ 350 / 1 x 5 mL**
At stated Conc. by Wt. % 15 comps.

	Wt. %		Wt. %		Wt. %
1-Nonene	2.5	2-Methyl-1,3-butadiene	5	2-Methyl-2-pentene	10
Cyclohexene	5	4-Methyl-1-pentene	5	1-Heptene	10
1-Hexene	5	1,5-Hexadiene	3	2-Methyl-1-octene	2.5
1-Octene	5	3-Methyl-1,3-pentadiene	2	2-Methyl-1-heptene	5
1-Decene	5	2-Methyl-1-butene	25	5-Methyl-1-hexene	10

ASTM D6584 / EN 14105 Free and Total Glycerin in Biodiesel by GC

Compound	Conc.	Matrix	Cat. No.	Price / Unit
Glycerin	0.5 mg/mL	Pyridine	BF-D-6584-01	$ 25 / 2 mL
Monoolein	5 mg/mL	Pyridine	BF-D-6584-02	25 / 2 mL
1,3-Diolein	5 mg/mL	Pyridine	BF-D-6584-03	25 / 2 mL
Triolein	5 mg/mL	Pyridine	BF-D-6584-04	25 / 2 mL
(S)-(-)-1,2,4-Butanetriol	1 mg/mL	Pyridine	BF-D-6584-05-IS	145 / 5 mL
Tricaprin	8 mg/mL	Pyridine	BF-D-6584-06	145 / 5 mL
MSTFA	5 mL	Neat	BF-D-6584-07N	145 / 5 mL
Set of 7 above compounds			**BF-D-6584-SET**	**450 / 7 units**
Mix of above compounds, on right (MSTFA separate)				
Biofuel 20	0.5 mg/mL	CH_2Cl_2	BF-FU-030-D	10 / 2 mL
	20 mg/mL	CH_2Cl_2	BF-FU-030-D-40X	20 / 2 mL
Biofuel 100 Consumer grade	0.5 mg/mL	CH_2Cl_2	BF-FU-029-D	20 / 2 mL
	20 mg/mL	CH_2Cl_2	BF-FU-029-40X	45 / 2 mL
Biofuel 100	0.5 mg/mL	CH_2Cl_2	BF-FU-032-D	20 / 2 mL
	20 mg/mL	CH_2Cl_2	BF-FU-032-D-40X	45 / 2 mL

ASTM D6584 Mixture

BF-D-6584-MIX **$ 225 / 1 x 5 mL**

At stated conc. in Pyridine 6 comps.

Glycerol	0.5 mg/mL
Monoolein	5 mg/mL
1,3-Diolein	5 mg/mL
Trioctadecenoin (Olein)	5 mg/mL
(S)-(-)-1,2,4-Butanetriol	1 mg/mL
Tricaprin	8 mg/mL

Note: MSTFA (BF-D-6584-07N) can be ordered separately.

ASTM D6591 (IP 391) Aromatic Hydrocarbon Types in Middle Distillates - HPLC method with Refractive Index Detection

System Performance Standard

ASTM-P-0135 **$ 75 / 1 x 5 mL**

ASTM-P-0135-PAK ***SAVE 20%*** **$ 300 / 5 x 5 mL**

At stated conc. (mg/mL) in n-Heptane 4 comps.

Cyclohexane	10
o-Xylene	5.0
Dibenzothiophene	0.5
9-Methylanthracene	0.5

IP 391-95 Calibration Curve

ASTM-P-0136-SET **$ 145 / 4 x 1 mL**

At stated conc.(mg/mL) in n-Heptane

Analyte	Std. 1	Std. 2	Std. 3	Std. 4
Cyclohexane	50	20	5	1
o-Xylene	40	10	2.5	0.5
1-Methyl naphthalene	40	10	2.5	0.2
Phenanthrene	4	2	0.5	0.1



ASTM D6751 & ASTM D5453 Sulfur as Di-n-butyl sulfide in Biodiesel

Sulfur in Biodiesel 5%

ppm (µg/g)	% Wt.	Cat. No.	Price / 100 mL
0	0	BF-5453-B5-BL	$ 65
5	0.0005	BF-5453-B5-5X-SET	80 / 2 x 100 mL
10	0.001	BF-5453-B5-10X-SET	80 / 2 x 100 mL
15	0.0015	BF-5453-B5-15X-SET	80 / 2 x 100 mL
30	0.003	BF-5453-B5-30X	65
50	0.005	BF-5453-B5-50X	65
75	0.0075	BF-5453-B5-75X	65
100	0.01	BF-5453-B5-100X	65
200	0.02	BF-5453-B5-200X	65
500	0.05	BF-5453-B5-500X	65

Sulfur in Biodiesel 20%

0	0	BF-5453-B20-BL	$ 65
5	0.0005	BF-5453-B20-5X-SET	80 / 2 x 100 mL
10	0.001	BF-5453-B20-10X-SET	80 / 2 x 100 mL
15	0.0015	BF-5453-B20-15X-SET	80 / 2 x 100 mL
30	0.003	BF-5453-B20-30X	65
50	0.005	BF-5453-B20-50X	65
75	0.0075	BF-5453-B20-75X	65
100	0.01	BF-5453-B20-100X	65
200	0.02	BF-5453-B20-200X	65
500	0.05	BF-5453-B20-500X	65

Sulfur in Biodiesel 100%

ppm (µg/g)	% Wt.	Cat. No.	Price / 100 mL
0	0	BF-5453-B100-BL	$ 65
5	0.0005	BF-5453-B100-5X-SET	80 / 2 x 100 mL
10	0.001	BF-5453-B100-10X-SET	80 / 2 x 100 mL
15	0.0015	BF-5453-B100-15X-SET	80 / 2 x 100 mL
30	0.003	BF-5453-B100-30X	65
50	0.005	BF-5453-B100-50X	65
75	0.0075	BF-5453-B100-75X	65
100	0.01	BF-5453-B100-100X	65
200	0.02	BF-5453-B100-200X	65
500	0.05	BF-5453-B100-500X	65

Technical Note

The 5, 10 and 15 ppm sulfurs are supplied as a set including a blank. We suggest using the blank for analysis to compensate for matrix interferences, such as low levels of native sulfur.

Technical Note

All products are refinery grade stock, unless specifically marked consumer grade.

Note: 10,000 ppm = 1% Wt.

As the matrix may contain some native sulfur, AccuStandard encourages purchasing sulfur blanks for calibration analysis

Physical Standards

Compound	Conc.		Matrix	Cat. No.	Unit	Price
ASTM D2500						
Cloud Point	-16	˚C *	B5	BF-D-2500-B5	200 mL	$ 120
	-14	˚C *	B20	BF-D-2500-B20	200 mL	120
	-1	˚C *	B100	BF-D-2500-B100	200 mL	120
ASTM D93 / EN-ISO 3679						
Flash Point	60	˚C *		BF-D-93-60C	200 mL	140
	65	˚C *		BF-D-93-65C	200 mL	140
	140	˚C *		BF-D-93-140C	200 mL	140
ASTM D4951 / EN 14107						
Phosphorus Content	0.001	% Wt.	B100	BF-D-4951-B100	100 g	200
ASTM D6304 / EN ISO 12937						
(KF) Water Content	60	µg/g		BF-KF-0.6X-5ML-VAP	10 x 5 mL	70
	100	µg/g		BF-KF-1X-5ML-VAP	10 x 5 mL	50
	1000	µg/g		BF-KF-10X-5ML-VAP	10 x 5 mL	50
	5000	µg/g		BF-KF-50X-5ML-VAP	10 x 5 mL	50
ASTM D6751 / UOP 391 / EN 14108 / EN 14109						
Sodium / Potassium	100	ppm	B100	BF-UOP-391-B100	100 g	225
EN 14538						
Calcium / Magnesium	100	ppm	B100	BF-14538-B100	100 g	225

* These are nomial values and the actual value will be recorded on the certificate.



AccuStandard stands for accuracy in Cloud Points.

UOP Standards

UOP (Universal Oil Products) methods were developed to facilitate the refining industry in analyzing refinery feeds, products and process streams for compostion, purity and physical and chemical properties. In additional to the products listed below, AccuStandard can custom formulate products to fit your exact needs. Please contact our Technical Service Department for additional information.

UOP Method 543 Standard

Non-Aromatic Hydrocarbons in High-Purity Aromatics by GC.

UOP-M-543-PAK **$ 50 / 5 x 1 mL**

At stated Wt./Wt.% 2 comps.

	Wt./Wt.%
n-Dodecane	70
Toluene	30

UOP Method 551 Standard

Hexanes and Lower-Boiling Hydrocarbons in Olefin-Free Gasolines by GC. May also be used for UOP Method 690 - Octanes and Lower Boiling Hydrocarbons in Olefin-Free Gasolines by GC.

UOP-M-551-PAK **$ 50 / 5 x 1 mL**

Equal Mass % 7 comps.

n-Hexane	o-Xylene
Benzene	m-Xylene
Toluene	p-Xylene
Ethylbenzene	

UOP Method 660 Standard

UOP-M-660-PAK **$ 50 / 5 x 1 mL**

1% in Water

UOP-M-660-10X-PAK **$ 50 / 5 x 1 mL**

10% in Water

UOP-M-660-0.1X-PAK **$ 50 / 5 x 1 mL**

1000 ppm in Water

Tetramethylene sulfone

UOP Method 720 Standard

Impurities in High Purity p-Xylene by GC.

UOP-M-720-PAK **$ 50 / 5 x 1 mL**

At stated Mass % 5 comps.

	Mass %
o-Xylene	0.1
m-Xylene	0.1
Ethylbenzene	0.1
n-Undecane	1.0
p-Xylene	98.7

UOP Method 744 Standard

Aromatics in Hydrocarbons by GC.

UOP-M-744-PAK **$ 50 / 5 x 1 mL**

At stated Wt./Wt.% 8 comps.

	Wt./Wt.%
n-Heptane	25
Benzene	15
Toluene	20
m-Xylene	6.7
o-Xylene	6.6
p-Xylene	6.7
o-Ethyltoluene	10
1,2,3,4-Tetramethylbenzene	10

UOP Method 831 Standard

UOP-M-831-PAK **$ 50 / 5 x 1 mL**

10 µg/g each in Sulfolane 5 comps.

Benzene	Isopropylbenzene
Toluene	n-Nonane
Ethylbenzene	

UOP Method 868 Standard

Trace Saturates in High Purity Aromatics by GC.

UOP-M-868-PAK **$ 50 / 5 x 1 mL**

Stated conc. in Toluene 10 comps.

	µg/g
n-Butylcyclohexane	500
n-Propylcyclohexane	400
n-Decane	500
n-Nonane	500
n-Octane	300
n-Hexane	100
Ethylcyclohexane	300
Cyclohexane	100
n-Heptane	200
Methylcyclohexane	200

UOP Method 931 Standard

Trace Impurities in Mixed Xylenes by GC.

UOP-M-931-PAK **$ 50 / 5 x 1 mL**

At stated Wt./Wt.% 5 comps.

	Wt./Wt.%
Benzene	2.0
Toluene	2.0
o-Ethyltoluene	2.0
n-Undecane	2.0
n-Heptane	92.0

Skinner List for Refinery Waste

Semi-Volatiles

Base/Neutral Extractables

M-005B — **$ 150 / 1 x 1 mL**
M-005B-PAK — ***SAVE 20%*** **$ 600 / 5 x 1 mL**
0.2 mg/mL each in CH_2Cl_2
M-005B-10X — **$ 200 / 1 x 1 mL**
M-005B-10X-PAK — ***SAVE 20%*** **$ 800 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 27 comps.

- Anthracene
- Benzo[a]anthracene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Benzo[a]pyrene
- bis(2-Ethylhexyl)phthalate
- Butyl benzyl phthalate
- Chrysene
- Dibenz[a,h]acridine
- Dibenz[a,h]anthracene
- *o*-Dichlorobenzene
- *m*-Dichlorobenzene
- *p*-Dichlorobenzene
- Diethyl phthalate
- 7,12-Dimethylbenz[a]anthracene
- Dimethyl phthalate
- Di-*n*-butyl phthalate
- Di-*n*-octyl phthalate
- Indene
- Fluoranthene
- 6-Methylchrysene
- 1-Methylnaphthalene
- Naphthalene
- Phenanthrene
- Pyrene
- Pyridine
- Quinoline

Acid Extractables

M-005A — **$ 35 / 1 x 1 mL**
M-005A-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
0.2 mg/mL each in CH_2Cl_2
M-005A-10X — **$ 40 / 1 x 1 mL**
M-005A-10X-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 8 comps.

- *o*-Cresol
- *m*-Cresol
- *p*-Cresol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 4-Nitrophenol
- Phenol
- Thiophenol

Volatiles

M-005V — **$ 35 / 1 x 1 mL**
M-005V-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
0.2 mg/mL each in MeOH
M-005V-10X — **$ 40 / 1 x 1 mL**
M-005V-10X-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 14 comps.

- Benzene
- Carbon disulfide
- Chlorobenzene
- Chloroform
- 1,2-Dichloroethane
- 1,4-Dioxane
- Ethyl benzene
- Ethylene dibromide
- Methyl ethyl ketone
- Styrene
- Toluene
- *o*-Xylene
- *m*-Xylene
- *p*-Xylene

Resolution Check for Fire Debris Analysis

ASTM E1387 Resolution Check Mix

ASTM-E1387 — **$ 30 / 1 x 1 mL**
ASTM-E1387-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 — 13 comps.

- Decane
- Dodecane
- Eicosane
- 2-Ethyltoluene
- 3-Ethyltoluene
- Hexadecane
- Hexane
- Octadecane
- Octane
- Tetradecane
- Toluene
- 1,2,4-Trimethylbenzene
- *p*-Xylene

ASTM E1618 Test Mix for Fire Debris Analysis

ASTM-E1618 — **$ 35 / 1 x 1 mL**
ASTM-E1618-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
0.05% v/v (0.50 µL/mL) each in CH_2Cl_2 — 13 comps.

- *n*-Decane
- *n*-Dodecane
- *n*-Eicosane
- *o*-Ethyltoluene
- *m*-Ethyltoluene
- *n*-Hexadecane
- *n*-Hexane
- *n*-Octadecane
- *n*-Octane
- *n*-Tetradecane
- Toluene
- 1,2,4-Trimethylbenzene
- *p*-Xylene

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

BioFuel Standards



ASTM, EN and other test methods have been developed to monitor the properties (physical and chemical), constituent distribution, impurities and suitability of use.

The source materials that are used to produce these fuels vary from plant oils, ethyl alcohol (usually from corn) and even waste products.

Biodiesel refineries have opened all over the world.

- The Minister for the Environment and Heritage of Australia has signed the Fuel Standard (Biodiesel) in 2006 which sets out the physical and chemical parameters with the associated test methods to determine compliance.
- In Germany the sale of biodiesel in gas stations is over 2 million cubic meters.
- In the USA, some state legislatures have mandated 2% biodiesel content in all diesels sold in those states.

ASTM D6584 / EN 14105 Free and Total Glycerin in Biodiesel by GC

Compound	Qty. /	Conc.	Matrix	Cat. No.	Price / Unit
Glycerin	0.5	mg/mL	Pyridine	BF-D-6584-01	$ 25 / 2 mL
Monoolein	5	mg/mL	Pyridine	BF-D-6584-02	25 / 2 mL
1,3-Diolein	5	mg/mL	Pyridine	BF-D-6584-03	25 / 2 mL
Triolein	5	mg/mL	Pyridine	BF-D-6584-04	25 / 2 mL
(S)-(-)-1,2,4-Butanetriol	1	mg/mL	Pyridine	BF-D-6584-05-IS	145 / 5 mL
Tricaprin	8	mg/mL	Pyridine	BF-D-6584-06	145 / 5 mL
MSTFA	5	mL	Neat	BF-D-6584-07N	145 / 5 mL
Set of 7 above compounds				**BF-D-6584-SET**	**450 / 7 units**
Mix of above compounds, on right (MSTFA separate)					
Biofuel 20	0.5	mg/mL	CH_2Cl_2	BF-FU-030-D	10 / 2 mL
	20	mg/mL	CH_2Cl_2	BF-FU-030-D-40X	20 / 2 mL
Biofuel 100 Consumer grade	0.5	mg/mL	CH_2Cl_2	BF-FU-029-D	20 / 2 mL
	20	mg/mL	CH_2Cl_2	BF-FU-029-40X	45 / 2 mL
Biofuel 100	0.5	mg/mL	CH_2Cl_2	BF-FU-032-D	20 / 2 mL
	20	mg/mL	CH_2Cl_2	BF-FU-032-D-40X	45 / 2 mL

ASTM D6584 Mixture

BF-D-6584-MIX **$ 225 / 1 x 5 mL**

At stated conc. in Pyridine 6 comps.

Glycerol	0.5 mg/mL
Monoolein	5 mg/mL
1,3-Diolein	5 mg/mL
Trioctadecenoin (Olein)	5 mg/mL
(S)-(-)-1,2,4-Butanetriol	1 mg/mL
Tricaprin	8 mg/mL

Note: MSTFA (BF-D-6584-07N) can be ordered separately.

EN 14103 Fatty Acid Methyl Esters (FAMEs)

The methyl esters in the mixture are those derived from typical glycerides present in biomass sources.

Soy & Corn

BF-SOY-ME **$ 145 / 100 mg**

16:0 Palmitate	6% Wt.
18:0 Stearate	3% Wt.
20:0 Arachidate	3% Wt.
18:1 Oleate	35% Wt.
18:2 Linoleate	50% Wt.
18:3 Linolenate	3% Wt.

Rapeseed Oil

BF-RAP-ME **$ 200 / 100 mg**

14:0 Myristate	1% Wt.
16:0 Palmitate	4% Wt.
18:0 Stearate	3% Wt.
20:0 Arachidate	3% Wt.
22:0 Behenate	3% Wt.
24:0 Lignocerate	3% Wt.
18:1 Oleate	60% Wt.
22:1 Erucate	5% Wt.
18:2 Linoleate	12% Wt.
18:3 Linolenate	5% Wt.
20:1 Eicosenoate	1% Wt.

Palm Kernel

BF-PALM-ME **$ 200 / 100 mg**

8:0 Caprylate	7% Wt.
10:0 Caprate	5% Wt.
12:0 Laurate	48% Wt.
14:0 Myristate	15% Wt.
16:0 Palmitate	7% Wt.
18:0 Stearate	3% Wt.
18:1 Oleate	12% Wt.
18:2 Linoleate	3% Wt.

Beef Tallow & Palm Oil

BF-BT-ME **$ 175 / 100 mg**

14:0 Myristate	2% Wt.
16:0 Palmitate	30% Wt.
16:1 Palmitoleate	3% Wt.
18:0 Stearate	14% Wt.
18:1 Oleate	41% Wt.
18:2 Linoleate	7% Wt.
18:3 Linolenate	3% Wt.

Percent Methanol Calibration Standard Set (EN 14110)

BF-MEOH-SET **$ 65 / 5 x 1 mL**

BF-MEOH-1X (100 µg/g)
BF-MEOH-5X (500 µg/g)
BF-MEOH-10X (1000 µg/g)
BF-MEOH-25X (2500 µg/g)
BF-MEOH-50X (5000 µg/g)

Methanol in Water

Technical Note

All products are refinery grade stock, unless specifically marked consumer grade.

Technical Note

Individual Mixes packaged under Nitrogen for stability.

Fatty Acid Ethyl Esters (FAEEs)

Ethyl Esters in Soy & Corn

BF-SOY-EE	$ 185 / 100 mg
16:0 Ethyl palmitate	6% Wt.
18:0 Ethyl stearate	3% Wt.
20:0 Ethyl arachidate	3% Wt.
18:1 Ethyl oleate	35% Wt.
18:2 Ethyl linoleate	50% Wt.
18:3 Ethyl linolenate	3% Wt.

Ethyl Esters in Rapeseed Oil

BF-RAP-EE	$ 250 / 100 mg
14:0 Ethyl myristate	1% Wt.
16:0 Ethyl palmitate	4% Wt.
18:0 Ethyl stearate	3% Wt.
20:0 Ethyl arachidate	3% Wt.
22:0 Ethyl behenate	3% Wt.
24:0 Ethyl lignocerate	3% Wt.
18:1 Ethyl oleate	60% Wt.
22:1 Ethyl erucate	5% Wt.
18:2 Ethyl linoleate	12% Wt.
18:3 Ethyl linolenate	5% Wt.
20:1 Ethyl eicosenoate	1% Wt.

Ethyl Esters in Palm Kernel Oil

BF-PALM-EE	$ 250 / 100 mg
8:0 Ethyl caprylate	7% Wt.
10:0 Ethyl caprate	5% Wt.
12:0 Ethyl laurate	48% Wt.
14:0 Ethyl myristate	15% Wt.
16:0 Ethyl palmitate	7% Wt.
18:0 Ethyl stearate	3% Wt.
18:1 Ethyl oleate	12% Wt.
18:2 Ethyl linoleate	3% Wt.

Ethyl Esters in Beef Tallow

BF-BT-EE	$ 225 / 100 mg
14:0 Ethyl myristate	2% Wt.
16:0 Ethyl palmitate	30% Wt.
16:1 Ethyl palmitoleate	3% Wt.
18:0 Ethyl stearate	14% Wt.
18:1 Ethyl oleate	41% Wt.
18:2 Ethyl linoleate	7% Wt.
18:3 Ethyl linolenate	3% Wt.

	Neat (100 mg)		Solution (10 mg/mL in Hexane)	
Compound	Cat. No.	Price	Cat. No.	Price / 1 mL
Ethyl palmitate (16:0)	FAEE-006N	$ 15	FAEE-006S	$ 15
Ethyl stearate (18:0)	FAEE-007N	15	FAEE-007S	15
Ethyl arachidate (20:0)	FAEE-008N	15	FAEE-008S	15
Ethyl oleate (18:1)	FAEE-014N	15	FAEE-014S	15
Ethyl linoleate (18:2)	FAEE-012N	15	FAEE-012S	15
Ethyl linolenate (18:3)	FAEE-016N	15	FAEE-016S	15
Ethyl myristate (14:0)	FAEE-005N	15	FAEE-005S	15
Ethyl behenate (22:0)	FAEE-009N	15	FAEE-009S	15
Ethyl lignocerate (24:0)	FAEE-010N	25	FAEE-010S	25
Ethyl erucate (22:1)	FAEE-011N	15	FAEE-011S	15
Ethyl caprylate (8:0)	FAEE-002N	15	FAEE-002S	15
Ethyl caprate (10:0)	FAEE-003N	15	FAEE-003S	15
Ethyl laurate (12:0)	FAEE-004N	15	FAEE-004S	15
Ethyl palmitoleate (16:1)	FAEE-001N	15	FAEE-001S	15
Ethyl nervonate (24:1)	FAEE-013N	25	FAEE-013S	25
Ethyl heptadecanoate (17:0)	FAEE-015N	15	FAEE-015S	15
Ethyl linolenate (gamma) (18:3)	FAEE-020N	35	FAEE-020S	35

ASTM D6751 & ASTM D5453 Sulfur as Di-n-butyl sulfide in Biodiesel

Sulfur in Biodiesel 5%

ppm (µg/g)	% Wt.	Cat. No.	Price / 100 mL
0	0	BF-5453-B5-BL	$ 65
5	0.0005	BF-5453-B5-5X-SET	80 / 2 x 100 mL
10	0.001	BF-5453-B5-10X-SET	80 / 2 x 100 mL
15	0.0015	BF-5453-B5-15X-SET	80 / 2 x 100 mL
30	0.003	BF-5453-B5-30X	65
50	0.005	BF-5453-B5-50X	65
75	0.0075	BF-5453-B5-75X	65
100	0.01	BF-5453-B5-100X	65
200	0.02	BF-5453-B5-200X	65
500	0.05	BF-5453-B5-500X	65

Sulfur in Biodiesel 20%

0	0	BF-5453-B20-BL	$ 65
5	0.0005	BF-5453-B20-5X-SET	80 / 2 x 100 mL
10	0.001	BF-5453-B20-10X-SET	80 / 2 x 100 mL
15	0.0015	BF-5453-B20-15X-SET	80 / 2 x 100 mL
30	0.003	BF-5453-B20-30X	65
50	0.005	BF-5453-B20-50X	65
75	0.0075	BF-5453-B20-75X	65
100	0.01	BF-5453-B20-100X	65
200	0.02	BF-5453-B20-200X	65
500	0.05	BF-5453-B20-500X	65

Note: 10,000 ppm = 1% Wt.

Sulfur in Biodiesel 100%

ppm (µg/g)	% Wt.	Cat. No.	Price / 100 mL
0	0	BF-5453-B100-BL	$ 65
5	0.0005	BF-5453-B100-5X-SET	80 / 2 x 100 mL
10	0.001	BF-5453-B100-10X-SET	80 / 2 x 100 mL
15	0.0015	BF-5453-B100-15X-SET	80 / 2 x 100 mL
30	0.003	BF-5453-B100-30X	65
50	0.005	BF-5453-B100-50X	65
75	0.0075	BF-5453-B100-75X	65
100	0.01	BF-5453-B100-100X	65
200	0.02	BF-5453-B100-200X	65
500	0.05	BF-5453-B100-500X	65

Technical Note

The 5, 10 and 15 ppm sulfurs are supplied as a set including a blank. We suggest using the blank for analysis to compensate for matrix interferences, such as low levels of native sulfur.

Technical Note

All products are refinery grade stock, unless specifically marked consumer grade.

BioFuel Standards

Physical Standards

Compound	Conc.		Matrix	Cat. No.	Unit	Price
ASTM D2500						
Cloud Point	-16	˚C *	B5	BF-D-2500-B5	200 mL	$ 120
	-14	˚C *	B20	BF-D-2500-B20	200 mL	120
	-1	˚C *	B100	BF-D-2500-B100	200 mL	120
ASTM D93 / EN-ISO 3679						
Flash Point	60	˚C *		BF-D-93-60C	200 mL	140
	65	˚C *		BF-D-93-65C	200 mL	140
	140	˚C *		BF-D-93-140C	200 mL	140
ASTM D4951 / EN 14107						
Phosphorus Content	0.001	% Wt.	B100	BF-D-4951-B100	100 g	200
ASTM D6304 / EN ISO 12937						
(KF) Water Content	60	µg/g		BF-KF-0.6X-5ML-VAP	10 x 5 mL	70
	100	µg/g		BF-KF-1X-5ML-VAP	10 x 5 mL	50
	1000	µg/g		BF-KF-10X-5ML-VAP	10 x 5 mL	50
	5000	µg/g		BF-KF-50X-5ML-VAP	10 x 5 mL	50
ASTM D6751 / UOP 391 / EN 14108 / EN 14109						
Sodium / Potassium	100	ppm	B100	BF-UOP-391-B100	100 g	225
EN 14538						
Calcium / Magnesium	100	ppm	B100	BF-14538-B100	100 g	225

* These are nomial values and the actual value will be recorded on the certificate.



AccuStandard stands for accuracy in Cloud Points.

EN 14214 Wear Metals

Each is 100 grams at 500 µg/g concentration.

Compound	Matrix	Cat. No.	Price / 100 grams
Aluminum	B100	BF-WM-B100-01-0.5X	200
Calcium	B100	BF-WM-B100-09-0.5X	200
Chromium	B100	BF-WM-B100-13-0.5X	200
Copper	B100	BF-WM-B100-15-0.5X	200
Iron	B100	BF-WM-B100-27-0.5X	200
Lead	B100	BF-WM-B100-29-0.5X	200
Magnesium	B100	BF-WM-B100-32-0.5X	200
Phosphorus	B100	BF-WM-B100-41-0.5X	200
Potassium	B100	BF-WM-B100-43-0.5X	200
Sodium	B100	BF-WM-B100-54-0.5X	200
Zinc	B100	BF-WM-B100-70-0.5X	200

Technical Note

Formulations for EN 12916, other methods and custom formulations are available.

Biofuel Blank

B100

BF-WM-B100-BL-1 **$ 85 / 100 g**
BF-WM-B100-BL-5 **$ 125 / 500 g**

Biofuel Metals Mix

Multi-Element Biofuel Standard

BF-WM-B100-MIX1 **$ 275 / 100 g**
200 µg/g each in B100 5 comps.

Ca (Calcium)
K (Potassium)
Mg (Magnesium)
Na (Sodium)
P (Phosphorus)

Technical Note

Algae, as a biofuel feedstock, yields energy balances higher than even soybeans. (source: “Widescale Biodiesel Production from Algae”, Briggs, Michael, University of New Hampshire Biodiesel Group, UNH (revised August 2004) page 8.

Technical Note

“Liquid biofuels have been used since the early days of the car industry. Nikolaus August Otto, the German inventor of the combustion engine, conceived his invention to run on ethanol. Rudolf Diesel, the German inventor of the Diesel engine, designed it to run on peanut oil. Henry Ford originally designed the Ford Model T, a car produced from 1903 to 1926, to run completely on ethanol.” (source: http://en.wikipedia.org/wiki/Biofuel Retrieved 8/31/2007).

TPH & Fuel & Hydrocarbons

Petroleum is a broadly defined class of liquid hydrocarbon mixtures that are used in a large variety of products for many different uses. In general, they are oil-based products that can be obtained by distillation and are normally used outside the refining industry. Petroleum products include aviation gasoline, motor gasoline, jet fuels, kerosene, gas/diesel oil, heavy fuel oil, naphtha, and lubricants among others.

Most analytical methods for petroleum products focus on the level of benzene, toluene, ethyl benzene and xylene (BTEX), the total petroleum hydrocarbon number (TPH) and the finger print of the petroleum product.

Individual Fuel and Hydrocarbons

Compound	Conc.	Matrix	Cat. No.	Price / 1 mL
5-alpha Androstane	1 mg/mL	CH_2Cl_2	GRH-IS	$ 15
438-22-2	10 mg/mL	CH_2Cl_2	GRH-IS-10X	30
Arctic Diesel	0.5 mg/mL	MeOH	FU-023	10
	20 mg/mL	MeOH	FU-023-40X	20
	20 mg/mL	CH_2Cl_2	FU-023-D-40X	20
Aviation (gas)	0.5 mg/mL	MeOH	GA-004	10
(grade 100-LL)	20 mg/mL	MeOH	GA-004-40X	20
	20 mg/mL	CH_2Cl_2	GA-004-D-40X	20
Biodiesel 20	0.5 mg/mL	CH_2Cl_2	FU-030-D	10
	20 mg/mL	CH_2Cl_2	FU-030-D-40X	25
Biodiesel 100	0.5 mg/mL	CH_2Cl_2	FU-029-D	20
	20 mg/mL	CH_2Cl_2	FU-029-D-40X	45
Biodiesel 100	0.5 mg/mL	CH_2Cl_2	FU-032-D	20
(refinery grade)	20 mg/mL	CH_2Cl_2	FU-032-D-40X	45
p-Bromofluorobenzene	2.5 mg/mL	Acetone	GARH-SS	20
460-00-4				
1-Chloro-4-fluorobenzene	2 mg/mL	MeOH	AK-101.0-IS-10X	20
352-33-0				
1-Chlorooctadecane	1 mg/mL	Hexane	DRH-007-SS	**15**
3386-33-2				
1-Chloro-4-fluorobenzene	1 mg/mL	CH_2Cl_2	GARH-IS	15
352-33-0				
2,5-Dibromotoluene	50 µg/mL	MeOH	GRH-004-SS	10
615-59-8	500 µg/mL	MeOH	GRH-004-SS-10X	20
	5 mg/mL	MeOH	GRH-004-SS-100X	20
Diesel	0.5 mg/mL	MeOH	FU-009	10
	5 mg/mL	CH_2Cl_2	FU-009-D-10X	20
	20 mg/mL	MeOH	FU-009-40X	20
	20 mg/mL	CH_2Cl_2	FU-009-D-40X	20
#1 Diesel - Low Sulfur	0.5 mg/mL	MeOH	FU-013	10
	20 mg/mL	MeOH	FU-013-40X	20
	20 mg/mL	CH_2Cl_2	FU-013-D-40X	20
#2 Diesel	50 mg/mL	Acetone	AK-102-LCS-R1-10X	20
68334-30-5				
#2 Diesel	0.5 mg/mL	MeOH	FU-017	10
(Extra Low Sulfur)	5 mg/mL	CH_2Cl_2	FU-017-D-10X	20
68476-43-6	5 mg/mL	Acetone	AK-102.0-LCS	10
	50 mg/mL	Acetone	AK-102.0-LCS-10X	20
	20 mg/mL	MeOH	FU-017-40X	20
	20 mg/mL	CH_2Cl_2	FU-017-D-40X	20
#2 Diesel (Low Sulfur)	5 mg/mL	CH_2Cl_2	FD2-W25-10X	25
25% Weathered				
#2 Diesel (Low Sulfur)	5 mg/mL	CH_2Cl_2	FD2-W50-10X	25
50% Weathered				
#2 Diesel (Low Sulfur)	5 mg/mL	CH_2Cl_2	FD2-W75-10X	25
75% Weathered				
#2 Diesel	5 mg/mL	CH_2Cl_2	FD2-W25-R1-10X	25
25% Weathered				
#2 Diesel	5 mg/mL	CH_2Cl_2	FD2-W50-R1-10X	25
50% Weathered				
#2 Diesel	5 mg/mL	CH_2Cl_2	FD2-W75-R1-10X	25
75% Weathered				
Docosane	50 % w/w	Toluene	D-5186-91-PM	20
629-97-0				
n-Dodecane	5 mg/mL	MeOH	AS-E0238	32
112-40-3	1.5 % w/w	Isooctane	M-GRA-SCS-AS	10
#1 Fuel oil	0.5 mg/mL	MeOH	FU-001	10
70892-10-3	20 mg/mL	MeOH	FU-001-40X	20
	20 mg/mL	CH_2Cl_2	FU-001-D-40X	20
#2 Fuel oil	0.5 mg/mL	MeOH	FU-002	10
68476-30-2	20 mg/mL	MeOH	FU-002-40X	20
	20 mg/mL	CH_2Cl_2	FU-002-D-40X	20
#3 Fuel oil	0.5 mg/mL	Hexane	FU-003	10
	20 mg/mL	Hexane	FU-003-40X	20
	20 mg/mL	CH_2Cl_2	FU-003-D-40X	20
#4 Fuel oil	0.5 mg/mL	Hexane	FU-004	10
68476-31-3	20 mg/mL	Hexane	FU-004-40X	20
	20 mg/mL	CH_2Cl_2	FU-004-D-40X	20
#6 Fuel Oil	0.5 mg/mL	Hexane	FU-008	$ 10
68553-00-4	20 mg/mL	Hexane	FU-008-40X	20
	20 mg/mL	CH_2Cl_2	FU-008-D-40X	20
Gasoline	0.5 mg/mL	MeOH	GA-001	10
Regular, unleaded	5 mg/mL	MeOH	GA-001-10X	20
	20 mg/mL	MeOH	GA-001-40X	22
	20 mg/mL	CH_2Cl_2	GA-001-D-40X	20
Gasoline	0.5 mg/mL	MeOH	GA-003	10
Premium	20 mg/mL	MeOH	GA-003-40X	20
	20 mg/mL	CH_2Cl_2	GA-003-D-40X	20
Hydraulic Fluid	0.5 mg/mL	Hexane	FU-020-H	10
64742-54-7	20 mg/mL	Hexane	FU-020-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-020-D-40X	20
Jet Reference Fuel	0.5 mg/mL	MeOH	FU-011	10
Type I	20 mg/mL	MeOH	FU-011-40X	20
	20 mg/mL	CH_2Cl_2	FU-011-D-40X	20
JP-4 Jet Fuel	0.5 mg/mL	MeOH	FU-010	10
(weathered)	20 mg/mL	MeOH	FU-010-40X	20
	20 mg/mL	CH_2Cl_2	FU-010-D-40X	20
JP-5 Fuel	0.5 mg/mL	MeOH	FU-012	10
	20 mg/mL	MeOH	FU-012-40X	20
	20 mg/mL	CH_2Cl_2	FU-012-D-40X	20
JP-7 Fuel	0.5 mg/mL	MeOH	FU-014	10
	20 mg/mL	MeOH	FU-014-40X	20
	20 mg/mL	CH_2Cl_2	FU-014-D-40X	20
JP-8 Fuel	0.5 mg/mL	MeOH	FU-015	10
	20 mg/mL	MeOH	FU-015-40X	20
	20 mg/mL	CH_2Cl_2	FU-015-D-40X	20
JP-TS Aviation Fuel	0.5 mg/mL	MeOH	FU-016	10
64742-47-8	20 mg/mL	MeOH	FU-016-40X	20
	20 mg/mL	CH_2Cl_2	FU-016-D-40X	20
JP-10 Aviation Fuel	0.5 mg/mL	MeOH	FU-022	10
2825-82-3	20 mg/mL	MeOH	FU-022-40X	20
	20 mg/mL	CH_2Cl_2	FU-022-D-40X	20
Kerosene	5 mg/mL	CH_2Cl_2	FK-W25-10X	25
25% Weathered				
Kerosene	5 mg/mL	CH_2Cl_2	FK-W50-10X	25
50% Weathered				
Kerosene	5 mg/mL	CH_2Cl_2	FK-W75-10X	25
75% Weathered				
Kerosene	0.5 mg/mL	MeOH	FU-005	10
8008-20-6	20 mg/mL	MeOH	FU-005-40X	20
	5 mg/mL	CH_2Cl_2	FU-005-D-10X	20
	20 mg/mL	CH_2Cl_2	FU-005-D-40X	20
Lacquer Thinner	1 gram	Neat	HS-001N	20
	0.5 mg/mL	MeOH	HS-001S	10
	20 mg/mL	MeOH	HS-001S-40X	20
	20 mg/mL	CH_2Cl_2	HS-001S-D-40X	20
Mineral Spirits	1 gram	Neat	HS-002N	20
8030-30-6	0.5 mg/mL	MeOH	HS-002S	10
	20 mg/mL	MeOH	HS-002S-40X	20
	20 mg/mL	CH_2Cl_2	HS-002S-D-40X	20
Naphtha	1 gram	Neat	HS-003N	20
64742-89-8	0.5 mg/mL	MeOH	HS-003S	10
	20 mg/mL	MeOH	HS-003S-40X	20
	20 mg/mL	CH_2Cl_2	HS-003S-D-40X	20
Nonatriacontane	750 µg/mL	Chloroform	DRH-FL-SS-R1	60
7194-86-7	1 mg/mL	CS_2	DRH-FL-SS	20
	3 mg/mL	CS_2	DRH-FL-SS-3X	27
n-Pentadecane	5 mg/mL	MeOH	AS-E0241	32
629-62-9				
RFA Gasoline	0.5 mg/mL	MeOH	GA-005	10
(oxygenate-free)	20 mg/mL	MeOH	GA-005-40X	20
	20 mg/mL	CH_2Cl_2	GA-005-D-40X	20
Regular Leaded Gasoline	0.5 mg/mL	MeOH	GA-002	10
	20 mg/mL	MeOH	GA-002-40X	20
	20 mg/mL	CH_2Cl_2	GA-002-D-40X	20

Individual Fuel and Hydrocarbons

Compound	Conc.	Matrix	Cat. No.	Price / 1 mL
SAE 5W30 Motor oil	0.5 mg/mL	Hexane	FU-025-H	$ 10
	20 mg/mL	Hexane	FU-025-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-025-D-40X	20
SAE 10W30 Motor oil	0.5 mg/mL	Hexane	FU-026-H	10
	20 mg/mL	Hexane	FU-026-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-026-D-40X	20
SAE 10W40 Motor oil	0.5 mg/mL	Hexane	FU-027-H	10
	20 mg/mL	Hexane	FU-027-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-027-D-40X	20
SAE 20W50 Motor oil	0.5 mg/mL	Hexane	FU-028-H	10
	20 mg/mL	Hexane	FU-028-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-028-D-40X	20
SAE 30W Motor oil	0.5 mg/mL	Hexane	FU-018-H	10
	20 mg/mL	Hexane	FU-018-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-018-D-40X	20
SAE 40W Motor oil	0.5 mg/mL	Hexane	FU-019-H	10
	5 mg/mL	Acetone	AK-103.0-LCS	10
	20 mg/mL	Hexane	FU-019-H-40X	20
	20 mg/mL	CH_2Cl_2	FU-019-D-40X	20
	25 mg/mL	Acetone:CH_2Cl_2	AK-103.0-LCS-5X	20
SAE 50W Motor oil	20 mg/mL	CH_2Cl_2	FU-021-D-40X	20
Stoddard solvent 8052-41-3	1 gram	Neat	HS-005N	20
	0.5 mg/mL	MeOH	HS-005S	10
	5 mg/mL	MeOH	HS-005S-10X	20
	20 mg/mL	MeOH	HS-005S-40X	20
	20 mg/mL	CH_2Cl_2	HS-005S-D-40X	20

Compound	Conc.	Matrix	Cat. No.	Price / 1 mL
o-Terphenyl 84-15-1	200 µg/mL	Acetone	AK-102.0-SS	$ 10
	1 mg/mL	CH_2Cl_2	DRH-006-SS	15
	2 mg/mL	Acetone	AK-102.0-SS-10X	15
	2 mg/mL	Acetone	GRH-SS	17
n-Tetradecane 629-59-4	5 mg/mL	MeOH	AS-E0240	32
Tetracosane (5 mL) 646-31-1	500 µg/mL	CS_2	D-5480-C40-5ML	15
	500 µg/mL	Chloroform	D-5480-C40-R1-5ML	20
n-Tridecane 629-50-5	5 mg/mL	MeOH	AS-E0239	32
1,2,3-Trimethylbenzene 526-73-8	1 mg/mL	CH_2Cl_2	V-028S-D-10X	20
n-Triacontane-d_{62} 93952-07-9	500 µg/mL	Acetone	AK-103.0-SS	20
	5 mg/mL	Acetone:THF	AK-103.0-SS-10X	30
	5 mg/mL	THF	DRH-SS	30
Turbine (Jet) fuel	0.5 mg/mL	MeOH	FU-006	10
	20 mg/mL	MeOH	FU-006-40X	20
	20 mg/mL	CH_2Cl_2	FU-006-D-40X	20
Turpentine 8006-64-2	1 gram	Neat	HS-004N	20
	0.5 mg/mL	MeOH	HS-004S	10
	20 mg/mL	MeOH	HS-004S-40X	20
	20 mg/mL	CH_2Cl_2	HS-004S-D-40X	20
Unleaded Gasoline 25% Weathered	5 mg/mL	MeOH	GA-W25-10X	25
Unleaded Gasoline 50% Weathered	5 mg/mL	MeOH	GA-W50-10X	25
Unleaded Gasoline 75% Weathered	5 mg/mL	MeOH	GA-W75-10X	25

Complete Set of Total Petroleum Hydrocarbon (TPH) Pattern Recognition Standards

AccuStandard has assembled the following sets to identify specific petroleum product types found during LUFT/LUST investigations. The sets can be purchased using one convenient Cat. No. or as individuals. **Other concentrations are listed on the next page.**

TPH-R2-SET **$ 585 / 34 x 1 mL** (includes **TPH-001-R1-SET**, **TPH-002-R1-SET**, **TPH-003-SET**, **TPH-004-SET**)

Motor Fuels & Lubricating Oils Set

TPH-001-R1-SET **$ 235 / 13 x 1 mL**

	mg/mL	Solv.	Cat. No.	Price
Gasoline, regular unleaded	20	MeOH	GA-001-40X	$ 20
Gasoline, regular leaded	20	MeOH	GA-002-40X	20
Gasoline, premium	20	MeOH	GA-003-40X	20
RFA Gasoline (oxygenate free)	20	MeOH	GA-005-40X	20
#2 Diesel (conventional)	20	CH_2Cl_2	FU-009-D-40X	20
#1 Diesel (low sulfur)	20	CH_2Cl_2	FU-013-D-40X	20
#2 Diesel (extra low sulfur)	20	CH_2Cl_2	FU-017-D-40X	20
Arctic Diesel	20	CH_2Cl_2	FU-023-D-40X	20
SAE 30W Motor oil	20	CH_2Cl_2	FU-018-D-40X	20
SAE 40W Motor oil	20	CH_2Cl_2	FU-019-D-40X	20
SAE 50W Motor oil	20	CH_2Cl_2	FU-021-D-40X	20
Biodiesel 20	20	CH_2Cl_2	FU-030-D-40X	20
Biodiesel 100 (consumer grade)	20	CH_2Cl_2	FU-029-D-40X	45

Heating Fuel Oils Set

TPH-002-R1-SET **$ 100 / 6 x 1 mL**

	mg/mL	Solv.	Cat. No.	Price
#1 Fuel oil	20	CH_2Cl_2	FU-001-D-40X	$ 20
#2 Fuel oil	20	CH_2Cl_2	FU-002-D-40X	20
#3 Fuel oil	20	CH_2Cl_2	FU-003-D-40X	20
#4 Fuel oil	20	CH_2Cl_2	FU-004-D-40X	20
#6 Fuel oil	20	CH_2Cl_2	FU-008-D-40X	20
Kerosene	20	CH_2Cl_2	FU-005-D-40X	20

Aviation Fuels & Oils Set

TPH-003-SET **$ 160 / 10 x 1 mL**

	mg/mL	Solv.	Cat. No.	Price
Aviation gasoline Grade 100 LL	20	CH_2Cl_2	GA-004-D-40X	$ 20
JP-4 Fuel (weathered)	20	CH_2Cl_2	FU-010-D-40X	20
JP-5 Fuel	20	CH_2Cl_2	FU-012-D-40X	20
JP-7 Fuel	20	CH_2Cl_2	FU-014-D-40X	20
JP-8 Fuel	20	CH_2Cl_2	FU-015-D-40X	20
JP-10 Fuel (Cruise Missile)	20	CH_2Cl_2	FU-022-D-40X	20
JP-TS	20	CH_2Cl_2	FU-016-D-40X	20
Jet Fuel (type 1)	20	CH_2Cl_2	FU-011-D-40X	20
Turbine (Jet A) Fuel	20	CH_2Cl_2	FU-006-D-40X	20
Hydraulic oil	20	CH_2Cl_2	FU-020-D-40X	20

Household & Industrial Solvent Set

TPH-004-SET **$ 80 / 5 x 1 mL**

	mg/mL	Solv.	Cat. No.	Price
Lacquer thinner	20	CH_2Cl_2	HS-001S-D-40X	$ 20
Mineral spirits	20	CH_2Cl_2	HS-002S-D-40X	20
Naphtha	20	CH_2Cl_2	HS-003S-D-40X	20
Turpentine	20	CH_2Cl_2	HS-004S-D-40X	20
Stoddard solvent	20	CH_2Cl_2	HS-005S-D-40X	20

Motor Oil Standards

	mg/mL	Solv.	Cat. No.	Price
SAE 5W30 Motor oil	0.5	Hexane	FU-025-H	$ 10
	20.0	Hexane	FU-025-H-40X	20
	20.0	CH_2Cl_2	FU-025-D-40X	20
SAE 10W30 Motor oil	0.5	Hexane	FU-026-H	10
	20.0	Hexane	FU-026-H-40X	20
	20.0	CH_2Cl_2	FU-026-D-40X	20
SAE 10W40 Motor oil	0.5	Hexane	FU-027-H	10
	20.0	Hexane	FU-027-H-40X	20
	20.0	CH_2Cl_2	FU-027-D-40X	20

	mg/mL	Solv.	Cat. No.	Price
SAE 20W50 Motor oil	0.5	Hexane	FU-028-H	$ 10
	20.0	Hexane	FU-028-H-40X	20
	20.0	CH_2Cl_2	FU-028-D-40X	20
Composite Standard	20.0	CH_2Cl_2	MO-COMP-D-40X	30

Individual Fuels and Hydrocarbons continued on next page

TPH & Fuel & Hydrocarbons

AccuStandard designed the weathered fuel line to mimic the weathering, evaporation, and migration process. Use of these standards can help in the identification of the fuel type if it has been present in the ground for some time, in a sandy type soil with possible evaporation loss, or has migrated from the plume point of origin.

Weathered LUFT/LUST Fuel Sets

Weathered Gasoline Set

WGA-SET	Each in 5.0 mg/mL in MeOH	Cat. No.	$ 85 / 4 x 1 mL
Gasoline, regular unleaded		GA-001-10X	20 / 1 mL
Gasoline, regular unleaded (25% Weathered)		GA-W25-10X	25 / 1 mL
Gasoline, regular unleaded (50% Weathered)		GA-W5-10X	25 / 1 mL
Gasoline, regular unleaded (75% Weathered)		GA-W75-10X	25 / 1 mL

Weathered Kerosene Set

WFK-SET	Each in 5.0 mg/mL in CH_2Cl_2		$ 85 / 4 x 1 mL
Kerosene		FU-005-D-10X	20 / 1 mL
Kerosene (25% Weathered)		FK-W25-10X	25 / 1 mL
Kerosene (50% Weathered)		FK-W50-10X	25 / 1 mL
Kerosene (75% Weathered)		FK-W75-10X	25 / 1 mL

Weathered #2 Diesel (extra Low Sulfur Content) Set

WFD2-SET	Each in 5.0 mg/mL in CH_2Cl_2		$ 85 / 4 x 1 mL
#2 Diesel (extra Low Sulfur)		FU-017-D-10X	20 / 1 mL
#2 Diesel (extra Low Sulfur) (25% Weathered)		FD2-W25-10X	25 / 1 mL
#2 Diesel (extra Low Sulfur) (50% Weathered)		FD2-W50-10X	25 / 1 mL
#2 Diesel (extra Low Sulfur) (75% Weathered)		FD2-W75-10X	25 / 1 mL

Weathered #2 Diesel (Conventional) Set

WFD2-R1-SET	Each in 5.0 mg/mL in CH_2Cl_2		$ 85 / 4 x 1 mL
#2 Diesel (Conventional)		FU-009-D-10X	20 / 1 mL
#2 Diesel (Conventional) (25% Weathered)		FD2-W25-R1-10X	25 / 1 mL
#2 Diesel (Conventional) (50% Weathered)		FD2-W50-R1-10X	25 / 1 mL
#2 Diesel (Conventional) (75% Weathered)		FD2-W75-R1-10X	25 / 1 mL

Technical Note

Petroleum Products contain many different chemicals, plus synthetic product additives. Typically, these petroleum products are subdivided into two groups based on their volatility: [a] gasoline related products (more volatile) and [b] fuel related products (less volatile such as kerosene, aviation fuels, diesel fuels and heating oils).

Most analytical methods for petroleum products focus on several items: the level of BTEX, the total petroleum hydrocarbon number (TPH), and the fingerprint of the petroleum product. Depending on the volatility of the petroleum product spilled, the nature of the contaminated soil, and the age of the spill, analysis becomes even more difficult. Weathering, evaporation, and the migration of the lighter volatiles at the contamination site can affect the fingerprint identification portion of the fuel products analysis.



Total Petroleum Hydrocarbon Pattern Recognition Standards

This book contains chromatography for the various petroleum products typically found during LUFT/LUST site investigations. The chromatography shows each fuel pattern in a 25 minute analytical run for early eluting petroleum products like gasoline to late eluting products like motor oil. In addition, an n-alkane standard (DRH-008S) analyzed under identical conditions has been overlaid on each petroleum product chromatogram. Use of the book will assist the chemist's identification of the fuel for pattern recognition.

The n-alkane standard (DRH-008S) overlay provides n-alkane reference points between the standard and the unknown sample. These beginning and ending n-alkane reference points can be used to establish gross hydrocarbon concentrations. By comparing the specific n-alkane range of the closest identified petroleum standard to that of the unknown sample, a reproducible gross hydrocarbon number can be achieved.

To Order,

BOOK-TPH-001 $ 35



TPH & Fuel & Hydrocarbons
Brownfield Regulation & ISO/DIS 9337

Petroleum Brownfield Regulation

Brownfield Regulation that has been approved by the Canadian Ministry of the Environment as of October 1, 2004.

Light Petroleum Fraction

CCME-LPF-SET **$ 95 / 5 x 1 mL**

At stated conc. (µg/mL) in MeOH 8 comps.

	CCME-LPF-0.05X	CCME-LPF-0.1X	CCME-LPF-0.2X	CCME-LPF-0.5X	CCME-LPF
n-Decane	12.5	25	50	125	250
n-Hexane	12.5	25	50	125	250
Toluene	12.5	25	50	125	250
Benzene	12.5	25	50	125	250
o-Xylene	12.5	25	50	125	250
m-Xylene	6.25	12.5	25	62.5	125
p-Xylene	6.25	12.5	25	62.5	125
Ethylbenzene	12.5	25	50	125	250

Medium & Heavy Petroleum Fraction

CCME-MHPF-SET **$ 75 / 3 x 1 mL**

At stated conc. (µg/mL) in n-Hexane 3 comps.

	CCME-MHPF-0.1X	CCME-MHPF-0.5X	CCME-MHPF
n-Decane	40	200	400
n-Hexadecane	40	200	400
n-Tetratriacontane	40	200	400

Performance Check Standard

CCME-QC **$ 45 / 1 x 1 mL**

CCME-QC-PAK ***SAVE 20%*** **$ 180 / 5 x 1 mL**

At 40 µg/mL each in n-Hexane:Cyclohexane 2 comps.

n-Pentacontane
n-Tetracontane

Spike Standard

CCME-SPIKE **$ 30 / 1 x 1 mL**

At 2500 µg/mL each in n-Hexane 2 comps.

SAE 30W Motor Oil - Non-Detergent Formula
#2 Diesel - 50% Weathered

Hydrocarbon Standard

D-5442-R1 **$ 60 / 1 x 1 mL**

100 µg/mL each in Cyclohexane 18 comps.

n-Decane
n-Dodecane
n-Tetradecane
n-Hexadecane
n-Octadecane
n-Eicosane
n-Docosane
n-Tetracosane
n-Hexacosane
n-Octacosane
n-Triacontane
n-Dotriacontane
n-Tetratriacontane
n-Hexatriacontane
n-Octatriacontane
n-Tetracontane
n-Tetratetracontane
n-Pentacontane

Canadian Atlantic RBCA EPH Mix

CCME-EPH **$ 35 / 1 x 1 mL**

1000 µg/mL each in Hexane:CH_2Cl_2 85:15 11 comps.

Acenapthene
Anthracene
Benzo[a]pyrene
Chrysene
n-Decane
n-Dodecane
n-Dotriacontane
n-Heneicosane
n-Hexadecane
n-Octaconsane
Naphthalene

Surrogate Standard

CCME-EPH/SS **$ 20 / 1 x 1 mL**

1000 µg/mL each in CH_2Cl_2 2 comps.

n-Dotriacontane
Isobutylbenzene

Canadian Atlantic RBCA VPH Mix

CCME-VPH **$ 30 / 1 x 1 mL**

1000 µg/mL each in MeOH 12 comps.

Benzene
n-Decane
Ethylbenzene
n-Heptane
n-Hexane
1-Methyl-3-ethylbenzene
n-Octane
Toluene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-Xylene
p-Xylene

Surrogate Standard

CCME-VPH/SS **$ 15 / 1 x 1 mL**

1000 µg/mL in MeOH

Isobutylbenzene

ISO/DIS 9377 Hydrocarbon Oil Index

Diesel #2/Mineral Oil Standard

ENISO9377-2-1 **$ 25 / 1 x 1 mL**

10000 µg/mL total hydrocarbons in Hexane 2 comps.

#2 Diesel (5000 µg/mL)
Mineral Oil (5000 µg/mL)

Quality Control Standard Mix

ISO/DIS9377-4-1 **$ 25 / 1 x 1 mL**

1000 µg/mL total hydrocarbons in Acetone 2 comps.

#2 Diesel (500 µg/mL)
Mineral Oil (500 µg/mL)

Extraction Solvent Stock Soln.

ENISO9377-2-3 **$ 25 / 1 x 5 mL**

At stated conc. in Hexane 2 comps.

n-Decane (20 µl/L)
n-Tetracontane (20 mg/L)

Stearyl Stearate Test Solution

ISO/DIS9377-4-2 **$ 45 / 1 x 10 mL**

2000 µg/mL in Cyclohexane

Stearyl stearate

Florisil Cartridge QC Std. Mix

ENISO9377-2-4 **$ 40 / 1 x 10 mL**

2000 µg/mL total hydrocarbons in Hexane 2 comps.

#2 Diesel (1000 µg/mL)
Mineral Oil (1000 µg/mL)

System Performance Standard of n-alkanes

ENISO9377-2-2 **$ 45 / 1 x 1 mL**

50 µg/mL each in Hexane 16 comps.

n-Decane
n-Dodecane
n-Tetradecane
n-Hexadecane
n-Octadecane
n-Eicosane
n-Docosane
n-Tetracosane
n-Hexacosane
n-Octacosane
n-Triacontane
n-Dotriacontane
n-Tetratriacontane
n-Hexatriacontane
n-Octatriacontane
n-Tetracontane

ISO/DIS 9377-4 Standard Mixture Stock Solution

TPH-006-10X **$ 35 / 1 x 1 mL**

TPH-006-10X-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**

5000 µg/mL each in Cyclohexane 2 comps.

#2 Diesel
Mineral oil

LUFT/LUST Standards
Multi-State

There are approximately 625,000 underground storage tanks nationwide that store petroleum or hazardous substances that can harm the environment and human health if their contents are released. Until the mid-1980s, most tanks were made of bare steel. Over time, these tanks would corrode and their contents would leak into the environment. Leaking could also occur due to faulty installation or inadequate maintenance procedures. The greatest potential hazard from a leaking underground storage tank is contaminated groundwater, the source of drinking water for nearly half of all Americans. Other health and environmental risks, including the potential for fire and explosion also exist.

From 1988 through March of 2008 there have been 478,457 confirmed releases reported, 453,065 cleanups have been initiated, and 371,880 cleanups have been completed.

The standards listed in this section are designed to meet federal and state monitoring and testing regulations for underground storage tanks.

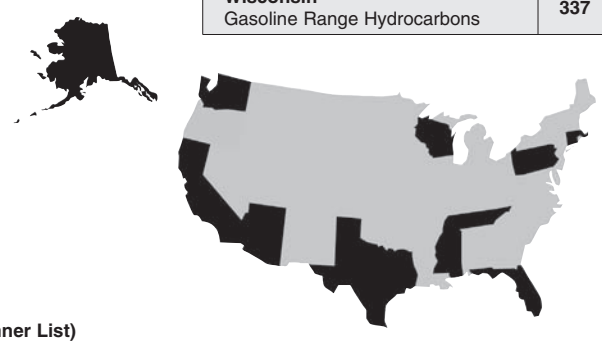
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LUFT/LUST (UST) Standards



Leaking
Underground
Fuel
Tank

Leaking
Underground
Storage
Tank



Additional LUFT/LUST

GRH
DRH, Oil, Grease & TPH (Method 1664, 413.2/418.1 & 8440)
Automotive Engine Exhaust, Refinery Waste (Method 1004, ASTM E1387, E1618, Skinner List)

Multi-State Method Hydrocarbon Window Defining

DRH-008S-R2 **$ 65 / 1 x 1 mL**
DRH-008S-R2-PAK ***SAVE 20%*** **$ 260 / 5 x 1 mL**
500 µg/mL each in Chloroform 35 comps.

Octane	Heptadecane	Tetracosane	Tritriacontane
Nonane	Pristane	Pentacosane	Tetratriacontane
Decane	Octadecane	Hexacosane	Pentatriacontane
Undecane	Phytane	Heptacosane	Hexatriacontane
Dodecane	Nonadecane	Octacosane	Heptatriacontane
Tridecane	Eicosane	Nonacosane	Octatriacontane
Tetradecane	Heneicosane	Triacontane	Nonatriacontane
Pentadecane	Docosane	*n*-Hentriacontane	Tetracontane
Hexadecane	Tricosane	Dotriacontane	

Technical Note

We offer a hydrocarbon window defining standard with the C_8 to C_{40} odd and even alkanes. Use of this one standard should meet the numerous state-to-state variations for hydrocarbon validation and reporting. As an added benefit, AccuStandard has included Pristane and Phytane in the formulation. Again, use of this one standard can meet numerous LUFT/LUST programs requiring that the C_{17} (Pristane) and C_{18} (Phytane) ratio be used to estimate subsurface degradation of fuel oil spills.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

LUFT/LUST Standards
Alaska GRO Methods

Alaska Method 101 Determination of Gasoline Range Organic (GRO) Hydrocarbons

Normal Alkane Standard - GRO Defining Mix

GRO-AK-101-NAS-10X **$ 20 / 1 x 1 mL**
GRO-AK-101-NAS-10X-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL each in MeOH 5 comps.

n-Hexane
n-Heptane
n-Octane
n-Nonane
n-Decane

Laboratory Control Standard

GRO-AK-101-LCS **$ 20 / 1 x 1 mL**
GRO-AK-101-LCS-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
5.0 mg/mL in MeOH

Gasoline, regular unleaded

Internal Standard

GRO-AK-101-IS-10X **$ 20 / 1 x 1 mL**
GRO-AK-101-IS-10X-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
2.0 mg/mL in MeOH

1-Chloro-4-fluorobenzene

Surrogate Control Standard

GRO-AK-101-SS **$ 10 / 1 x 1 mL**
GRO-AK-101-SS-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
50 µg/mL each in MeOH
GRO-AK-101-SS-10X **$ 20 / 1 x 1 mL**
GRO-AK-101-SS-10X-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
500 µg/mL each in MeOH
GRO-AK-101-SS-100X **$ 20 / 1 x 1 mL**
GRO-AK-101-SS-100X-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
5,000 µg/mL each in MeOH 2 comps.

p-Bromofluorobenzene
a,a,a-Trifluorotoluene

Alaska Method Determination of Aromatic & Aliphatic Hydrocarbons in GRO

AK101AA Aromatics Mix

GRO-AK-101AA-ARO **$ 30 / 1 x 1 mL**
GRO-AK-101AA-ARO-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
2000 µg/mL each in MeOH 14 comps.

Benzene
Toluene
Ethylbenzene
m-Xylene
p-Xylene
o-Xylene
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Isopropylbenzene
m-Ethyltoluene
p-Ethyltoluene
o-Ethyltoluene
n-Propylbenzene

Certified BTEX in Gasoline (Single Source)

GA-001-20X-BTEX **$ 55 / 1 x 1 mL**
10.0 mg/mL in MeOH

Gasoline, regular unleaded

Technical Note

Laboratory Control Standard
The gasoline laboratory control standard was taken from an ASTM selected fuel set and a source independent of what is being used in the Gasoline Composite Mix.

Simultaneous BTEX / Gasoline QA/QC
Our QC Department has certified the benzene, toluene, ethyl benzene and xylene concentrations in the unleaded gasoline standard (GA-001-20X-BTEX and GRO-AK-101-GCS-BTEX). This allows the use of a single injection to verify that the QA/QC requirements are being met for the BTEX analytes as well as for the gasoline.

We have added a multi source certified BTEX in gasoline composite mix (GRO-AK-101-GCS-BTEX). The BTEX values for this multi-source calibration standard have been determined through in-house analysis against a BTEX multi-level calibration curve listed on the certificate.

Certified BTEX in Gasoline Composite (Multi Source)

GRO-AK-101-GCS-BTEX **$ 55 / 1 x 1 mL**
5 mg/mL total in MeOH 3 comps.

	Wt. Vol.
Gasoline, premium	1.66 mg/mL
Gasoline, regular leaded	1.67 mg/mL
Gasoline, regular unleaded	1.67 mg/mL

Gasoline Calibration Composite Mix

GRO-AK-101-GCS **$ 25 / 1 x 1 mL**
GRO-AK-101-GCS-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
Total 5.0 mg/mL in MeOH 3 comps.

	Wt. Vol.
Gasoline, premium	1.66 mg/mL
Gasoline, regular leaded	1.67 mg/mL
Gasoline, regular unleaded	1.67 mg/mL

Gasoline Calibration Mix Version

GRO-AK-101-GSC-R1 **$ 25 / 1 x 1 mL**
GRO-AK-101-GSC-R1-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
Equal parts by weight of each

Gasoline, regular unleaded
Gasoline, plus unleaded
Gasoline, premium unleaded

Alaska Method 102 Determination of Diesel Range Organic (DRO) Hydrocarbons

Diesel Calibration Composite Mixture (low sulfur)

DRO-AK-102-DCS **$ 25 / 1 x 1 mL**
DRO-AK-102-DCS-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
Total 5.0 mg/mL in CH_2Cl_2
DRO-AK-102-DCS-10X **$ 40 / 1 x 1 mL**
DRO-AK-102-DCS-10X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
Total 50.0 mg/mL in CH_2Cl_2 3 comps.

	DRO-AK-102-DCS	DRO-AK-102-DCS-10X
Diesel Fuel (Arctic)	1.66 mg/mL	16.6 mg/mL
#1 Diesel (Low Sulfur)	1.67 mg/mL	16.6 mg/mL
#2 Diesel (extra Low Sulfur)	1.67 mg/mL	16.6 mg/mL

Stock Concentrate Diesel Calibration Composite Mix

DRO-AK-102-DCS-10X-R1 **$ 40 / 1 x 1 mL**
DRO-AK-102-DCS-10X-R1-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
Total 50.0 mg/mL in CH_2Cl_2 3 comps.

	Wt. Vol.
Diesel Fuel (Arctic)	16.6 mg/mL
#1 Diesel (Low Sulfur)	16.7 mg/mL
#2 Diesel (Conventional)	16.7 mg/mL

Laboratory Control Standard (low sulfur)

DRO-AK-102-LCS **$ 10 / 1 x 1 mL**
DRO-AK-102-LCS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
5.0 mg/mL in Acetone
DRO-AK-102-LCS-10X **$ 20 / 1 x 1 mL**
DRO-AK-102-LCS-10X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
50.0 mg/mL in Acetone

#2 Diesel (extra Low Sulfur)

Laboratory Control Standard

DRO-AK-102-LCS-10X-R1 **$ 20 / 1 x 1 mL**
DRO-AK-102-LCS-10X-R1-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
50.0 mg/mL in Acetone

#2 Diesel (Conventional)

Technical Note

Laboratory Control Standards are prepared from an independent source.

Technical Note

AccuStandard formulated the Diesel Calibration Composite Mix and Laboratory Control Standard using two independent sources of #2 Diesel as required by the Alaskan method. Unfortunately, the chromatographic patterns for the #2 diesel sources (conventional & extra low sulfur) are different. We have obtained independent sources of each type of #2 diesel to insure similar chromatographic patterns and recommend that when a customer is analyzing the Diesel Calibration Composite and Laboratory Control standard that the client orders DRO-AK-102-DCS and DRO-AK-102-LCS products together to obtain similar chromatographic patterns for #2 diesel extra low sulfur patterns and DRO-AK-102-DCS-10X-R1 and DRO-AK-102-LCS-10X-R1 products to obtain similar chromatographic patterns for #2 Diesel conventional patterns. Laboratories performing the Alaskan DRO analysis will find the #2 Diesel conventional chromatographic pattern more closely resembles typical Diesel samples drawn from environmental sites.

Normal Alkane Standard - DRO Defining Mix

DRO-AK-102-NAS-10X **$ 40 / 1 x 1 mL**
DRO-AK-102-NAS-10X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 16 comps.

n-Decane
n-Undecane
n-Dodecane
n-Tridecane
n-Tetradecane
n-Pentadecane
n-Hexadecane
n-Heptadecane
n-Octadecane
n-Nonadecane
n-Eicosane
n-Heneicosane
n-Docosane
n-Tricosane
n-Tetracosane
n-Pentacosane

Surrogate Standards

DRO-AK-102-SS **$ 10 / 1 x 1 mL**
DRO-AK-102-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
200 µg/mL in Acetone
DRO-AK-102-SS-10X **$ 15 / 1 x 1 mL**
DRO-AK-102-SS-10X-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
2.0 mg/mL in Acetone

o-Terphenyl

Internal Standard

DRO-AK-102-IS **$ 15 / 1 x 1 mL**
DRO-AK-102-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

5-alpha Androstane

Alaska Method 102/103AA Determination of Aromatic & Aliphatic Hydrocarbons in Diesel Range Organic (DRO)

Diesel Range Standard

DRO-AK-102AA **$ 40 / 1 x 1 mL**
DRO-AK-102AA-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 10 comps.

n-Undecane
n-Pentadecane
n-Heptadecane
n-Octadecane
n-Tetracosane
Naphthalene
Acenaphthene
Fluorene
Pyrene
Anthracene

Retention Time Marker Standard

DRO-AK-102/103AA-RT **$ 25 / 1 x 1 mL**
DRO-AK-102/103AA-RT-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
50 µg/mL each in CH_2Cl_2 3 comps.

n-Decane
n-Pentacosane
n-Hexatriacontane

Surrogate Standard

DRO-AK-102/103AA-SS **$ 35 / 1 x 1 mL**
DRO-AK-102/103AA-SS-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2 3 comps.

Squalane
o-Terphenyl
5,6,7,8-Tetrahydro-1-naphthol

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Alaska Method 103 Determination of Residual Range Organic (RRO) Hydrocarbons

Residual Composite Mixtures

RRO-AK-103-RCS **$ 40 / 1 x 1 mL**
RRO-AK-103-RCS-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
Total 5.0 mg/mL in CH_2Cl_2 3 comps.

SAE 30W Motor oil (1.66 mg)
SAE 40W Motor oil (1.67 mg)
SAE 50W Motor Oil (1.67 mg)

RRO-AK-103-RCS-10X **$ 40 / 1 x 1 mL**
RRO-AK-103-RCS-10X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
Total 50.0 mg/mL in CH_2Cl_2 3 comps.

SAE 30W Motor oil (16.6 mg)
SAE 40W Motor oil (16.7 mg)
SAE 50W Motor Oil (16.7 mg)

Laboratory Control Standard

RRO-AK-103-LCS **$ 10 / 1 x 1 mL**
RRO-AK-103-LCS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
5.0 mg/mL in Acetone
RRO-AK-103-LCS-5X **$ 20 / 1 x 1 mL**
RRO-AK-103-LCS-5X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
25.0 mg/mL in Acetone: CH_2Cl_2 (1:1)

SAE 40W Motor oil

Surrogate Control Standard

RRO-AK-103-SS **$ 20 / 1 x 1 mL**
RRO-AK-103-SS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
500 µg/mL in Acetone:THF (9:1)
RRO-AK-103-SS2 **$ 30 / 1 x 1 mL**
RRO-AK-103-SS2-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
5.0 mg/mL in THF:Acetone (3:1)

n-Triacontane-d_{62}

Alaska Method 103AA Determination of Aromatic & Aliphatic Hydrocarbons in Residual Range Organic

Residual Standard

RRO-AK-103AA **$ 35 / 1 x 1 mL**
RRO-AK-103AA-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 9 comps.

n-Hexacosane
n-Octacosane
n-Triacontane
n-Dotriacontane
n-Tetratriacontane
Benzo[b]fluoranthene
Benzo[a]pyrene
Benzo[g,h,i]perylene
Dibenz[a,h]anthracene

Retention Time Marker Standard

DRO-AK-102/103AA-RT **$ 25 / 1 x 1 mL**
DRO-AK-102/103AA-RT-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
50 µg/mL each in CH_2Cl_2 3 comps.

n-Decane
n-Pentacosane
n-Hexatriacontane

Surrogate Standard

DRO-AK-102/103AA-SS **$ 35 / 1 x 1 mL**
DRO-AK-102/103AA-SS-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2 3 comps.

Squalane
o-Terphenyl
5,6,7,8-Tetrahydro-1-naphthol

LUFT/LUST Standards
Arizona, California & Connecticut Methods

Arizona Method 8015 Determination of Diesel Range and Oil Range Organic (DRO & ORO) Hydrocarbons

Diesel & Oil Range Standard

DRO/ORO-AZ-8015 **$ 40 / 1 x 1 mL**
DRO/ORO-AZ-8015-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 12 comps.

n-Decane	*n*-Hexadecane
n-Dodecane	*n*-Octacosane
n-Docosane	*n*-Octadecane
n-Dotriacontane	*n*-Tetracosane
n-Eicosane	*n*-Tetradecane
n-Hexacosane	*n*-Triacontane

Surrogate Standards

DRO-AK-102-SS-10X **$ 15 / 1 x 1 mL**
DRO-AK-102-SS-10X-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
2.0 mg/mL in Acetone

o-Terphenyl

Retention Time Verification Standard

DRO/ORO-AZ-8015-RTV **$ 25 / 1 x 1 mL**
DRO/ORO-AZ-8015-RTV-PAK ***SAVE 20%*** **$ 100 / 1 x 1 mL**
1000 µg/mL each in CH_2Cl_2 3 comps.

n-Decane	*n*-Dotriacontane
n-Docosane	

Stock Calibration Standard

DRO/ORO-AZ-8015-SCS **$ 40 / 1 x 1 mL**
DRO/ORO-AZ-8015-SCS-PAK ***SAVE 20%*** **$ 160 / 1 x 1 mL**
10,000 µg/mL each in CH_2Cl_2 2 comps.

#2 Diesel 10W 30 Motor Oil

California Method (including LA County)

California - Gasoline Range Hydrocarbons

S-603A-10X **$ 25 / 1 x 1 mL**
S-603A-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH 7 comps.

Benzene	*o*-Xylene
Ethylbenzene	*m*-Xylene
Methyl t-butyl ether	*p*-Xylene
Toluene	

LA County Well Investigation & Monitoring Program
Purgeable Aromatics - Gasoline ID

M-602-GAS-10X **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH 11 comps.

Benzene	Toluene
Chlorobenzene	*o*-Xylene
1,2-Dichlorobenzene	*p*-Xylene
1,3-Dichlorobenzene	*m*-Xylene
1,4-Dichlorobenzene	MtBE
Ethylbenzene	

Oxygenate Gasoline Additive Standard

OGAD-001 **$ 30 / 1 x 1 mL**
OGAD-001-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in MeOH 5 comps.

MtBE	(2000 µg/mL)	TAME	(2000 µg/mL)
ETBE	(2000 µg/mL)	t-Butanol	(10000 µg/mL)
Isopropyl ether	(2000 µg/mL)		

Ethanol

M-8015B/5031-11 **$ 25 / 1 x 1 mL**
10 mg/mL in Water

Methanol

M-8015B/5031-17 **$ 20 / 1 x 1 mL**
10 mg/mL in Water

Method 1004 Carbonyl Compounds as DNPH Derivatives by HPLC

M-1004 **$ 25 / 1 x 1 mL**
At stated conc. in AcCN 13 comps.
M-1004-10X **$ 35 / 1 x 1 mL**
At 10 times the stated conc. in AcCN 13 comps.

Carbonyl Compound		DNPH Derivative
Acetaldehyde	(3.0 µg/mL)	(15.3 µg/mL)
Acetone	(3.0 µg/mL)	(12.3 µg/mL)
Acrolein	(3.0 µg/mL)	(12.7 µg/mL)
Benzaldehyde	(3.0 µg/mL)	(8.1 µg/mL)
2-Butanone *(MEK)*	(3.0 µg/mL)	(10.5 µg/mL)
n-Butyraldehyde	(3.0 µg/mL)	(10.5 µg/mL)
Crotonaldehyde	(3.0 µg/mL)	(10.7 µg/mL)
Formaldehyde	(3.0 µg/mL)	(21.0 µg/mL)
Hexanal	(3.0 µg/mL)	(8.4 µg/mL)
Methacrolein	(3.0 µg/mL)	(10.7 µg/mL)
Propionaldehyde	(3.0 µg/mL)	(12.3 µg/mL)
m-Tolualdehyde	(3.0 µg/mL)	(7.5 µg/mL)
Valeraldehyde	(3.0 µg/mL)	(9.3 µg/mL)

CAR-DNPH **$ 20 / 1 x 1 mL**
At stated conc. in AcCN as DNPH derivatives 7 comps.

Acetaldehyde	(1000 µg/mL)	Butyraldehyde	(500 µg/mL)
Acetone	(500 µg/mL)	Formaldehyde	(1500 µg/mL)
Acrolein	(500 µg/mL)	Propionaldehyde	(500µg/mL)
Benzaldehyde	(500 µg/mL)		

Reference Gas Oil Sample

RGS-001 **$ 20 / 1 x 1 mL**

Hydrocarbon Mixture *(boiling point range 250-850°F)*

Technical Note

Alcohol Oxidation Products in Automotive Engine Exhaust by HPLC of DNPH Derivatives The California Air Resources Board, in conjunction with some of the larger automobile manufacturers, has developed an HPLC method in which the 2,4-Dinitrophenylhydrazine derivatives of the by-products are quantitated.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

LUFT/LUST Standards
Florida Methods

Connecticut Method Extractable Total Petroleum Hydrocarbons

CT ETPH Alkane Standard

DRH-009S **$ 35 / 1 x 1 mL**
DRH-009S-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
1000 µg/mL in CH_2Cl_2 15 comps.

n-Nonane
n-Decane
n-Dodecane
n-Tetradecane
n-Hexadecane
n-Octadecane
n-Eicosane
n-Docosane
n-Tetracosane
n-Hexacosane
n-Octacosane
n-Triacontane
n-Dotriacontane
n-Tetratriacontane
n-Hexatriacontane

Internal Standard

GRH-IS **$ 15 / 1 x 1 mL**
GRH-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

5-alpha Androstane

Surrogate Standard

GRH-SS **$ 17 / 1 x 1 mL**
GRH-SS-PAK ***SAVE 20%*** **$ 68 / 5 x 1 mL**
2.0 mg/mL in Acetone

o-Terphenyl *(OTP)*

Florida Method Total Recoverable Petroleum Hydrocarbon (FTRPH) Standard & Surrogates

Calibration/Window Defining Hydrocarbon Standard

DRH-004S-R1-5X **$ 50 / 1 x 1 mL**
DRH-004S-R1-5X-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
1.0 mg/mL each in Chloroform 17 comps.

Octane	C_8	Eicosane	C_{20}	Dotriacontane	C_{32}
Decane	C_{10}	Docosane	C_{22}	Tetratriacontane	C_{34}
Dodecane	C_{12}	Tetracosane	C_{24}	Hexatricontane	C_{36}
Tetradecane	C_{14}	Hexacosane	C_{26}	Octatriacontane	C_{38}
Hexadecane	C_{16}	Octacosane	C_{28}	Tetracontane	C_{40}
Octadecane	C_{18}	Triacontane	C_{30}		

FTRPH Calibration / Window Defining Standard

DRH-FTRPH **$ 35 / 1 x 1 mL**
DRH-FTRPH-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
500 µg/mL each in Hexane 17 comps.
DRH-FTRPH-0.1X **$ 30 / 1 x 1 mL**
50 µg/mL each in Hexane 17 comps.

n-Octane
n-Decane
n-Dodecane
n-Tetradecane
n-Hexadecane
n-Octadecane
n-Eicosane
n-Docosane
n-Tetracosane
n-Hexacosane
n-Octacosane
n-Triacontane
n-Dotriacontane
n-Tetratriacontane
n-Hexatriacontane
n-Octatriacontane
n-Tetracontane

Technical Note

FTRPH Calibration/Window Defining Standard was formulated at a lower concentration to insure solubility of the analytes & eliminate the odor caused by the introduction of Carbon disulfide as a cosolvent.

Internal Standard

GRH-IS **$ 15 / 1 x 1 mL**
GRH-IS-PAK ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

5-alpha Androstane

Surrogate Standards

DRH-SS **$ 30 / 1 x 1 mL**
DRH-SS-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
5.0 mg/mL in THF

n-Triacontane-d_{62}

GRH-SS **$ 17 / 1 x 1 mL**
GRH-SS-PAK ***SAVE 20%*** **$ 68 / 5 x 1 mL**
2.0 mg/mL in Acetone

o-Terphenyl *(OTP)*

FTRPH Surrogate Standard

DRH-FL-SS-3X **$ 27 / 1 x 1 mL**
DRH-FL-SS-3X-PAK ***SAVE 20%*** **$ 108 / 5 x 1 mL**
3.0 mg/mL in Carbon disulfide
DRH-FL-SS **$ 20 / 1 x 1 mL**
DRH-FL-SS-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
1.0 mg/mL in Carbon disulfide

Nonatriacontane

FTRPH Combined Surrogate Standard

DRH/GRH-FL-SS **$ 50 / 1 x 1 mL**
DRH/GRH-FL-SS-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
5.0 mg/mL in Carbon disulfide 2 comps.

Nonatriacontane *o*-Terphenyl *(OTP)*

Technical Note

FTRPH Surrogate Standard was formulated at a higher concentration for combined DRH & GRH analysis. This standard has proven useful for those laboratories performing gasoline & diesel analysis simultaneously.

DRH/GRH-FL-SS-R2 **$ 50 / 1 x 1 mL**
DRH/GRH-FL-SS-R2-PAK ***SAVE 20%*** **$ 200 / 5 x 1 mL**
At stated conc. in Carbon disulfide 2 comps.

Nonatriacontane (6000 µg/mL) *o*-Terphenyl *(OTP)* (1500 µg/mL)

Carbon disulfide can not ship by air. When possible alternate solvents can be used. Please contact our Technical Service Department for other options.

Massachusetts Method Determination of Extractable Petroleum Hydrocarbons (EPH)

Aromatic Hydrocarbons Calibration Set

DRH-006-CAL-SET — **$ 125 / 5 x 1 mL**
At stated conc. in CH_2Cl_2 — 18 comps.

Components (units in µg/mL)	Level 1 (1X)	Level 2 (4X)	Level 3 (10X)	Level 4 (20X)	Level 5 (40X)
Acenaphthene	5	20	50	100	200
Acenaphthylene	5	20	50	100	200
Anthracene	5	20	50	100	200
Benz[a]anthracene	5	20	50	100	200
Benzo[a]pyrene	5	20	50	100	200
Benzo[b]fluoranthene	5	20	50	100	200
Benzo[g,h,i]perylene	5	20	50	100	200
Benzo[k]fluoranthene	5	20	50	100	200
Chrysene	5	20	50	100	200
Dibenz[a,h]anthracene	5	20	50	100	200
Fluoranthene	5	20	50	100	200
Fluorene	5	20	50	100	200
Indeno[1,2,3-cd]pyrene	5	20	50	100	200
2-Methylnaphthalene	5	20	50	100	200
Naphthalene	5	20	50	100	200
Phenanthrene	5	20	50	100	200
Pyrene	5	20	50	100	200
o-Terphenyl (Surrogate)	5	20	50	100	200

Aliphatic Hydrocarbons Calibration Set

DRH-007-CAL-R1-SET — **$ 125 / 5 x 1 mL**
At stated conc. in CH_2Cl_2 : n-Hexane (1:1) — 15 comps.

Components (units in µg/mL)	Level 1 (1X)	Level 2 (4X)	Level 3 (10X)	Level 4 (20X)	Level 5 (40X)
n-Nonane	5	20	50	100	200
n-Decane	5	20	50	100	200
n-Dodecane	5	20	50	100	200
n-Tetradecane	5	20	50	100	200
n-Hexadecane	5	20	50	100	200
n-Octadecane	5	20	50	100	200
n-Nonadecane	5	20	50	100	200
n-Eicosane	5	20	50	100	200
n-Docosane	5	20	50	100	200
n-Tetracosane	5	20	50	100	200
n-Hexacosane	5	20	50	100	200
n-Octacosane	5	20	50	100	200
n-Triacontane	5	20	50	100	200
n-Hexatriacontane	5	20	50	100	200
1-Chlorooctadecane (Surrogate)	5	20	50	100	200

Combined Aromatic/Aliphatic Matrix Spike Standard

DRH-MS-ASL — **$ 45 / 1 x 1 mL**
DRH-MS-ASL-PAK — ***SAVE 20%*** **$ 180 / 5 x 1 mL**
25 µg/mL each in Hexane — 31 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- *n*-Decane
- Dibenz[a,h]anthracene
- *n*-Docosane
- *n*-Dodecane
- *n*-Eicosane
- Fluoranthene
- Fluorene
- *n*-Hexacosane
- *n*-Hexadecane
- *n*-Hexatriacontane
- Indeno[1,2,3-cd]pyrene
- 2-Methylnaphthalene
- Naphthalene
- *n*-Nonadecane
- *n*-Nonane
- *n*-Octacosane
- *n*-Octadecane
- Phenanthrene
- Pyrene
- *n*-Tetracosane
- *n*-Tetradecane
- *n*-Triacontane

DEP (MA) - Fractionation Surrogate Spike

DRH-MA-FSS-10ML	40 µg/mL in Hexane		**$ 25 / 1 x 10 mL**
DRH-MA-FSS-50X	2.0 mg/mL in Hexane		**$ 25 / 1 x 1 mL**
DRH-MA-FSS-50X-PAK	2.0 mg/mL in Hexane	***SAVE 20%***	**$ 100 / 5 x 1 mL**
			2 comps.

2-Fluorobiphenyl — 2-Bromonaphthalene

Aromatic Surrogate

DRH-006-SS — **$ 15 / 1 x 1 mL**
DRH-006-SS-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

o-Terphenyl

DEP (MA) - Aromatic Hydrocarbons

DRH-006S — **$ 65 / 1 x 1 mL**
DRH-006S-PAK — ***SAVE 20%*** **$ 260 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 17 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benz[a]anthracene
- Benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[g,h,i]perylene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Fluoranthene
- Fluorene
- Indeno[1,2,3-cd]pyrene
- 2-Methylnaphthalene
- Naphthalene
- Phenanthrene
- Pyrene

Technical Note

Two high concentration EPH stocks for laboratories that prepare in-house working level solutions are available. In addition, Ready-to-Use working level aromatic and aliphatic calibration sets are also available. Larger volumes of daily calibration solutions can be purchased by contacting our Technical Service Department.

DEP (MA) - Aliphatic Hydrocarbons

DRH-007S — **$ 40 / 1 x 1 mL**
DRH-007S-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 : Hexane (1:1) — 14 comps.

- *n*-Nonane
- *n*-Decane
- *n*-Dodecane
- *n*-Tetradecane
- *n*-Hexadecane
- *n*-Octadecane
- *n*-Nonadecane
- *n*-Eicosane
- *n*-Docosane
- *n*-Tetracosane
- *n*-Hexacosane
- *n*-Octacosane
- *n*-Triacontane
- *n*-Hexatriacontane

Aliphatic Surrogate

DRH-007-SS — **$ 15 / 1 x 1 mL**
DRH-007-SS-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in Hexane

1-Chlorooctadecane

EPH Surrogate Spike

DRH-MA-SS	20 µg/mL each in Acetone		**$ 10 / 1 x 1 mL**
DRH-MA-SS-10X	200 µg/mL each in Acetone		**$ 20 / 1 x 1 mL**
DRH-MA-SS-100X	2,000 µg/mL each in Acetone		**$ 22 / 1 x 1 mL**
DRH-MA-SS-100X-PAK	2,000 µg/mL each in Acetone		**$ 88 / 5 x 1 mL**
			2 comps.

1-Chlorooctadecane — *o*-Terphenyl

EPH Matrix Spike

DRH-MA-MS	25 µg/mL in Acetone		**$ 20 / 1 x 1 mL**
DRH-MA-MS-PAK	25 µg/mL in Acetone	***SAVE 20%***	**$ 80 / 5 x 1 mL**
DRH-MA-MS-10X	250 µg/mL in Acetone		**$ 30 / 1 x 1 mL**
DRH-MA-MS-10X-PAK	250 µg/mL in Acetone	***SAVE 20%***	**$ 120 / 5 x 1 mL**
DRH-MA-MS-40X	1,000 µg/mL in Acetone		**$ 30 / 1 x 1 mL**
DRH-MA-MS-40X-PAK	1,000 µg/mL in Acetone	***SAVE 20%***	**$ 120 / 5 x 1 mL**
			10 comps.

- Acenaphthene
- Anthracene
- Chrysene
- *n*-Eicosane
- Naphthalene
- *n*-Nonadecane
- *n*-Nonane
- *n*-Octacosane
- Pyrene
- *n*-Tetradecane

Internal Standard

GRH-IS	1,000 µg/mL in CH_2Cl_2		**$ 15 / 1 x 1 mL**
GRH-IS-PAK	1,000 µg/mL in CH_2Cl_2	***SAVE 20%***	**$ 60 / 5 x 1 mL**
GRH-IS-10X	10.0 mg/mL in CH_2Cl_2		**$ 30 / 1 x 1 mL**

5-alpha Androstane

LUFT/LUST Standards

Massachusetts Methods - Ready-to-Inject Working Level EPH Standards



Massachusetts Method Determination of Volatile Petroleum Hydrocarbons (VPH)

Stock Concentrate

Volatile Petroleum Hydrocarbon Mix

GRH-004S-10X — **$ 40 / 1 x 1 mL**
GRH-004S-10X-PAK — ***SAVE 20%*** **$ 160 / 5 x 1 mL**
At stated conc. (mg/mL) in MeOH — 13 comps.

Benzene	(5.0)	*n*-Pentane	(10.0)
Ethylbenzene	(5.0)	Toluene	(15.0)
Isooctane	(15.0)	1,2,4-Trimethylbenzene	(10.0)
2-Methylpentane	(15.0)	*o*-Xylene	(10.0)
MtBE	(15.0)	*m*-Xylene	(10.0)
Naphthalene	(10.0)	*p*-Xylene	(10.0)
n-Nonane	(10.0)		

DEP (MA)-VPH Surrogate Standard

GRH-004-SS — **$ 10 / 1 x 1 mL**
GRH-004-SS-PAK — ***SAVE 20%*** **$ 40 / 5 x 1 mL**
50 µg/mL in MeOH
GRH-004-SS-10X — **$ 20 / 1 x 1 mL**
GRH-004-SS-10X-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
500 µg/mL in MeOH
GRH-004-SS-100X — **$ 20 / 1 x 1 mL**
GRH-004-SS-100X-PAK — ***SAVE 20%*** **$ 80 / 5 x 1 mL**
5,000 µg/mL in MeOH

2,5-Dibromotoluene

MA VPH Matrix Spike Mix with Surrogate

GRH-004-MS/SS — **$ 30 / 1 x 1 mL**
50 µg/mL each in MeOH — 14 comps.

Benzene	Naphthalene
n-Butylcyclohexane	n-Nonane
n-Decane	n-Pentane
2,5-dibromotoluene	Toluene
Ethylbenzene	1,2,4-Trimethylbenzene
2-Methylpentane	Isooctane
MtBE	m-Xylene

VPH Matrix Spike

GRH-004-MS — **$ 15 / 1 x 1 mL**
GRH-004-MS-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
50 µg/mL each in MeOH
GRH-004-MS-10X — **$ 25 / 1 x 1 mL**
GRH-004-MS-10X-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
500 µg/mL each in MeOH
GRH-004-MS-100X — **$ 25 / 1 x 1 mL**
GRH-004-MS-100X-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
5,000 µg/mL each in MeOH — 8 comps.

Benzene	Toluene
Ethylbenzene	*o*-Xylene
MtBE	*m*-Xylene
Naphthalene	*p*-Xylene

Certified BTEX in Unleaded Gasoline

GA-001-20X-BTEX — **$ 55 / 1 x 1 mL**
10.0 mg/mL in MeOH

Gasoline - Regular, unleaded

Technical Note

Calibration Curve
Analytical chemists can develop the VPH Calibration Curve using one primary dilution standard that includes the surrogate.
Simultaneous BTEX / Gasoline QA/QC
Our QC Dept. has certified the benzene, toluene, ethyl benzene and xylene concentrations in the unleaded gasoline standard (GA-001-20X-BTEX). This allows the use of a single injection to verify that the QA/QC requirements are being met for the BTEX analytes as well as for the gasoline.

Volatile Petroleum Hydrocarbons without Surrogate

GRH-004S-R1-10X — **$ 55 / 1 x 1 mL**
At stated conc. (mg/mL) in MeOH — 15 comps.

Benzene	(5.0)	Toluene	(15.0)
Ethylbenzene	(5.0)	1,2,4-Trimethylbenzene	(10.0)
Isooctane	(15.0)	*o*-Xylene	(10.0)
2-Methylpentane	(15.0)	*m*-Xylene	(10.0)
MtBE	(15.0)	*p*-Xylene	(10.0)
Naphthalene	(10.0)	*n*-Butylcyclohexane	(10.0)
n-Nonane	(10.0)	*n*-Decane	(10.0)
n-Pentane	(10.0)		

GRH-004S-R2 — **$ 50 / 1 x 1 mL**
10 mg/mL each in MeOH — 15 comps.

Benzene	Toluene
Ethylbenzene	1,2,4-Trimethylbenzene
Isooctane	*o*-Xylene
2-Methylpentane	*m*-Xylene
MtBE	*p*-Xylene
Naphthalene	*n*-Butylcyclohexane
n-Nonane	*n*-Decane
n-Pentane	

Volatile Petroleum Hydrocarbons with Surrogate

GRH-004S/SS — **$ 30 / 1 x 1 mL**
GRH-004S/SS-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. (µg/mL) in MeOH — 14 comps.

Benzene	(500)	*n*-Nonane	(1,000)
2,5-Dibromotoluene (Surrogate)	(1,000)	*n*-Pentane	(1,000)
Ethylbenzene	(500)	Toluene	(1,500)
Isooctane	(1,500)	1,2,4-Trimethylbenzene	(1,000)
2-Methylpentane	(1,500)	*o*-Xylene	(1,000)
MtBE	(1,500)	*m*-Xylene	(1,000)
Naphthalene	(1,000)	*p*-Xylene	(1,000)

GRH-004S/SS-R1 — **$ 45 / 1 x 1 mL**
At stated conc. (µg/mL) in MeOH — 16 comps.

Benzene	(500)	*n*-Pentane	(1,000)
2,5-Dibromotoluene (Surrogate)	(1,000)	Toluene	(1,500)
Ethylbenzene	(500)	1,2,4-Trimethylbenzene	(1,000)
Isooctane	(1,500)	*o*-Xylene	(1,000)
2-Methylpentane	(1,500)	*m*-Xylene	(1,000)
MtBE	(1,500)	*p*-Xylene	(1,000)
Naphthalene	(1,000)	n-Butylcyclohexane	(1,000)
n-Nonane	(1,000)	n-Decane	(1,000)

GRH-004S/SS-R2 — **$ 50 / 1 x 1 mL**
10.0 mg/mL each in MeOH — 16 comps.

Benzene	*n*-Pentane
2,5-Dibromotoluene (Surrogate)	Toluene
Ethylbenzene	1,2,4-Trimethylbenzene
Isooctane	*o*-Xylene
2-Methylpentane	*m*-Xylene
MtBE	*p*-Xylene
Naphthalene	n-Butylcyclohexane
n-Nonane	n-Decane

LUFT/LUST Standards

Mississippi / Tennessee, New Jersey and Pennsylvania Methods

Mississippi / Tennessee Method

DRO Defining Mix

DRO-AK-102-NAS-10X **$ 40 / 1 x 1 mL**
DRO-AK-102-NAS-10X-PAK *SAVE 20%* **$ 160 / 5 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 16 comps.

- *n*-Decane
- *n*-Undecane
- *n*-Dodecane
- *n*-Tridecane
- *n*-Tetradecane
- *n*-Pentadecane
- *n*-Hexadecane
- *n*-Heptadecane
- *n*-Octadecane
- *n*-Nonadecane
- *n*-Eicosane
- *n*-Heneicosane
- *n*-Docosane
- *n*-Tricosane
- *n*-Tetracosane
- *n*-Pentacosane

New Jersey Method

DEP (NJ) Aliphatic Hydrocarbon Standard

DRH-NJ-001S NEW **$ 60 / 1 x 1 mL**
1.0 mg/mL each in Hexane 20 comps.

- *n*-Nonane
- *n*-Decane
- *n*-Dodecane
- *n*-Tetradecane
- *n*-Hexadecane
- *n*-Octadecane
- *n*-Eicosane
- *n*-Heneicosane
- *n*-Docosane
- *n*-Tetracosane
- *n*-Hexacosane
- *n*-Octacosane
- *n*-Triacontane
- *n*-Dotriacontane
- *n*-Tetratriacontane
- *n*-Hexatriacontane
- n-Octatriacontane
- n-Tetracontane
- Naphthalene
- 2-Methylnaphthalene

DEP (NJ) Aromatic Hydrocarbon Standard

DRH-NJ-002S NEW **$ 80 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 18 comps.

- Acenaphthene
- Acenaphthylene
- Anthracene
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Chrysene
- Dibenz(a,h)anthracene
- Fluoranthene
- Fluorene
- Indeno(1,2,3-cd)pyrene
- 2-Methylnaphthalene
- Naphthalene
- Phenanthrene
- Pyrene
- 1,2,3-Trimethylbenzene

Pennsylvania Method Storage Tank Site Closure & Monitoring Petroleum Standards

PA Extractable PAH Standard

DRH-PA-001 **$ 25 / 1 x 1 mL**
DRH-PA-001-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
2000 µg/mL each in CH_2Cl_2 5 comps.

- Benz[a]anthracene
- Benzo[a]pyrene
- Fluorene
- Naphthalene
- Phenanthrene

PA Volatile Petroleum Standard

GRH-PA-001 **$ 25 / 1 x 1 mL**
GRH-PA-001-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
At stated conc. in MeOH 9 comps.

Benzene	(1000 µg/mL)	*o*-Xylene	(1000 µg/mL)
Ethylbenzene	(1000 µg/mL)	*m*-Xylene	(1000 µg/mL)
MtBE	(2000 µg/mL)	*p*-Xylene	(1000 µg/mL)
Naphthalene	(1000 µg/mL)	Isopropylbenzene	(1000 µg/mL)
Toluene	(1000 µg/mL)		



Texas Method 1005 & 1006 Petroleum Storage Tanks (PST)

Stock Hydrocarbon Calibration Standard

DRH-TX-001-10X — **$ 25 / 1 x 1 mL**
DRH-TX-001-10X-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2000 µg/mL each in n-Pentane — 12 comps.

n-Hexane	*n*-Tetradecane	*n*-Docosane
n-Octane	*n*-Hexadecane	*n*-Tetracosane
n-Decane	*n*-Octadecane	*n*-Hexacosane
n-Dodecane	*n*-Eicosane	*n*-Octacosane

Gasoline & Diesel Calibration Curve Set

DRH-TX-002-D-SET — **$ 75 / 8 x 1 mL**
Each at stated conc. in CH_2Cl_2 — 2 comps.

Regular Unleaded Gasoline — #2 Diesel Fuel

Each set contains 8 concentrations:

5 µg/mL	**50 µg/mL**	**200 µg/mL**	**1000 µg/mL**
20 µg/mL	**100 µg/mL**	**500 µg/mL**	**5000 µg/mL**

Gasoline/Diesel Continuing Calibration Standard

DRH-TX-002-D-0.4X-10ML — **$ 50 / 1 x 10 mL**
200 µg/mL each in CH_2Cl_2 — 2 comps.

Regular Unleaded Gasoline — #2 Diesel Fuel

Gasoline/Diesel Calibration/Matrix Spike Standard

DRH-TX-002-10X — **$ 25 / 1 x 1 mL**
DRH-TX-002-10X-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
5000 µg/mL each in MeOH — 2 comps.

Regular Unleaded Gasoline — #2 Diesel Fuel

Stock Gasoline/Diesel Calibration Standard

DRH-TX-002-D-40X — **$ 25 / 1 x 1 mL**
DRH-TX-002-D-40X-PAK — ***SAVE 20%*** **$ 100 / 5 x 1 mL**
20,000 µg/mL each in CH_2Cl_2 — 2 comps.

Regular Unleaded Gasoline — #2 Diesel Fuel

Technical Note

TCEQ Methods 1005 and 1006
Texas Commission on Environmental Quality (TCEQ) has developed these methods in response to notifications of leaking petroleum storage tanks that have contaminated ground water. These method govern the testing of Total Petroleum Hydrocarbon (TPH) concentrations.

Gasoline & Diesel Calibration Curve Set

DRH-TX-003-SET — **$ 125 / 8 x 1 mL**
Each at stated conc. in Pentane — 2 comps.

Regular Unleaded Gasoline — #2 Diesel Fuel

Each set contains 8 concentrations:

20 µg/mL	**250 µg/mL**	**750 µg/mL**	**5000 µg/mL**
100 µg/mL	**500 µg/mL**	**1000 µg/mL**	**10,000 µg/mL**

Gasoline and Diesel Standard

DRH-TX-003-20X — **$ 25 / 1 x 5 mL**
DRH-TX-003-20X-PAK — ***SAVE 20%*** **$ 100 / 5 x 5 mL**
10,000 µg/mL each in Pentane — 2 comps.

Regular Unleaded Gasoline — #2 Diesel Fuel

Surrogate Standard

DRH-TX-003-SS1 — **$ 35 / 1 x 5 mL**
DRH-TX-003-SS1-PAK — ***SAVE 20%*** **$ 140 / 5 x 5 mL**
10 mg/mL each in Pentane — 2 comps.

1-Chlorooctadecane — 1-Chlorooctane

Carbon Number Distribution Maker

DRH-TX-003-CNM — **$ 30 / 1 x 1 mL**
DRH-TX-003-CNM-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2000 µg/mL each in Pentane — 9 comps.

n-Decane	*n*-Heptane	*n*-Octacosane
n-Dodecane	*n*-Hexadecane	*n*-Octane
n-Heneicosane	*n*-Hexane	*n*-Pentatriacontane

Aromatic Fractionation Check Standard

DRH-TX-003-FCS — **$ 55 / 1 x 10 mL**
DRH-TX-003-FCS-PAK — ***SAVE 20%*** **$ 220 / 5 x 10 mL**
20 µg/mL each in Pentane — 24 comps.

Acenaphthene	Benzo[e]pyrene	Naphthalene
Acenaphthylene	Benzo[g,h,i]perylene	Phenanthrene
Anthracene	Chrysene	Pyrene
Benzene	Dibenz[a,h]anthracene	Toluene
Benz[a]anthracene	Ethylbenzene	1,2,3-Trimethylbenzene
Benzo[b]fluoranthene	Fluoranthene	*m*-Xylene
Benzo[k]fluoranthene	Fluorene	*p*-Xylene
Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene	*o*-Xylene

Washington Method Determination of Volatile Petroleum Hydrocarbons (VPH)

VPH Standard

VPH-WA **$ 20 / 1 x 1 mL**
VPH-WA-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
200 µg/mL each in MeOH 15 comps.

Benzene	*p*-Xylene	*n*-Decane
Ethylbenzene	MtBE	*n*-Dodecane
Toluene	*n*-Pentane	1-Methylnaphthalene
o-Xylene	*n*-Hexane	Naphthalene
m-Xylene	*n*-Octane	1,2,3-Trimethylbenzene

VPH Primary Dilution Standard with Surrogate

VPH-WA-SS-10X **$ 35 / 1 x 1 mL**
VPH-WA-SS-10X-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2,000 µg/mL each in MeOH 16 comps.

Benzene	MtBE	*n*-Dodecane
Ethylbenzene	*n*-Pentane	1-Methylnaphthalene
Toluene	*n*-Hexane	Naphthalene
o-Xylene	*n*-Octane	1,2,3-Trimethylbenzene
m-Xylene	*n*-Decane	2,5-Dibromotoluene (surrogate)
p-Xylene		

Stock Concentrate VPH Standards

VPH-WA-10X **$ 30 / 1 x 1 mL**
VPH-WA-10X-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2,000 µg/mL each in MeOH 15 comps.
VPH-WA-100X **$ 40 / 1 x 1 mL**
VPH-WA-100X-PAK ***SAVE 20%*** **$ 160 / 5 x 1 mL**
20.0 mg/mL each in MeOH 15 comps.

Benzene	*p*-Xylene	*n*-Decane
Ethylbenzene	MtBE	*n*-Dodecane
Toluene	*n*-Pentane	1-Methylnaphthalene
o-Xylene	*n*-Hexane	Naphthalene
m-Xylene	*n*-Octane	1,2,3-Trimethylbenzene

Certified BTEX in Unleaded Gasoline (Single Source)

GA-001-20X-BTEX **$ 55 / 1 x 1 mL**
10.0 mg/mL in MeOH

Regular Unleaded Gasoline

Certified BTEX in Gasoline Composite (Multi Source)

GRO-AK-101-GCS-BTEX **$ 55 / 1 x 1 mL**
5 mg/mL in MeOH 3 comps.

	Wt. Vol.
Gasoline (Premium)	1.66 mg/mL
Gasoline (Regular Leaded)	1.67 mg/mL
Gasoline (Regular Unleaded)	1.67 mg/mL

VPH Matrix Spike

VPH-WA-MS **$ 25 / 1 x 1 mL**
VPH-WA-MS-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
Varied conc. in MeOH 11 comps.

Benzene	(60 µg/mL)	Toluene	(60 µg/mL)
Ethylbenzene	(60 µg/mL)	1,2,3-Trimethylbenzene	(60 µg/mL)
MtBE	(180 µg/mL)	*m*-Xylene	(60 µg/mL)
Naphthalene	(360 µg/mL)	*p*-Xylene	(60 µg/mL)
n-Nonane	(200 µg/mL)	*o*-Xylene	(60 µg/mL)
n-Pentane	(600 µg/mL)		

VPH Surrogate Standard

GRH-004-SS **$ 10 / 1 x 1 mL**
GRH-004-SS-PAK ***SAVE 20%*** **$ 40 / 5 x 1 mL**
50 µg/mL in MeOH
GRH-004-SS-10X **$ 20 / 1 x 1 mL**
GRH-004-SS-10X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
500 µg/mL in MeOH
GRH-004-SS-100X **$ 20 / 1 x 1 mL**
GRH-004-SS-100X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
5,000 µg/mL in MeOH

2,5-Dibromotoluene

VPH Retention Time Marker

VPH-WA-RT **$ 20 / 1 x 1 mL**
VPH-WA-RT-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
2,000 µg/mL each in MeOH 6 comps.

n-Pentane	*n*-Octane	*n*-Dodecane
n-Hexane	*n*-Decane	*n*-Tridecane

1,2,3-Trimethylbenzene Standard

V-028S-D-10X **$ 20 / 1 x 1 mL**
V-028S-D-10X-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2

1,2,3-Trimethylbenzene

Technical Note

Simultaneous BTEX / Gasoline QA/QC
Our QC Department has certified the benzene, toluene, ethyl benzene and xylene concentrations in the unleaded gasoline standard GA-001-20X-BTEX and GRO-AK-101-GCS-BTEX. This allows the use of a single injection to verify that the QA/QC requirements are being met for the BTEX analytes as well as for the gasoline.

We have added a multi source certified BTEX in gasoline composite mix GRO-AK-101-GCS-BTEX. The BTEX values for this multi-source calibration standard have been determined through in-house analysis against a BTEX multi-level calibration curve listed on the certificate.

LUFT/LUST Standards
Washington, Wisconsin Methods

Washington Method Determination of Extractable Petroleum Hydrocarbons (EPH)

EPH Aromatic/PAH Standard

EPH-WA-10X — **$ 75 / 1 x 1 mL**
EPH-WA-10X-PAK — *SAVE 20%* **$ 300 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 18 comps.

Acenaphthene	Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene
Acenaphthylene	Benzo[k]fluoranthene	2-Methylnaphthalene
Anthracene	Chrysene	Naphthalene
Benz[a]anthracene	Dibenz[a,h]anthracene	Phenanthrene
Benzo[a]pyrene	Fluoranthene	Pyrene
Benzo[b]fluoranthene	Fluorene	1,2,3-Trimethylbenzene

Internal Standard

GRH-IS — **$ 15 / 1 x 1 mL**
GRH-IS-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
1000 µg/mL in CH_2Cl_2
GRH-IS-10X — **$ 30 / 1 x 1 mL**
10.0 mg/mL in CH_2Cl_2

5-alpha Androstane

EPH Surrogate Spike

DRH-MA-SS — **$ 10 / 1 x 1 mL**
20 µg/mL each in Acetone — 2 comps.
DRH-MA-SS-10X — **$ 20 / 1 x 1 mL**
200 µg/mL each in Acetone — 2 comps.
DRH-MA-SS-100X — **$ 22 / 1 x 1 mL**
DRH-MA-SS-100X-PAK — *SAVE 20%* **$ 88 / 5 x 1 mL**
2,000 µg/mL each in Acetone — 2 comps.

1-Chlorooctadecane — *o*-Terphenyl

EPH Matrix Spike

EPH-WA-MS2-20ML — **$ 30 / 1 x 20 mL**
EPH-WA-MS2-20ML-PAK — *SAVE 20%* **$ 120 / 5 x 20 mL**
25 µg/mL each in Acetone — 10 comps.

Acenaphthene	*n*-Decane	*n*-Heneicosane
Anthracene	*n*-Dodecane	Naphthalene
Benzo[g,h,i]perylene	*n*-Hexadecane	Pyrene
Benzo[a]pyrene		

EPH Aliphatic Check Mix

EPH-WA-ALI — **$ 20 / 1 x 1 mL**
EPH-WA-ALI-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 5 comps.

n-Octane	*n*-Dodecane	*n*-Heneicosane
n-Decane	*n*-Hexadecane	

EPH Aromatic Check Mix

EPH-WA-ARO — **$ 30 / 1 x 1 mL**
EPH-WA-ARO-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 5 comps.

Acenaphthene	Naphthalene	1,2,3-Trimethylbenzene
Benzo[g,h,i]perylene	Pyrene	

Revised EPH Aliphatic Check Mix

EPH-WA-ALI-R1 — **$ 20 / 1 x 1 mL**
EPH-WA-ALI-R1-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 6 comps.

n-Octane	*n*-Dodecane	*n*-Heneicosane
n-Decane	*n*-Hexadecane	*n*-Tetratriacontane

EPH Fractionation Check Standard

EPH-WA-FCS — **$ 45 / 1 x 1 mL**
EPH-WA-FCS-PAK — *SAVE 20%* **$ 180 / 5 x 1 mL**
25 µg/mL each in Hexane — 24 comps.

Acenaphthene	Chrysene	Pyrene
Acenaphthylene	Dibenz[a,h]anthracene	*n*-Decane
Anthracene	Fluoranthene	*n*-Dodecane
Benz[a]anthracene	Fluorene	*n*-Tetradecane
Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene	*n*-Hexadecane
Benzo[b]fluoranthene	2-Methylnaphthalene	*n*-Octadecane
Benzo[g,h,i]perylene	Naphthalene	*n*-Eicosane
Benzo[k]fluoranthene	Phenanthrene	*n*-Heneicosane

Revised EPH Fractionation Check Standard

EPH-WA-FCS-R1 — **$ 45 / 1 x 1 mL**
EPH-WA-FCS-R1-PAK — *SAVE 20%* **$ 180 / 5 x 1 mL**
25 µg/mL each in Hexane — 23 comps

Acenaphthene	Chrysene	Pyrene
Acenaphthylene	Dibenz[a,h]anthracene	*n*-Octane
Anthracene	Fluoranthene	*n*-Decane
Benz[a]anthracene	Fluorene	*n*-Dodecane
Benzo[a]pyrene	Indeno[1,2,3-cd]pyrene	*n*-Hexadecane
Benzo[b]fluoranthene	2-Methylnaphthalene	*n*-Heneicosane
Benzo[g,h,i]perylene	Naphthalene	*n*-Tetratriacontane
Benzo[k]fluoranthene	Phenanthrene	

1,2,3-Trimethylbenzene Standard

V-028S-D-10X — **$ 20 / 1 x 1 mL**
V-028S-D-10X-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
1000 µg/mL each in CH_2Cl_2

1,2,3-Trimethylbenzene

Revised EPH Aromatic Check Mix

EPH-WA-ARO-R1 — **$ 30 / 1 x 1 mL**
EPH-WA-ARO-R1-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
1.0 mg/mL each in CH_2Cl_2 — 6 comps.

Acenaphthene	Naphthalene	1,2,3-Trimethylbenzene
Benzo[g,h,i]perylene	Pyrene	Toluene

Aliphatic Surrogate

DRH-007-SS — **$ 15 / 1 x 1 mL**
DRH-007-SS-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
1.0 mg/mL in Hexane

1-Chlorooctadecane

Aromatic Surrogate

DRH-006-SS — **$ 15 / 1 x 1 mL**
DRH-006-SS-PAK — *SAVE 20%* **$ 60 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

o-Terphenyl

Wisconsin Method

Wisconsin DNR - Gasoline Range Hydrocarbons

GRH-003S — **$ 35 / 1 x 1 mL**
GRH-003S-PAK — *SAVE 20%* **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH — 10 comps.

Benzene	Toluene	*o*-Xylene
Ethylbenzene	1,2,4-Trimethylbenzene	*m*-Xylene
MtBE	1,3,5-Trimethylbenzene	*p*-Xylene
Naphthalene		

LUFT/LUST Standards
Gasoline Range Hydrocarbon (GRH)

Gasoline Range Hydrocarbon Analysis

EPA Method - Gasoline Range Hydrocarbons

Gasoline Standard

GRH-002S **$ 25 / 1 x 1 mL**
GRH-002S-10X **$ 30 / 1 x 1 mL**
At stated conc. in MeOH 10 comps.

	GRH-002S	GRH-002-10X
2-Methylpentane	(1.5 mg/mL)	(15 mg/mL)
2,2,4-Trimethylpentane	(1.5 mg/mL)	(15 mg/mL)
Heptane	(0.5 mg/mL)	(5 mg/mL)
Benzene	(0.5 mg/mL)	(5 mg/mL)
Toluene	(1.5 mg/mL)	(15 mg/mL)
Ethylbenzene	(0.5 mg/mL)	(5 mg/mL)
m-Xylene	(1.0 mg/mL)	(10 mg/mL)
p-Xylene	(1.0 mg/mL)	(10 mg/mL)
o-Xylene	(1.0 mg/mL)	(10 mg/mL)
1,2,4-Trimethylbenzene	(1.0 mg/mL)	(10 mg/mL)

Internal Standard

GARH-IS **$15 / 1 x 1 mL**
1.0 mg/mL in CH_2Cl_2

Chloro-4-fluorobenzene

Surrogate Standard

GARH-SS **$ 20 / 1 x 1 mL**
2.5 mg/mL in Acetone

4-Bromofluorobenzene

Gasoline Additives

GAD-001 **$ 20 / 1 x 1 mL**
GAD-001-PAK ***SAVE 20%*** **$ 80 / 5 x 1 mL**
0.2 mg/mL each in MeOH 4 comps.

Dibromomethane
1,2-Dibromoethane
1,2-Dichloroethane
Methyl t-butyl ethera

Technical Note

Simultaneous BTEX / Gasoline QA/QC
We have certified the benzene, toluene, ethyl benzene and xylene concentrations in the unleaded gasoline standard (GA-001-20X-BTEX). This allows the use of a single injection to verify that the QA/QC requirements are being met for the BTEX analytes as well as for the gasoline.

Certified BTEX in Unleaded Gasoline

GA-001-20X-BTEX **$ 55 / 1 x 1 mL**
10.0 mg/mL in MeOH

Regular unleaded gasoline

Hexadecane Extraction Volatiles

CLP-BTEX **$ 30 / 1 x 1 mL**
CLP-BTEX-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
0.2 mg/mL each in MeOH 6 comps.
CLP-BTEX-10X **$ 30 / 1 x 1 mL**
CLP-BTEX-10X-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
2.0 mg/mL each in MeOH 6 comps.

Benzene
Ethyl benzene
Toluene
o-Xylene
m-Xylene
p-Xylene

California - Gasoline Range Hydrocarbons

S-603A-10X **$ 25 / 1 x 1 mL**
S-603A-10X-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
2.0 mg/mL each in MeOH 7 comps.

Benzene
Ethylbenzene
Methyl t-butyl ether
Toluene
o-Xylene
m-Xylene
p-Xylene

Los Angeles County Well Investigation and Monitoring Program

Purgeable Aromatics - Gasoline ID

M-602-GAS-10X **$ 30 / 1 x 1 mL**
2.0 mg/mL each in MeOH 11 comps.

Benzene
Chlorobenzene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Ethylbenzene
Toluene
o-Xylene
p-Xylene
m-Xylene
MtBE

Oxygenate Gasoline Additive Standard

OGAD-001 **$ 30 / 1 x 1 mL**
OGAD-001-PAK ***SAVE 20%*** **$ 120 / 5 x 1 mL**
At stated conc. in MeOH 5 comps.

MtBE	(2000 µg/mL)	TAME	(2000 µg/mL)
ETBE	(2000 µg/mL)	t-Butanol	(10000 µg/mL)
Isopropyl ether	(2000 µg/mL)		

Ethanol

M-8015B/5031-11 **$ 25 / 1 x 1 mL**
10 mg/mL in Water

Methanol

M-8015B/5031-17 **$ 20 / 1 x 1 mL**
10 mg/mL in Water

Pennsylvania DER - Gasoline Range Hydrocarbons

GRH-001S **$ 25 / 1 x 1 mL**
GRH-001S-PAK ***SAVE 20%*** **$ 100 / 5 x 1 mL**
1.0 mg/mL each in MeOH 10 comps.

Benzene
Ethylbenzene
Heptane
2-Methyl pentane
Toluene
1,2,4-Trimethylbenzene
2,2,4-Trimethylpentane
o-Xylene
m-Xylene
p-Xylene

Wisconsin DNR - Gasoline Range Hydrocarbons

GRH-003S **$ 35 / 1 x 1 mL**
GRH-003S-PAK ***SAVE 20%*** **$ 140 / 5 x 1 mL**
2.0 mg/mL each in MeOH 10 comps.

Benzene
Ethylbenzene
MtBE
Naphthalene
Toluene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-Xylene
m-Xylene
p-Xylene

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

LUFT/LUST Standards
Diesel Range Hydrocarbons (DRH)

Diesel Range Hydrocarbon Analysis

EPA Method - Diesel Range Hydrocarbons

DRH-001S — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in CH_2Cl_2 : Hexane (1:1) — 10 comps.
DRH-001S-10X — **$ 30 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 : Hexane (1:1) — 10 comps.

n-Decane	C_{10}	*n*-Hexadecane	C_{16}	*n*-Docosane	C_{22}	*n*-Hexacosane	C_{26}
n-Dodecane	C_{12}	*n*-Octadecane	C_{18}	*n*-Tetracosane	C_{24}	*n*-Octacosane	C_{28}
n-Tetradecane	C_{14}	*n*-Eicosane	C_{20}				

Surrogate Standard

GRH-SS — **$ 17 / 1 x 1 mL**
GRH-SS-PAK — ***SAVE 20%*** **$ 68 / 5 x 1 mL**
2.0 mg/mL in Acetone

o-Terphenyl *(OTP)*

Internal Standard

GRH-IS — **$ 15 / 1 x 1 mL**
GRH-IS-PAK — ***SAVE 20%*** **$ 60 / 5 x 1 mL**
1.0 mg/mL in CH_2Cl_2

5-alpha Androstane

Calibration/Window Defining Hydrocarbon Standard

DRH-004S-R1-5X — **$ 50 / 1 x 1 mL**
DRH-004S-R1-5X-PAK — ***SAVE 20%*** **$ 200 / 5 x 1 mL**
1.0 mg/mL each in Chloroform — 17 comps.

Octane	C_8	Octadecane	C_{18}	Hexacosane	C_{26}	Tetratriacontane	C_{34}
Decane	C_{10}	Eicosane	C_{20}	Octacosane	C_{28}	Hexatriacontane	C_{36}
Dodecane	C_{12}	Docosane	C_{22}	Triacontane	C_{30}	Octatriacontane	C_{38}
Tetradecane	C_{14}	Tetracosane	C_{24}	Dotriacontane	C_{32}	Tetracontane	C_{40}
Hexadecane	C_{16}						

Surrogate Standard

DRH-SS — **$ 30 / 1 x 1 mL**
DRH-SS-PAK — ***SAVE 20%*** **$ 120 / 5 x 1 mL**
5.0 mg/mL in THF

n-Triacontane-d_{62}

D-2887 Calibration Solution

Calibration Solution

DRH-002S — **$ 45 / 1 x 1 mL**
At stated conc. in CS_2 — 17 comps.

Hexane	(600 µg/mL)	Dodecane	(1,200 µg/mL)	Octacosane	(100 µg/mL)
Heptane	(600 µg/mL)	Tetradecane	(1,200 µg/mL)	Dotriacontane	(100 µg/mL)
Octane	(800 µg/mL)	Hexadecane	(1,000 µg/mL)	Hexatriacontane	(100 µg/mL)
Nonane	(800 µg/mL)	Octadecane	(500 µg/mL)	Tetracontane	(100 µg/mL)
Decane	(1,200 µg/mL)	Eicosane	(200 µg/mL)	Tetratetracontane	(100 µg/mL)
Undecane	(1,200 µg/mL)	Tetracosane	(200 µg/mL)		

Column Test Mixture

ASTM-D2887 — **$ 10 / 1 x 1 mL**
1% v/v in n-Octane — 2 comps.

n-Hexadecane — *n*-Octadecane

Wisconsin Diesel Range Hydrocarbons

DRH-003S — **$ 20 / 1 x 1 mL**
0.2 mg/mL each in Hexane — 11 comps.

n-Decane	C_{10}	*n*-Tetradecane	C_{14}	*n*-Octadecane	C_{18}
n-Undecane	C_{11}	*n*-Pentadecane	C_{15}	*n*-Nonadecane	C_{19}
n-Dodecane	C_{12}	*n*-Hexadecane	C_{16}	*n*-Eicosane	C_{20}
n-Tridecane	C_{13}	*n*-Heptadecane	C_{17}		

Complete Hydrocarbon Analysis

Multi-State Hydrocarbon Window Defining Standard

DRH-008S-R2 — **$ 65 / 1 x 1 mL**
DRH-008S-R2-PAK — ***SAVE 20%*** **$ 260 / 5 x 1 mL**
500 µg/mL each in Chloroform — 35 comps.

Octane	Heptadecane	Tetracosane	Tritriacontane
Nonane	Pristane	Pentacosane	Tetratriacontane
Decane	Octadecane	Hexacosane	Pentatriacontane
Undecane	Phytane	Heptacosane	Hexatriacontane
Dodecane	Nonadecane	Octacosane	Heptatriacontane
Tridecane	Eicosane	Nonacosane	Octatriacontane
Tetradecane	Heneicosane	Triacontane	Nonatriacontane
Pentadecane	Docosane	*n*-Hentriacontane	Tetracontane
Hexadecane	Tricosane	Dotriacontane	

Technical Note

We offer a hydrocarbon window defining standard with the C_8 to C_{40} odd and even Alkanes. Use of this one standard should meet the numerous state to state variations for hydrocarbon validation and reporting. As an added benefit pristane and phytane are included in the formulation. This one standard can meet numerous LUFT/LUST programs requiring that the C_{17}/ pristane and C_{18}/ phytane ratio be used to estimate subsurface degradation of fuel oil spills.

A fuel oil degradation mixture containing just the four required analytes to determine the C_{17}/pristane and C_{18}/ phytane ratio (DRH-005S-10X) is also available.

Fuel Oil Degradation/Retention Time Mixture for Quantification of C_{17}/Pristane and C_{18}/Phytane Ratios

DRH-005S-10X — **$ 20 / 1 x 1 mL**
2.0 mg/mL each in CH_2Cl_2 : CS_2 (1:1) — 4 comps.

Heptadecane	Phytane *(2,6,10,14-Tetramethylhexadecane)*
Octadecane	Pristane *(2,6,10,14-Tetramethylpentadecane)*

Hydrocarbon Window Defining Standard Set

DRH-FTRPH-SET — **$ 80 / 2 x 1 mL (DRH-FTRPH, DRH-FTRPH2)**
DRH-FTRPH-SET-PAK — ***SAVE 20%*** **$ 320 / 5 (2 x 1 mL)**
500 µg/mL each in Hexane

FTRPH Calibration/Window Defining Standard

DRH-FTRPH — **$ 35 / 1 x 1 mL**
DRH-FTRPH-PAK — ***SAVE 20%*** **$ 140 / 5 x 1 mL**
500 µg/mL each in Hexane — 17 comps.

n-Octane	*n*-Octadecane	*n*-Hexacosane	*n*-Tetratriacontane
n-Decane	*n*-Eicosane	*n*-Octacosane	*n*-Hexatriacontane
n-Dodecane	*n*-Docosane	*n*-Triacontane	*n*-Octatriacontane
n-Tetradecane	*n*-Tetracosane	*n*-Dotriacontane	*n*-Tetracontane
n-Hexadecane			

Hydrocarbon Window Defining Standard

DRH-FTRPH2 — **$ 60 / 1 x 1 mL**
DRH-FTRPH2-PAK — ***SAVE 20%*** **$ 240 / 5 x 1 mL**
500 µg/mL each in Hexane — 18 comps.

n-Nonane	Pristane	*n*-Pentacosane	*n*-Tritriacontane
n-Undecane	Phytane	*n*-Heptacosane	*n*-Pentatriacontane
n-Tridecane	*n*-Nonadecane	*n*-Nonacosane	*n*-Heptatriacontane
n-Pentadecane	*n*-Heneicosane	*n*-Hentriacontane	*n*-Nonatriacontane
n-Heptadecane	*n*-Tricosane		

LUFT/LUST Standards

Oil, Grease & TPH (Method 1664, 413.2/418.1 & 8440) Weathered Fuel Sets

Method 1664 Oil, Grease & Total Petroleum Hydrocarbon Determination

Precision and Recovery (PAR) Spiking Solution

M-1664-5ML — **$ 15 / 1 x 5 mL**
M-1664-5ML-PAK — *SAVE 20%* **$ 60 / 5 x 5 mL**
4.0 mg/mL each in Acetone
M-1664-20ML — **$ 25 / 1 x 20 mL**
M-1664-20ML-PAK — *SAVE 20%* **$ 100 / 5 x 20 mL**
4.0 mg/mL each in Acetone — 2 comps.

Hexadecane
Stearic acid

Technical Note

Precison and Recovery (PAR) Spiking Solution was developed for Method 1664. This performance based method was developed to replace previous gravimetric procedures which incorporated Freon-113 as the extraction solvent for the determination of Oil and Grease and Total Petroleum Hydrocarbons. Each standard is packaged in a flame sealed ampule conveniently sized for quality control of the analytical batch.

Silica Gel Hexane Extraction Material

SGT-HEM — **$ 15 / 1 x 1 mL**
20 µg/mL each in Acetone — 2 comps.

Stearic acid
Hexadecane

Method 413.2 & 418.1 Total Petroleum Hydrocarbon Analysis by IR

Oil, Grease & Petroleum Hydrocarbon Concentrates Mix

M-418-CON — **$ 35 / 1 x 1 mL**
% by volume — 3 comps.

Chlorobenzene (25.0)
Isooctane (37.5)
Hexadecane (37.5)

Oil, Grease and Petroleum Hydrocarbon Total Recoverable (IR Method)

M-418 — **$ 30 / 1 x 1 mL**
M-418-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
Total 4.15 mg/mL in Freon 113, (Parts by volume) — 3 comps.

Chlorobenzene (10.0)
n-Hexadecane (15.0)
Isooctane (15.0)

Method 8440 Total Petroleum Hydrocarbon Analysis

Total Recoverable Petroleum Hydrocarbon Mix

M-8440 — **$ 20 / 1 x 1 mL**
M-8440-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in Tetrachloroethene — 3 comps.

Chlorobenzene (0.10 w/w %)
n-Hexadecane (0.15 w/w %)
Isooctane (0.15 w/w %)

Silica Gel Cleanup Calibration Solution

M-8440-SGC — **$ 10 / 1 x 1 mL**
M-8440-SGC-PAK — *SAVE 20%* **$ 40 / 5 x 1 mL**
10.0 mg/mL in Tetrachloroethene

Corn Oil

Total Petroleum Hydrocarbon Concentrate Mix

M-8440-CON — **$ 30 / 1 x 1 mL**
M-8440-CON-PAK — *SAVE 20%* **$ 120 / 5 x 1 mL**
3 comps.

Chlorobenzene (25.0 vol %)
n-Hexadecane (37.5 vol %)
Isooctane (37.5 vol %)

Leaking Underground Storage Tank Retention Time Standard

This product can be used to screen a sample to determine what type of petroleum spill that may have caused the contamination.

Retention Time Standard

DRH-010S — **$ 20 / 1 x 1 mL**
DRH-010S-PAK — *SAVE 20%* **$ 80 / 5 x 1 mL**
25 µg/mL each in CH_2Cl_2 — 7 comps.

n-Hexane
n-Decane
n-Dodecane
n-Tetracosane
n-Octacosane
n-Triacontane
n-Tetracontane

Technical Note

A sample showing peaks in the C_6-C_{10} range generally indicates a gasoline spill. Samples with the peaks in the C_{12}-C_{24} range are indicative of a diesel spill while samples with the higher carbon numbers above C_{24} are typically oils or lubricants. Once the initial screen is complete, more detailed work can be done to further identify the contaminant.

Standards of Interest

See our Weathered LUFT/LUST Fuel Set in the Fuel and Hydrocarbon Section - pages 318-319

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Wear Metals
AA, ICP, DCP & XRF Analysis

These Standards were formulated for the analysis of metals in oils and other organic matrices. The curves generated provide a convenient way to analyze for metals (wear metals, additives and contaminants) in lubricating oils, gasolines, residual oils, crude oils, turbine fuels and environmental samples. All standards undergo rigorous quality assurance checks. Major constituents in the final Standard are typically analyzed by both plasma emission and rotrode techniques. Organometallic Standards listed on this page may contain sulfur which can be introduced by possible sulfonate starting materials used to formulate the actual organometallic standard. We developed a Premium Organometallic line for chemists preferring to have organometallic standards with <1 ppm sulfur or phosphorous (see Table of Contents).

- Single & Multi Element Standards
- Prepared Calibration Curves
- Formulated from Ultra High Purity Organometallic starting materials & matrices
- Certificate of Analysis

Single Element Wear Metals

Organometallic ICP/XRF

	1000 µg/g in 75 cSt base oil		5000 µg/g in 75 cSt base oil	
Element	**Cat. No. (50 g)**	**Price**	**Cat. No. (50 g)**	**Price**
Al (Aluminum)	WM-75CST-01	$ 38	WM-75CST-01-5X	$ 48
Sb (Antimony)	WM-75CST-02	38	WM-75CST-02-5X	48
As (Arsenic)	WM-75CST-03	44	----------	----
Ba (Barium)	WM-75CST-04	38	WM-75CST-04-5X	48
Be (Beryllium)	WM-75CST-05	41	----------	----
Bi (Bismuth)	WM-75CST-06	38	WM-75CST-06-5X	221
B (Boron)	WM-75CST-07	38	WM-75CST-07-5X	48
Cd (Cadmium)	WM-75CST-08	38	WM-75CST-08-5X	48
Ca (Calcium)	WM-75CST-09	38	WM-75CST-09-5X	48
Cr (Chromium)	WM-75CST-13	38	WM-75CST-13-5X	48
Co (Cobalt)	WM-75CST-14	38	WM-75CST-14-5X	48
Cu (Copper)	WM-75CST-15	38	WM-75CST-15-5X	48
Fe (Iron)	WM-75CST-27	38	WM-75CST-27-5X	48
La (Lanthanum)	WM-75CST-28	84	----------	----
Pb (Lead)	WM-75CST-29	38	WM-75CST-29-5X	48
Li (Lithium)	WM-75CST-30	38	WM-75CST-30-5X	48
Mg (Magnesium)	WM-75CST-32	38	WM-75CST-32-5X	48
Mn (Manganese)	WM-75CST-33	38	WM-75CST-33-5X	48
Hg (Mercury)	WM-75CST-34	44	----------	----
Mo (Molybdenum)	WM-75CST-35	38	WM-75CST-35-5X	48
Ni (Nickel)	WM-75CST-37	38	WM-75CST-37-5X	48
P (Phosphorous)	WM-75CST-41	38	WM-75CST-41-5X	48
K (Potassium)	WM-75CST-43	38	WM-75CST-43-5X	48
Sc (Scandium)	WM-75CST-50	65	----------	----
Se (Selenium)	WM-75CST-51	44	----------	----
Si (Silicon)	WM-75CST-52	38	WM-75CST-52-5X	48
Ag (Silver)	WM-75CST-53	38	WM-75CST-53-5X	48
Na (Sodium)	WM-75CST-54	38	WM-75CST-54-5X	48
Sr (Strontium)	WM-75CST-55	38	----------	----
S (Sulfur)	WM-75CST-56	38	WM-75CST-56-5X	48
Tl (Thallium)	WM-75CST-60	44	----------	----
Sn (Tin)	WM-75CST-63	38	WM-75CST-63-5X	48
Ti (Titanium)	WM-75CST-64	38	WM-75CST-64-5X	48
V (Vanadium)	WM-75CST-67	38	WM-75CST-67-5X	48
Y (Yttrium)	WM-75CST-69	44	WM-75CST-69-5X	106
Zn (Zinc)	WM-75CST-70	38	WM-75CST-70-5X	48
Zn (Zirconium)	WM-75CST-71	38	WM-75CST-71-5X	48

Matrix Oil and Stabilizer

75 cSt Oil
MOSOL-75 — **$ 23 / 500 mL**

Stabilizer
WM-STAB — **$ 95 / 1 x 50 g**

Technical Note

Used to improve the stability or Organometallic Standards when diluting into solvents such as Kerosene.

Metals Additives

Metals Additives Standard

MA-900-100G — **$ 114 / 100 g**
MA-900-200G — **$ 165 / 200 g**
900 µg/g each in Hydrocarbon oil
MA-1000-100G — **$ 149 / 100 g**
MA-1000-200G — **$ 251 / 200 g**
1000 µg/g each in Hydrocarbon oil
MA-3000-100G — **$ 295 / 100 g**
MA-3000-200G — **$ 471 / 200 g**
3000 µg/g each in Hydrocarbon oil
MA-5000-100G — **$ 424 / 100 g**
MA-5000-200G — **$ 685 / 200 g**
5000 µg/g each in Hydrocarbon oil — 5 comps.

Ba (Barium)
Ca (Calcium)
Mg (Magnesium)
P (Phosphorous)
Zn (Zinc)



Wear Metals
AA, ICP, DCP & XRF Analysis

12 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-12-1X-100G	$ 90
	200 g	WM-12-1X-200G	95
30 µg/g	100 g	WM-12-3X-100G	90
	200 g	WM-12-3X-200G	95
50 µg/g	100 g	WM-12-5X-100G	95
	200 g	WM-12-5X-200G	100
100 µg/g	100 g	WM-12-10X-100G	100
	200 g	WM-12-10X-200G	150
300 µg/g	100 g	WM-12-30X-100G	120
	200 g	WM-12-30X-200G	215
500 µg/g	100 g	WM-12-50X-100G	180
	200 g	WM-12-50X-200G	310
900 µg/g	100 g	WM-12-90X-100G	250
	200 g	WM-12-90X-200G	445
100 gram Set		WM-12-100G-SET set of above 7 x 100 g	$ 825
200 gram Set		WM-12-200G-SET set of above 7 x 200 g	$ 1250

Each Wear Metal Standard contains 12 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)

21 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-21-1X-100G	$ 95
	200 g	WM-21-1X-200G	100
30 µg/g	100 g	WM-21-3X-100G	95
	200 g	WM-21-3X-200G	100
50 µg/g	100 g	WM-21-5X-100G	100
	200 g	WM-21-5X-200G	105
100 µg/g	100 g	WM-21-10X-100G	105
	200 g	WM-21-10X-200G	160
300 µg/g	100 g	WM-21-30X-100G	170
	200 g	WM-21-30X-200G	310
500 µg/g	100 g	WM-21-50X-100G	245
	200 g	WM-21-50X-200G	445
900 µg/g	100 g	WM-21-90X-100G	380
	200 g	WM-21-90X-200G	675
100 gram Set		WM-21-100G-SET set of above 7 x 100 g	$ 1050
200 gram Set		WM-21-200G-SET set of above 7 x 200 g	$ 1700

Each Wear Metal Standard contains 21 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

22 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-22-1X-100G	$ 115
	200 g	WM-22-1X-200G	120
30 µg/g	100 g	WM-22-3X-100G	115
	200 g	WM-22-3X-200G	120
50 µg/g	100 g	WM-22-5X-100G	120
	200 g	WM-22-5X-200G	125
100 µg/g	100 g	WM-22-10X-100G	125
	200 g	WM-22-10X-200G	145
300 µg/g	100 g	WM-22-30X-100G	190
	200 g	WM-22-30X-200G	340
500 µg/g	100 g	WM-22-50X-100G	275
	200 g	WM-22-50X-200G	485
900 µg/g	100 g	WM-22-90X-100G	420
	200 g	WM-22-90X-200G	725
100 gram Set		WM-22-100G-SET set of above 7 x 100 g	$ 1225
200 gram Set		WM-22-200G-SET set of above 7 x 200 g	$ 1850

Each Wear Metal Standard contains 22 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
K (Potassium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

23 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-23-1X-100G	$ 135
	200 g	WM-23-1X-200G	140
30 µg/g	100 g	WM-23-3X-100G	135
	200 g	WM-23-3X-200G	140
50 µg/g	100 g	WM-23-5X-100G	140
	200 g	WM-23-5X-200G	145
100 µg/g	100 g	WM-23-10X-100G	145
	200 g	WM-23-10X-200G	165
300 µg/g	100 g	WM-23-30X-100G	210
	200 g	WM-23-30X-200G	395
500 µg/g	100 g	WM-23-50X-100G	305
	200 g	WM-23-50X-200G	525
900 µg/g	100 g	WM-23-90X-100G	495
	200 g	WM-23-90X-200G	765
100 gram Set		WM-23-100G-SET set of above 7 x 100 g	$ 1400
200 gram Set		WM-23-200G-SET set of above 7 x 200 g	$ 2025

Each Wear Metal Standard contains 23 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
K (Potassium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Sb (Antimomy)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)



Wear Metals
Premium Sulfur-Free

- Highly Concentrated Liquid Organometallic Standards
- Stabilized
- Sulfur/Phosphorous free (< 1 ppm)
- Ready for Use

Organometallic Single Element Stock Standards

Sulfur free Element	@ 1000 µg/g Cat. No.	Price 50 mL	@ 5000 µg/g Cat. No.	Price 50 mL
Al (Aluminum)	WM-NMS-01	$ 55	WM-NMS-01-5X	$ 72
Sb (Antimony)	WM-NMS-02	55	WM-NMS-02-5X	72
As (Arsenic)	WM-NMS-03	55	WM-NMS-03-5X	72
Ba (Barium)	WM-NMS-04	55	WM-NMS-04-5X	72
Be (Beryllium)	WM-NMS-05	69	WM-NMS-05-5X	118
Cd (Cadmium)	WM-NMS-08	55	WM-NMS-08-5X	72
Ca (Calcium)	WM-NMS-09	55	WM-NMS-09-5X	72
Ce (Cerium)	WM-NMS-11	55	WM-NMS-11-5X	72
Cr (Chromium)	WM-NMS-13	44	WM-NMS-13-5X	58
Co (Cobalt)	WM-NMS-14	44	WM-NMS-14-5X	58
Cu (Copper)	WM-NMS-15	44	WM-NMS-15-5X	58
Ga (Gallium)	WM-NMS-20	72	WM-NMS-20-5X	142
Au (Gold)	WM-NMS-22	111	----------	----
Fe (Iron)	WM-NMS-27	55	WM-NMS-27-5X	72
Pb (Lead)	WM-NMS-29	55	WM-NMS-29-5X	72
Li (Lithium)	WM-NMS-30	72	WM-NMS-30-5X	124
Mg (Magnesium)	WM-NMS-32	55	WM-NMS-32-5X	72
Mn (Manganese)	WM-NMS-33	55	WM-NMS-33-5X	72
Hg (Mercury)	WM-NMS-34	62	WM-NMS-34-5X	110
Mo (Molybdenum)	WM-NMS-35	62	WM-NMS-35-5X	110
Ni (Nickel)	WM-NMS-37	55	WM-NMS-37-5X	72
P (Phosphorous)	WM-NMS-41	55	WM-NMS-41-5X	72
K (Potassium)	WM-NMS-43	55	WM-NMS-43-5X	72
Se (Selenium)	WM-NMS-51	55	WM-NMS-51-5X	72
Si (Silicon)	WM-NMS-52	72	WM-NMS-52-5X	124
Ag (Silver)	WM-NMS-53	72	WM-NMS-53-5X	124
Na (Sodium)	WM-NMS-54	55	WM-NMS-54-5X	72
Sr (Strontium)	WM-NMS-55	55	WM-NMS-55-5X	72
Tl (Thallium)	WM-NMS-60	55	WM-NMS-60-5X	72
Sn (Tin)	WM-NMS-63	55	WM-NMS-63-5X	72
Ti (Titanium)	WM-NMS-64	55	WM-NMS-64-5X	72
V (Vanadium)	WM-NMS-67	55	WM-NMS-67-5X	72
Y (Yttrium)	WM-NMS-69	60	WM-NMS-69-5X	105
Zn (Zinc)	WM-NMS-70	55	WM-NMS-70-5X	72
Zr (Zirconium)	WM-NMS-71	55	WM-NMS-71-5X	72

Stabilization Solutions

The solutions were specifically designed for chelating & solubilizing our line of Sulfur-Free Organometallic Standards. Contact Tech Service for additional information.

Stabilizer Solution A
ASTM-P-0122-0.5 $ 80 / 50 mL
ASTM-P-0122-1 $ 120 / 100 mL

Stabilizer Solution B
ASTM-P-0123-0.5 $ 80 / 50 mL
ASTM-P-0123-1 $ 120 / 100 mL

Stabilizer Solution C
ASTM-P-0124-0.5 $ 80 / 50 mL
ASTM-P-0124-1 $ 120 / 100 mL

Stabilizer Solution D
ASTM-P-0125-0.5 $ 80 / 50 mL
ASTM-P-0125-1 $ 120 / 100 mL

Premium Sulfur-Free
Sulfur below detection limits

Contains No Metallic Sulfonates

These highly concentrated stabilized solutions can be used for customer specific formulations of additive elements in lubricating oils, iron, nickel and vanadium in residual oil, and wear metals in oils. These organometallic solutions can also be used to prepare single element or multi-element standards for plasma emission (ICP or DCP), rotating disk (rotrode), or atomic absorption spectroscopy (AA). The starting materials are PURE REAGENTS and have been certified against NIST SRM's whenever available. **THEY DO NOT CONTAIN PHOSPHORUS OR SULFUR.**

Organometallic Single Element Concentrates

Element	Conc. (Wt. %)	Cat. No.	Price / 25 grams	Cat. No.	Price / 50 grams
Al (Aluminum)	3	WM-NMS-01-30X-25G	$ 178	WM-NMS-01-30X-50G	$ 261
Sb (Antimony)	2	WM-NMS-02-20X-25G	122	WM-NMS-02-20X-50G	183
Ba (Barium)	12.5	WM-NMS-04-125X-25G	540	WM-NMS-04-125X-50G	780
Cd (Cadmium)	10	WM-NMS-08-100X-25G	510	WM-NMS-08-100X-50G	710
Ca (Calcium)	5	WM-NMS-09-50X-25G	272	WM-NMS-09-50X-50G	422
Ce (Cerium)	5	WM-NMS-11-50X-25G	272	WM-NMS-11-50X-50G	422
Cr (Chromium)	3.5	WM-NMS-13-35X-25G	194	WM-NMS-13-35X-50G	299
Co (Cobalt)	7.5	WM-NMS-14-75X-25G	422	WM-NMS-14-75X-50G	577
Cu (Copper)	6	WM-NMS-15-60X-25G	344	WM-NMS-15-60X-50G	516
Fe (Iron)	4	WM-NMS-27-40X-25G	239	WM-NMS-27-40X-50G	361
Pb (Lead)	20	WM-NMS-29-200X-25G	900	WM-NMS-29-200X-50G	1260
Li (Lithium)	1.5	WM-NMS-30-15X-25G	155	WM-NMS-30-15X-50G	239
Mg (Magnesium422)	3	WM-NMS-32-30X-25G	180	WM-NMS-32-30X-50G	278
Mn (Manganese)	6	WM-NMS-33-60X-25G	333	WM-NMS-33-60X-50G	505
Mo (Molybdenum)	5	WM-NMS-35-50X-25G	272	WM-NMS-35-50X-50G	422
Ni (Nickel)	5	WM-NMS-37-50X-25G	272	WM-NMS-37-50X-50G	422
P (Phosphorus)	5	WM-NMS-41-50X-25G	272	WM-NMS-41-50X-50G	422
K (Potassium)	7.5	WM-NMS-43-75X-25G	422	WM-NMS-43-75X-50G	577
Pr (Praseodymium)	3	WM-NMS-44-30X-25G	175	WM-NMS-44-30X-50G	240
Se (Selenium)	3.5	WM-NMS-51-35X-25G	200	WM-NMS-51-35X-50G	270
Si (Silicon)	7.5	WM-NMS-52-75X-25G	383	WM-NMS-52-75X-50G	528
Na (Sodium)	2.5	WM-NMS-54-25X-25G	180	WM-NMS-54-25X-50G	278
Sr (Strontium)	10	WM-NMS-55-100X-25G	510	WM-NMS-55-100X-50G	710
Tl (Thallium)	5	WM-NMS-60-50X-25G	272	WM-NMS-60-50X-50G	422
Sn (Tin)	7.5	WM-NMS-63-75X-25G	422	WM-NMS-63-75X-50G	577
Ti (Titanium)	5	WM-NMS-64-50X-25G	272	WM-NMS-64-50X-50G	422
V (Vanadium)	4	WM-NMS-67-40X-25G	239	WM-NMS-67-40X-50G	361
Y (Yttrium)	2.5	WM-NMS-69-25X-25G	180	WM-NMS-69-25X-50G	278
Zn (Zinc)	6	WM-NMS-70-60X-25G	306	WM-NMS-70-60X-50G	461
Zr (Zirconium)	5	WM-NMS-71-50X-25G	272	WM-NMS-71-50X-50G	422

Technical Note

These standards are **sulfur free** (below detection limits) **organometallic standards** for X-ray Fluorescence (XRF), plasma emission (ICP or DCP), rotating disk (rotrode), or atomic absorption (AA). They are stabilized for blending together with other Analytes to prepare multi-element standards.

Wear Metals
Premium Sulfur-Free

11 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-11-NMS-1X-1	$ 130
30 µg/g	100 mL	WM-11-NMS-3X-1	130
50 µg/g	100 mL	WM-11-NMS-5X-1	130
100 µg/g	100 mL	WM-11-NMS-10X-1	140
300 µg/g	100 mL	WM-11-NMS-30X-1	165
500 µg/g	100 mL	WM-11-NMS-50X-1	245
900 µg/g	100 mL	WM-11-NMS-90X-1	325
100 mL Set		**WM-11-NMS-1-SET**	**$ 1100**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 11 elements listed below in hydrocarbon oil at the stated concentration.

Al (Aluminum)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)

12 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-12-NMS-1X-1	$ 135
30 µg/g	100 mL	WM-12-NMS-3X-1	135
50 µg/g	100 mL	WM-12-NMS-5X-1	135
100 µg/g	100 mL	WM-12-NMS-10X-1	145
300 µg/g	100 mL	WM-12-NMS-30X-1	170
500 µg/g	100 mL	WM-12-NMS-50X-1	250
900 µg/g	100 mL	WM-12-NMS-90X-1	375
100 mL Set		**WM-12-NMS-1-SET**	**$ 1175**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 12 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)

Contains No Metallic Sulfonates

Premium Sulfur-Free

Sulfur below detection limits

20 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-20-NMS-1X-1	$ 150
30 µg/g	100 mL	WM-20-NMS-3X-1	150
50 µg/g	100 mL	WM-20-NMS-5X-1	150
100 µg/g	100 mL	WM-20-NMS-10X-1	170
300 µg/g	100 mL	WM-20-NMS-30X-1	230
500 µg/g	100 mL	WM-20-NMS-50X-1	350
900 µg/g	100 mL	WM-20-NMS-90X-1	500
100 mL Set		**WM-20-NMS-1-SET**	**$ 1450**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 20 elements listed below in hydrocarbon oil at the stated concentration.

Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

21 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-21-NMS-1X-1	$ 160
30 µg/g	100 mL	WM-21-NMS-3X-1	160
50 µg/g	100 mL	WM-21-NMS-5X-1	160
100 µg/g	100 mL	WM-21-NMS-10X-1	180
300 µg/g	100 mL	WM-21-NMS-30X-1	240
500 µg/g	100 mL	WM-21-NMS-50X-1	350
900 µg/g	100 mL	WM-21-NMS-50X-1	550
100 mL Set		**WM-21-NMS-1-SET**	**$ 1550**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 21 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

Recommended Internal Standard

Organometallic (Internal Standard) Sulfur free

	Conc.	Cat. No.	Price / 50 mL
Cobalt	1000 µg/g	WM-NMS-14	$ 44
	5000 µg/g	WM-NMS-14-5X	$ 58

Sulfur and Metals in Oil

Sulfur and Metals in Mineral Oil

ASTM-P-0100-SET — **$ 1675 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0100-01	0.00	0	0	$ 200
ASTM-P-0100-02	0.50	10	500	200
ASTM-P-0100-03	1.00	100	25	200
ASTM-P-0100-04	1.50	80	250	200
ASTM-P-0100-05	2.00	40	100	200
ASTM-P-0100-06	2.50	5	400	200
ASTM-P-0100-07	3.00	60	300	200
ASTM-P-0100-08	3.50	0	200	200
ASTM-P-0100-09	4.00	100	0	200
ASTM-P-0100-10	4.50	50	250	200
ASTM-P-0100-11	5.00	20	500	200
ASTM-P-0100-12	5.50	100	50	200

Sulfur and Metals in Residual Fuel Oil

ASTM-P-0101-SET — **$ 1965 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0101-01	0.00	0	0	$ 200
ASTM-P-0101-02	0.50	10	500	200
ASTM-P-0101-03	1.00	100	25	200
ASTM-P-0101-04	1.50	80	250	200
ASTM-P-0101-05	2.00	40	100	200
ASTM-P-0101-06	2.50	5	400	200
ASTM-P-0101-07	3.00	60	300	200
ASTM-P-0101-08	3.50	0	200	200
ASTM-P-0101-09	4.00	100	0	200
ASTM-P-0101-10	4.50	50	250	200
ASTM-P-0101-11	5.00	20	500	200
ASTM-P-0101-12	5.50	100	50	200

Test Method A - ICP with an Organic Solvent Specimen Solution

Sulfur and Metals in Mineral Oil

Designed for ASTM D5708

ASTM-P-0102-SET — **$ 1960 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Iron (µg/g)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0102-01	0.00	0	0	0	$ 225
ASTM-P-0102-02	0.50	300	10	500	225
ASTM-P-0102-03	1.00	500	100	25	225
ASTM-P-0102-04	-----	100	80	250	225
ASTM-P-0102-05	2.00	200	40	100	225
ASTM-P-0102-06	2.50	400	5	400	225
ASTM-P-0102-07	3.00	0	60	300	225
ASTM-P-0102-08	3.50	500	0	200	225
ASTM-P-0102-09	-----	100	100	0	225
ASTM-P-0102-10	4.50	300	50	250	225
ASTM-P-0102-11	5.00	200	20	500	225
ASTM-P-0102-12	5.50	50	100	50	225

Sulfur and Metals in Residual Fuel Oil

Designed for ASTM D5708

ASTM-P-0103-SET — **$ 2220 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Iron (µg/g)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0103-01	0.00	0	0	0	$ 225
ASTM-P-0103-02	0.50	300	10	500	225
ASTM-P-0103-03	1.00	500	100	25	225
ASTM-P-0103-04	-----	100	80	250	225
ASTM-P-0103-05	2.00	200	40	100	225
ASTM-P-0103-06	2.50	400	5	400	225
ASTM-P-0103-07	3.00	0	60	300	225
ASTM-P-0103-08	3.50	500	0	200	225
ASTM-P-0103-09	-----	100	100	0	225
ASTM-P-0103-10	4.50	300	50	250	225
ASTM-P-0103-11	5.00	200	20	500	225
ASTM-P-0103-12	5.50	50	100	50	225

After Acid Decomposition of Sample

Stock Multi-Element in Mineral Oil

D-5708-A-10X — **$ 150 / 100 mL**

100 µg/g in 20 cSt mineral oil — 3 comps.

Iron
Nickel
Vanadium

Nitric Acid Blank

CLP-BLN-5 ▲ — **$ 30 / 500 mL**

CLP-BLN-L-VAP ▲ — **$ 45 / 1 L** (2 x 500 mL)

5% HNO_3 in ASTM Type I Water

Working Level Multi-Element Aqueous Standard

D-5708-B-5 ▲ — **$ 105 / 500 mL**

10 µg/mL each in 2-5% HNO_3 — 3 comps.

Iron
Nickel
Vanadium

Stock Multi-Element Aqueous Standard

D-5708-B-10X-1 ▲ — **$ 60 / 100 mL**

D-5708-B-10X-5 ▲ — **$ 115 / 500 mL**

100 µg/mL each in 2-5% HNO_3 — 3 comps.

Iron
Nickel
Vanadium

Stock Multi-Element Aqueous Standard

D-5863-95A-10X-1 ▲ — **$ 75 / 1 x 100 mL**

2-5% HNO_3 — 3 comps.

Iron	100	Vanadium	200
Nickel	200		

Stock Multi-Element Standard in Mineral Oil

D-5863-95B-10X — **$ 160 / 1 x 100 g**

At stated conc. (µg/g) in 20 cst Mineral Oil — 3 comps.

Sodium	50	Vanadium	150
Nickel	200		

ISO/CD 14597 Vanadium and Nickel Standards with Manganese (Internal Standard)

Vanadium Standards - Low Range for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0104-SET — **$ 1050 / 9 x 100 mL**

Cat. No.	Vanadium Conc. (Wt.%)	Price 100 mL
ASTM-P-0104-01	0.0005	$ 150
ASTM-P-0104-02	0.0025	150
ASTM-P-0104-03	0.0050	150
ASTM-P-0104-04	0.0075	150
ASTM-P-0104-05	0.0100	150
ASTM-P-0104-06	0.0125	150
ASTM-P-0104-07	0.0150	150
ASTM-P-0104-08	0.0175	150
ASTM-P-0104-09	0.0200	150

Vanadium Standards - High Range for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0105-SET — **$ 825 / 7 x 100 mL**

Cat. No.	Vanadium Conc. (Wt.%)	Price 100 mL
ASTM-P-0105-01	0.0000	$ 135
ASTM-P-0105-02	0.0300	135
ASTM-P-0105-03	0.0400	135
ASTM-P-0105-04	0.0500	135
ASTM-P-0105-05	0.0600	135
ASTM-P-0105-06	0.0800	135
ASTM-P-0105-07	0.1000	135

Internal Standard

ASTM-P-0107-5 — **$ 235 / 500 mL**

Manganese @ 0.05 Wt. % in Xylene-Mineral Oil

Nickel Standards for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0106-SET — **$ 825 / 7 x 100 mL**

Cat. No.	Nickel Conc. (Wt.%)	Price 100 mL
ASTM-P-0106-01	0.0000	$ 135
ASTM-P-0106-02	0.0005	135
ASTM-P-0106-03	0.0010	135
ASTM-P-0106-04	0.0025	135
ASTM-P-0106-05	0.0050	135
ASTM-P-0106-06	0.0075	135
ASTM-P-0106-07	0.0100	135

▲ Hazardous fee required.

Lubricating Oil Standards

ASTM-P-0108-SET — **$ 2080 / 17 x 100 mL**

Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0108-01	0.600	0.005	0.175	0.060
ASTM-P-0108-02	0.500	0.200	0.050	0.080
ASTM-P-0108-03	0.400	0.150	0.300	0.180
ASTM-P-0108-04	0.260	0.250	0.150	0.120
ASTM-P-0108-05	0.005	0.005	0.450	0.070
ASTM-P-0108-06	0.400	0.025	0.350	0.100
ASTM-P-0108-07	0.300	0.060	0.250	0.120
ASTM-P-0108-08	0.200	0.100	0.450	0.100
ASTM-P-0108-09	0.060	0.080	0.300	0.130
ASTM-P-0108-10	0.060	0.050	0.200	0.050
ASTM-P-0108-11	0.050	0.120	0.100	0.075
ASTM-P-0108-12	0.025	0.150	0.200	0.130
ASTM-P-0108-13	0.005	0.200	0.400	0.150
ASTM-P-0108-14	0.170	0.250	0.550	0.110
ASTM-P-0108-15	0.100	0.100	0.200	0.200
ASTM-P-0108-16	0.010	0.010	0.600	0.250
ASTM-P-0108-17	0.000	0.000	0.000	0.000

ASTM-P-0109-SET — **$ 2450 / 17 x 100 mL**

Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0109-01	0.600	0.100	0.005	0.175	0.060
ASTM-P-0109-02	0.500	0.000	0.200	0.050	0.080
ASTM-P-0109-03	0.400	0.010	0.150	0.300	0.180
ASTM-P-0109-04	0.260	0.500	0.250	0.150	0.120
ASTM-P-0109-05	0.005	1.000	0.005	0.450	0.070
ASTM-P-0109-06	0.400	0.400	0.025	0.350	0.100
ASTM-P-0109-07	0.300	0.100	0.060	0.250	0.120
ASTM-P-0109-08	0.200	0.010	0.100	0.450	0.100
ASTM-P-0109-09	0.060	0.050	0.080	0.300	0.130
ASTM-P-0109-10	0.060	0.200	0.050	0.200	0.050
ASTM-P-0109-11	0.050	0.500	0.120	0.100	0.075
ASTM-P-0109-12	0.025	0.800	0.150	0.200	0.130
ASTM-P-0109-13	0.005	1.000	0.200	0.400	0.150
ASTM-P-0109-14	0.170	0.600	0.250	0.550	0.110
ASTM-P-0109-15	0.100	0.200	0.100	0.200	0.200
ASTM-P-0109-16	0.010	0.400	0.010	0.600	0.250
ASTM-P-0109-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0110-SET — **$ 2485 / 17 x 100 mL**

Designed for ASTM D4927

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0110-01	0.100	0.600	0.005	0.175	0.060
ASTM-P-0110-02	0.175	0.500	0.200	0.050	0.080
ASTM-P-0110-03	0.000	0.400	0.150	0.300	0.180
ASTM-P-0110-04	0.025	0.260	0.250	0.150	0.120
ASTM-P-0110-05	0.150	0.005	0.005	0.450	0.070
ASTM-P-0110-06	0.000	0.400	0.025	0.350	0.100
ASTM-P-0110-07	0.200	0.300	0.060	0.250	0.120
ASTM-P-0110-08	0.000	0.200	0.100	0.450	0.100
ASTM-P-0110-09	0.100	0.060	0.080	0.300	0.130
ASTM-P-0110-10	0.050	0.060	0.050	0.200	0.050
ASTM-P-0110-11	0.075	0.050	0.120	0.100	0.075
ASTM-P-0110-12	0.010	0.025	0.150	0.200	0.130
ASTM-P-0110-13	0.005	0.005	0.200	0.400	0.150
ASTM-P-0110-14	0.000	0.170	0.250	0.550	0.110
ASTM-P-0110-15	0.000	0.100	0.100	0.200	0.200
ASTM-P-0110-16	0.005	0.010	0.010	0.600	0.250
ASTM-P-0110-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0111-SET — **$ 2650 / 17 x 100 mL**

Designed for ASTM D4927

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0111-01	0.100	0.600	0.100	0.005	0.175	0.060
ASTM-P-0111-02	0.175	0.500	0.000	0.200	0.050	0.080
ASTM-P-0111-03	0.000	0.400	0.010	0.150	0.300	0.180
ASTM-P-0111-04	0.025	0.260	0.500	0.250	0.150	0.120
ASTM-P-0111-05	0.150	0.005	1.000	0.005	0.450	0.070
ASTM-P-0111-06	0.000	0.400	0.400	0.025	0.350	0.100
ASTM-P-0111-07	0.200	0.300	0.100	0.060	0.250	0.120
ASTM-P-0111-08	0.000	0.200	0.010	0.100	0.450	0.100
ASTM-P-0111-09	0.100	0.060	0.050	0.080	0.300	0.130
ASTM-P-0111-10	0.050	0.060	0.200	0.050	0.200	0.050
ASTM-P-0111-11	0.075	0.050	0.500	0.120	0.100	0.075
ASTM-P-0111-12	0.010	0.025	0.800	0.150	0.200	0.130
ASTM-P-0111-13	0.005	0.005	1.000	0.200	0.400	0.150
ASTM-P-0111-14	0.000	0.170	0.600	0.250	0.550	0.110
ASTM-P-0111-15	0.000	0.100	0.200	0.100	0.200	0.200
ASTM-P-0111-16	0.005	0.010	0.400	0.010	0.600	0.250
ASTM-P-0111-17	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0112-SET — **$ 2485 / 17 x 100 mL**

Cat. No. Nominal Value	Ca (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0112-01	0.600	0.100	0.005	0.175	0.060
ASTM-P-0112-02	0.500	0.150	0.200	0.050	0.080
ASTM-P-0112-03	0.400	0.350	0.150	0.300	0.180
ASTM-P-0112-04	0.260	0.225	0.250	0.150	0.120
ASTM-P-0112-05	0.005	0.450	0.005	0.450	0.070
ASTM-P-0112-06	0.400	0.500	0.025	0.350	0.100
ASTM-P-0112-07	0.300	0.325	0.060	0.250	0.120
ASTM-P-0112-08	0.200	0.250	0.100	0.450	0.100
ASTM-P-0112-09	0.060	0.100	0.080	0.300	0.130
ASTM-P-0112-10	0.060	0.400	0.050	0.200	0.050
ASTM-P-0112-11	0.050	0.300	0.120	0.100	0.075
ASTM-P-0112-12	0.025	0.200	0.150	0.200	0.130
ASTM-P-0112-13	0.005	0.375	0.200	0.400	0.150
ASTM-P-0112-14	0.170	0.175	0.250	0.550	0.110
ASTM-P-0112-15	0.100	0.425	0.100	0.200	0.200
ASTM-P-0112-16	0.010	0.275	0.010	0.600	0.250
ASTM-P-0112-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0113-SET — **$ 2650 / 17 x 100 mL**

Designed for ASTM D4628 & D4927

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0113-01	0.025	0.600	0.100	0.005	0.175	0.060
ASTM-P-0113-02	0.000	0.500	0.150	0.200	0.050	0.080
ASTM-P-0113-03	0.100	0.400	0.350	0.150	0.300	0.180
ASTM-P-0113-04	0.175	0.260	0.225	0.250	0.150	0.120
ASTM-P-0113-05	0.150	0.005	0.450	0.005	0.450	0.070
ASTM-P-0113-06	0.000	0.400	0.500	0.025	0.350	0.100
ASTM-P-0113-07	0.100	0.300	0.325	0.060	0.250	0.120
ASTM-P-0113-08	0.200	0.200	0.250	0.100	0.450	0.100
ASTM-P-0113-09	0.050	0.060	0.100	0.080	0.300	0.130
ASTM-P-0113-10	0.075	0.060	0.400	0.050	0.200	0.050
ASTM-P-0113-11	0.010	0.050	0.300	0.120	0.100	0.075
ASTM-P-0113-12	0.000	0.025	0.200	0.150	0.200	0.130
ASTM-P-0113-13	0.175	0.005	0.375	0.200	0.400	0.150
ASTM-P-0113-14	0.005	0.170	0.175	0.250	0.550	0.110
ASTM-P-0113-15	0.000	0.100	0.425	0.100	0.200	0.200
ASTM-P-0113-16	0.005	0.010	0.275	0.010	0.600	0.250
ASTM-P-0113-17	0.000	0.000	0.000	0.000	0.000	0.000

Lubricating Oil Standards (Continued)

ASTM-P-0114-SET — **$ 2080 / 17 x 100 mL**

EDXRF ASTM Method — Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0114-01	0.005	0.005	0.050	0.050
ASTM-P-0114-02	0.600	0.000	0.000	0.000
ASTM-P-0114-03	0.000	0.300	0.000	0.000
ASTM-P-0114-04	1.000	0.000	1.000	0.000
ASTM-P-0114-05	0.000	0.000	0.000	0.300
ASTM-P-0114-06	0.005	0.250	0.800	0.300
ASTM-P-0114-07	0.500	0.150	0.500	0.150
ASTM-P-0114-08	0.010	0.200	0.100	0.250
ASTM-P-0114-09	0.050	0.010	0.400	0.075
ASTM-P-0114-10	0.100	0.150	0.200	0.200
ASTM-P-0114-11	0.200	0.200	0.800	0.100
ASTM-P-0114-12	0.400	0.005	0.800	0.300
ASTM-P-0114-13	0.600	0.100	0.500	0.050
ASTM-P-0114-14	0.800	0.010	0.050	0.100
ASTM-P-0114-15	1.000	0.300	1.000	0.150
ASTM-P-0114-16	0.400	0.050	0.600	0.250
ASTM-P-0114-17	0.000	0.000	0.000	0.000

ASTM-P-0115-SET — **$ 2485 / 17 x 100 mL**

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)	Mg (Wt.%)
ASTM-P-0115-01	0.005	0.005	0.050	0.050	0.100
ASTM-P-0115-02	0.600	0.000	0.000	0.000	0.150
ASTM-P-0115-03	0.000	0.300	0.000	0.000	0.350
ASTM-P-0115-04	1.000	0.000	1.000	0.000	0.225
ASTM-P-0115-05	0.000	0.000	0.000	0.300	0.450
ASTM-P-0115-06	0.005	0.250	0.800	0.300	0.500
ASTM-P-0115-07	0.500	0.150	0.500	0.150	0.325
ASTM-P-0115-08	0.010	0.200	0.100	0.250	0.250
ASTM-P-0115-09	0.050	0.010	0.400	0.075	0.050
ASTM-P-0115-10	0.100	0.150	0.200	0.200	0.400
ASTM-P-0115-11	0.200	0.200	0.800	0.100	0.300
ASTM-P-0115-12	0.400	0.005	0.800	0.300	0.200
ASTM-P-0115-13	0.600	0.100	0.500	0.050	0.375
ASTM-P-0115-14	0.800	0.010	0.050	0.100	0.175
ASTM-P-0115-15	1.000	0.300	1.000	0.150	0.425
ASTM-P-0115-16	0.400	0.050	0.600	0.250	0.275
ASTM-P-0115-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0116-SET — **$ 2600 / 11 x 100 mL**

Additives — Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0116-01	0.500	1.000	0.500	0.500
ASTM-P-0116-02	3.000	1.000	3.000	2.000
ASTM-P-0116-03	2.000	1.250	1.000	1.500
ASTM-P-0116-04	5.000	1.500	0.500	1.200
ASTM-P-0116-05	4.000	0.500	1.500	0.750
ASTM-P-0116-06	2.500	0.750	4.000	1.000
ASTM-P-0116-07	4.000	0.500	2.000	1.250
ASTM-P-0116-08	0.500	2.000	5.000	1.000
ASTM-P-0116-09	1.000	0.750	2.000	1.500
ASTM-P-0116-10	2.500	1.200	3.000	0.500
ASTM-P-0116-11	0.000	0.000	0.000	0.000

ASTM-P-0117-SET — **$ 2250 / 10 x 100 mL**

WLXRF ASTM Method — Designed for ASTM D6443

Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0117-01	0.020	0.030	0.010	0.200	0.250	1.000	0.020
ASTM-P-0117-02	0.020	0.020	0.050	0.200	0.020	0.020	0.250
ASTM-P-0117-03	0.020	0.200	0.010	0.040	0.250	0.150	0.250
ASTM-P-0117-04	0.020	0.200	0.050	0.040	0.020	1.000	0.020
ASTM-P-0117-05	0.400	0.020	0.010	0.040	0.020	1.000	0.250
ASTM-P-0117-06	0.400	0.020	0.050	0.040	0.250	0.020	0.020
ASTM-P-0117-07	0.400	0.200	0.010	0.200	0.020	0.020	0.050
ASTM-P-0117-08	0.400	0.200	0.050	0.200	0.250	1.000	0.250
ASTM-P-0117-09	0.200	0.100	0.025	0.080	0.150	0.500	0.100
ASTM-P-0117-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0118-SET — **$ 2540 / 10 x 100 mL**

WLXRF ASTM Method — Designed for ASTM D4628, D4927, D4951, D6443

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0118-01	0.020	0.020	0.030	0.010	0.200	0.250	1.000	0.020
ASTM-P-0118-02	0.250	0.020	0.020	0.050	0.200	0.020	0.020	0.250
ASTM-P-0118-03	0.020	0.020	0.200	0.010	0.040	0.250	0.150	0.250
ASTM-P-0118-04	0.250	0.020	0.200	0.050	0.040	0.020	1.000	0.020
ASTM-P-0118-05	0.020	0.400	0.020	0.010	0.040	0.020	1.000	0.250
ASTM-P-0118-06	0.250	0.400	0.020	0.050	0.040	0.250	0.020	0.020
ASTM-P-0118-07	0.020	0.400	0.200	0.010	0.200	0.020	0.020	0.050
ASTM-P-0118-08	0.250	0.400	0.200	0.050	0.200	0.250	1.000	0.250
ASTM-P-0118-09	0.130	0.200	0.100	0.025	0.080	0.150	0.500	0.100
ASTM-P-0118-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Lubricating Oil Standards (Continued)

ASTM-P-0119-SET — **$ 3100 / 22 x 100 mL**

				Designed for ASTM D4628, D4927, D4951, D6443			
Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0119-01	0.300	0.080	0.030	0.060	0.060	0.275	0.060
ASTM-P-0119-02	0.250	0.100	0.000	0.010	0.150	0.000	0.150
ASTM-P-0119-03	0.500	0.000	0.035	0.160	0.150	0.000	0.020
ASTM-P-0119-04	0.350	0.010	0.000	0.120	0.080	0.200	0.000
ASTM-P-0119-05	0.110	0.000	0.015	0.100	0.100	0.300	0.050
ASTM-P-0119-06	0.200	0.100	0.000	0.200	0.050	0.250	0.150
ASTM-P-0119-07	0.000	0.050	0.025	0.000	0.000	0.450	0.020
ASTM-P-0119-08	0.150	0.030	0.000	0.100	0.030	0.400	0.040
ASTM-P-0119-09	0.250	0.150	0.010	0.160	0.000	0.350	0.080
ASTM-P-0119-10	0.110	0.150	0.040	0.005	0.030	0.750	0.150
ASTM-P-0119-11	0.260	0.050	0.000	0.000	0.000	0.750	0.000
ASTM-P-0119-12	0.200	0.000	0.005	0.140	0.080	0.500	0.080
ASTM-P-0119-13	0.000	0.000	0.005	0.020	0.020	0.200	0.020
ASTM-P-0119-14	0.070	0.150	0.020	0.080	0.140	0.650	0.150
ASTM-P-0119-15	0.050	0.000	0.000	0.000	0.150	0.000	0.000
ASTM-P-0119-16	0.400	0.000	0.001	0.080	0.000	0.500	0.020
ASTM-P-0119-17	0.180	0.020	0.020	0.000	0.020	0.600	0.060
ASTM-P-0119-18	0.400	0.010	0.001	0.010	0.020	0.000	0.000
ASTM-P-0119-19	0.010	0.020	0.040	0.010	0.020	0.200	0.100
ASTM-P-0119-20	0.050	0.005	0.050	0.000	0.008	0.000	0.120
ASTM-P-0119-21	0.200	0.050	0.020	0.080	0.050	0.275	0.050
ASTM-P-0119-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0120-SET — **$ 3350 / 23 x 100 mL**

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0120-01	0.100	0.300	0.080	0.030	0.060	0.060	0.275	0.060
ASTM-P-0120-02	0.175	0.250	0.100	0.000	0.010	0.150	0.000	0.150
ASTM-P-0120-03	0.040	0.500	0.000	0.035	0.160	0.150	0.000	0.020
ASTM-P-0120-04	0.020	0.350	0.010	0.000	0.120	0.080	0.200	0.000
ASTM-P-0120-05	0.150	0.110	0.000	0.015	0.100	0.100	0.300	0.050
ASTM-P-0120-06	0.000	0.200	0.100	0.000	0.200	0.050	0.250	0.150
ASTM-P-0120-07	0.200	0.000	0.050	0.025	0.000	0.000	0.450	0.020
ASTM-P-0120-08	0.000	0.150	0.030	0.000	0.100	0.030	0.400	0.040
ASTM-P-0120-09	0.000	0.250	0.150	0.010	0.160	0.000	0.350	0.080
ASTM-P-0120-10	0.000	0.110	0.150	0.040	0.005	0.030	0.750	0.150
ASTM-P-0120-11	0.100	0.260	0.050	0.000	0.000	0.000	0.750	0.000
ASTM-P-0120-12	0.050	0.200	0.000	0.005	0.140	0.080	0.500	0.080
ASTM-P-0120-13	0.000	0.000	0.000	0.005	0.020	0.020	0.200	0.020
ASTM-P-0120-14	0.080	0.070	0.150	0.020	0.080	0.140	0.650	0.150
ASTM-P-0120-15	0.010	0.050	0.000	0.000	0.000	0.150	0.000	0.000
ASTM-P-0120-16	0.000	0.400	0.000	0.001	0.080	0.000	0.500	0.020
ASTM-P-0120-17	0.000	0.180	0.020	0.020	0.000	0.020	0.600	0.060
ASTM-P-0120-18	0.000	0.400	0.010	0.001	0.010	0.020	0.000	0.000
ASTM-P-0120-19	0.150	0.010	0.020	0.040	0.010	0.020	0.200	0.100
ASTM-P-0120-20	0.005	0.050	0.005	0.050	0.000	0.008	0.000	0.120
ASTM-P-0120-21	0.100	0.200	0.050	0.020	0.080	0.050	0.275	0.050
ASTM-P-0120-22	0.120	0.200	0.000	0.000	0.000	0.000	0.750	0.000
ASTM-P-0120-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Standards of Interest

Concentration for the sets on pages 342-344 are targets. Actual production lots may vary.

Metal Working Fluids

ASTM-P-0121-SET — **$ 1560 / 13 x 100 mL**

Cat. No. Nominal Value	Cl (Wt.%)	P (Wt.%)	S (Wt.%)
ASTM-P-0121-01	0.000	0.000	0.000
ASTM-P-0121-02	0.750	0.025	0.500
ASTM-P-0121-03	0.050	0.100	3.000
ASTM-P-0121-04	1.000	0.500	2.500
ASTM-P-0121-05	0.100	0.005	2.000
ASTM-P-0121-06	1.500	0.200	1.000
ASTM-P-0121-07	2.000	0.005	3.000
ASTM-P-0121-08	1.000	0.050	0.100
ASTM-P-0121-09	0.500	0.400	0.000
ASTM-P-0121-10	2.000	0.200	1.500
ASTM-P-0121-11	0.000	0.500	1.500
ASTM-P-0121-12	1.250	0.010	0.050
ASTM-P-0121-13	0.050	0.300	0.050

Stabilization Solutions

The solutions were specifically designed for chelating & solubilizing our line of Sulfur-Free Organometallic Standards. Contact Tech Service for additional information.

Stabilizer Solution A

ASTM-P-0122-0.5 — **$ 80 / 50 mL**
ASTM-P-0122-1 — **$ 120 / 100 mL**

Stabilizer Solution B

ASTM-P-0123-0.5 — **$ 80 / 50 mL**
ASTM-P-0123-1 — **$ 120 / 100 mL**

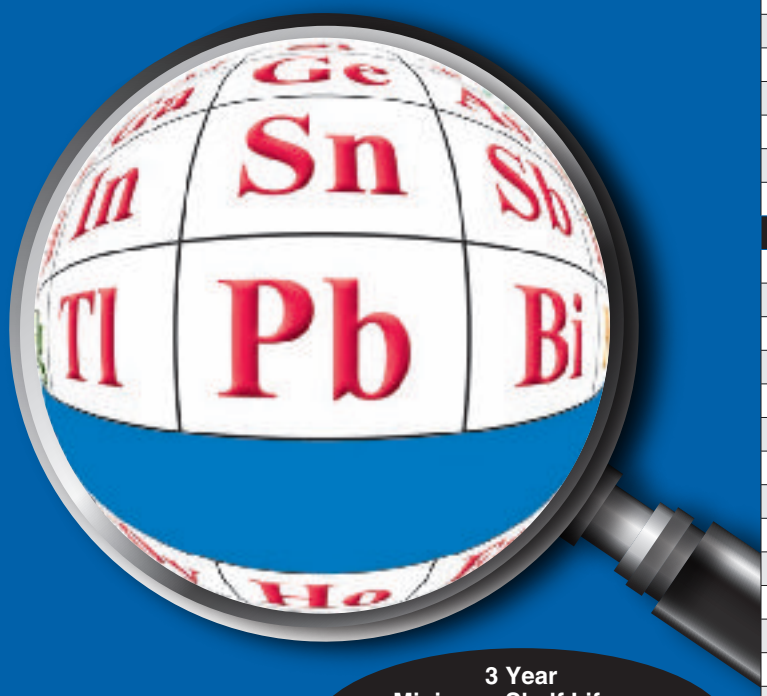
Stabilizer Solution C

ASTM-P-0124-0.5 — **$ 80 / 50 mL**
ASTM-P-0124-1 — **$ 120 / 100 mL**

Stabilizer Solution D

ASTM-P-0125-0.5 — **$ 80 / 50 mL**
ASTM-P-0125-1 — **$ 120 / 100 mL**

Inorganic Standards



3 Year Minimum Shelf Life on Single Element ICP, ICP/MS and AA Standards



AccuTrace™ Documentation includes:

- Traceability to NIST SRM by Wet Chemical / Gravimetric Assay
- Traceability to NIST SRM by Instrumental Analysis
- Reference to NIST Traceability during product preparation

Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

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Documentation

AccuTrace™

Density included for easy conversion to weight/weight applications.

Most Single element standards have a minumum 3 Year expiration period.

Accreditations

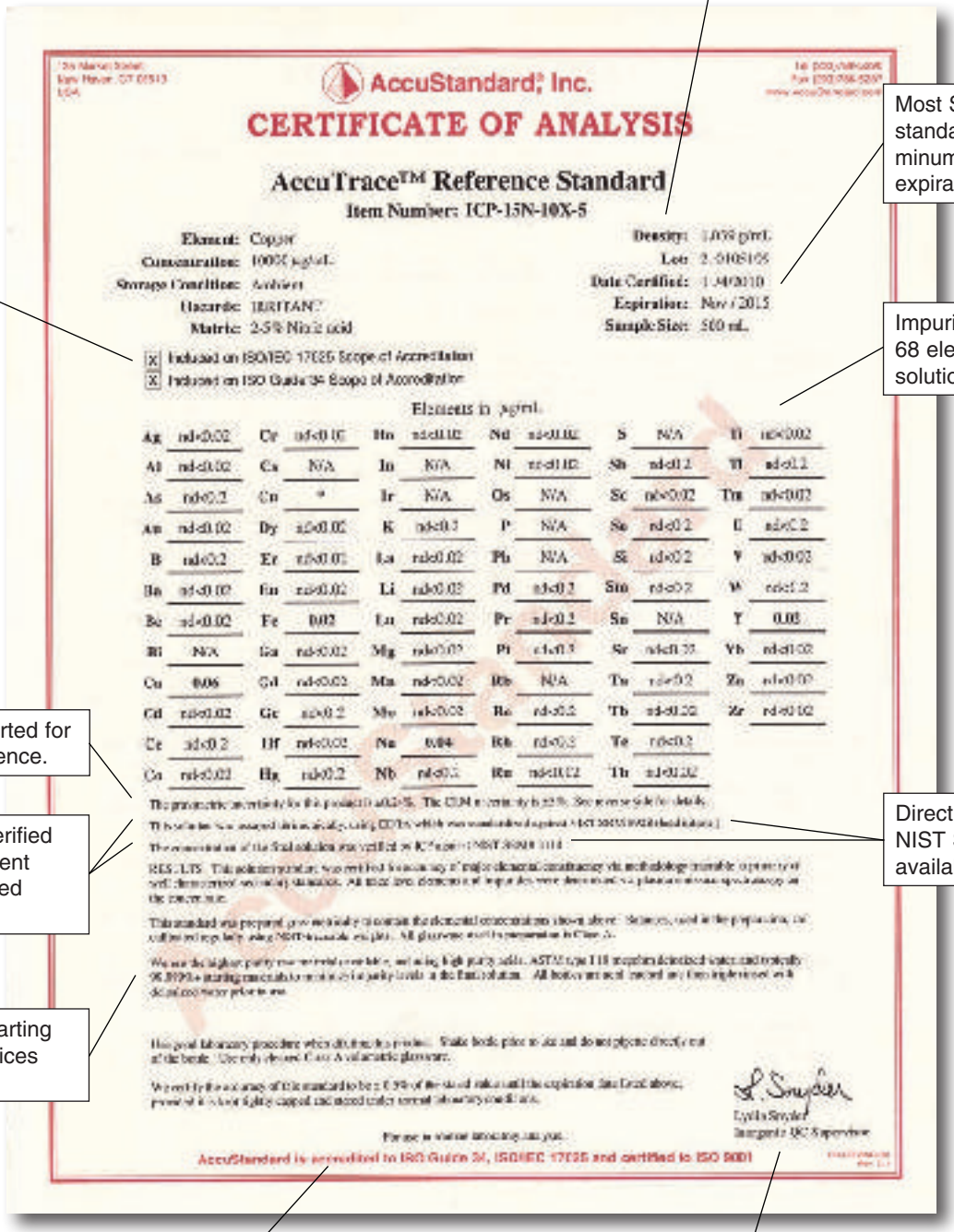
Impurity Scan for 68 elements in final solution.

Uncertainty reported for statistical confidence.

Concentration verified by two independent methods for added assurance.

Directly traceable to NIST SRM's - where available

Highest purity starting materials & matrices used.



AccuStandard, Inc.

CERTIFICATE OF ANALYSIS

AccuTrace™ Reference Standard

Item Number: ICP-15N-10X-5

Element: Copper
Concentration: 1000 µg/mL
Storage Condition: Ambient
Hazards: IRRITANT
Matrix: 2-5% Nitric acid

Density: 1.078 g/mL
Lot: 2-5108105
Date Certified: 1/4/2010
Expiration: Nov / 2015
Sample Size: 500 mL

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Elements in µg/mL

Ag	nd<0.02	Cr	nd<0.05	Hg	nd<0.02	Nd	nd<0.02	S	N/A	Ti	nd<0.02
Al	nd<0.02	Cs	N/A	In	N/A	Ni	nd<0.02	Sb	nd<0.2	Tl	nd<0.2
As	nd<0.2	Cu	*	Ir	N/A	Os	N/A	Sc	nd<0.02	Tm	nd<0.02
Au	nd<0.02	Dy	nd<0.02	K	nd<0.3	P	N/A	Se	nd<0.2	U	nd<0.2
B	nd<0.2	Er	nd<0.02	La	nd<0.02	Pb	N/A	Si	nd<0.2	V	nd<0.02
Ba	nd<0.02	Eu	nd<0.02	Li	nd<0.02	Pd	nd<0.2	Sm	nd<0.2	W	nd<0.2
Be	nd<0.02	Fe	0.02	Lu	nd<0.02	Pr	nd<0.2	Sn	N/A	Y	0.03
Bi	N/A	Ga	nd<0.02	Mg	nd<0.02	Pt	nd<0.5	Sr	nd<0.02	Yb	nd<0.02
Ca	0.06	Gd	nd<0.02	Mn	nd<0.02	Rb	N/A	Ta	nd<0.2	Zn	nd<0.02
Cd	nd<0.02	Ge	nd<0.2	Mo	nd<0.02	Re	nd<0.2	Tb	nd<0.02	Zr	nd<0.02
Ce	nd<0.2	Hf	nd<0.02	Na	0.04	Rh	nd<0.3	Te	nd<0.2		
Co	nd<0.02	Hg	nd<0.2	Nb	nd<0.3	Ru	nd<0.02	Th	nd<0.02		

The gravimetric uncertainty for this product is ±0.2%. The CDM uncertainty is ±2%. See reverse Side for details.

This solution was assayed using ICP-OES which was standardized against NIST SRM 3100 (Method Solution)

The concentration of the final solution was verified on ICP using NIST SRM 3114

RESULTS: This solution was verified by assay of multiple elemental constituents via methodology traceable to primary or well characterized reference standards. All trace level elements of impurities were determined via a calibrated instrumental technique on the concentrate.

This standard was prepared gravimetrically to contain the elemental concentrations shown above. Solvents, used in the preparation, or calibrated steps fully using NIST traceable weights. All glassware used in preparation is Class A.

We use the highest purity raw materials available, including high purity acids. ASTM type I/II reagent deionized water and typically 99.999+% starting materials to minimize the impurity levels in the final solution. All lots are analyzed for any impurities which could affect the intended use of this product.

This quality laboratory procedure which also meets or exceeds ... Visible bottle prior to use and do not pipette directly out of the bottle. Use only cleaned Class A volumetric glassware.

We certify the accuracy of this standard to be ± 0.5% of the stated value until the expiration date listed above, provided it is stored tightly capped and protected under normal laboratory conditions.

Please see reverse side for use ...

Lydia Snyder
Inorganic QC Supervisor

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Standards prepared under the guidelines of ISO Guide 34, ISO 17025 and ISO 9001 Quality System.

Signature approval indicating product integrity to specifications.

Quality Control

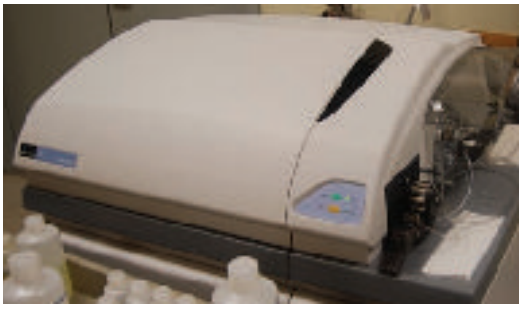
AccuStandard's Inorganic Department combines the best of state of the art instrumentation with classical stoichometric analysis, to bring you the most reliable Standards available.
Why choose AccuStandard for your Inorganic Analytical Needs?

- Standards are our only product.
- Thousands of Inorganic Standards - the widest selection available.
  - ❑ ICP
  - ❑ ICP/MS
  - ❑ AA
  - ❑ IC
  - ❑ Wet Chemical
  - ❑ Wear Metals
- No across the board price increase in 25 years
- 3-year minimum Shelf Life on single ICP, AA and ICP/MS Standards
- Custom Formulations
- Small Batch Sizes for Fresher Lots
- Technical Service from people with Real World Laboratory Experience
- 24/7 Online Access to MSDSs, COAs, Literature and Product Support
- Accredited to ISO Guide 34, ISO 17025 and certified to ISO 9001
- On-going stability program to ensure product integrity

State of the Art Instrumentation



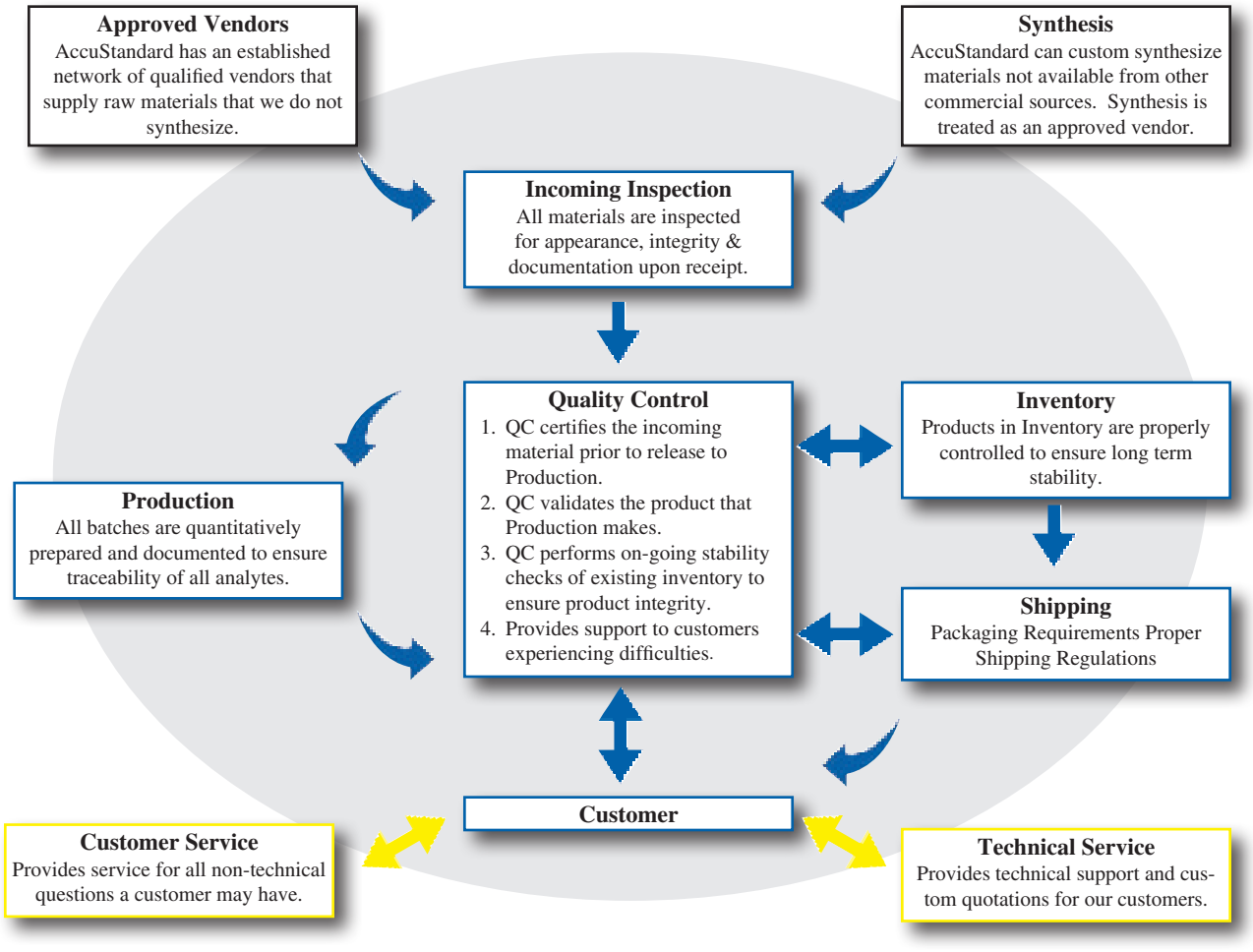
Perkin Elmer Optima 5300 Dual View ICP/OES



Perkin Elmer Elan 9000 ICP/MS

Quality System

ISO 9001 • ISO/IEC 17025 • ISO Guide 34



- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials and Acids
- 18 Megohm de-ionized Water
- Concentration verified by Wet Chemical and Instrumental Analysis
- Packaged in specially prepared Acid leached bottles
- Actual Lot Analysis provided on label and C of A

Single Element ICP

Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	Price	10,000 µg/mL Cat. No.	Price	NoHaz 20 mL Size 20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Aluminum	50 mL	---------	--	ICP-01N-10X-0.5	$ 34	ICP-01N-10X-20ML	$ 37
$Al(NO_3)_3 \cdot 9H_2O$	100 mL	ICP-01N-1	34	ICP-01N-10X-1	59		
2-5% Nitric acid	500 mL	ICP-01N-5	67	ICP-01N-10X-5	175		
Antimony	50 mL	---------	--	ICP-02N-10X-0.5	36	ICP-02N-10X-20ML	37
Sb Dilute HNO_3 tr	100 mL	ICP-02N-1	34	ICP-02N-10X-1	65		
Tartaric acid	500 mL	ICP-02N-5	67	ICP-02N-10X-5	165		
Arsenic	50 mL	---------	--	ICP-03N-10X-0.5	32	ICP-03N-10X-20ML	37
As	100 mL	ICP-03N-1	34	ICP-03N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-03N-5	67	ICP-03N-10X-5	138		
Barium	50 mL	---------	--	ICP-04N-10X-0.5	32	ICP-04N-10X-20ML	37
$Ba(NO_3)_2$	100 mL	ICP-04N-1	34	ICP-04N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-04N-5	67	ICP-04N-10X-5	138		
Beryllium	50 mL	---------	--	ICP-05N-10X-0.5	44	ICP-05N-10X-20ML	37
$BeO(C_2H_3O_2)_6$	100 mL	ICP-05N-1	34	ICP-05N-10X-1	85		
2-5% Nitric acid	500 mL	ICP-05N-5	67	ICP-05N-10X-5	425		
Bismuth	50 mL	---------	--	ICP-06N-10X-0.5	36	ICP-06N-10X-20ML	37
Bi	100 mL	ICP-06N-1	34	ICP-06N-10X-1	65		
2-10% Nitric acid	500 mL	ICP-06N-5	67	ICP-06N-10X-5	135		
Boron	50 mL	---------	--	ICP-07W-10X-0.5 ▼	32	ICP-07W-10X-20ML	37
H_3BO_3	100 mL	ICP-07W-1 ▼	34	ICP-07W-10X-1 ▼	54		
Water tr. NH_4OH	500 mL	ICP-07W-5 ▼	67	ICP-07W-10X-5 ▼	138		
Cadmium	50 mL	---------	--	ICP-08N-10X-0.5	32	ICP-08N-10X-20ML	37
Cd	100 mL	ICP-08N-1	34	ICP-08N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-08N-5	67	ICP-08N-10X-5	138		
Calcium	50 mL	---------	--	ICP-09N-10X-0.5	32	ICP-09N-10X-20ML	37
$CaCO_3$	100 mL	ICP-09N-1	34	ICP-09N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-09N-5	67	ICP-09N-10X-5	138		
Cerium	50 mL	---------	--	ICP-11N-10X-0.5	32	ICP-11N-10X-20ML	37
$Ce(NO_3)_3$	100 mL	ICP-11N-1	34	ICP-11N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-11N-5	67	ICP-11N-10X-5	168		
Cesium	50 mL	---------	--	ICP-12N-10X-0.5	45	ICP-12N-10X-20ML	55
$CsNO_3$	100 mL	ICP-12N-1	42	ICP-12N-10X-1	75		
2-5% Nitric acid	500 mL	ICP-12N-5	82	ICP-12N-10X-5	231		
Chromium reduced to (+3) state	50 mL	---------	--	ICP-13N-10X-0.5	34	ICP-13N-10X-20ML	37
$(NH_4)_2Cr_2O_7$	100 mL	ICP-13N-1	34	ICP-13N-10X-1	59		
2-5% Nitric acid	500 mL	ICP-13N-5	67	ICP-13N-10X-5	144		
Cobalt	50 mL	---------	--	ICP-14N-10X-0.5	32	ICP-14N-10X-20ML	37
Co	100 mL	ICP-14N-1	34	ICP-14N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-14N-5	67	ICP-14N-10X-5	168		
Copper	50 mL	---------	--	ICP-15N-10X-0.5	32	ICP-15N-10X-20ML	37
Cu	100 mL	ICP-15N-1	34	ICP-15N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-15N-5	67	ICP-15N-10X-5	138		
Dysprosium	50 mL	---------	--	ICP-16N-10X-0.5	45	ICP-16N-10X-20ML	55
Dy_2O_3	100 mL	ICP-16N-1	42	ICP-16N-10X-1	75		
2-5% Nitric acid	500 mL	ICP-16N-5	82	ICP-16N-10X-5	231		
Erbium	50 mL	---------	--	ICP-17N-10X-0.5	52	ICP-17N-10X-20ML	55
Er_2O_3	100 mL	ICP-17N-1	42	ICP-17N-10X-1	85		
2-5% Nitric acid	500 mL	ICP-17N-5	82	ICP-17N-10X-5	259		
Europium	50 mL	---------	--	ICP-18N-10X-0.5	52	ICP-18N-10X-20ML	55
Eu_2O_3	100 mL	ICP-18N-1	42	ICP-18N-10X-1	85		
2-5% Nitric acid	500 mL	ICP-18N-5	82	ICP-18N-10X-5	225		
Gadolinium	50 mL	---------	--	ICP-19N-10X-0.5	69	ICP-19N-10X-20ML	55
Gd_2O_3	100 mL	ICP-19N-1	42	ICP-19N-10X-1	115		
2-5% Nitric acid	500 mL	ICP-19N-5	82	ICP-19N-10X-5	315		
Gallium	50 mL	---------	--	ICP-20N-10X-0.5	45	ICP-20N-10X-20ML	55
Ga	100 mL	ICP-20N-1	42	ICP-20N-10X-1	75		
2-5% Nitric acid	500 mL	ICP-20N-5	82	ICP-20N-10X-5	165		

▼ Hazardous fee not required.

3 Year Minimum Shelf Life on Single Element ICP Standards



Save with NoHaz Option on ICP Single Elements

- No Hazardous Shipping Fees
- Lower Shipping Costs (less weight)
- Yields More - 200 mL from 20 mL concentrate

Includes empty pre-washed, pre-labeled HDPE 250 mL bottle

Single Element ICP

Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	Price	10,000 µg/mL Cat. No.	Price	NoHaz 20 mL Size 20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Germanium	50 mL	---------	--	ICP-21W-10X-0.5 ▼	52	ICP-21W-10X-20ML	55
$(NH_4)_2GeF_6$	100 mL	ICP-21W-1 ▼	42	ICP-21W-10X-1 ▼	85		
Water tr. HF	500 mL	ICP-21W-5 ▼	82	ICP-21W-10X-5 ▼	231		
Gold	50 mL	---------	--	ICP-22H-10X-0.5	175	ICP-22H-10X-20ML	95
Au	100 mL	ICP-22H-1	78	ICP-22H-10X-1	295		
10% HCl (min.)	500 mL	ICP-22H-5	152	----------	--		
Hafnium	50 mL	---------	--	ICP-23N-10X-0.5	80	ICP-23N-10X-20ML	75
HfO_2	100 mL	ICP-23N-1	60	ICP-23N-10X-1	135		
2-5% Nitric acid tr. HF	500 mL	ICP-23N-5	118	ICP-23N-10X-5	445		
Holmium	50 mL	---------	--	ICP-24N-10X-0.5	52	ICP-24N-10X-20ML	55
Ho_2O_3	100 mL	ICP-24N-1	42	ICP-24N-10X-1	85		
2-5% Nitric acid	500 mL	ICP-24N-5	82	ICP-24N-10X-5	259		
Indium	50 mL	---------	--	ICP-25N-10X-0.5	52	ICP-25N-10X-20ML	55
In	100 mL	ICP-25N-1	42	ICP-25N-10X-1	85		
2-5% Nitric acid	500 mL	ICP-25N-5	82	ICP-25N-10X-5	185		
Iridium	50 mL	---------	--	ICP-26H-10X-0.5	175	ICP-26H-10X-20ML	95
$IrCl_3 \cdot 3H_20$	100 mL	ICP-26H-1	78	ICP-26H-10X-1	295		
10% HCl (min.)	500 mL	ICP-26H-5	152	----------	--		
Iron	50 mL	---------	--	ICP-27N-10X-0.5	32	ICP-27N-10X-20ML	37
Fe	100 mL	ICP-27N-1	34	ICP-27N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-27N-5	67	ICP-27N-10X-5	168		
Lanthanum	50 mL	---------	--	ICP-28N-10X-0.5	32	ICP-28N-10X-20ML	37
La_2O_3	100 mL	ICP-28N-1	34	ICP-28N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-28N-5	67	ICP-28N-10X-5	168		
Lead	50 mL	---------	--	ICP-29N-10X-0.5	32	ICP-29N-10X-20ML	37
$Pb(NO_3)_2$	100 mL	ICP-29N-1	34	ICP-29N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-29N-5	67	ICP-29N-10X-5	138		
Lithium	50 mL	---------	--	ICP-30N-10X-0.5	32	ICP-30N-10X-20ML	37
Li_2CO_3	100 mL	ICP-30N-1	34	ICP-30N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-30N-5	67	ICP-30N-10X-5	138		
Lutetium	50 mL	---------	--	ICP-31N-10X-0.5	175	ICP-31N-10X-20ML	132
Lu_2O_3	100 mL	ICP-31N-1	121	ICP-31N-10X-1	295		
2-5% Nitric acid	500 mL	ICP-31N-5	236	ICP-31N-10X-5	842		
Magnesium	50 mL	---------	--	ICP-32N-10X-0.5	32	ICP-32N-10X-20ML	37
MgO	100 mL	ICP-32N-1	34	ICP-32N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-32N-5	67	ICP-32N-10X-5	138		
Manganese	50 mL	---------	--	ICP-33N-10X-0.5	32	ICP-33N-10X-20ML	37
$Mn(C_2H_3O_2)_2$	100 mL	ICP-33N-1	34	ICP-33N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-33N-5	67	ICP-33N-10X-5	168		
Mercury	50 mL	---------	--	ICP-34N-10X-0.5	32	ICP-34N-10X-20ML	37
Hg	100 mL	ICP-34N-1	34	ICP-34N-10X-1	54		
10% Nitric acid	500 mL	ICP-34N-5	67	ICP-34N-10X-5	138		
Molybdenum	50 mL	---------	--	ICP-35W-10X-0.5 ▼	32	ICP-35W-10X-20ML	37
$(NH_4)_2MoO_4$	100 mL	ICP-35W-1 ▼	34	ICP-35W-10X-1 ▼	54		
Water tr. NH_4OH	500 mL	ICP-35W-5 ▼	67	ICP-35W-10X-5 ▼	138		
Neodymium	50 mL	---------	--	ICP-36N-10X-0.5	45	ICP-36N-10X-20ML	37
Nd_2O_3	100 mL	ICP-36N-1	34	ICP-36N-10X-1	75		
2-5% Nitric acid	500 mL	ICP-36N-5	67	ICP-36N-10X-5	203		
Nickel	50 mL	---------	--	ICP-37N-10X-0.5	32	ICP-37N-10X-20ML	37
Ni	100 mL	ICP-37N-1	34	ICP-37N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-37N-5	67	ICP-37N-10X-5	138		

▼ Hazardous fee not required.

- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials and Acids
- 18 Megohm de-ionized Water
- Concentration verified by Wet Chemical and Instrumental Analysis
- Packaged in specially prepared Acid leached bottles
- Actual Lot Analysis provided on label and COA

Single Element ICP

Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	Price	10,000 µg/mL Cat. No.	Price	NoHaz 20 mL Size 20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Niobium	50 mL	---------	--	ICP-38W-10X-0.5 ▼	38	ICP-38W-10X-20ML	37
Nb_2O_5	100 mL	ICP-38W-1 ▼	34	ICP-38W-10X-1 ▼	64		
Water tr. HF	500 mL	ICP-38W-5 ▼	67	ICP-38W-10X-5 ▼	175		
Palladium	50 mL	---------	--	ICP-40H-10X-0.5	175	ICP-40H-10X-20ML	95
Pd	100 mL	ICP-40H-1	78	ICP-40H-10X-1	295		
10% HCl (min.)	500 mL	ICP-40H-5	152	----------	--		
Phosphorus	50 mL	---------	--	ICP-41W-10X-0.5 ▼	32	ICP-41W-10X-20ML	37
$NH_4H_2PO_4$	100 mL	ICP-41W-1 ▼	34	ICP-41W-10X-1 ▼	54		
Water	500 mL	ICP-41W-5 ▼	67	ICP-41W-10X-5 ▼	138		
Platinum	50 mL	---------	--	ICP-42H-10X-0.5	175	ICP-42H-10X-20ML	95
Pt	100 mL	ICP-42H-1	78	ICP-42H-10X-1	295		
10% HCl (min.)	500 mL	ICP-42H-5	152	----------	--		
Potassium	50 mL	---------	--	ICP-43N-10X-0.5	32	ICP-43N-10X-20ML	37
KNO_3	100 mL	ICP-43N-1	34	ICP-43N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-43N-5	67	ICP-43N-10X-5	138		
Praseodymium	50 mL	---------	--	ICP-44N-10X-0.5	72	ICP-44N-10X-20ML	55
Pr_6O_{11}	100 mL	ICP-44N-1	42	ICP-44N-10X-1	120		
2-5% Nitric acid	500 mL	ICP-44N-5	82	ICP-44N-10X-5	329		
Rhenium	50 mL	---------	--	ICP-45W-10X-0.5 ▼	132	ICP-45W-10X-20ML	67
Re	100 mL	ICP-45W-1 ▼	55	ICP-45W-10X-1 ▼	222		
Water tr. Nitric acid	500 mL	ICP-45W-5 ▼	108	ICP-45W-10X-5 ▼	495		
Rhodium	50 mL	---------	--	ICP-46H-10X-0.5	444	ICP-46H-10X-20ML	290
$RhCl_3 \bullet 3H_2O$	100 mL	ICP-46H-1	220	ICP-46H-10X-1	750		
10% HCl (min.)	500 mL	ICP-46H-5	490	----------	--		
Rubidium	50 mL	---------	--	ICP-47N-10X-0.5	52	ICP-47N-10X-20ML	37
$RbNO_3$	100 mL	ICP-47N-1	36	ICP-47N-10X-1	85		
2-5% Nitric acid	500 mL	ICP-47N-5	70	ICP-47N-10X-5	265		
Ruthenium	50 mL	---------	--	ICP-48H-10X-0.5	175	ICP-48H-10X-20ML	95
$RuCl_3 \bullet 3H_2O$	100 mL	ICP-48H-1	78	ICP-48H-10X-1	295		
10% HCl	500 mL	ICP-48H-5	152	----------	--		
Samarium	50 mL	---------	--	ICP-49N-10X-0.5	45	ICP-49N-10X-20ML	55
Sm_2O_3	100 mL	ICP-49N-1	42	ICP-49N-10X-1	75		
2-5% Nitric acid	500 mL	ICP-49N-5	82	ICP-49N-10X-5	231		
Scandium	50 mL	---------	--	ICP-50N-10X-0.5	175	ICP-50N-10X-20ML	95
Sc_2O_3	100 mL	ICP-50N-1	78	ICP-50N-10X-1	295		
2-5% Nitric acid	500 mL	ICP-50N-5	152	ICP-50N-10X-5	795		
Selenium	50 mL	---------	--	ICP-51N-10X-0.5	32	ICP-51N-10X-20ML	37
Se	100 mL	ICP-51N-1	34	ICP-51N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-51N-5	67	ICP-51N-10X-5	138		
Silicon	50 mL	---------	--	ICP-52W-10X-0.5 ▼	32	ICP-52W-10X-20ML	37
$(NH_4)2SiF_6$	100 mL	ICP-52W-1 ▼	34	ICP-52W-10X-1 ▼	54		
Water tr. HF	500 mL	ICP-52W-5 ▼	67	ICP-52W-10X-5 ▼	168		
Silver	50 mL	---------	--	ICP-53N-10X-0.5	42	ICP-53N-10X-20ML	37
$AgNO_3$	100 mL	ICP-53N-1	34	ICP-53N-10X-1	70		
2-5% Nitric acid	500 mL	ICP-53N-5	67	ICP-53N-10X-5	145		
Sodium	50 mL	---------	--	ICP-54N-10X-0.5	34	ICP-54N-10X-20ML	37
$NaNO_3$	100 mL	ICP-54N-1	34	ICP-54N-10X-1	59		
2-5% Nitric acid	500 mL	ICP-54N-5	67	ICP-54N-10X-5	175		
Strontium	50 mL	---------	--	ICP-55N-10X-0.5	42	ICP-55N-10X-20ML	37
$Sr(NO_3)_2$	100 mL	ICP-55N-1	34	ICP-55N-10X-1	70		
2-5% Nitric acid	500 mL	ICP-55N-5	67	ICP-55N-10X-5	203		
Sulfur	50 mL	---------	--	ICP-56W-10X-0.5 ▼	32	ICP-56W-10X-20ML	37
$(NH_4)_2SO_4$	100 mL	ICP-56W-1 ▼	34	ICP-56W-10X-1 ▼	54		
Water	500 mL	ICP-56W-5 ▼	67	ICP-56W-10X-5 ▼	138		
Tantalum	50 mL	---------	--	ICP-57W-10X-0.5 ▼	52	ICP-57W-10X-20ML	55
Ta	100 mL	ICP-57W-1 ▼	42	ICP-57W-10X-1 ▼	85		
Water tr. HF	500 mL	ICP-57W-5 ▼	82	ICP-57W-10X-5 ▼	224		

▼ Hazardous fee not required.

ICP
Single Element

3 Year Minimum Shelf Life on Single Element ICP Standards



Save with NoHaz Option on ICP Single Elements

- No Hazardous Shipping Fees
- Lower Shipping Costs (less weight)
- Yields More - 200 mL from 20 mL concentrate

Includes empty pre-washed, pre-labeled HDPE 250 mL bottle

Single Element ICP

Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	Price	10,000 µg/mL Cat. No.	Price	NoHaz 20 mL Size 20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Tellurium	50 mL	---------	--	ICP-58H-10X-0.5	46	ICP-58H-10X-20ML	37
Te	100 mL	ICP-58H-1	34	ICP-58H-10X-1	78		
20% HCl (min.)	500 mL	ICP-58H-5	67	ICP-58H-10X-5	210		
Terbium	50 mL	---------	--	ICP-59N-10X-0.5	69	ICP-59N-10X-20ML	55
Tb_4O_7	100 mL	ICP-59N-1	42	ICP-59N-10X-1	115		
2-5% Nitric acid	500 mL	ICP-59N-5	82	ICP-59N-10X-5	315		
Thallium	50 mL	---------	--	ICP-60N-10X-0.5	32	ICP-60N-10X-20ML	37
Tl	100 mL	ICP-60N-1	34	ICP-60N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-60N-5	67	ICP-60N-10X-5	144		
Thorium		---------	--	----------	--	----------	--
$Th(NO_3)4 \bullet 4H_2O$	100 mL	ICP-61N-1	34				
2-5% Nitric acid	500 mL	ICP-61N-5	67				
Thulium	50 mL	---------	--	ICP-62N-10X-0.5	78	ICP-62N-10X-20ML	75
Tm_2O_3	100 mL	ICP-62N-1	58	ICP-62N-10X-1	130		
2-5% Nitric acid	500 mL	ICP-62N-5	120	ICP-62N-10X-5	384		
Tin	50 mL	---------	--	ICP-63N-10X-0.5	42	ICP-63N-10X-20ML	37
Sn	100 mL	ICP-63N-1	34	ICP-63N-10X-1	70		
2-5% Nitric acid tr. HF	500 mL	ICP-63N-5	67	ICP-63N-10X-5	179		
Titanium	50 mL	---------	--	ICP-64W-10X-0.5 ▼	32	----------	--
$(NH_4)_2TiF_6$	100 mL	ICP-64W-1 ▼	34	ICP-64W-10X-1 ▼	54		
Water tr. HF	500 mL	ICP-64W-5 ▼	67	ICP-64W-10X-5 ▼	138		
Tungsten	50 mL	---------	--	ICP-65W-10X-0.5 ▼	32	ICP-65W-10X-20ML	37
$(NH_4)_2WO_4$	100 mL	ICP-65W-1 ▼	34	ICP-65W-10X-1 ▼	54		
Water tr. NH_4OH	500 mL	ICP-65W-5 ▼	67	ICP-65W-10X-5 ▼	168		
Uranium	-----	---------	--	----------	--	----------	--
U_3O_8	100 mL	ICP-66N-1	42				
2-5% Nitric acid	500 mL	ICP-66N-5	82				
Vanadium	50 mL	---------	--	ICP-67N-10X-0.5	36	ICP-67N-10X-20ML	37
NH_4VO_3	100 mL	ICP-67N-1	34	ICP-67N-10X-1	65		
2-5% Nitric acid	500 mL	ICP-67N-5	67	ICP-67N-10X-5	135		
Ytterbium	50 mL	---------	--	ICP-68N-10X-0.5	60	ICP-68N-10X-20ML	55
Yb_2O_3	100 mL	ICP-68N-1	42	ICP-68N-10X-1	100		
2-5% Nitric acid	500 mL	ICP-68N-5	82	ICP-68N-10X-5	273		
Yttrium	50 mL	---------	--	ICP-69N-10X-0.5	32	ICP-69N-10X-20ML	37
Y_2O_3	100 mL	ICP-69N-1	34	ICP-69N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-69N-5	67	ICP-69N-10X-5	138		
Zinc	50 mL	---------	--	ICP-70N-10X-0.5	32	ICP-70N-10X-20ML	37
Zn	100 mL	ICP-70N-1	34	ICP-70N-10X-1	54		
2-5% Nitric acid	500 mL	ICP-70N-5	67	ICP-70N-10X-5	138		
Zirconium	50 mL	---------	--	ICP-71N-10X-0.5	42	ICP-71N-10X-20ML	37
$ZrO(NO_3)_2$	100 mL	ICP-71N-1	34	ICP-71N-10X-1	70		
2-5% Nitric acid	500 mL	ICP-71N-5	67	ICP-71N-10X-5	203		

Calibration and Matrix Blanks

Nitric Acid Blank

CLP-BLN-5 $ 30 / 500 mL
CLP-BLN-L-VAP $ 45 / 1L (2 x 500 mL)

5% HNO_3 in 18 Megohm ASTM Type I deionized Water

Hydrochloric Acid Blank

CLP-BLH-5 $ 30 / 500 mL
CLP-BLH-L-VAP $ 45 / 1L (2 x 500 mL)

5% HCl in 18 Megohm ASTM Type I deionized Water

Mixed Acid Blank

CLP-BLMA-5 $ 30 / 500 mL
CLP-BLMA-L-VAP $ 45 / 1L (2 x 500 mL)

5% HCl + 1% HNO_3 in 18 Megohm ASTM Type I deionized Water

Water Blank

CLP-BLW-5 ▼ $ 30 / 500 mL
CLP-BLW-L-VAP ▼ $ 40 / 1L (2 x 500 mL)

18 Megohm ASTM Type I deionized Water

▼ Hazardous fee not required.

AccuStandard's ICP/MS Standards are formulated to meet the needs of this very special instrument. As matrix effect is of utmost concern, each standard is formulated in specially purified 18 megohm de-ionized water and ultra pure acids. After both wet chemical and instrumental analysis, the standards are packaged in acid leached FLPE containers to provide required protection.

3 Year Minimum Shelf Life on Single Element ICP/MS Standards

Single Element ICP/MS

Element	Matrix	Unit	100 µg/mL Cat. No.	100 µg/mL Price	1,000 µg/mL Cat. No.	1,000 µg/mL Price	10,000 µg/mL Cat. No.	10,000 µg/mL Price
Al (Aluminum)	2-5% HNO_3	100 mL	ICP-MS-01N-0.01X-1	$ 34	ICP-MS-01N-0.1X-1	$ 45	ICP-MS-01N-1	$ 76
Sb (Antimony)	2-5% HNO_3	100 mL	ICP-MS-02N-0.01X-1	34	ICP-MS-02N-0.1X-1	45	ICP-MS-02N-1	76
As (Arsenic)	2-5% HNO_3	100 mL	ICP-MS-03N-0.01X-1	34	ICP-MS-03N-0.1X-1	45	ICP-MS-03N-1	76
Ba (Barium)	2-5% HNO_3	100 mL	ICP-MS-04N-0.01X-1	34	ICP-MS-04N-0.1X-1	45	ICP-MS-04N-1	76
Be (Beryllium)	2-5% HNO_3	100 mL	ICP-MS-05N-0.01X-1	34	ICP-MS-05N-0.1X-1	45	ICP-MS-05N-1	76
Bi (Bismuth)	2-10% HNO_3	100 mL	ICP-MS-06N-0.01X-1	34	ICP-MS-06N-0.1X-1	45	ICP-MS-06N-1	76
B (Boron) ▼	H_2O tr. NH_4OH	100 mL	ICP-MS-07W-0.01X-1	34	ICP-MS-07W-0.1X-1	45	ICP-MS-07W-1	76
Cd (Cadmium)	2-5% HNO_3	100 mL	ICP-MS-08N-0.01X-1	34	ICP-MS-08N-0.1X-1	45	ICP-MS-08N-1	76
Ca (Calcium)	2-5% HNO_3	100 mL	ICP-MS-09N-0.01X-1	34	ICP-MS-09N-0.1X-1	45	ICP-MS-09N-1	76
Ce (Cerium)	2-5% HNO_3	100 mL	ICP-MS-11N-0.01X-1	34	ICP-MS-11N-0.1X-1	45	ICP-MS-11N-1	76
Cs (Cesium)	2-5% HNO_3	100 mL	ICP-MS-12N-0.01X-1	42	ICP-MS-12N-0.1X-1	53	ICP-MS-12N-1	84
Cr (Chromium)	2-5% HNO_3	100 mL	ICP-MS-13N-0.01X-1	34	ICP-MS-13N-0.1X-1	45	ICP-MS-13N-1	76
Co (Cobalt)	2-5% HNO_3	100 mL	ICP-MS-14N-0.01X-1	34	ICP-MS-14N-0.1X-1	45	ICP-MS-14N-1	76
Cu (Copper)	2-5% HNO_3	100 mL	ICP-MS-15N-0.01X-1	34	ICP-MS-15N-0.1X-1	45	ICP-MS-15N-1	76
Dy (Dysprosium)	2-5% HNO_3	100 mL	ICP-MS-16N-0.01X-1	42	ICP-MS-16N-0.1X-1	53	ICP-MS-16N-1	84
Er (Erbium)	2-5% HNO_3	100 mL	ICP-MS-17N-0.01X-1	42	ICP-MS-17N-0.1X-1	53	ICP-MS-17N-1	84
Eu (Europium)	2-5% HNO_3	100 mL	ICP-MS-18N-0.01X-1	42	ICP-MS-18N-0.1X-1	53	ICP-MS-18N-1	84
Gd (Gadolinium)	2-5% HNO_3	100 mL	ICP-MS-19N-0.01X-1	42	ICP-MS-19N-0.1X-1	53	ICP-MS-19N-1	84
Ga (Gallium)	2-5% HNO_3	100 mL	ICP-MS-20N-0.01X-1	42	ICP-MS-20N-0.1X-1	53	ICP-MS-20N-1	84
Ge (Germanium) ▼	H_2O tr. HF	100 mL	ICP-MS-21W-0.01X-1	42	ICP-MS-21W-0.1X-1	53	ICP-MS-21W-1	84
Au (Gold)	10% HCl	100 mL	ICP-MS-22H-0.01X-1	78	ICP-MS-22H-0.1X-1	89	ICP-MS-22H-1	330
Hf (Hafnium)	2-5% HNO_3 tr. HF	100 mL	ICP-MS-23N-0.01X-1	60	ICP-MS-23N-0.1X-1	72	ICP-MS-23N-1	111
Ho (Holmium)	2-5% HNO_3	100 mL	ICP-MS-24N-0.01X-1	42	ICP-MS-24N-0.1X-1	53	ICP-MS-24N-1	84
In (Indium)	2-5% HNO_3	100 mL	ICP-MS-25N-0.01X-1	42	ICP-MS-25N-0.1X-1	53	ICP-MS-25N-1	84
Ir (Iridium)	10% HCl	100 mL	ICP-MS-26H-0.01X-1	78	ICP-MS-26H-0.1X-1	89	ICP-MS-26H-1	120
Fe (Iron)	2-5% HNO_3	100 mL	ICP-MS-27N-0.01X-1	34	ICP-MS-27N-0.1X-1	45	ICP-MS-27N-1	76
La (Lanthanum)	2-5% HNO_3	100 mL	ICP-MS-28N-0.01X-1	34	ICP-MS-28N-0.1X-1	45	ICP-MS-28N-1	76
Pb (Lead)	2-5% HNO_3	100 mL	ICP-MS-29N-0.01X-1	34	ICP-MS-29N-0.1X-1	45	ICP-MS-29N-1	76
Li (Lithium)	2-5% HNO_3	100 mL	ICP-MS-30N-0.01X-1	34	ICP-MS-30N-0.1X-1	45	ICP-MS-30N-1	76
Lu (Lutetium)	2-5% HNO_3	100 mL	ICP-MS-31N-0.01X-1	121	ICP-MS-31N-0.1X-1	138	ICP-MS-31N-1	354
Mg (Magnesium)	2-5% HNO_3	100 mL	ICP-MS-32N-0.01X-1	34	ICP-MS-32N-0.1X-1	45	ICP-MS-32N-1	76
Mn (Manganese)	2-5% HNO_3	100 mL	ICP-MS-33N-0.01X-1	34	ICP-MS-33N-0.1X-1	45	ICP-MS-33N-1	76
Hg (Mercury)	10% HNO_3	100 mL	ICP-MS-34N-0.01X-1	34	ICP-MS-34N-0.1X-1	45	ICP-MS-34N-1	76
Mo (Molybdenum) ▼	H_2O tr. NH_4OH	100 mL	ICP-MS-35W-0.01X-1	34	ICP-MS-35W-0.1X-1	45	ICP-MS-35W-1	76
Nd (Neodymium) ▼	2-5% HNO_3	100 mL	ICP-MS-36N-0.01X-1	34	ICP-MS-36N-0.1X-1	45	ICP-MS-36N-1	76



▼ Hazardous fee not required.

ICP/MS
Single Element



- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials and Acids
- 18 Megohm de-ionized Water
- Concentration verified by Wet Chemical and Instrumental Analysis
- Packaged in specially prepared Acid leached FLPE bottles
- Actual Lot Analysis provided on label and COA

Single Element ICP/MS

			100 µg/mL		1,000 µg/mL		10,000 µg/mL	
Element	**Matrix**	**Unit**	**Cat. No.**	**Price**	**Cat. No.**	**Price**	**Cat. No.**	**Price**
Ni (Nickel)	2-5% HNO_3	100 mL	ICP-MS-37N-0.01X-1	34	ICP-MS-37N-0.1X-1	45	ICP-MS-37N-1	$ 76
Nb (Niobium)	H_2O tr. HF	100 mL	ICP-MS-38W-0.01X-1	34	ICP-MS-38W-0.1X-1	45	ICP-MS-38W-1	76
Pd (Palladium)	10% HCl	100 mL	ICP-MS-40H-0.01X-1	78	ICP-MS-40H-0.1X-1	89	ICP-MS-40H-1	120
P (Phosphorous) ▼	H_2O	100 mL	ICP-MS-41W-0.01X-1	34	ICP-MS-41W-0.1X-1	45	ICP-MS-41W-1	76
Pt (Platinum)	10% HCl	100 mL	ICP-MS-42H-0.01X-1	78	ICP-MS-42H-0.1X-1	89	ICP-MS-42H-1	120
K (Potassium)	2-5% HNO_3	100 mL	ICP-MS-43N-0.01X-1	34	ICP-MS-43N-0.1X-1	45	ICP-MS-43N-1	76
Pr (Praseodymium)	2-5% HNO_3	100 mL	ICP-MS-44N-0.01X-1	42	ICP-MS-44N-0.1X-1	53	ICP-MS-44N-1	84
Re (Rhenium) ▼	H_2O tr. HNO_3	100 mL	ICP-MS-45W-0.01X-1	55	ICP-MS-45W-0.1X-1	63	ICP-MS-45W-1	248
Rh (Rhodium)	10% HCl	100 mL	ICP-MS-46H-0.01X-1	220	ICP-MS-46H-0.1X-1	251	ICP-MS-46H-1	838
Rb (Rubidium)	2-5% HNO_3	100 mL	ICP-MS-47N-0.01X-1	36	ICP-MS-47N-0.1X-1	48	ICP-MS-47N-1	96
Ru (Ruthenium)	10% HCl	100 mL	ICP-MS-48H-0.01X-1	78	ICP-MS-48H-0.1X-1	89	ICP-MS-48H-1	120
Sm (Samarium)	2-5% HNO_3	100 mL	ICP-MS-49N-0.01X-1	42	ICP-MS-49N-0.1X-1	53	ICP-MS-49N-1	84
Sc (Scandium)	2-5% HNO_3	100 mL	ICP-MS-50N-0.01X-1	78	ICP-MS-50N-0.1X-1	89	ICP-MS-50N-1	330
Se (Selenium)	2-5% HNO_3	100 mL	ICP-MS-51N-0.01X-1	34	ICP-MS-51N-0.1X-1	45	ICP-MS-51N-1	76
Si (Silicon) ▼	H_2O tr. HF	100 mL	ICP-MS-52W-0.01X-1	34	ICP-MS-52W-0.1X-1	45	ICP-MS-52W-1	76
Ag (Silver)	2-5% HNO_3	100 mL	ICP-MS-53N-0.01X-1	34	ICP-MS-53N-0.1X-1	45	ICP-MS-53N-1	76
Na (Sodium)	2-5% HNO_3	100 mL	ICP-MS-54N-0.01X-1	34	ICP-MS-54N-0.1X-1	45	ICP-MS-54N-1	76
Sr (Strontium)	2-5% HNO_3	100 mL	ICP-MS-55N-0.01X-1	34	ICP-MS-55N-0.1X-1	45	ICP-MS-55N-1	76
S (Sulfur) ▼	H_2O	100 mL	ICP-MS-56W-0.01X-1	34	ICP-MS-56W-0.1X-1	45	ICP-MS-56W-1	76
Ta (Tantalum) ▼	H_2O tr. HF	100 mL	ICP-MS-57W-0.01X-1	42	ICP-MS-57W-0.1X-1	53	ICP-MS-57W-1	84
Te (Tellurium)	10% HCl (min.)	100 mL	ICP-MS-58H-0.01X-1	34	ICP-MS-58H-0.1X-1	45	ICP-MS-58H-1	76
Tb (Terbium)	2-5% HNO_3	100 mL	ICP-MS-59N-0.01X-1	42	ICP-MS-59N-0.1X-1	53	ICP-MS-59N-1	129
Tl (Thallium)	2-5% HNO_3	100 mL	ICP-MS-60N-0.01X-1	34	ICP-MS-60N-0.1X-1	45	ICP-MS-60N-1	76
Th (Thorium)	2-5% HNO_3	100 mL	ICP-MS-61N-0.01X-1	34	ICP-MS-61N-0.1X-1	45	----------	--
Tm (Thulium)	2-5% HNO_3	100 mL	ICP-MS-62N-0.01X-1	58	ICP-MS-62N-0.1X-1	70	ICP-MS-62N-1	108
Sn (Tin)	2-5% HNO_3 tr. HF	100 mL	ICP-MS-63N-0.01X-1	34	ICP-MS-63N-0.1X-1	45	ICP-MS-63N-1	76
Ti (Titanium) ▼	H_2O tr. HF	100 mL	ICP-MS-64W-0.01X-1	34	ICP-MS-64W-0.1X-1	45	ICP-MS-64W-1	76
W (Tungsten) ▼	H_2O tr. NH_4OH	100 mL	ICP-MS-65W-0.01X-1	34	ICP-MS-65W-0.1X-1	45	ICP-MS-65W-1	76
U (Uranium)	2-5% HNO_3	100 mL	ICP-MS-66N-0.01X-1	42	ICP-MS-66N-0.1X-1	53	----------	--
V (Vanadium)	2-5% HNO_3	100 mL	ICP-MS-67N-0.01X-1	34	ICP-MS-67N-0.1X-1	45	ICP-MS-67N-1	76
Yb (Ytterbium)	2-5% HNO_3	100 mL	ICP-MS-68N-0.01X-1	42	ICP-MS-68N-0.1X-1	53	ICP-MS-68N-1	84
Y (Yttrium)	2-5% HNO_3	100 mL	ICP-MS-69N-0.01X-1	34	ICP-MS-69N-0.1X-1	45	ICP-MS-69N-1	76
Zn (Zinc)	2-5% HNO_3	100 mL	ICP-MS-70N-0.01X-1	34	ICP-MS-70N-0.1X-1	45	ICP-MS-70N-1	76
Zr (Zirconium)	2-5% HNO_3	100 mL	ICP-MS-71N-0.01X-1	34	ICP-MS-71N-0.1X-1	45	ICP-MS-71N-1	76

▼ Hazardous fee not required.

Each standard is prepared from high purity starting materials, 18 megohm de-ionized water and high purity acids. Every standard is instrumentally assayed to verify concentration of specified element. Actual Lot Analysis is provided on the label and a Certificate of Analysis is included for ease of record keeping and availability at audits.

- Traceable to NIST Reference Materials
- Certificate of Analysis included
- Actual Concentration Analysis
- High Purity Starting Materials and Acids
- 18 megohm de-ionized Water
- 36 Month Shelf Life



Single Element AA

Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	Price	NoHaz 20 mL Size 20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Aluminum	100 mL	AA01N-1	$ 13	AA01N-10X-20ML	$ 20
2-5% Nitric acid	500 mL	AA01N-5	33		
Antimony	100 mL	AA02N-1	13	AA02W-10X-20ML	20
2-5% HNO_3 tr.Tartaric acid	500 mL	AA02N-5	33		
Arsenic	100 mL	AA03N-1	13	AA03N-10X-20ML	20
2-5% Nitric acid	500 mL	AA03N-5	33		
Barium	100 mL	AA04N-1	12	AA04N-10X-20ML	20
2-5% Nitric acid	500 mL	AA04N-5	30		
Beryllium	100 mL	AA05N-1	19	AA05N-10X-20ML	20
2-5% Nitric acid	500 mL	AA05N-5	48		
Bismuth	100 mL	AA06N-1	13	AA06N-10X-20ML	20
10% Nitric acid	500 mL	AA06N-5	33		
Boron	100 mL	AA07W-1 ▼	13	AA07W-10X-20ML	20
Water tr. NH_4OH	500 mL	AA07W-5 ▼	33		
Cadmium	100 mL	AA08N-1	13	AA08N-10X-20ML	20
2-5% Nitric acid	500 mL	AA08N-5	33		
Calcium	100 mL	AA09N-1	12	AA09N-10X-20ML	20
2-5% Nitric acid	500 mL	AA09N-5	30		
Cerium	100 mL	AA11N-1	18	AA11N-10X-20ML	20
2-5% Nitric acid	500 mL	AA11N-5	40		
Cesium	100 mL	AA12N-1	15	AA12N-10X-20ML	35
2-5% Nitric acid	500 mL	AA12N-5	36		
Chromium	100 mL	AA13N-1	12	AA13N-10X-20ML	20
2-5% Nitric acid	500 mL	AA13N-5	30		
Cobalt	100 mL	AA14N-1	12	AA14N-10X-20ML	20
2-5% Nitric acid	500 mL	AA14N-5	30		
Copper	100 mL	AA15N-1	12	AA15N-10X-20ML	20
2-5% Nitric acid	500 mL	AA15N-5	30		
Dysprosium	100 mL	AA16N-1	20	AA16N-10X-20ML	35
2-5% Nitric acid	500 mL	AA16N-5	45		
Erbium	100 mL	AA17N-1	20	AA17N-10X-20ML	35
2-5% Nitric acid	500 mL	AA17N-5	45		
Europium	100 mL	AA18N-1	20	AA18N-10X-20ML	35
2-5% Nitric acid	500 mL	AA18N-5	45		
Gadolinium	100 mL	AA19N-1	20	AA19N-10X-20ML	35
2-5% Nitric acid	500 mL	AA19N-5	45		
Gallium	100 mL	AA20N-1	15	AA20N-10X-20ML	45
2-5% Nitric acid	500 mL	AA20N-5	36		
Germanium	100 mL	AA21W-1 ▼	18	AA21W-10X-20ML	35
Water tr. HF	500 mL	AA21W-5 ▼	40		
Gold	100 mL	AA22H-1	$ 66	AA22H-10X-20ML	80
5% HCl (min.)	500 mL	AA22H-5	179		
Hafnium	100 mL	AA23N-1	45	AA23N-10X-20ML	60
2-5% Nitric acid tr. HF	500 mL	AA23N-5	110		
Holmium	100 mL	AA24N-1	20	AA24N-10X-20ML	35
2-5% Nitric acid	500 mL	AA24N-5	45		
Indium	100 mL	AA25N-1	18	AA25N-10X-20ML	35
2-5% Nitric acid	500 mL	AA25N-5	40		
Iridium	100 mL	AA26H-1	65	AA26H-10X-20ML	70
10% HCl (min.)	500 mL	AA26H-5	150		
Iron	100 mL	AA27N-1	12	AA27N-10X-20ML	20
2-5% Nitric acid	500 mL	AA27N-5	30		

▼ Hazardous fee not required.

AA
Single Element

3 Year Minimum Shelf Life on Single Element AA Standards

Save with NoHaz Option on AA Single Elements

- No Hazardous Shipping Fees
- Lower Shipping Costs (less weight)
- Yields More - 200 mL from 20 mL concentrate

Includes empty pre-washed, pre-labeled HDPE 250 mL bottle



Single Element AA				NoHaz 20 mL Size	
Element Starting Material Matrix	Unit	1000 µg/mL Cat. No.	Price	20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Lanthanum	100 mL	AA28N-1	15	AA28N-10X-20ML	20
2-5% Nitric acid	500 mL	AA28N-5	36		
Lead	100 mL	AA29N-1	12	AA29N-10X-20ML	20
2-5% Nitric acid	500 mL	AA29N-5	30		
Lithium	100 mL	AA30N-1	12	AA30N-10X-20ML	20
2-5% Nitric acid	500 mL	AA30N-5	30		
Lutetium	100 mL	AA31N-1	65	AA31N-10X-20ML	80
2-5% Nitric acid	500 mL	AA31N-5	250		
Magnesium	100 mL	AA32N-1	12	AA32N-10X-20ML	20
2-5% Nitric acid	500 mL	AA32N-5	30		
Manganese	100 mL	AA33N-1	11	AA33N-10X-20ML	20
2-5% Nitric acid	500 mL	AA33N-5	28		
Mercury	100 mL	AA34N-1	13	AA34N-10X-20ML	20
2-5% Nitric acid	500 mL	AA34N-5	33		
Molybdenum	100 mL	AA35W-1 ▼	13	AA35W-10X-20ML	20
Water tr. NH_4OH	500 mL	AA35W-5 ▼	33		
Neodymium	100 mL	AA36N-1	20	AA36N-10X-20ML	25
2-5% Nitric acid	500 mL	AA36N-5	45		
Nickel	100 mL	AA37N-1	12	AA37N-10X-20ML	20
2-5% Nitric acid	500 mL	AA37N-5	30		
Niobium	100 mL	AA38W-1 ▼	15	AA38W-10X-20ML	20
Water tr. HF	500 mL	AA38W-5 ▼	36		
Palladium	100 mL	AA40H-1	62	AA40H-10X-20ML	80
10% HCl (min.)	500 mL	AA40H-5	145		
Phosphorus	100 mL	AA41W-1 ▼	13	AA41W-10X-20ML	20
Water	500 mL	AA41W-5 ▼	33		
Platinum	100 mL	AA42H-1	62	AA42H-10X-20ML	80
2% HCl (min.)	500 mL	AA42H-5	145		
Potassium	100 mL	AA43N-1	12	AA43N-10X-20ML	20
2-5% Nitric acid	500 mL	AA43N-5	30		
Praseodymium	100 mL	AA44N-1	20	AA44N-10X-20ML	35
2-5% Nitric acid	500 mL	AA44N-5	45		
Rhenium	100 mL	AA45W-1 ▼	65	AA45W-10X-20ML	80
Water	500 mL	AA45W-5 ▼	150		
Rhodium	100 mL	AA46H-1	80	AA46H-10X-20ML	210
10% HCl (min.)	500 mL	AA46H-5	385		
Rubidium	100 mL	AA47N-1	15	AA47N-10X-20ML	20
2-5% Nitric acid	500 mL	AA47N-5	36		
Ruthenium	100 mL	AA48H-1	65	AA48H-10X-20ML	80
10% HCl	500 mL	AA48H-5	150		
Samarium	100 mL	AA49N-1	20	AA49N-10X-20ML	35
2-5% Nitric acid	500 mL	AA49N-5	45		
Scandium	100 mL	AA50N-1	62	AA50N-10X-20ML	75
2-5% Nitric acid	500 mL	AA50N-5	145		
Selenium	100 mL	AA51N-1	19	AA51N-10X-20ML	20
2-5% Nitric acid	500 mL	AA51N-5	46		
Silicon	100 mL	AA52W-1 ▼	13	AA52W-10X-20ML	20
Water tr. HF	500 mL	AA52W-5 ▼	33		
Silver	100 mL	AA53N-1	16	AA53N-10X-20ML	20
2-5% Nitric acid	500 mL	AA53N-5	40		
Sodium	100 mL	AA54N-1	13	AA54N-10X-20ML	20
2-5% Nitric acid	500 mL	AA54N-5	33		

▼ Hazardous fee not required.

- Traceable to NIST Reference Materials
- Certificate of Analysis included
- Actual Concentration Analysis
- High Purity Starting Materials and Acids
- 18 megohm de-ionized Water
- 36 Month Shelf Life

3 Year Minimum Shelf Life on Single Element AA Standards

Save with NoHaz Option on AA Single Elements

- No Hazardous Shipping Fees
- Lower Shipping Costs (less weight)
- Yields More - 200 mL from 20 mL concentrate

Includes empty pre-washed, pre-labeled HDPE 250 mL bottle



Single Element AA

Element / Starting Material / Matrix	Unit	1000 µg/mL Cat. No.	Price	NoHaz 20 mL Size: 20 mL (NoHaz) 10,000 µg/mL Cat. No.	Price
Strontium	100 mL	AA55N-1	12	AA55N-10X-20ML	20
2-5% Nitric acid	500 mL	AA55N-5	30		
Sulfur	100 mL	AA56W-1 ▼	15	AA56W-10X-20ML	20
Water	500 mL	AA56W-5 ▼	35		
Tantalum	100 mL	AA57W-1 ▼	15	AA57W-10X-20ML	35
Water tr. HF	500 mL	AA57W-5 ▼	35		
Tellurium	100 mL	AA58H-1	15	AA58H-10X-20ML	20
10% HCl (min.)	500 mL	AA58H-5	35		
Terbium	100 mL	AA59N-1	20	AA59N-10X-20ML	35
2-5% Nitric acid	500 mL	AA59N-5	45		
Thallium	100 mL	AA60N-1	15	AA60N-10X-20ML	20
2-5% Nitric acid	500 mL	AA60N-5	35		
Thorium	100 mL	AA61N-1	20	----------	--
2-5% Nitric acid	500 mL	AA61N-5	45		
Thulium	100 mL	AA62N-1	60	AA62N-10X-20ML	65
2-5% Nitric acid	500 mL	AA62N-5	135		
Tin	100 mL	AA63N-1	19	AA63N-10X-20ML	20
2-5% Nitric acid tr. HF	500 mL	AA63N-5	46		
Titanium	100 mL	AA64W-1 ▼	13	AA64W-10X-20ML	20
Water tr. HF	500 mL	AA64W-5 ▼	33		
Tungsten	100 mL	AA65W-1 ▼	15	AA65W-10X-20ML	20
Water tr. NH_4OH	500 mL	AA65W-5 ▼	35		
Uranium	100 mL	AA66N-1	15	----------	--
2-5% Nitric acid	500 mL	AA66N-5	35		
Vanadium	100 mL	AA67N-1	13	AA67N-10X-20ML	20
5-10% Nitric acid	500 mL	AA67N-5	33		
Ytterbium	100 mL	AA68N-1	20	AA68N-10X-20ML	35
2-5% Nitric acid	500 mL	AA68N-5	45		
Yttrium	100 mL	AA69N-1	15	AA69N-10X-20ML	20
2-5% Nitric acid	500 mL	AA69N-5	35		
Zinc	100 mL	AA70N-1	13	AA70N-10X-20ML	20
2-5% Nitric acid	500 mL	AA70N-5	33		
Zirconium	100 mL	AA71N-1	15	AA71N-10X-20ML	20
2-5% Nitric acid	500 mL	AA71N-5	35		

▼ Hazardous fee not required.

Matrix Modifier Solutions for Graphite Furnace AA

These Matrix Modifiers enhance sensitivity and suppress background interferences observed in trace metal analysis.

Modifier Description	Modifier Source	Unit	Cat. No.	Price
Ammonium dihydrogen phosphate 40% in H_2O	$NH_4H_2PO_4$	50 mL	MOD-02-0.5 ▼	$ 225
		100 mL	MOD-02-1 ▼	375
		500 mL	MOD-02-5 ▼	535
Ammonium nitrate 5% in H_2O	NH_4NO_3	50 mL	MOD-03-0.5 ▼	165
		100 mL	MOD-03-1 ▼	270
		500 mL	MOD-03-5 ▼	385
Calcium nitrate 2% Calcium in 5% in HNO_3	$Ca(NO_3)_2 \bullet 4H_2O$	50 mL	MOD-04-0.5	140
		100 mL	MOD-04-1	235
		500 mL	MOD-04-5	340
Lanthanum chloride 5% Lanthanum in 5% HCl	LaCl	50 mL	MOD-05-0.5	165
		100 mL	MOD-05-1	270
		500 mL	MOD-05-5	385
Lanthanum nitrate 5% Lanthanum in 5% HNO_3	$LaNO_3$	50 mL	MOD-06-0.5	165
		100 mL	MOD-06-1	270
		500 mL	MOD-06-5	385
Magnesium nitrate 2% Magnesium in 5% HNO_3	$Mg(NO_3)_2$	50 mL	MOD-07-0.5	90
		100 mL	MOD-07-1	150
		500 mL	MOD-07-5	210
Nickel nitrate 5% Nickel in 5% HNO_3	$Ni(NO_3)_2$	50 mL	MOD-08-0.5	160
		100 mL	MOD-08-1	265
		500 mL	MOD-08-5	375
Palladium nitrate 0.2% Palladium in 5% HNO_3	$Pd(NO_3)_2$	50 mL	MOD-09A-0.5	60
		100 mL	MOD-09A-1	95
		500 mL	MOD-09A-5	135
Palladium nitrate 0.5% Palladium in 5% HNO_3	$Pd(NO_3)_2$	50 mL	MOD-09B-0.5	120
		100 mL	MOD-09B-1	200
		500 mL	MOD-09B-5	285
Palladium nitrate 1.0% Palladium in 10% HNO_3	$Pd(NO_3)_2$	50 mL	MOD-09C-0.5	225
		100 mL	MOD-09C-1	375
		500 mL	MOD-09C-5	890

Calibration and Matrix Blanks

Nitric Acid Blank

CLP-BLN-5 **$ 30 / 500 mL**
CLP-BLN-L-VAP **$ 45 / 1L (2 x 500 mL)**

5% HNO_3 in 18 Megohm ASTM Type I deionized Water

Hydrochloric Acid Blank

CLP-BLH-5 **$ 30 / 500 mL**
CLP-BLH-L-VAP **$ 45 / 1L (2 x 500 mL)**

5% HCl in 18 Megohm ASTM Type I deionized Water

Mixed Acid Blank

CLP-BLMA-5 **$ 30 / 500 mL**
CLP-BLMA-L-VAP **$ 45 / 1L (2 x 500 mL)**

5% HCl + 1% HNO_3 in 18 Megohm ASTM Type I deionized Water

Water Blank

CLP-BLW-5 ▼ **$ 30 / 500 mL**
CLP-BLW-L-VAP ▼ **$ 40 / 1L (2 x 500 mL)**

18 Megohm ASTM Type I deionized Water

Multi-Element Graphite Furnace AA Calibration & Spiking Standards

GFAA Instrument Calibration Standard

CLP-CAL-AA **$ 44 / 50 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Sb (Antimony)	100
As (Arsenic)	50
Cd (Cadmium)	10
Pb (Lead)	50
Se (Selenium)	100
Tl (Thallium)	50

GFAA Mercury Standard

for Calibration or Spiking
CLP-HG-AA **$ 44 / 50 mL**
100 µg/mL in 5% HNO_3

Hg (Mercury)

GFAA Predigestion Spike Solution

CLP-SP1-AA **$ 44 / 50 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Sb (Antimony)	100
As (Arsenic)	40
Cd (Cadmium)	5
Pb (Lead)	20
Se (Selenium)	10
Tl (Thallium)	50

GFAA Postdigestion Spike Solution

(2 x CRDL except for Lead)
CLP-SP2-AA **$ 44 / 50 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Sb (Antimony)	120
As (Arsenic)	20
Cd (Cadmium)	10
Pb (Lead)	20
Se (Selenium)	10
Tl (Thallium)	20

GFAA Initial Calibration Verification

(Meets CLP Second Source Requirements)
CLP-ICV-AA **$ 44 / 50 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Sb (Antimony)	50
As (Arsenic)	25
Cd (Cadmium)	5
Pb (Lead)	25
Se (Selenium)	50
Tl (Thallium)	25

GFAA Set

CLP-AA-SET **$ 175 / 5 x 50 mL**

CLP-CAL-AA
CLP-SPI-AA
CLP-ICV-AA
CLP-HG-AA
CLP-SP2-AA

▼ Hazardous fee not required.

Ion Chrom

- 99.99% High Purity Starting Materials
- 18 Megohm, ASTM type I de-ionized Water
- Packaged in pre-cleaned high quality HDPE bottles.
- Each Standard is Supplied with a Certificate of Analysis, stating traceability to NIST, certified value and expiration date.
- Final Solution is filtered through a 0.2 µm filter to eliminate contaminants (such as suspended solids and microbes). This extends shelf life and protects your column.
- Ready-To-Use Mixes and Calibration Sets.
- Standards may be used for other "Classical or Wet" methods.

Anions

		100 µg/mL		200 µg/mL		1000 µg/mL	
Water Matrix	**Unit**	**Cat. No.**	**Price**	**Cat. No.**	**Price**	**Cat. No.**	**Price**
Acetate	100 mL	IC-ACET-1X-1	$ 15	----------	--	IC-ACET-10X-1	$ 45
	500 mL	IC-ACET-1X-5	55	----------	--	IC-ACET-10X-5	70
Br (Bromate)	100 mL	----------	--	----------	--	IC-BROM-10X-1	45
	500 mL	----------	--	----------	--	IC-BROM-10X-5	70
Br (Bromide)	100 mL	IC-BR-1X-1	15	IC-BR-2X-1	$ 25	IC-BR-10X-1	45
	500 mL	IC-BR-1X-5	55	IC-BR-2X-5	60	IC-BR-10X-5	70
Citrate	100 mL	----------	--	----------	--	IC-CITR-10X-1	45
Cl (Chloride)	100 mL	IC-Cl-1X-1	15	IC-Cl-2X-1	25	IC-Cl-10X-1	45
	500 mL	IC-Cl-1X-5	55	IC-Cl-2X-5	60	IC-Cl-10X-5	70
Chromate	100 mL	IC-CHRM-1X-1	15	----------	--	IC-CHRM-10X-1	45
	500 mL	IC-CHRM-1X-5	55	----------	--	IC-CHRM-10X-5	70
F (Fluoride)	100 mL	IC-F-1X-1	15	IC-F-2X-1	25	IC-F-10X-1	45
	500 mL	IC-F-1X-5	55	IC-F-2X-5	60	IC-F-10X-5	70
Formate	100 mL	IC-FORM-1X-1	15	----------	--	IC-FORM-10X-1	45
	500 mL	IC-FORM-1X-5	55	----------	--	IC-FORM-10X-5	70
Glycolate	100 mL	----------	--	----------	--	IC-GLYC-10X-1	45
Iodide	100 mL	----------	--	----------	--	IC-I-10X-1	45
Lactate	100 mL	----------	--	----------	--	IC-LACT-10X-1	45
Malate	100 mL	----------	--	----------	--	IC-MALA-10X-1	45
Maleate	100 mL	----------	--	----------	--	IC-MALE-10X-1	45
NO_2 (Nitrite)	100 mL	IC-NO2-1X-1	15	IC-NO2-2X-1	25	IC-NO2-10X-1	45
	500 mL	IC-NO2-1X-5	55	IC-NO2-2X-5	60	IC-NO2-10X-5	70
NO_3 (Nitrate)	100 mL	IC-NO3-1X-1	15	IC-NO3-2X-1	25	IC-NO3-10X-1	45
	500 mL	IC-NO3-1X-5	55	IC-NO3-2X-5	60	IC-NO3-10X-5	70
Oxalate	100 mL	IC-OXAL-1X-1	15	----------	--	IC-OXAL-10X-1	45
	500 mL	IC-OXAL-1X-5	55	----------	--	IC-OXAL-10X-5	70
Perchlorate	100 mL	----------	--	----------	--	IC-PER-10X-1	55
Phthalate	100 mL	----------	--	----------	--	IC-PHTH-10X-1	45
PO_4 (Phosphate)	100 mL	IC-PO4-1X-1	15	IC-PO4-2X-1	25	IC-PO4-10X-1	45
	500 mL	IC-PO4-1X-5	55	IC-PO4-2X-5	60	IC-PO4-10X-5	70
Propionate	100 mL	----------	--	----------	--	IC-PROP-10X-1	45
Succinate	100 mL	----------	--	----------	--	IC-SUCC-10X-1	45
SO_4 (Sulfate)	100 mL	IC-SO4-1X-1	15	IC-SO4-2X-1	25	IC-SO4-10X-1	45
	500 mL	IC-SO4-1X-5	55	IC-SO4-2X-5	60	IC-SO4-10X-5	70
Sulfide **NEW**	20 mL	----------	--	----------	--	IC-SULF-10X-20ML	55
Dilute NaOH, stabilizer	5 x 20 mL	----------	--	----------	--	IC-SULF-10X-20ML-VAP	195
Tartrate	100 mL	----------	--	----------	--	IC-TART-10X-1	45

Anion Kits

IC-AN-1X-1-SET **$ 75 / 7 x 100 mL**
IC-AN-1X-5-SET **$ 285 / 7 x 500 mL**
Each at 100 µg/mL in Water
IC-AN-2X-1-SET **$ 130 / 7 x 100 mL**
IC-AN-2X-5-SET **$ 315 / 7 x 500 mL**
Each at 200 µg/mL in Water
IC-AN-10X-1-SET **$ 235 / 7 x 100 mL**
IC-AN-10X-5-SET **$ 365 / 7 x 500 mL**
Each at 1000 µg/mL in Water

Fluoride
Chloride
Nitrite
Nitrate
Bromide
Phosphate
Sulfate

Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

Ion Chrom - Ion Singles as the Element

	Unit	100 µg/mL	Price	1000 µg/mL	Price
NO_2-N (Nitrite-Nitrogen)	100 mL	IC-NO2-N-1X-1	$ 15	IC-NO2-N-10X-1	$ 45
Water Matrix	500 mL	IC-NO2-N-1X-5	55	IC-NO2-N-10X-5	70
NO_3-N (Nitrate-Nitrogen)	100 mL	IC-NO3-N-1X-1	15	IC-NO3-N-10X-1	45
Water Matrix	500 mL	IC-NO3-N-1X-5	55	IC-NO3-N-10X-5	70
PO_4-P (Phosphate-Phosphorous)	100 mL	IC-PO4-P-1X-1	15	IC-PO4-P-10X-1	45
Water Matrix	500 mL	IC-PO4-P-1X-5	55	IC-PO4-P-10X-5	70
SO_4-S (Sulfate-Sulfur)	100 mL	IC-SO4-S-1X-1	15	IC-SO4-S-10X-1	45
Water Matrix	500 mL	IC-SO4-S-1X-5	55	IC-SO4-S-10X-5	70
NH_4-N (Ammonium-Nitrogen)	100 mL	IC-NH4-N-1X-1	15	IC-NH4-N-10X-1	45
Water Matrix	500 mL	IC-NH4-N-1X-5	55	IC-NH4-N-10X-5	70

Anion Single Kits

IC-AN-R-10X-1-SET **$ 235 / 7 x 100 mL**
IC-AN-R-10X-5-SET **$ 365 / 7 x 500 mL**
Each at 1000 µg/mL

Fluoride
Chloride
Nitrite-Nitrogen
Nitrate-Nitrogen
Bromide
Phosphate-Phosphorous
Sulfate-Sulfur

Organic Acid Salt Standard

	Unit	100 µg/mL	Price	1000 µg/mL	Price
Formate	100 mL	IC-FORM-1X-1	$ 15	IC-FORM-10X-1	$ 45
Water Matrix	500 mL	IC-FORM-1X-5	55	IC-FORM-10X-5	70
Acetate	100 mL	IC-ACET-1X-1	15	IC-ACET-10X-1	45
Water Matrix	500 mL	IC-ACET-1X-5	55	IC-ACET-10X-5	70
Oxalate	100 mL	IC-OXAL-1X-1	15	IC-OXAL-10X-1	45
Water Matrix	500 mL	IC-OXAL-1X-5	55	IC-OXAL-10X-5	70
Chromate	100 mL	IC-CHRM-1X-1	15	IC-CHRM-10X-1	45
Water Matrix	500 mL	IC-CHRM-1X-5	55	IC-CHRM-10X-5	70

Method 314.0 Perchlorate in Drinking Water by IC

Perchlorate has become an analyte of environmental interest since being detected in a number of drinking and groundwater supplies located in Midwestern states. EPA method 314.0 was released as an approved method to achieve the required sensitivity.

Perchlorate Standard

IC-PER-10X-1 **$ 45 / 100 mL**
1000 µg/mL in Water

Perchlorate

Conductivity Meter Calibration Standard

M-314.0-CMCS-1 **$ 35 / 100 mL**
1410 µs/cm @ 25˚C in Water

Mixed Common Anion Stock

M-314.0-MCA-250X-1
$ 150 / 100 mL
25 mg/mL in Water 3 comps.

Chloride
Sulfate
Carbonate

Method 314.0 Perchlorate Calibration Set

M-314.0-SET **$ 205 / 3 x 100 mL**

IC-PER-10X-1
M-314.0-MCA-250X-1
M-314.0-CMCS-1



Ion Chrom Eluents

0.5 M Sodium bicarbonate (100X concentrate)	**50 mL** $ 45 IC-ELU-01-0.5	**100 mL** $ 60 IC-ELU-01-1	**5 x 50 mL** $ 180 IC-ELU-01-0.5-PAK	**5 x 100 mL** $ 240 IC-ELU-01-1-PAK
0.5 M Sodium carbonate (100X concentrate)	**50 mL** $ 45 IC-ELU-02-0.5	**100 mL** $ 60 IC-ELU-02-1	**5 x 50 mL** $ 180 IC-ELU-02-0.5-PAK	**5 x 100 mL** $ 240 IC-ELU-02-1-PAK
0.18 M Sodium carbonate/ 0.17 M Sodium bicarbonate (100X concentrate)	**50 mL** $ 25 IC-ELU-03-0.5	**100 mL** $ 30 IC-ELU-03-1	**5 x 50 mL** $ 100 IC-ELU-03-0.5-PAK	**5 x 100 mL** $ 120 IC-ELU-03-1-PAK

Technical Note

Easy to use, ready to dilute concentrates. Open a fresh bottle and dilute the volume (50 mL to 5 L or 100 mL to 10 L) and be assured of a fresh uncontaminated mobile phase

Anion Mixes

Anion Mix #1
IC-MAN-01-1 **$ 100 / 100 mL**
Water Matrix 5 comps.

F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
NO_3 (Nitrate)	100 µg/mL
PO_4 (Phosphate)	150 µg/mL
SO_4 (Sulfate)	150 µg/mL

Anion Mix #2
IC-MAN-02-1 **$ 115 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	100 µg/mL
Cl (Chloride)	200 µg/mL
Br (Bromide)	400 µg/mL
NO_3 (Nitrate)	400 µg/mL
PO_4 (Phosphate)	600 µg/mL
SO_4 (Sulfate)	400 µg/mL

Anion Mix #3
IC-MAN-03-1 **$ 75 / 100 mL**
Water Matrix 3 comps.

F (Fluoride)	100 µg/mL
Cl (Chloride)	100 µg/mL
SO_4 (Sulfate)	100 µg/mL

Anion Mix #4
IC-MAN-04-1 **$ 115 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	100 µg/mL
Cl (Chloride)	100 µg/mL
Br (Bromide)	100 µg/mL
NO_3 (Nitrate)	100 µg/mL
PO_4 (Phosphate)	100 µg/mL
SO_4 (Sulfate)	100 µg/mL

Anion Mix #5
IC-MAN-05-R1-1 **$ 85 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	10 µg/mL
Cl (Chloride)	20 µg/mL
Br (Bromide)	20 µg/mL
NO_3 (Nitrate)	20 µg/mL
PO_4 (Phosphate)	5 µg/mL
SO_4 (Sulfate)	30 µg/mL

Anion Mix #6
IC-MAN-06-R1-1 **$ 85 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	1 µg/mL
Cl (Chloride)	5 µg/mL
Br (Bromide)	5 µg/mL
NO_3 (Nitrate)	5 µg/mL
PO_4 (Phosphate)	5 µg/mL
SO_4 (Sulfate)	10 µg/mL

Anion Mix #7
IC-MAN-07-R1-1 **$ 85 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	1 µg/mL
Cl (Chloride)	10 µg/mL
Br (Bromide)	10 µg/mL
NO_3 (Nitrate)	10 µg/mL
PO_4 (Phosphate)	10 µg/mL
SO_4 (Sulfate)	10 µg/mL

Anion Mix #8
IC-MAN-08-R1-1 **$ 85 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	10 µg/mL
Cl (Chloride)	20 µg/mL
Br (Bromide)	20 µg/mL
NO_3 (Nitrate)	20 µg/mL
PO_4 (Phosphate)	20 µg/mL
SO_4 (Sulfate)	20 µg/mL

Anion Mix #9
IC-MAN-09-R1-1 **$ 85 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	20 µg/mL
Cl (Chloride)	40 µg/mL
Br (Bromide)	40 µg/mL
NO_3 (Nitrate)	40 µg/mL
PO_4 (Phosphate)	40 µg/mL
SO_4 (Sulfate)	40 µg/mL

Anion Mix #10
IC-MAN-10-R1-1 **$ 85 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	25 µg/mL
Cl (Chloride)	50 µg/mL
Br (Bromide)	50 µg/mL
NO_3 (Nitrate)	50 µg/mL
PO_4 (Phosphate)	50 µg/mL
SO_4 (Sulfate)	50 µg/mL

Anion Mix #11
IC-MAN-11-1 **$ 175 / 100 mL**
Water Matrix 5 comps.

Cl (Chloride)	1000 µg/mL
Br (Bromide)	1000 µg/mL
NO_3 (Nitrate)	1000 µg/mL
PO_4 (Phosphate)	1000 µg/mL
SO_4 (Sulfate)	1000 µg/mL

Anion Mix #12
IC-MAN-12-1 **$ 100 / 100 mL**
Water Matrix 5 comps.

Cl (Chloride)	15 µg/mL
Br (Bromide)	15 µg/mL
NO_3 (Nitrate)	15 µg/mL
PO_4 (Phosphate)	15 µg/mL
SO_4 (Sulfate)	15 µg/mL

Anion Mix #13
IC-MAN-13-1 **$ 75 / 100 mL**
Water Matrix 3 comps.

F (Fluoride)	25 µg/mL
Cl (Chloride)	50 µg/mL
SO_4 (Sulfate)	100 µg/mL

Anion Mix #14
IC-MAN-14-R3-1 **$ 100 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
Br (Bromide)	100 µg/mL
NO_3 (Nitrate)	100 µg/mL
PO_4 (Phosphate)	150 µg/mL
SO_4 (Sulfate)	150 µg/mL

Anion Mix #14 Revised
IC-MAN-14-R2-1 **$ 100 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
Br (Bromide)	100 µg/mL
N-NO_3 (Nitrogen-Nitrate)	100 µg/mL
P-PO_4 (Phosphorus-Phosphate)	150 µg/mL
SO_4 (Sulfate)	150 µg/mL

Anion Mix #14-R2 plus IC-NO2-N-1X is perfect for US EPA Method 300.1

Nitrite
IC-NO2-N-1X-1 **$ 15 / 100 mL**
NO_2 *(Nitrite)* 100 µg/mL

Dichloroacetate Surrogate Standard
M-300.1-SS **$ 125 / 100 mL**
0.5 mg/mL Dichloroacetate in Water

Nitrite

IC-NO2-10X-1	**$ 45 / 100 mL**
NO_2 *(Nitrite)*	1000 µg/mL
IC-NO2-1X-1	**$ 15 / 100 mL**
NO_2 *(Nitrite)*	100 µg/mL
IC-NO2-0.1X-1	**$ 15 / 100 mL**
NO_2 *(Nitrite)*	10 µg/mL

Anion Mix #15
IC-MAN-15-R2-1 **$ 70 / 100 mL**
Water Matrix 3 comps.

F *(Fluoride)*	100 µg/mL
NO_3 *(Nitrate)*	100 µg/mL
PO_4 *(Phosphate)*	100 µg/mL

Anion Mix #16
IC-MAN-16-R1-1 **$ 100 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	100 µg/mL
Cl (Chloride)	200 µg/mL
Br (Bromide)	100 µg/mL
NO_3 (Nitrate)	20 µg/mL
PO_4 (Phosphate)	30 µg/mL
SO_4 (Sulfate)	20 µg/mL

Anion Mix #17
IC-MAN-17-R1-1 **$ 85 / 100 mL**
Water Matrix 5 comps.

Cl (Chloride)	20 µg/mL
Br (Bromide)	12 µg/mL
NO_3 (Nitrate)	12 µg/mL
PO_4 (Phosphate)	12 µg/mL
SO_4 (Sulfate)	80 µg/mL

Anion Mix #18
IC-MAN-18-R1-1 **$ 85 / 100 mL**
Water Matrix 5 comps.

F (Fluoride)	100 µg/mL
Cl (Chloride)	100 µg/mL
NO_3 (Nitrate)	100 µg/mL
PO_4 (Phosphate)	100 µg/mL
SO_4 (Sulfate)	100 µg/mL

Technical Note

To enhance the shelf life and long term stability of our IC products, Nitrite has been removed from mixes that contain Nitrate.

Technical Note

We offer several Nitrite concentrations that can be added just prior to analysis for maximum stability.

Ion Chrom - Cation Singles

Dilute HNO_3 Matrix	Unit	100 µg/mL Cat. No.	Price	200 µg/mL Cat. No.	Price	1,000 µg/mL Cat. No.	Price
Ca (Calcium)	100 mL	IC-CA-1X-1	$ 15	IC-CA-2X-1	$ 25	IC-CA-10X-1	$ 45
	500 mL	IC-CA-1X-5	55	IC-CA-2X-5	60	IC-CA-10X-5	70
NH_4 (Ammonium)	100 mL	IC-NH4-1X-1	15	IC-NH4-2X-1	25	IC-NH4-10X-1 †	45
	500 mL	IC-NH4-1X-5	55	IC-NH4-2X-5	60	IC-NH4-10X-5 †	70
Mg (Magnesium)	100 mL	IC-MG-1X-1	15	IC-MG-2X-1	25	IC-MG-10X-1	45
	500 mL	IC-MG-1X-5	55	IC-MG-2X-5	60	IC-MG-10X-5	70
K (Potassium)	100 mL	IC-K-1X-1	15	IC-K-2X-1	25	IC-K-10X-1	45
	500 mL	IC-K-1X-5	55	IC-K-2X-5	60	IC-K-10X-5	70
Na (Sodium)	100 mL	IC-NA-1X-1	15	IC-NA-2X-1	25	IC-NA-10X-1	45
	500 mL	IC-NA-1X-5	55	IC-NA-2X-5	60	IC-NA-10X-5	70
Li (Lithium)	100 mL	IC-LI-1X-1	15	IC-LI-2X-1	25	IC-LI-10X-1	45
	500 mL	IC-LI-1X-5	55	IC-LI-2X-5	60	IC-LI-10X-5	70
Ba (Barium)	100 mL	IC-BA-1X-1	15	IC-BA-2X-1	25	IC-BA-10X-1	45
	500 mL	IC-BA-1X-5	55	IC-BA-2X-5	60	IC-BA-10X-5	70
Sr (Strontium)	100 mL	IC-SR-1X-1	15	IC-SR-2X-1	25	IC-SR-10X-1	45
	500 mL	IC-SR-1X-5	55	IC-SR-2X-5	60	IC-SR-10X-5	70
Sets	**8 x 100 mL**	IC-CAT-1X-1-SET	75	IC-CAT-2X-1-SET	130	IC-CAT-10X-1-SET	235
Above Listed	**8 x 500 mL**	IC-CAT-1X-5-SET	285	IC-CAT-2X-5-SET	315	IC-CAT-10X-5-SET	365

† **1,000 µg/mL as Ammonium (NH_4) Other Nitrogen species equivalents are:**

NH_3 (Ammonia) = 944 µg/mL
N (Nitrogen) = 776 µg/mL

Ion Chrom - Cation Mixes

Cation Mix #1

IC-MCA-01-1 **$ 150 / 100 mL**
Dilute HNO_3 6 comps.

Ca (Calcium)	1000 µg/mL
NH_4 (Ammonium)	400 µg/mL
Mg (Magnesium)	200 µg/mL
K (Potassium)	200 µg/mL
Na (Sodium)	200 µg/mL
Li (Lithium)	50 µg/mL

Cation Mix #2

IC-MCA-02-1 **$ 125 / 100 mL**
Dilute HNO_3 6 comps.

Ca (Calcium)	100 µg/mL
NH_4 (Ammonium)	100 µg/mL
Mg (Magnesium)	100 µg/mL
K (Potassium)	100 µg/mL
Na (Sodium)	100 µg/mL
Li (Lithium)	100 µg/mL

Cation Mix #3

IC-MCA-03-1 **$ 100 / 100 mL**
Dilute HNO_3 4 comps.

Ca (Calcium)	100 µg/mL
K (Potassium)	100 µg/mL
Na (Sodium)	50 µg/mL
Li (Lithium)	10 µg/mL

Cation Mix #4

IC-MCA-04-1 **$ 100 / 100 mL**
Dilute HNO_3 4 comps.

Ca (Calcium)	400 µg/mL
Mg (Magnesium)	200 µg/mL
Ba (Barium)	1600 µg/mL
Sr (Strontium)	600 µg/mL

Cation Mix #5

IC-MCA-05-1 **$ 100 / 100 mL**
Dilute HNO_3 4 comps.

NH_4 (Ammonium)	3 µg/mL
K (Potassium)	6 µg/mL
Na (Sodium)	3 µg/mL
Li (Lithium)	0.5 µg/mL

Cation Mix #6

IC-MCA-06-1 **$ 100 / 100 mL**
Dilute HNO_3 6 comps.

Ca (Calcium)	2 µg/mL
NH_4 (Ammonium)	1.5 µg/mL
Mg (Magnesium)	2 µg/mL
K (Potassium)	2.5 µg/mL
Na (Sodium)	1.5 µg/mL
Li (Lithium)	0.2 µg/mL

Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.



Wet Chemicals

Our Wet Chemical Standards are prepared from the highest quality raw material according to ASTM, EPA or "Standard Methods" [1] procedures. All balances used for preparation are calibrated regularly against NIST traceable weights. Each batch of finished product is analyzed to verify concentration, against NIST standards when possible. All of our Wet Chemical standards are subjected to the same rigorous quality control procedures as our ICP and IC standards.

1 Standard Methods for the Examination of Water and Wastewater. American Public Health Association, American Water Works Association, Water Environment Federation

Inorganic Constituents

Many of these methods use classical wet chemical methods to determine the components of either potable or wastewater.

Bromide
IC-BR-10X-1 **$ 45 / 100 mL**
1000 µg/mL Bromide in Water

Method 300.1 Ion Chrom Standard Revised
IC-MAN-14-R2-1 **$ 100 / 100 mL**
Water Matrix 6 comps.

F (Fluoride)	20 µg/mL
Cl (Chloride)	30 µg/mL
Br (Bromide)	100 µg/mL
NO_3-N (Nitrate-Nitrogen)	100 µg/mL
PO_4-P (Phosphate-Phosphorus)	150 µg/mL
SO_4 (Sulfate)	150 µg/mL

Technical Note
This product was designed to more closely meet the EPA standard by having the concentrations for the nutrients calculated back to the element rather than the anion.

Dichloroacetate Surrogate Standard
M-300.1-SS **$ 125 / 100 mL**
0.5 mg/mL Dichloroacetate in Water

Cyanide
WC-CN-10X-1 ▲ **$ 45 / 100 mL**
1000 µg/mL Cyanide in 2% NaOH

Chloride
IC-CL-10X-1 **$ 45 / 100 mL**
1000 µg/mL Chloride in Water

Total Residual Chlorine
WC-TRC-10X-10ML **$ 35 / 10 mL**
1000 µg/mL Chlorine in Water

Technical Note
This product is shipped in an amber flame sealed ampule for maximum stability.

Fluoride
IC-F-10X-1 **$ 45 / 100 mL**
1000 µg/mL Fluoride in Water

Iodide
IC-I-10X-1 **$ 45 / 100 mL**
1000 µg/mL Iodide in Water

pH
WC-PH-4-1 **$ 25 / 100 mL**
pH of 4.0 in Water
WC-PH-7-1 **$ 25 / 100 mL**
pH of 7.0 in Water
WC-PH-10-1 **$ 25 / 100 mL**
pH of 10.0 in Water

Phosphorus - Total
IC-PO4-P-10X-1 **$ 45 / 100 mL**
1000 µg/mL Phosphorus in Water

Technical Note
Can also be used for ortho-phosphate analysis.

▲ Hazardous fee require

Technical Note
Nitrogen Species are all calculated back to Nitrogen - Not the Anion or Cation species.

Nitrogen - Ammonium
IC-NH4-N-10X-1 **$ 45 / 100 mL**
1000 µg/mL Ammonium-Nitrogen in Water

Nitrogen - Nitrite
IC-NO2-N-10X-1 **$ 45 / 100 mL**
1000 µg/mL Nitrite-Nitrogen in Water

Nitrogen - Nitrate
IC-NO3-N-10X-1 **$ 45 / 100 mL**
1000 µg/mL Nitrate-Nitrogen in Water

Silica
WC-SIO2-10X-1 **$ 45 / 100 mL**
1000 µg/mL as Silica (SiO_2) in Water tr. HF

Sulfate
IC-SO4-10X-1 **$ 45 / 100 mL**
1000 µg/mL Sulfate (SO_4) in Water

Hexavalent Chromium
WC-HEX-10X-1 **$ 45 / 100 mL**
1000 µg/mL in Water

Standards of Interest
Anions available in additional concentrations, see page 358 for complete product listing.

Physical & Aggregate Properties

These Standards are concerned primarily with measuring actual physical characteristics of a sample as opposed to the chemical characteristics. These analytes are measured frequently in both drinking and waste waters.

Turbidity
WC-TURB-4X-1 **$ 45 / 100 mL**
400 NTU non-ratio Turbidity Standard

A stable solution of microspheres in an aqueous matrix. Can be diluted in turbidity free water to make a calibration curve.
Do not shake prior to use.

Alkalinity
WC-ALK-10X-1 **$ 25 / 100 mL**
1000 µg/L $CaCO_3$ to pH 4.5

Hardness
WC-HARD-10X-1 **$ 45 / 100 mL**
1000 µg/mL equivalent $CaCO_3$

A combination of Ca and Mg to give an approximate concentration of 1000 µg/mL $CaCO_3$. Hardness µg/mL equivalent $CaCO_3$ = 2.497 [Ca µg/mL] + 4.118 [Mg µg/mL]

Conductivity
WC-COND-10X-1 **$ 25 / 100 mL**
1000 µmhos in Water

Solids
WC-SOL **$ 25 / sample**
2 comps.
1000 ppm TSS (Total Suspended Solids) and 1000 ppm TDS (Total Disolved Solids) for a 2000 ppm TS (Total Solids).

Dilute to 100 mL. Rinse vial and cap several times to recover all solids.

Methylene Blue Activated Substance (MBAS)
WC-MBAS-R1-10X-1 **$ 35 / 100 mL**
1000 µg/mL in Water

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Aggregate Organic

Rather than determining individual organic analytes, these Standards are used to determine organic matter in broad categories, based primarily on how they react.

Biochemical Oxygen Demand (BOD)

WC-BOD-10ML **$ 25 / 10 mL**
100 µg/mL BOD (After Dilution)

75 mg/L glucose and 75 mg / L glutamic acid provided in a flame sealed ampule. Dilute to 1L immediately before use.



Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

Chemical Oxygen Demand (COD)

WC-COD-5X-10ML **$ 25 / 10 mL**
500 µg/mL COD in water

Total Organic Carbon (TOC)

WC-TOC-10X-1 **$ 25 / 100 mL**
1000 µg/mL TOC in water, tr. H_2SO_4

NEW

Total Inorganic Carbon (TIC)

WC-TIC-10X-1 **$ 25 / 100 mL**
1000 µg/mL Total Inorganic Carbon in Water tr. H_2SO_4

Total Organic Halides (TOX)

WC-TOX-10X-1 **$ 25 / 1 mL**
WC-TOX-10X-1-PAK *SAVE 20%* **$ 100 / 5 x 1 mL**
1000 µg/mL in MeOH

Total Organic Nitrogen (TON)

WC-TON-10X-1 **$ 45 / 100 mL**
1000 µg/mL Total Organic Nitrogen in Water

NEW

Total Kjeldahl Nitrogen (TKN)

WC-TKN-10X-1 **$ 45 / 100 mL**
1000 µg/mL Total Kjeldahl Nitrogen in Water

Oil and Grease

WC-OILG-10X-1 ▲ **$ 45 / 100 mL**
1000 µg/mL Total Oil and Grease in n-Propanol

Contains 500 µg/mL vegetable oil and 500 µg/mL of petroleum oil. Shake well before use.

Phenols

WC-PHEN-10X-1 **$ 45 / 100 mL**
1000 µg/mL Phenol in water.

▲ Hazardous fee required



Method 1664 Oil, Grease & Total Petroleum Hydrocarbon (TPH)

Precision and Recovery (PAR) Spiking Solution

M-1664-5ML **$ 15 / 1 x 5 mL**
M-1664-5ML-PAK *SAVE 20%* **$ 60 / 5 x 5 mL**
4.0 mg/mL each in Acetone 2 comps.
M-1664-20ML **$ 25 / 1 x 20 mL**
M-1664-20ML-PAK *SAVE 20%* **$ 100 / 5 x 20 mL**
4.0 mg/mL each in Acetone 2 comps.

Hexadecane Stearic acid

Technical Note

This Precison and Recovery (PAR) Spiking Solution was developed for Method 1664. This performance based method was developed to replace previous gravimetric procedures incorporating Freon-113 as the extraction solvent for the determination of Oil and Grease and Total Petroleum Hydrocarbons. Each standard is packaged in a flame sealed ampule conveniently sized for quality control of the analytical batch.

Method 413.2 & 418.1 Total Petroleum Hydrocarbon Analysis by IR

Oil, Grease & Petroleum Hydrocarbon Concentrates Mix

M-418-CON **$ 35 / 1 x 1 mL**
% by volume 3 comps.

Chlorobenzene	(25.0)	Hexadecane	(37.5)
Isooctane	(37.5)		

Oil, Grease and Petroleum Hydrocarbon Total Recoverable (IR Method)

M-418 **$ 30 / 1 x 1 mL**
M-418-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
Total 4.15 mg/mL in Freon 113, (Parts by volume) 3 comps.

Chlorobenzene	(10.0)	Isooctane	(15.0)
n-Hexadecane	(15.0)		

Method 8440 Total Petroleum Hydrocarbon Analysis

Total Recoverable Petroleum Hydrocarbon Mix

M-8440 **$ 20 / 1 x 1 mL**
M-8440-PAK *SAVE 20%* **$ 80 / 5 x 1 mL**
At stated conc. in Tetrachloroethene 3 comps.

Chlorobenzene	(0.10 w/w %)	Isooctane	(0.15 w/w %)
n-Hexadecane	(0.15 w/w %)		

Total Petroleum Hydrocarbon Concentrate Mix

M-8440-CON **$ 30 / 1 x 1 mL**
M-8440-CON-PAK *SAVE 20%* **$ 120 / 5 x 1 mL**
3 comps.

Chlorobenzene	(25.0 vol %)	Isooctane	(37.5 vol %)
n-Hexadecane	(37.5 vol %)		

Silica Gel Cleanup Calibration Solution

M-8440-SGC **$ 10 / 1 x 1 mL**
M-8440-SGC-PAK *SAVE 20%* **$ 40 / 5 x 1 mL**
10.0 mg/mL in Tetrachloroethene

Corn Oil

Standards of Interest

AccuStandard offers the widest selection of Petroleum standards. These TPH oil analysis standards are a sample of the hundreds in our Fuel and Hydrocarbon section.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Inorganic
Multi-Element Standards

- Traceable to NIST Reference Materials
- Formulated from Ultra High Purity Starting Materials, Water and Acids
- Meets EPA and Customer Applications
- Concentration Verified by Wet Chemical and Instrumental Analysis
- Packaged in Specially prepared Acid Leached Bottles
- Full Documentation



Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

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Quality Control Standards

Quality Control Standards can be used for many different applications. AccuTrace QC Standards are ideal for calibration when performing NPDES monitoring requirements and can be used for standard curve checks, inter-element correction methods, interference checks or any other unique application.

QC Standard #1

QCS-01-1 **$ 182 / 100 mL**
QCS-01-5 **$ 354 / 500 mL**
100 µg/mL each in 5% HNO_3 tr. HF 23 comps.

Sb (Antimony)	Mn (Manganese)
As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Cd (Cadmium)	P (Phosphorus)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Sn (Tin)
Fe (Iron)	Ti (Titanium)
Pb (Lead)	V (Vanadium)
Li (Lithium)	Zn (Zinc)
Mg (Magnesium)	

QC Standard #2

QCS-02-1 **$ 89 / 100 mL**
QCS-02-5 **$ 174 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 7 comps

Al (Aluminum)	100
Ba (Barium)	100
B (Boron)	100
K (Potassium)	1000
Si (Silicon) †	500
Ag (Silver)	50
Na (Sodium)	100

† 1070 µg/mL as SiO_2

QC Standard #2R

QCS-02-R1-1 **$ 89 / 100 mL**
QCS-02-R1-5 **$ 174 / 500 mL**
100 µg/mL each in 5% HNO_3 tr. HF 7 comps.

Al (Aluminum)	Si (Silicon) †
Ba (Barium)	Ag (Silver)
B (Boron)	Na (Sodium)
K (Potassium)	

† 214 µg/mL as SiO_2

QC Standard #3

QCS-03-1 **$ 135 / 100 mL**
QCS-03-5 **$ 264 / 500 mL**
100 µg/mL each in 5% HNO_3 15 comps.

Al (Aluminum)	Pb (Lead)
Ba (Barium)	Mg (Magnesium)
Cd (Cadmium)	Mn (Manganese)
Ca (Calcium)	Ni (Nickel)
Cr (Chromium)	Na (Sodium)
Co (Cobalt)	Ti (Titanium)
Cu (Copper)	Zn (Zinc)
Fe (Iron)	

QC Standard #4

QCS-04-1 **$ 176 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 19 comps.

Al (Aluminum)	100
Ba (Barium)	5
Be (Beryllium)	1
Bi (Bismuth)	200
B (Boron)	15
Cd (Cadmium)	20
Cr (Chromium)	25
Co (Cobalt)	20
Cu (Copper)	20
Ga (Gallium)	150
In (Indium)	200
Fe (Iron)	15
Pb (Lead)	200
Mn (Manganese)	5
Ni (Nickel)	50
Ag (Silver)	50
Sr (Strontium)	1
Tl (Thallium)	40
Zn (Zinc)	20

QC Standard #5

QCS-05-1 **$ 109 / 100 mL**
At stated conc. (µg/mL) in 2% HNO_3 3 comps.

Li (Lithium)	250
K (Potassium)	10,000
Na (Sodium)	1000

QC Standard #6

QCS-06-1 **$ 109 / 100 mL**
1000 µg/mL each in 2% HNO_3 4 comps.

Ba (Barium)	Mg (Magnesium)
Ca (Calcium)	Sr (Strontium)

Quality Control Standards Sets

QCS-1-SET **$ 325 / 3 x 100 mL**
QCS-01-1 QCS-02-1 QCS-03-1

QCS-5-SET **$ 635 / 3 x 500 mL**
QCS-01-5 QCS-02-5 QCS-03-5

QCS-R1-1-SET **$ 325 / 3 x 100 mL**
QCS-01-1 QCS-02-R1-1 QCS-03-1

QCS-R1-5-SET **$ 635 / 3 x 500 mL**
QCS-01-5 QCS-02-R1-5 QCS-03-5



Second Source QC Standards

These Alternative Source Line Standards exactly match a formulation from another source you may be already using. Our ASL formulations save you the cost of a custom formulation by providing you with true independent lots.

- **NIST Traceable**
- **Independent Lots**
- **Exact Match**

Second Source QC Standard #1

QCS-ASL-7-1 **$ 85 / 1 x 100 mL**
QCS-ASL-7-5 **$ 165 / 1 x 500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 tr. HF 7 comps.

Al (Aluminum)	100
Ba (Barium)	100
B (Boron)	100
K (Potassium)	1000
Si (Silicon)	50
Ag (Silver)	100
Na (Sodium)	100

Second Source QC Standard #2

QCS-ASL-21-1 **$ 190 / 1 x 100 mL**
QCS-ASL-21-5 **$ 370 / 1 x 500 mL**
100 µg/mL each in 2-5% HNO_3 tr. HF 21 comps.

Sb (Antimony)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Be (Beryllium)	Mo (Molybdenum)
Cd (Cadmium)	Ni (Nickel)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	V (Vanadium)
Pb (Lead)	Zn (Zinc)
Li (Lithium)	

Second Source QC Standard #3

QCS-ASL-19-1 **$ 175 / 1 x 100 mL**
QCS-ASL-19-5 **$ 360 / 1 x 500 mL**
100 µg/mL each in 2-5% HNO_3 tr. HF 19 comps.

Sb (Antimony)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Be (Beryllium)	Mo (Molybdenum)
Cd (Cadmium)	Ni (Nickel)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Tl (Thallium)
Co (Cobalt)	Ti (Titanium)
Cu (Copper)	V (Vanadium)
Fe (Iron)	Zn (Zinc)
Pb (Lead)	

Match Other Supplier's Products. Use as a True Second Source.

ICP
Instrument Check Standards & Screening Standards

Instrument Check Standards

These instrument check standards are used to verify ICP instrumentation performance over specific wavelength ranges from 160 nm to 790 nm. These standards are ideal for method development, technician training and other calibration uses.

Instrument Check Standard #1

ICS-01-1 **$ 90 / 100 mL**
ICS-01-5 **$ 175 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 9 comps.

Al (Aluminum)	100
Ba (Barium)	10
Be (Beryllium)	10
B (Boron)	100
Ca (Calcium)	10
Ni (Nickel)	100
P (Phosphorus)	1000
Sc (Scandium)	10
Zn (Zinc)	100

Instrument Check Standard #2

ICS-02-1 **$ 77 / 100 mL**
ICS-02-5 **$ 150 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 7 comps.

Ba (Barium)	50
Be (Beryllium)	20
La (Lanthanum)	20
Mn (Manganese)	20
Ni (Nickel)	20
Sc (Scandium)	20
Zn (Zinc)	20

Instrument Check Standard #3

ICS-03-1 **$ 104 / 100 mL**
ICS-03-5 **$ 202 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 tr. HF 11 comps.

As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Ni (Nickel)	20
P (Phosphorus)	100
K (Potassium)	100
Sc (Scandium)	20
Na (Sodium)	20
S (Sulfur)	100

Instrument Check Standard #4

ICS-04-1 **$ 112 / 100 mL**
ICS-04-5 **$ 218 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 12 comps.

Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	10
Cu (Copper)	100
Pb (Lead)	100
Mn (Manganese)	100
Ni (Nickel)	100
P (Phosphorus)	100
K (Potassium)	500
Sc (Scandium)	100
Na (Sodium)	100
Zn (Zinc)	100

Instrument Check Standard #5

ICS-05-1 **$ 134 / 100 mL**
ICS-05-5 **$ 261 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 15 comps.

Al (Aluminum)	100
As (Arsenic)	100
Cd (Cadmium)	100
Cr (Chromium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	100
Pb (Lead)	100
Mg (Magnesium)	100
Mn (Manganese)	100
Ni (Nickel)	100
K (Potassium)	100
Na (Sodium)	100
Y (Yttrium)	600
Zn (Zinc)	100

Instrument Check Standard #6

ICS-06-1 **$ 86 / 100 mL**
ICS-06-5 **$ 168 / 500 mL**
50 µg/mL each in 2% HNO_3 9 comps.

Al (Aluminum)
As (Arsenic)
Cr (Chromium)
Co (Cobalt)
Cu (Copper)
Pb (Lead)
P (Phosphorus)
K (Potassium)
Na (Sodium)

Instrument Check Standard #7

ICS-07-1 **$ 90 / 100 mL**
ICS-07-5 **$ 175 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 7 comps.

Al (Aluminum)	50
Ba (Barium)	50
Cd (Cadmium)	50
Cu (Copper)	50
Mn (Manganese)	50
K (Potassium)	500
Zn (Zinc)	50

Screening Standards

These three Qualitative Standards can be combined to scan samples quickly and easily for elements present. They should be used for element identification only. The concentration of each element is approximately 10 µg/mL. To screen for all 68 elements these 3 semi-quantitative standards can be blended together and used immediately.

Semi-Quantitative Standard #1

SQS-01-1 **$ 175 / 1 x 100 mL**
10 µg/mL each in 2-5% HNO_3 tr. HF 33 comps.

Al (Aluminum)
As (Arsenic)
Ba (Barium)
Bi (Bismuth)
Ca (Calcium)
Cd (Cadmium)
Ce (Cerium)
Dy (Dysprosium)
Er (Erbium)
Eu (Europium)
Ga (Gallium)
Gd (Gadolinium)
Ho (Holmium)
In (Indium)
La (Lanthanum)
Lu (Lutetium)
Mg (Magnesium)
Na (Sodium)
Nd (Neodymium)
P (Phosphorus)
Pb (Lead)
Pr (Praseodymium)
Sc (Scandium)
Se (Selenium)
Sm (Samarium)
Sr (Strontium)
Tb (Terbium)
Th (Thorium)
Tl (Thallium)
Tm (Thulium)
U (Uranium)
Y(Yttrium)
Yb (Ytterbium)

Semi-Quantitative Standard #2

SQS-02-1 **$ 175 / 1 x 100 mL**
10 µg/mL each in 2-5% HNO_3 tr. HCl tr. HF 34 comps.

Au (Gold)
B (Boron)
Be (Beryllium)
Co (Cobalt)
Cr (Chromium)
Cs (Cesium)
Cu (Copper)
Fe (Iron)
Ge (Germanium)
Hf (Hafnium)
Ir (Iridium)
K (Potassium)
Li (Lithium)
Mn (Manganese)
Mo (Molybdenum)
Nb (Niobium)
Ni (Nickel)
Pd (Palladium)
Pt (Platinum)
Rb (Rubidium)
Re (Rhenium)
Rh (Rhodium)
Ru (Ruthenium)
S (Sulfur)
Sb (Antimony)
Si (Silicon)
Sn (Tin)
Ta (Tantalum)
Te (Tellurium)
Ti (Titanium)
V (Vanadium)
W (Tungsten)
Zn (Zinc)
Zr (Zirconium)

Semi-Quantitative Standard #3

SQS-03-1 **$ 35 / 1 x 100 mL**
10 µg/mL each in 2-5% HNO_3 2 comps.

Hg (Mercury)
Ag (Silver)

■ 68 Elements in Three Mixes
■ Economical ■ Easy to Use

Screening Standard Set

SQS-1-SET **$ 308 / 3 x 100 mL**
SQS-01-1 SQS-02-1 SQS-03-1

Technical Note

To verify screening results, use single element standards to confirm and quantify the concentration.

SDWA Standards

For use in SW-846, Method 1310 and U.S. NPDWR 40CFR Part 141. The three Drinking Water Standards are used for monitoring drinking water and/or ground and surface water.

Primary Drinking Water Metals

SDWA-01-1 **$ 85 / 100 mL**
SDWA-01-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 7 comps.

As (Arsenic)	10
Ba (Barium)	100
Cd (Cadmium)	5
Cr (Chromium)	10
Pb (Lead)	10
Se (Selenium)	5
Ag (Silver)	10

Secondary Drinking Water Metals

SDWA-02-1 **$ 72 / 100 mL**
SDWA-02-5 **$ 139 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5
Zn (Zinc)	500

Mercury Solution

SDWA-03-1 **$ 34 / 100 mL**
SDWA-03-5 **$ 67 / 500 mL**
10 µg/mL in 5% HNO_3

Hg (Mercury)

Drinking Water Sets

SDWA-1-SET **$ 154 / 3 x 100 mL**
SDWA-01-1 SDWA-02-1 SDWA-03-1

SDWA-5-SET **$ 298 / 3 x 500 mL**
SDWA-01-5 SDWA-02-5 SDWA-03-5

Standards for Analytes covered in the Safe Drinking Water Act (SDWA)

Primary Metals for Analysis by ICP

Contains all approved elements
SDWA-04-1 **$ 95 / 100 mL**
SDWA-04-5 **$ 185 / 500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 9 comps.

As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Ni (Nickel)	10
Na (Sodium)	100

Primary Metals for Analysis by GFAA

Contains GFAA approved elements
SDWA-05-1 **$ 95 / 100 mL**
SDWA-05-5 **$ 185 / 500 mL**
10 µg/mL each in 2-5% HNO_3 9 comps.

Sb (Antimony)
As (Arsenic)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Pb (Lead)
Ni (Nickel)
Se (Selenium)
Tl (Thallium)

Primary Metals for Analysis by ICP-MS

Contains all approved elements
SDWA-06-MS-1 **$ 115 / 100 mL**
SDWA-06-MS-5 **$ 225 / 500 mL**
10 µg/mL each in 2% HNO_3 11 comps.

Sb (Antimony)
As (Arsenic)
Ba (Barium)
Be (Beryllium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Pb (Lead)
Ni (Nickel)
Se (Selenium)
Tl (Thallium)

Primary Metals for Analysis by GFAA/ICP/ICP-MS

SDWA-07-1 **$ 135 / 100 mL**
SDWA-07-5 **$ 264 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 tr. HF 14 comps.

Sb (Antimony)	100
As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Pb (Lead)	10
Ni (Nickel)	10
Se (Selenium)	10
Si (Silicon) †	100
Na (Sodium)	100
Tl (Thallium)	10

† 214 µg/mL as SiO_2

Secondary Metals for Analysis by GFAA/ICP/ICP-MS

SDWA-08-1 **$ 75 / 100 mL**
SDWA-08-5 **$ 146 / 500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 5 comps.

Al (Aluminum)	10
Fe (Iron)	100
Mn (Manganese)	10
Ag (Silver)	10
Zn (Zinc)	10

Primary & Secondary Metals for Analysis by GFAA/ICP/ICP-MS

Contains all Primary & Secondary Metals
SDWA-09-1 **$ 195 / 100 mL**
SDWA-09-5 **$ 370 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 19 comps.

Al (Aluminum)	10
Sb (Antimony)	100
As (Arsenic)	100
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Ca (Calcium)	100
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Pb (Lead)	10
Mn (Manganese)	10
Ni (Nickel)	10
Se (Selenium)	10
Si (Silicon) †	100
Ag (Silver)	10
Na (Sodium)	100
Tl (Thallium)	10
Zn (Zinc)	10

† 214 µg/mL as SiO_2

Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Groundwater & Wastewater Standards

Trace Metals I, II, III

Trace Metals I

WPTM-01-1 **$ 140 / 100 mL**
WPTM-01-5 **$ 273 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 15 comps.

Al (Aluminum)	500
As (Arsenic)	100
Be (Beryllium)	100
Cd (Cadmium)	25
Cr (Chromium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	100
Pb (Lead)	100
Mn (Manganese)	100
Hg (Mercury)	5
Ni (Nickel)	100
Se (Selenium)	25
V (Vanadium)	250
Zn (Zinc)	100

Trace Metals II

WPTM-02-1 **$ 64 / 100 mL**
WPTM-02-5 **$ 123 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 3 comps.

Sb (Antimony)	20
Ag (Silver)	10
Tl (Thallium)	20

Trace Metal Sets

WPTM-1-SET	**$ 230 / 3 x 100 mL**
WPTM-01-1	WPTM-03-1
WPTM-02-1	
WPTM-5-SET	**$ 445 / 3 x 500 mL**
WPTM-01-5	WPTM-03-5
WPTM-02-5	

Trace Metals III

WPTM-03-1 **$ 85 / 100 mL**
WPTM-03-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 tr. HF 6 comps.

Ba (Barium)	500
Ca (Calcium)	500
Mg (Magnesium)	100
Mo (Molybdenum)	500
K (Potassium)	100
Na (Sodium)	500

Alternate Metals for Groundwater and Wastewater Analysis

Alternate Metals I

WPAM-01-1 **$ 105 / 100 mL**
WPAM-01-5 **$ 200 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 11 comps.

Al (Aluminum)	20
Sb (Antimony)	5
Be (Beryllium)	5
Co (Cobalt)	10
Cu (Copper)	10
Fe (Iron)	20
Mn (Manganese)	10
Ni (Nickel)	10
Tl (Thallium)	5
V (Vanadium)	20
Zn (Zinc)	10

Alternate Metals III

WPAM-03-1 **$ 65 / 100 mL**
WPAM-03-5 **$ 125 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Ca (Calcium)	500
Mg (Magnesium)	100
K (Potassium)	100
Na (Sodium)	500

Alternate Trace Metal Sets

WPAM-1-SET	**$ 133 / 2 x 100 mL**
WPAM-01-1	WPAM-03-1
WPAM-5-SET	**$ 260 / 2 x 500 mL**
WPAM-01-5	WPAM-03-5

TCLP Multi-Element Calibration Standards

For use in SW-846, Method 1311 Toxicity Characteristic Leaching Procedure

TCLP Standard #1

TCLP-01-1 **$ 98 / 100 mL**
TCLP-01-5 **$ 190 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 7 comps.

As (Arsenic)	25
Ba (Barium)	500
Cd (Cadmium)	5
Cr (Chromium)	25
Pb (Lead)	25
Se (Selenium)	5
Ag (Silver)	25

TCLP Standard for ICP

TCLP-ICP-1 **$ 68 / 100 mL**
TCLP-ICP-5 **$ 132 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Ba (Barium)	500
Cd (Cadmium)	5
Cr (Chromium)	25
Ag (Silver)	25

TCLP Standard for GFAA

TCLP-GFAA-1 **$ 50 / 100 mL**
TCLP-GFAA-5 **$ 110 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 3 comps.

As (Arsenic)	25
Pb (Lead)	25
Se (Selenium)	5

TCLP Standard #2

For Mercury Analysis using ICP or Cold Vapor AA
TCLP-02-1 **$ 34 / 100 mL**
TCLP-02-5 **$ 67 / 500 mL**
20 µg/mL in 5% HNO_3

Hg (Mercury)

MISA Test Group 29 Analysis Calibration Standards

For use in MISA Test Group 29 Analysis or general use standards. Set of six standards contains 69 elements at 100 µg/mL each. Ideal for the laboratory that wants to analyze for everything.

MISA Standard 1
Rare Earth Metals
MISA-01-1 **$ 125 / 100 mL**
100 µg/mL each in 5% HNO_3 18 comps.

Ce (Cerium)
Dy (Dysprosium)
Er (Erbium)
Eu (Europium)
Gd (Gadolinium)
Ho (Holmium)
La (Lanthanum)
Lu (Lutetium)
Nd (Neodymium)
Pr (Praseodymium)
Sc (Scandium)
Sm (Samarium)
Tb (Terbium)
Th (Thorium)
Tm (Thulium)
U (Uranium)
Yb (Ytterbium)
Y (Yttrium)

MISA Standard 2
Precious Metals
MISA-02-1 **$ 125 / 100 mL**
100 µg/mL each in 10% HCl 6 comps.

Au (Gold)
Ir (Iridium)
Pd (Palladium)
Pt (Platinum)
Rh (Rhodium)
Ru (Ruthenium)

MISA Standard 3
Tellurium
MISA-03-1 **$ 34 / 100 mL**
100 µg/mL in 10% HCl

Te (Tellurium)

MISA Standard 4
Alkali, Alkaline Earth, Non-Transition Group
MISA-04-1 **$ 125 / 100 mL**
100 µg/mL each in 10% HNO_3 16 comps.

Al (Aluminum)
As (Arsenic)
Ba (Barium)
Be (Beryllium)
Bi (Bismuth)
Ca (Calcium)
Cs (Cesium)
Ga (Gallium)
In (Indium)
Li (Lithium)
Mg (Magnesium)
K (Potassium)
Rb (Rubidium)
Se (Selenium)
Na (Sodium)
Sr (Strontium)

MISA Calibration Set
MISA-1-SET **$ 525 / 6 x 100 mL**

MISA-01-1
MISA-02-1
MISA-03-1
MISA-04-1
MISA-05-1
MISA-06-1

MISA Standard 5
Fluoride Soluble Group
MISA-05-1 **$ 125 / 100 mL**
100 µg/mL each in 5% HNO_3 tr. HF 15 comps.

Sb (Antimony)
B (Boron)
Ge (Germanium)
Hf (Hafnium)
Mo (Molybdenum)
Nb (Niobium)
P (Phosphorus)
Re (Rhenium)
Si (Silicon)
S (Sulfur)
Ta (Tantalum)
Sn (Tin)
Ti (Titanium)
W (Tungsten)
Zr (Zirconium)

MISA Standard 6
Transition Metals
MISA-06-1 **$ 125 / 100 mL**
100 µg/mL each in 10% HNO_3 13 comps.

Cd (Cadmium)
Co (Cobalt)
Cu (Copper)
Cr (Chromium)
Fe (Iron)
Pb (Lead)
Mn (Manganese)
Hg (Mercury)
Ni (Nickel)
Ag (Silver)
Tl (Thallium)
V (Vanadium)
Zn (Zinc)

Calibration and Matrix Blanks

Nitric Acid Blank
CLP-BLN-5 **$ 30 / 500 mL**
CLP-BLN-L-VAP **$ 45 / 1L (2 x 500 mL)**

5% HNO_3 in 18 Megohm ASTM Type I deionized Water

Mixed Acid Blank
CLP-BLMA-5 **$ 30 / 500 mL**
CLP-BLMA-L-VAP **$ 45 / 1L (2 x 500 mL)**

5% HCl + 1% HNO_3 in 18 Megohm ASTM Type I deionized Water

Hydrochloric Acid Blank
CLP-BLH-5 **$ 30 / 500 mL**
CLP-BLH-L-VAP **$ 45 / 1L (2 x 500 mL)**

5% HCl in 18 Megohm ASTM Type I deionized Water

Water Blank
CLP-BLW-5 ▼ **$ 30 / 500 mL**
CLP-BLW-L-VAP ▼ **$ 40 / 1L (2 x 500 mL)**

18 Megohm ASTM Type I deionized Water

▼ Hazardous fee not required.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Calibration Check Standards

Calibration Standard #1
CLP-CAL-01-1 **$ 110 / 100 mL**
5000 µg/mL each in 5% HNO_3 4 comps.

Ca (Calcium)	K (Potassium)
Mg (Magnesium)	Na (Sodium)

Calibration Standard #2
CLP-CAL-02-1 **$ 75 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Cr (Chromium)	100
Mn (Manganese)	150
Ni (Nickel)	400
Ag (Silver)	100
Zn (Zinc)	200

CLP Calibration Standard Set
CLP-CAL-1-SET **$ 375 / 7 x 100 mL**

CLP-CAL-01	CLP-CAL-04	CLP-CAL-06
CLP-CAL-02	CLP-CAL-05	CLP-CAL-07
CLP-CAL-03		

Calibration Standard #3
CLP-CAL-03-1 **$ 95 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 7 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Be (Beryllium)	50
Co (Cobalt)	500
Cu (Copper)	250
Fe (Iron)	1000
V (Vanadium)	500

Calibration Standard #4
CLP-CAL-04-1 **$ 65 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

As (Arsenic)	100
Cd (Cadmium)	50
Pb (Lead)	50
Se (Selenium)	50
Tl (Thallium)	100

Calibration Standard #5
CLP-CAL-05-1 **$ 34 / 100 mL**
600 µg/mL in 2% HNO_3

Sb (Antimony)

Calibration Standard #6
CLP-CAL-06-1 **$ 34 / 100 mL**
100 µg/mL in 5% HNO_3

Hg (Mercury)

Calibration Standard #7
CLP-CAL-07-1 **$ 55 / 100 mL**
500 µg/mL each in 5% HNO_3 tr. HF 3 comps.

B (Boron)	Si (Silicon)
Mo (Molybdenum)	



Verification Standards

Initial Calibration Verification

CLP-ICV-01-1 **$ 225 / 100 mL**
CLP-ICV-01-5 **$ 445 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Al (Aluminum)	200
Sb (Antimony)	60
As (Arsenic)	10
Ba (Barium)	200
Be (Beryllium)	5
Cd (Cadmium)	5
Ca (Calcium)	5000
Cr (Chromium)	10
Co (Cobalt)	50
Cu (Copper)	25
Fe (Iron)	100
Pb (Lead)	5
Mg (Magnesium)	5000
Mn (Manganese)	15
Ni (Nickel)	40
K (Potassium)	5000
Se (Selenium)	5
Ag (Silver)	10
Na (Sodium)	5000
Tl (Thallium)	10
V (Vanadium)	50
Zn (Zinc)	20

Initial Calibration Verification

CLP-ICV-01-R-1 **$ 225 / 100 mL**
CLP-ICV-01-R-5 **$ 445 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Al (Aluminum)	200
Sb (Antimony)	60
As (Arsenic)	10
Ba (Barium)	200
Be (Beryllium)	5
Cd (Cadmium)	5
Ca (Calcium)	500
Cr (Chromium)	10
Co (Cobalt)	50
Cu (Copper)	25
Fe (Iron)	100
Pb (Lead)	5
Mg (Magnesium)	500
Mn (Manganese)	15
Ni (Nickel)	40
K (Potassium)	500
Se (Selenium)	5
Ag (Silver)	10
Na (Sodium)	500
Tl (Thallium)	10
V (Vanadium)	50
Zn (Zinc)	20

Technical Note

CLP-ICV-01-R has Ca, Mg, K & Na at 1/10 the concentration of CLP-ICV-01. This improves plasma robustness and often results in superior recoveries.

Continuing Calibration Verification

(Meets CLP QA Second Source Requirements)
CLP-CCV-01-1 **$ 225 / 100 mL**
CLP-CCV-01-5 **$ 445 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

Al (Aluminum)	1000
Ba (Barium)	1000
Be (Beryllium)	25
Ca (Calcium)	2500
Cr (Chromium)	50
Co (Cobalt)	250
Cu (Copper)	125
Fe (Iron)	500
Mg (Magnesium)	2500
Mn (Manganese)	75
Ni (Nickel)	200
K (Potassium)	2500
Ag (Silver)	50
Na (Sodium)	2500
V (Vanadium)	250
Zn (Zinc)	100

CLP-CCV-02-1 **$ 75 / 100 mL**
CLP-CCV-02-5 **$ 146 / 500 mL**
At stated conc. (µg/mL)s in 5% HNO_3 5 comps.

As (Arsenic)	50
Cd (Cadmium)	25
Pb (Lead)	25
Se (Selenium)	25
Tl (Thallium)	50

CLP-CCV-03-1 **$ 34 / 100 mL**
CLP-CCV-03-5 **$ 67 / 500 mL**
300 µg/mL in 2% HNO_3

Sb (Antimony)

Initial & Continuing Calibration Verification Sets

CLP-VER-1-SET **$ 445 / 4 x 100 mL**

CLP-ICV-01-1	CLP-CCV-02-1
CLP-CCV-01-1	CLP-CCV-03-1

CLP-VER-5-SET **$ 870 / 4 x 500 mL**

CLP-ICV-01-5	CLP-CCV-02-5
CLP-CCV-01-5	CLP-CCV-03-5

Initial & Continuing Calibration Revised Verification Sets

CLP-VER-R-1-SET **$ 445 / 4 x 100 mL**

CLP-ICV-01-R-1	CLP-CCV-02-1
CLP-CCV-01-1	CLP-CCV-03-1

CLP-VER-R-5-SET **$ 870 / 4 x 500 mL**

CLP-ICV-01-R-5	CLP-CCV-02-5
CLP-CCV-01-5	CLP-CCV-03-5

Continuing Calibration Verification Standard Sets

CLP-CCV-1-SET **$ 275 / 3 x 100 mL**

CLP-CCV-01-1	CLP-CCV-03-1
CLP-CCV-02-1	

CLP-CCV-5-SET **$ 525 / 3 x 500 mL**

CLP-CCV-01-5	CLP-CCV-03-5
CLP-CCV-02-5	

Spiking Standards

Spiking Solution

CLP-SPS-01-1 **$ 185 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 18 comps.

Al (Aluminum)	200
Sb (Antimony)	50
As (Arsenic)	200
Ba (Barium)	200
Be (Beryllium)	5
Cd (Cadmium)	5
Cr (Chromium)	20
Co (Cobalt)	50
Cu (Copper)	25
Fe (Iron)	100
Pb (Lead)	50
Mn (Manganese)	50
Ni (Nickel)	50
Se (Selenium)	200
Ag (Silver)	5
Tl (Thallium)	200
V (Vanadium)	50
Zn (Zinc)	50

CLP Soil Spiking Solution

CLP-SPS-02-1 **$ 175 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

Sb (Antimony)	100
As (Arsenic)	400
Ba (Barium)	400
Be (Beryllium)	10
Cd (Cadmium)	10
Cr (Chromium)	40
Co (Cobalt)	100
Cu (Copper)	50
Pb (Lead)	100
Mn (Manganese)	100
Ni (Nickel)	100
Se (Selenium)	400
Ag (Silver)	10
Tl (Thallium)	400
V (Vanadium)	100
Zn (Zinc)	100

Technical Note

Spiking solution CLP-SPS-01 can be used for both aqueous and solid samples. An additional spiking solution for soil as outlined in CLP SOW ILM03.0 is also available, CLP-SPS-02.

CLP Spiking Set

CLP-SPS-1-SET **$ 288 / 2 x 100 mL**

CLP-SPS-01-1	CLP-SPS-02-1

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

ICP
Contract Laboratory Program (CLP)

Interference Check & Analyte Standards

The common interferents checked for CLP requirements and their associated analytes are listed in our primary interferent analyte solutions. Occasionally, additional interferents may cause other analytical problems according to CLP SOW ILM03.0. These additional six elements are available with their respective analytes in the alternate interferent/analyte solutions.

Primary Analytes

CLP-PAN-01-1 **$ 110 / 100 mL**
CLP-PAN-01-5 **$ 225 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 12 comps.

Ag *(Silver)*	100
Ba *(Barium)*	50
Be *(Beryllium)*	50
Cd *(Cadmium)*	100
Co *(Cobalt)*	50
Cr *(Chromium)*	50
Cu *(Copper)*	50
Mn *(Manganese)*	50
Ni *(Nickel)*	100
Pb *(Lead)*	100
V *(Vanadium)*	50
Zn *(Zinc)*	100

Primary Interferents

CLP-PIN-01-1 **$ 110 / 100 mL**
CLP-PIN-01-5 **$ 215 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Fe (Iron)	2000
Mg (Magnesium)	5000

Alternate Interferents

CLP-PIN-02-1 **$ 98 / 100 mL**
CLP-PIN-02-5 **$ 185 / 500 mL**
1000 µg/mL each in 5% HNO_3 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Interferent / Analyte Sets

CLP-IA-1-SET **$ 345 / 4 x 100 mL**

CLP-PIN-01-1	CLP-PIN-02-1
CLP-PAN-01-1	CLP-PAN-02-1

CLP-IA-5-SET **$ 680 / 4 x 500 mL**

CLP-PIN-01-5	CLP-PIN-02-5
CLP-PAN-01-5	CLP-PAN-02-5

Alternate Analytes

CLP-PAN-02-1 **$ 115 / 100 mL**
CLP-PAN-02-5 **$ 225 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 12 comps.

Al (Aluminum)	100
Sb (Antimony)	100
As (Arsenic)	100
B (Boron)	100
Ca (Calcium)	10
Fe (Iron)	10
Mg (Magnesium)	10
Mo (Molybdenum)	100
Se (Selenium)	100
Si (Silicon)	10
Na (Sodium)	100
Tl (Thallium)	100

Detection Limit Standards

Contract Required Detection Limits (CRDL) Standard Solutions. We offer the flexibility of two convenient solutions:

CLP Detection Limits Standard #1

CLP-CRDL-01-1 **$ 130 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 15 comps.

Sb (Antimony)	120
As (Arsenic)	120
Be (Beryllium)	10
Cd (Cadmium)	10
Cr (Chromium)	20
Co (Cobalt)	100
Cu (Copper)	50
Pb (Lead)	120
Mn (Manganese)	30
Ni (Nickel)	80
Se (Selenium)	120
Ag (Silver)	20
Tl (Thallium)	120
V (Vanadium)	100
Zn (Zinc)	40

Contract Required Detection Limits (CRDL) Set

CLP-CRDL-1-SET **$ 205 / 2 x 100 mL**

CLP-CRDL-01	CLP-CRDL-02

Technical Note

These standards are prepared to meet the requirements of the CLP protocol; Arsenic (As), Lead (Pb), Selenium (Se) and Thallium (Tl) are at a concentration two times the instrument detection limit (IDL) while the remaining elements are at two times the CRDL.

CLP Detection Limits Standard #2

CLP-CRDL-02-1 **$ 130 / 100 mL**
At stated conc. (µg/mL) in 5% HNO_3 15 comps.

Sb (Antimony)	120
As (Arsenic)	20
Be (Beryllium)	10
Cd (Cadmium)	10
Cr (Chromium)	20
Co (Cobalt)	100
Cu (Copper)	50
Pb (Lead)	6
Mn (Manganese)	30
Ni (Nickel)	80
Se (Selenium)	10
Ag (Silver)	20
Tl (Thallium)	20
V (Vanadium)	100
Zn (Zinc)	40

Technical Note

These standards are designed for ICPs equipped with ultrasonic nebulizers and offer the elements of interest at two times the CRDL level.

SW-846, Method 200.7 & 6010 Calibration Standards

Mixed Calibration Standard #1

MCS-01-1 **$ 85 / 100 mL**
MCS-01-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 6 comps.

Be (Beryllium)	50
Cd (Cadmium)	150
Pb (Lead)	500
Mn (Manganese)	100
Se (Selenium)	200
Zn (Zinc)	150

Mixed Calibration Standard #2

MCS-02-1 **$ 85 / 100 mL**
MCS-02-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 5 comps.

Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	10,000
V (Vanadium)	100

Complete 6010B, Rev. 2, 1996 Calibration Sets

MCS-1996-1-SET **$ 385 / 7 x 100 mL**

MCS-01-1, MCS-02-1, MCS-03R-1, MCS-04R-1, MCS-05R-1, MCS-06R-1, TCLP-02-1

MCS-1996-5-SET **$ 750 / 7 x 500 mL**

MCS-01-5, MCS-02-5, MCS-03R-5, MCS-04R-5, MCS-05R-5, MCS-06R-5, TCLP-02-5

Mixed Calibration Standard #3R

MCS-03R-1 **$ 55 / 100 mL**
MCS-03R-5 **$ 107 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 tr. HF 2 comps.

As (Arsenic)	500
Mo (Molybdenum)	100

Mixed Calibration Standard #4R

MCS-04R-1 **$ 98 / 100 mL**
MCS-04R-5 **$ 191 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 8 comps.

Al (Aluminum)	200
Ca (Calcium)	1000
Cr (Chromium)	20
Li (Lithium)	100
Ni (Nickel)	20
K (Potassium)	400
Na (Sodium)	200
Sr (Strontium)	10

Technical Note

Additional Analyte Calibration Standards. The use of this Standard Solution (MCS-06R), plus a Mercury Standard (TCLP-02), completes the analyte list for the 1996 Revision 2.

Mixed Calibration Standard #5R

MCS-05R-1 **$ 76 / 100 mL**
MCS-05R-5 **$ 148 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Sb (Antimony)	200
Mg (Magnesium)	1000
Ag (Silver)	50
Tl (Thallium)	200

Mixed Calibration Standard 6R

MCS-06R-1 **$ 64 / 100 mL**
MCS-06R-5 **$ 123 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF 5 comps.

P (Phosphorus)	200
Sn (Tin)	200
Ti (Titanium)	100
B (Boron)	50
Si (Silicon) †	100

† 214 µg/mL as SiO_2

Mercury Standard

Mercury is available in a separate solution due to its incompatibility with other elements.

TCLP-02-1 **$ 34 / 100 mL**
TCLP-02-5 **$ 67 / 500 mL**
20 µg/mL in 5% HNO_3

Hg (Mercury)

Method 200.7 (Revision 4.4, May 1994) Calibration Standards

Mixed Calibration Standard #1

M-200.7-01-1 **$ 96 / 100 mL**
M-200.7-01-5 **$ 187 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 10 comps.

Sb (Antimony)	50
As (Arsenic)	100
Ba (Barium)	10
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	100
Cu (Copper)	20
Mn (Manganese)	20
Se (Selenium)	50
Ag (Silver)	5

Mixed Calibration Standard #2

M-200.7-02R-1 **$ 75 / 100 mL**
M-200.7-02R-5 **$ 135 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 6 comps.

Li (Lithium)	50
Mo (Molybdenum)	100
K (Potassium)	200
Na (Sodium)	100
Sr (Strontium)	10
Ti (Titanium)	100

Mixed Calibration Standard #3

M-200.7-03R-1 **$ 55 / 100 mL**
M-200.7-03R-5 **$ 105 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 4 comps.

Ce (Cerium)	20
Co (Cobalt)	20
P (Phosphorus)	100
V (Vanadium)	20

Mixed Calibration Standard #4

M-200.7-04-1 **$ 69 / 100 mL**
M-200.7-04-5 **$ 134 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 5 comps.

Al (Aluminum)	100
Cr (Chromium)	50
Si (Silicon) †	100
Sn (Tin)	40
Zn (Zinc)	50

† 214 µg/mL as SiO_2

Mixed Calibration Standard #5

M-200.7-05-1 **$ 69 / 100 mL**
M-200.7-05-5 **$ 134 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Be (Beryllium)	10
Fe (Iron)	100
Pb (Lead)	100
Mg (Magnesium)	100
Ni (Nickel)	20
Tl (Thallium)	50

Mixed Calibration Standards Sets

M-200.7-R-1-SET **$ 280 / 5 x 100 mL**

M-200.7-01-1, M-200.7-02R-1, M-200.7-03R-1, M-200.7-04-1, M-200.7-05-1

M-200.7-5-R-5-SET **$ 545 / 5 x 500 mL**

M-200.7-01-5, M-200.7-02R-5, M-200.7-03-5R, M-200.7-04-5, M-200.7-05-5

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 200.7 Instrument Performance Standards

Instrument Performance Check Standard #1

M-200.7-IPC-01-1 **$ 210 / 100 mL**
M-200.7-IPC-01-5 **$ 430 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 26 comps.

Al (Aluminum)	20	Li (Lithium)	20
As (Arsenic)	20	Mg (Magnesium)	20
Ba (Barium)	20	Mn (Manganese)	20
Be (Beryllium)	20	Ni (Nickel)	20
B (Boron)	20	P (Phosphorus)	100
Cd (Cadmium)	20	K (Potassium)	100
Ca (Calcium)	20	Se (Selenium)	20
Ce (Cerium)	20	Ag (Silver)	2.5
Cr (Chromium)	20	Na (Sodium)	20
Co (Cobalt)	20	Sr (Strontium)	20
Cu (Copper)	20	Tl (Thallium)	20
Fe (Iron)	20	V (Vanadium)	20
Pb (Lead)	20	Zn (Zinc)	20

Instrument Performance Check Standard #2

M-200.7-IPC-02-1 **$ 70 / 100 mL**
M-200.7-IPC-02-5 **$ 135 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 5 comps.

Sb (Antimony)	20
Mo (Molybdenum)	20
Si (Silicon) †	100
Sn (Tin)	20
Ti (Titanium)	20

† 214 µg/mL as SiO_2

Method 200.7 Performance Check, Fortifying Solution & Mercury Standard

Laboratory Performance Check Standard

For use in demonstrating the initial and continuing verification of the calibration curves produced by this method.

LPCS-01-1 **$ 220 / 100 mL**
LPCS-01-5 **$ 440 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 29 comps.

Al (Aluminum)	20
Sb (Antimony)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Ni (Nickel)	20
P (Phosphorus)	100
K (Potassium)	100
Se (Selenium)	20
Si (Silicon) †	100
Ag (Silver)	5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
Sn (Tin)	20
V (Vanadium)	20
Zn (Zinc)	20

† 214 µg/mL as SiO_2

Laboratory Fortifying Stock Solution

For use in preparing the laboratory fortified blank and the laboratory fortified sample matrix.

LFSS-01-1 **$ 195 / 100 mL**
LFSS-01-5 **$ 380 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 25 comps.

Al (Aluminum)	25
Sb (Antimony)	25
As (Arsenic)	25
Ba (Barium)	25
Be (Beryllium)	5
B (Boron)	25
Cd (Cadmium)	10
Cr (Chromium)	25
Co (Cobalt)	10
Cu (Copper)	25
Fe (Iron)	25
Pb (Lead)	25
Li (Lithium)	25
Mn (Manganese)	25
Mo (Molybdenum)	10
Ni (Nickel)	25
P (Phosphorus)	50
Se (Selenium)	25
Si (Silicon) †	25
Ag (Silver)	2.5
Sr (Strontium)	25
Tl (Thallium)	25
Sn (Tin)	10
V (Vanadium)	10
Zn (Zinc)	25

† 53.5 µg/mL as SiO_2

Technical Note

The analytes Ca, K, Mg, and Na are not included in the stock solution because their concentrations vary widely in environmental samples.

Mercury Standard

Mercury is available in a separate solution due to incompatibility with other elements.

TCLP-02-1 **$ 34 / 100 mL**
TCLP-02-5 **$ 67 / 500 mL**
20 µg/mL in 5% HNO_3

Hg (Mercury)

Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

Method 200.7 Fortifying (Spiking & Instrument Performance Standards)

These Standards have been split for stability and ease of use. Choose the Instrument Fortifying Standard you require for Part 1 & use with Part 2 to complete the analyte list. For Lab Fortified Blank use M-200.7-LFSS-01, for Water Samples use M-200.7-LFSS-01W, and for Solid Samples use M-200.7-LFSS-01S.

Part 1

Instrument Fortifying Standard

M-200.7-LFSS-01-1 **$ 200 / 100 mL**
M-200.7-LFSS-01-5 **$ 390 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 26 comps.

Al (Aluminum)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Ce (Cerium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Ni (Nickel)	20
P (Phosphorus)	20
K (Potassium)	500
Se (Selenium)	20
Ag (Silver)	7.5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Instrument Fortifying Standard for Water

M-200.7-LFSS-01W-1 **$ 195 / 100 mL**
M-200.7-LFSS-01W-5 **$ 380 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Al (Aluminum)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ce (Cerium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mn (Manganese)	20
Ni (Nickel)	20
P (Phosphorus)	20
K (Potassium)	500
Se (Selenium)	20
Ag (Silver)	7.5
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Instrument Fortifying Standard for Solids

M-200.7-LFSS-01S-1 **$ 200 / 100 mL**
M-200.7-LFSS-01S-5 **$ 390 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 24 comps.

As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Ce (Cerium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Ni (Nickel)	20
P (Phosphorus)	20
K (Potassium)	500
Se (Selenium)	20
Ag (Silver)	7.5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

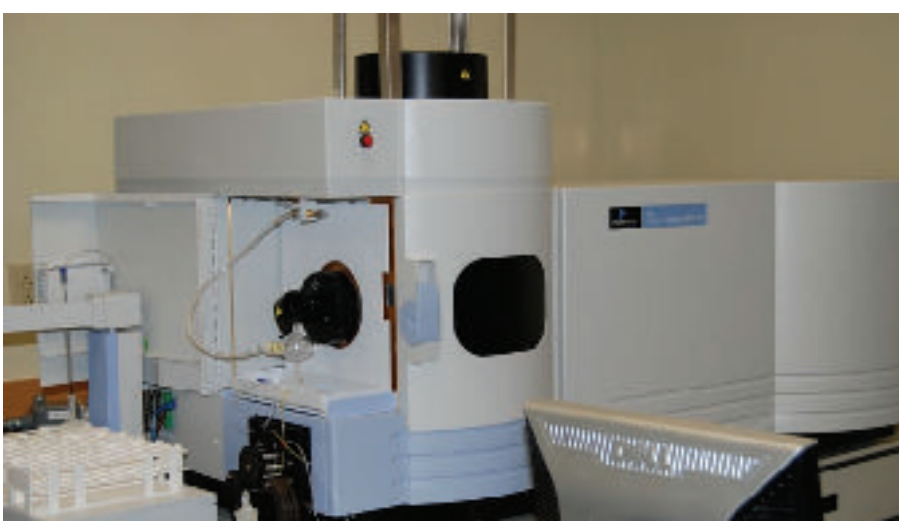
Part 2

Instrument Fortifying Standard #2

M-200.7-LFSS-02-1 **$ 60 / 100 mL**
M-200.7-LFSS-02-5 **$ 120 / 500 mL**
20 µg/mL each in 5% HNO_3 tr. HF 5 comps.

Sb (Antimony)	Sn (Tin)
Mo (Molybdenum)	Ti (Titanium)
Si (Silicon) †	

† 42.78 µg/mL as SiO_2



AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 200.7 Spiking Solutions for Drinking Water

Spiking Standard #1R
M-200.7-SP-01-R ▼ **$ 50 / 50 mL**
At stated conc. (µg/mL) in H_2O tr. HF 4 comps.

B (Boron)	400
Mo (Molybdenum)	200
Si (Silicon) †	2000
P (Phosphorus)	400

† 4278 µg/mL SiO_2

Spiking Standard #2R
M-200.7-SP-02-R **$ 70 / 50 mL**
M-200.7-SP-02-R-1 **$ 135 / 100 mL**
M-200.7-SP-02-R-5 **$ 550 / 500 mL**
10,000 µg/mL each in in 2% HNO_3 4 comps.

Ca (Calcium)	K (Potassium)
Mg (Magnesium)	Na (Sodium)

Spiking Standard #3
M-200.7-SP-03 **$ 95 / 50 mL**
At stated conc. (µg/mL) in 5% HNO_3 12 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Be (Beryllium)	50
Cr (Chromium)	200
Co (Cobalt)	500
Cu (Copper)	250
Fe (Iron)	1000
Mn (Manganese)	500
Ni (Nickel)	500
Ag (Silver)	50
V (Vanadium)	500
Zn (Zinc)	500

Method 200.7 Spiking Set
M-200.7-SP-R-SET **$ 225 / 5 x 50 mL**
M-200.7-SP-01-R
M-200.7-SP-02-R
M-200.7-SP-03
M-200.7-SP-04-R
M-200.7-SP-05-R

Spiking Standard #4R
M-200.7-SP-04-R **$ 20 / 50 mL**
200 µg/mL in dilute HNO_3

Sb (Antimony)

Spiking Standard #5R
M-200.7-SP-05-R **$ 55 / 50 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

As (Arsenic)	200
Cd (Cadmium)	100
Pb (Lead)	200
Se (Selenium)	400
Tl (Thallium)	400

Method 200.7 Interference Check Standards

For use in testing and verifying the inter-element spectral correction process.

SIC Solution #1
Used to evaluate the spectral interference for the analytes: Al, Sb, Se, Sn, V
SICS-01-1 **$ 34 / 100 mL**
SICS-01-5 **$ 67 / 500 mL**
50 µg/mL in 2% HNO_3 tr. HF

Mo (Molybdenum)

Check Solutions Sets
SIC-1-SET **$ 120 / 3 x 100 mL**
SICS-01-1
SICS-02-1
SICS-03-1

SIC-5-SET **$ 230 / 3 x 500 mL**
SICS-01-5
SICS-02-5
SICS-03-5

SIC Solution #2
Used to evaluate the spectral interference for the analytes: Sb, Pb, Zn, Mo, As, Be
SICS-02-1 **$ 61 / 100 mL**
SICS-02-5 **$ 119 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 5 comps.

Cr (Chromium)	20
Co (Cobalt)	10
Cu (Copper)	40
Mn (Manganese)	20
V (Vanadium)	10

SIC Solution #3
Used to evaluate the spectral interference for the analytes: Sb, Zn, As, Ag, Cr, Mn, V
SICS-03-1 **$ 52 / 100 mL**
SICS-03-5 **$ 102 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 3 comps.

Al (Aluminum)	30
Fe (Iron)	150
Ni (Nickel)	20

Since everyone experiences different interference problems in their analysis, it is often easiest to design standards to match the "real world" samples. Below is a set of single element standards that can be used for making these standards in your lab.

Spectral Interference Check Set
Single Elements
SIC-SING-1-SET **$ 240 / 9 x 100 mL**
Each at 1,000 µg/mL in HNO_3

Al (Aluminum)	Mn (Manganese)
Cr (Chromium)	Mo (Molybdenum)
Co (Cobalt)	Ni (Nickel)
Cu (Copper)	V (Vanadium)
Fe (Iron)	

▼ Hazardous fee not required.

Method 6010B (Revision 2, from SW-846) Calibration Standards

Mixed Calibration Standard #1

MCS-01-1 **$ 85 / 100 mL**
MCS-01-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 6 comps.

Be (Beryllium)	50
Cd (Cadmium)	150
Pb (Lead)	500
Mn (Manganese)	100
Se (Selenium)	200
Zn (Zinc)	150

Mixed Calibration Standard #2

MCS-02-1 **$ 85 / 100 mL**
MCS-02-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 5 comps.

Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
Fe (Iron)	10,000
V (Vanadium)	100

Complete 6010B, Rev. 2, 1996 Calibration Set

MCS-1996-1-SET **$ 385 / 7 x 100 mL**

MCS-01-1 MCS-04R-1 MCS-06R-1
MCS-02-1 MCS-05R-1 TCLP-02-1
MCS-03R-1

MCS-1996-5-SET **$ 750 / 7 x 500 mL**

MCS-01-5 MCS-04R-5 MCS-06R-5
MCS-02-5 MCS-05R-5 TCLP-02-5
MCS-03R-5

Mixed Calibration Standard #3R

MCS-03R-1 **$ 55 / 100 mL**
MCS-03R-5 **$ 107 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 tr. HF 2 comps.

As (Arsenic)	500
Mo (Molybdenum)	100

Mixed Calibration Standard #4R

MCS-04R-1 **$ 98 / 100 mL**
MCS-04R-5 **$ 191 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 8 comps.

Al (Aluminum)	200
Ca (Calcium)	1000
Cr (Chromium)	20
Li (Lithium)	100
Ni (Nickel)	20
K (Potassium)	400
Na (Sodium)	200
Sr (Strontium)	10

Technical Note

Additional Analyte Calibration Standards. The use of this Standard Solution (MCS-06R), plus a Mercury Standard (TCLP-02), completes the analyte list for the 1996 Revision 2.

Mixed Calibration Standard #5R

MCS-05R-1 **$ 76 / 100 mL**
MCS-05R-5 **$ 148 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Sb (Antimony)	200
Mg (Magnesium)	1000
Ag (Silver)	50
Tl (Thallium)	200

Mixed Calibration Standard 6R

MCS-06R-1 **$ 64 / 100 mL**
MCS-06R-5 **$ 123 / 500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3, tr. HF 5 comps.

P (Phosphorus)	200
Sn (Tin)	200
Ti (Titanium)	100
B (Boron)	50
Si (Silicon) †	100

† 214 µg/mL as SiO_2

Mercury Standard

Mercury is available in a separate solution due to its incompatibility with other elements.
TCLP-02-1 **$ 34 / 100 mL**
TCLP-02-5 **$ 67 / 500 mL**
20 µg/mL in 5% HNO_3

Hg (Mercury)

Method 6010B Spiking Standards

Three convenient solutions that can be used for spiking samples pre- or post- digestion.

Spiking Standard #1

QCS-01-1 **$ 182 / 100 mL**
QCS-01-5 **$ 354 / 500 mL**
100 µg/mL each in 5% HNO_3 tr. HF 23 comps.

Sb (Antimony)	Mn (Manganese)
As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Cd (Cadmium)	P (Phosphorus)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Sn (Tin)
Fe (Iron)	Ti (Titanium)
Pb (Lead)	V (Vanadium)
Li (Lithium)	Zn (Zinc)
Mg (Magnesium)	

Spiking Standard #2

QCS-02-1 **$ 89 / 100 mL**
QCS-02-5 **$ 174 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 7 comps.

Al (Aluminum)	100
Ba (Barium)	100
B (Boron)	100
K (Potassium)	1000
Si (Silicon) †	500
Ag (Silver)	50
Na (Sodium)	100

† 1070 µg/mL as SiO_2

QC Standard #2R

QCS-02-R1-1 **$ 89 / 100 mL**
QCS-02-R1-5 **$ 174 / 500 mL**
100 µg/mL each in 5% HNO_3 tr. HF 7 comps.

Al (Aluminum)	Ag (Silver)
Ba (Barium)	Na (Sodium)
B (Boron)	† 214 µg/mL as SiO_2
K (Potassium)	
Si (Silicon) †	

Mercury Standard

Mercury is available in a separate solution due to incompatibility with other elements.
TCLP-02-1 **$ 34 / 100 mL**
TCLP-02-5 **$ 67 / 500 mL**
20 µg/mL in 5% HNO_3

Hg (Mercury)

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Method 6010B (Revision 2 from SW-846, Dec. 1996) Performance and Interference Check Standards

Laboratory Performance Check Standard

LPCS-01R-1 **$ 230 / 100 mL**
LPCS-01R-5 **$ 450 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 30 comps.

Al (Aluminum)	20
Sb (Antimony)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
B (Boron)	20
Cd (Cadmium)	20
Ca (Calcium)	20
Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Fe (Iron)	20
Pb (Lead)	20
Li (Lithium)	20
Mg (Magnesium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Ni (Nickel)	20
P (Phosphorous)	100
K (Potassium)	100
Se (Selenium)	20
Si (Silicon) †	100
Ag (Silver)	5
Na (Sodium)	20
Sr (Strontium)	20
Tl (Thallium)	20
Sn (Tin)	20
Ti (Titanium)	20
V (Vanadium)	20
Zn (Zinc)	20

† 214 µg/mL as SiO_2

Primary Interferents

CLP-PIN-01-1 **$ 110 / 100 mL**
CLP-PIN-01-5 **$ 215 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Fe (Iron)	2000
Mg (Magnesium)	5000

Alternate Interferents

CLP-PIN-02-1 **$ 98 / 100 mL**
CLP-PIN-02-5 **$ 225 / 500 mL**
1000 µg/mL each in 5% HNO_3 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Interference Set

SIC-SING-R-1-SET **$300 / set of 10 x 100 mL**
10 individual single element standards at 1,000 µg/mL in HNO_3

Al (Aluminum)	Mg (Magnesium)
Ca (Calcium)	Mn (Manganese)
Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	V (Vanadium)

Technical Note

Because interference problems are dependent on the types of sample matrices encountered - it is often easier to create your own set of matrix matching interference check solutions. Therefore, we are offering a set of single element solutions to be used for that purpose.

If you would like us to formulate an interference check solution to meet your needs, please call our Inorganic Technical Service Department for a custom quotation.

Set-up Solutions

Nebulizer Adjustment Solution

ICP-69N-1 **$ 34 / 100 mL**
1000 µg/mL in HNO_3

Y (Yttrium)

Method 6010 (Revision 0, Sept. 1986) Interference Check Standards

Four standard mixtures are available for interference checks in SW-846, Method 6010 (Rev. 0, Sept. 1986) and Method 200.7.

Interference Check Standard #1

INT-01-1 **$ 242 / 100 mL**
INT-01-5 **$ 472 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 17 comps.

As (Arsenic)	1000
Ba (Barium)	300
Be (Beryllium)	100
Cd (Cadmium)	300
Cr (Chromium)	300
Co (Cobalt)	300
Cu (Copper)	300
Pb (Lead)	1000
Mn (Manganese)	200
Hg (Mercury)	50
Ni (Nickel)	300
K (Potassium)	20,000
Se (Selenium)	500
Ag (Silver)	300
Tl (Thallium)	1000
V (Vanadium)	300
Zn (Zinc)	300

Interference Check Standard #2

INT-02-1 **$ 85 / 100 mL**
INT-02-5 **$ 165 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 4 comps.

B (Boron)	500
Mo (Molybdenum)	300
Si (Silicon)	200
Ti (Titanium)	1000

Interference Check Standard #3

INT-03-1 **$ 34 / 100 mL**
INT-03-5 **$ 67 / 500 mL**
500 µg/mL in 2% HNO_3, tr. Tartaric acid

Sb (Antimony)

Interference Check Standard #4

INT-04-1 **$ 115 / 100 mL**
INT-04-5 **$ 225 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Al (Aluminum)	1200
Ca (Calcium)	6000
Fe (Iron)	5000
Mg (Magnesium)	3000
Na (Sodium)	1000

Interference Check Standards Sets

INT-1986-1-SET **$ 385 / 4 x 100 mL**

INT-01-1	INT-03-1
INT-02-1	INT-04-1

INT-1986-5-SET **$ 765 / 4 x 500 mL**

INT-01-5	INT-03-5
INT-02-5	INT-04-5

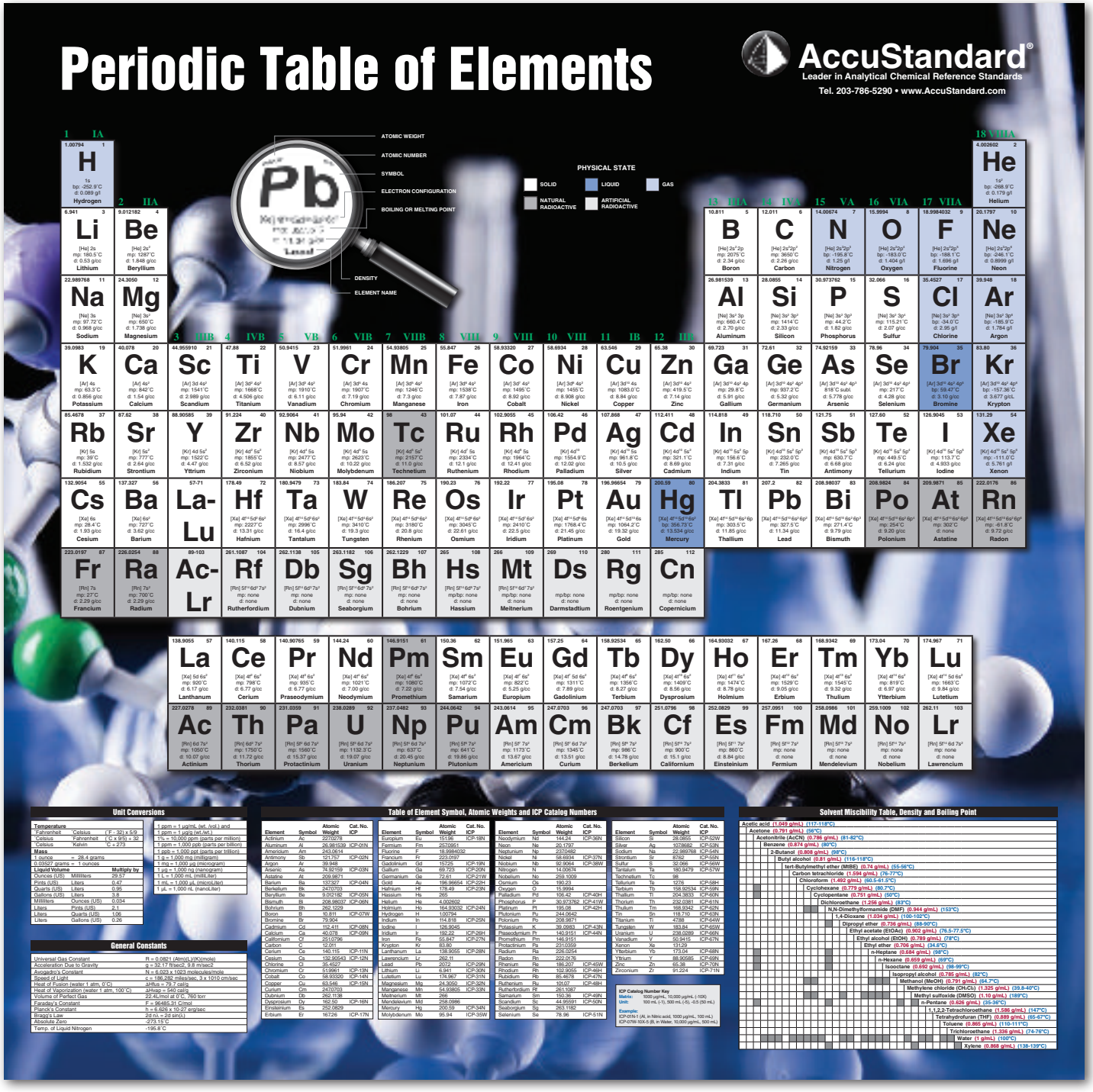
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(20 x 20 inch laminated poster)

With references, such as unit conversions, general constants, element symbols, atomic weights and solvent miscibility table with densities and boiling points.

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*** Please request when ordering.**



ICP
Alternate Source

AccuStandard has received many requests for the following multi-element standards. We offer our own version of these popular mixes offered by Merck. Products are made to the same specifications as other mixes in our product line and subject to the same rigorous quality control.

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution I

MES-01-1 $ 176 / 100 mL
MES-01-5 $ 343 / 500 mL
At stated conc. (µg/mL) in 1 mol/L HNO_3 19 comps.

Ag (Silver)	50
Al (Aluminum)	100
B (Boron)	15
Ba (Barium)	5
Be (Beryllium)	1
Bi (Bismuth)	200
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	25
Cu (Copper)	20
Fe (Iron)	15
Ga (Gallium)	150
In (Indium)	200
Mn (Manganese)	5
Ni (Nickel)	50
Pb (Lead)	200
Sr (Strontium)	1
Tl (Thallium)	400
Zn (Zinc)	20

ICP Multi-Element Standard Solution II

MES-02-1 $ 109 / 100 mL
MES-02-5 $ 214 / 500 mL
At stated conc. (µg/mL) in 1 mol/L HNO_3 3 comps.

Li (Lithium)	250
K (Potassium)	10,000
Na (Sodium)	1000

ICP Multi-Element Standard Solution III

MES-03-1 $ 109 / 100 mL
MES-03-5 $ 214 / 500 mL
1000 µg/mL each in 1 mol/L HNO_3 4 comps.

Ba (Barium)	Mg (Magnesium)
Ca (Calcium)	Sr (Strontium)

ICP Multi-Element Standard Solution IV

MES-04-1 $ 227 / 100 mL
MES-04-5 $ 681 / 500 mL
1000 µg/mL each in 1 mol/L HNO_3 23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Ca (Calcium)	Na (Sodium)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Pb (Lead)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

ICP Multi-Element Standard Solution V

MES-05-1-SET $200 / 2x100 mL
MES-05-5-SET $390 / 2x500 mL
At stated conc. (µg/mL) in 2-10% HCl 26 comps.

MES-05

Al (Aluminum)	20
As (Arsenic)	20
B (Boron)	2
Ba (Barium)	2
Be (Beryllium)	1
Ca (Calcium)	10
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Fe (Iron)	2
K (Potassium)	100
Li (Lithium)	2
Mg (Magnesium)	1
Mn (Manganese)	1
Na (Sodium)	20
Ni (Nickel)	5
P (Phosphorus)	10
Pb (Lead)	20
Sc (Scandium)	1
Se (Selenium)	20
Sr (Strontium)	1
Te (Tellurium)	20
Ti (Titanium)	2
Y (Yttrium)	1
Zn (Zinc)	2

MES-05-HG
5% HNO_3
Hg (Mercury) 5
Supplied separately for better stability

ICP Multi-Element Standard Solution VI for MS

MES-06-1-SET $ 230 / 100 mL
MES-06-5-SET $ 450 / 500 mL
At stated conc. (µg/mL) in 1 mol/L HNO_3 tr. HF 30 comps.

Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	100
B (Boron)	100
Ba (Barium)	10
Be (Beryllium)	100
Bi (Bismuth)	10
Ca (Calcium)	1000
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	100
Ga (Gallium)	10
K (Potassium)	10
Li (Lithium)	10
Mg (Magnesium)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Na (Sodium)	10
Ni (Nickel)	10
Pb (Lead)	10
Rb (Rubidium)	10
Se (Selenium)	100
Sr (Strontium)	10
Tl (Thallium)	10
U (Uranium)	10
V (Vanadium)	10
Zn (Zinc)	100

MES-06-TE
Te (Tellurium) 10
supplied separately for better stability in 10% HCl

ICP Multi-Element Standard Solution VII

MES-07-1 ▼ $ 188 / 100 mL
MES-07-5 ▼ $ 367 / 500 mL
100 µg/mL each in Water tr. HNO_3 9 comps.

NH_4 (Ammonium)	Mn (Manganese)
Ba (Barium)	Na (Sodium)
Ca (Calcium)	Sr (Strontium)
K (Potassium)	
Li (Lithium)	
Mg (Magnesium)	

AccuStandard is not affiliated with the companies and brands on this page, and the brands and company names appear for the purpose of cross reference with the corresponding AccuStandard product which is being offered.

ICP Multi-Element Standard Solution VIII

MES-08-1-SET $ 190 / 2x100 mL
MES-08-5-SET $ 371 / 2x500 mL
100 µg/mL each in 1 mol/L HNO_3 24 comps.

MES-08

Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Mn (Manganese)
Bi (Bismuth)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cd (Cadmium)	Pb (Lead)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

MES-08-TE
10% HCl
Te (Tellurium)
supplied separately for better stability

ICP Multi-Element Standard Solution IX

MES-09-1-SET $ 102 / 2x100 mL
MES-09-5-SET $ 199 / 2x500 mL
100 µg/mL each in 1 mol/L HNO_3 8 comps.

MES-09

As (Arsenic)	Ni (Nickel)
Be (Beryllium)	Se (Selenium)
Pb (Lead)	Tl (Thallium)
Cr (Chromium)	

MES-09-HG
Hg (Mercury)
supplied separately for better stability.

ICP Multi-Element Standard Solution X

MES-10-1 $ 200 / 100 mL
MES-10-5 $ 390 / 500 mL
At stated conc. (µg/mL) in 1 mol/L HNO_3 23 comps.

Ca (Calcium)	3500
Mg (Magnesium)	1500
Na (Sodium)	800
K (Potassium)	300
B (Boron)	10
Fe (Iron)	10
Mo (Molybdenum)	10
Sr (Strontium)	10
As (Arsenic)	5
Ba (Barium)	5
Ni (Nickel)	5
V (Vanadium)	5
Zn (Zinc)	5
Mn (Manganese)	3
Co (Cobalt)	2.5
Pb (Lead)	2.5
Be (Beryllium)	2
Cd (Cadmium)	2
Cr (Chromium)	2
Cu (Copper)	2
Bi (Bismuth)	1
Se (Selenium)	1
Tl (Thallium)	1

ICP Multi-Element Standard Solution XI

MES-11-1-SET $ 114 / 2x100 mL
MES-11-5-SET $ 222 / 2x500 mL
At stated conc. (µg/mL) in 1 mol/L HNO_3 6 comps.

MES-11

Cd (Cadmium)	10
Cr (Chromium)	900
Cu (Copper)	800
Ni (Nickel)	200
Pb (Lead)	900
Zn (Zinc)	2500

MES-11-HG
Hg (Mercury) 8
supplied separately for better product stability

▼ Hazardous fee not required.

AccuStandard equivalent of Merck Multi-Element Standards

ICP Multi-Element Standard Solution XII

MES-12-1-SET $ 131 / 2x100 mL
MES-12-5-SET $ 255 / 2x500 mL
1000 µg/mL each in 5% HCl tr. HNO_3 7 comps.

MES-12-R1

As (Arsenic)	Si (Silicon)
Mo (Molybdenum)	W (Tungsten)
P (Phosphorus)	V (Vanadium)
S (Sulfur)	

MES-12-ZR
Zr (Zirconium)
supplied separately for better product stability

ICP Multi-Element Standard Solution XIII

MES-13-1-SET $ 135 / 2x100 mL
MES-13-5-SET $ 264 / 2x500 mL
At stated conc. (µg/mL) in 5% HNO_3 15 comps.

MES-13

Al (Aluminum)	500
As (Arsenic)	100
Be (Beryllium)	100
Cd (Cadmium)	25
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Se (Selenium)	25
V (Vanadium)	250
Zn (Zinc)	100

MES-13-HG
Hg (Mercury) 5
supplied separately for better stability

ICP Multi-Element Standard Solution XIV

MES-14-1 $ 104 / 100 mL
MES-14-5 $ 202 / 500 mL
At stated conc. (µg/mL) in 2% HCl tr. HNO_3 11 comps.

P (Phosphorus)	100
S (Sulfur)	100
K (Potassium)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mo (Molybdenum)	20
Mn (Manganese)	20
Ni (Nickel)	20
Sc (Scandium)	20
Na (Sodium)	20

ICP Multi-Element Standard Solution XV

MES-15-1 $ 76 / 100 mL
MES-15-5 $ 148 / 500 mL
At stated conc. (µg/mL) in 2% HNO_3 8 comps.

Element	µg/mL
Ba (Barium)	1
Ca (Calcium)	1
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10

ICP Multi-Element Standard Solution XVI

MES-16-1 $ 190 / 100 mL
MES-16-5 $ 370 / 500 mL
100 µg/mL each in 5% HNO_3 tr. HF 21 comps.

Sb (Antimony)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Be (Beryllium)	Mo (Molybdenum)
Cd (Cadmium)	Ni (Nickel)
Ca (Calcium)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Co (Cobalt)	Tl (Thallium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	V (Vanadium)
Pb (Lead)	Zn (Zinc)
Li (Lithium)	

ICP Multi-Element Standard Solution XVII

MES-17-1 $ 102 / 100 mL
MES-17-5 $ 199 / 500 mL
100 µg/mL each in in 15% HCl tr. HNO_3 7 comps.

Hf (Hafnium)	Ta (Tantalum)
Ir (Iridium)	Ti (Titanium)
Sb (Antimony)	Zr (Zirconium)
Sn (Tin)	

ICP Multi-Element GF AAS Standard Solution XVIII

MES-18-R1-1 $ 135 / 100 mL
MES-18-R1-5 $ 263 / 500 mL
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

Ag (Silver)	10
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	50
Be (Beryllium)	5
Cd (Cadmium)	5
Co (Cobalt)	50
Cr (Chromium)	20
Cu (Copper)	50
Fe (Iron)	20
Mn (Manganese)	20
Ni (Nickel)	50
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100

ICP Multi-Element Standard Solution XIX for MS

MES-19-1 $ 86 / 100 mL
MES-19-5 $ 168 / 500 mL
1 µg/mL each in 1% HNO_3 5 comps.

Be (Beryllium)	Tl (Thallium)
Co (Cobalt)	U (Uranium)
In (Indium)	

ICP Multi-Element Standard Solution XX for MS

MES-20-1 $ 95 / 100 mL
MES-20-5 $ 185 / 500 mL
1 µg/mL each in 1% HNO_3 tr. HCl 11 comps.

Mg (Magnesium)	Tl (Thallium)
Cu (Copper)	Ce (Cerium)
Cd (Cadmium)	Ge (Germanium)
Pb (Lead)	Tb (Terbium)
Sc (Scandium)	Ba (Barium)
Rh (Rhodium)	

ICP Multi-Element Standard Solution XXI for MS

MES-21-1-SET $ 180 / 2x100 mL
MES-21-5-SET $ 350 / 2x500 mL
10 µg/mL each in 5% HNO_3 30 comps.

MES-21

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
As (Arsenic)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Mn (Manganese)
Bi (Bismuth)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cd (Cadmium)	Pb (Lead)
Co (Cobalt)	Rb (Rubidium)
Cr (Chromium)	Se (Selenium)
Cs (Cesium)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	U (Uranium)
	Zn (Zinc)

MES-21-HG
Hg (Mercury) 10
supplied separately for better product stability

ICP Multi-Element Standard Solution XXII for MS

MES-22-1 $ 70 / 100 mL
MES-22-5 $ 137 / 500 mL
2 µg/mL each in 2% HNO_3 5 comps.

Cd (Cadmium)	Pb (Lead)
Cu (Copper)	Rh (Rhodium)
Mg (Magnesium)	

NEW

ICP Multi-Element Standard Solution XXIII for MS

MES-23-1 $ 135 / 100 mL
MES-23-5 $ 264 / 500 mL
1 µg/mL each in 5% HNO_3 15 comps.

Ba (Barium)	Lu (Lutetium)
B (Boron)	Na (Sodium)
Co (Cobalt)	Rh (Rhodium)
Fe (Iron)	Sc (Scandium)
Ga (Gallium)	Tl (Thallium)
In (Indium)	U (Uranium)
K (Potassium)	Y (Yttrium)
Li (Lithium)	

NEW

ICP Multi-Element Standard Solution XXIV

MES-24-1 $ 135 / 100 mL
MES-24-5 $ 264 / 500 mL
At stated conc. (µg/mL) in 1% HNO_3 15 comps.

Al (Aluminum)	50
As (Arsenic)	50
Ba (Barium)	50
Cd (Cadmium)	50
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
K (Potassium)	500
Mn (Manganese)	50
Mo (Molybdenum)	50
Ni (Nickel)	50
Pb (Lead)	50
Se (Selenium)	50
Sr (Strontium)	50
Zn (Zinc)	50

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AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

AccuStandard offers calibration and testing standards for individual instruments. The Alternate Source Line (ASL) formulations match product from:

■ **Agilent / Varian** ■ **JY (Jobin Yvon)** ■ **Perkin Elmer (PE)** ■ **Teledyne (Leeman Labs)**

All of these products have been carefully formulated to be used for specific instrument setup and verification.

AccuStandard equivalent of Agilent / Varian Calibration Solutions

ICP-OES Wavelength Calibration Solution

WAVE-CAL-1 **$ 135 / 100 mL**
WAVE-CAL-5 **$ 264 / 500 mL**
WAVE-CAL-10X-1 **$ 135 / 100 mL**
WAVE-CAL-10X-5 **$ 264 / 500 mL**
At stated conc. (µg/mL) in 1% HNO_3 15 comps.

	CAL	CAL-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mn (Manganese)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Se (Selenium)	5	50
Sr (Strontium)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

ICP-OES Calibration Solution

WAVE-CAL2-1 **$ 125 / 100 mL**
WAVE-CAL2-5 **$ 245 / 500 mL**
WAVE-CAL2-10X-1 **$ 125 / 100 mL**
WAVE-CAL2-10X-5 **$ 245 / 500 mL**
At stated conc. (µg/mL) in 1% HNO_3 14 comps.

	CAL2	CAL2-10X
Al (Aluminum)	5	50
As (Arsenic)	5	50
Ba (Barium)	5	50
Cd (Cadmium)	5	50
Co (Cobalt)	5	50
Cr (Chromium)	5	50
Cu (Copper)	5	50
Mo (Molybdenum)	5	50
Ni (Nickel)	5	50
Pb (Lead)	5	50
Sr (Strontium)	5	50
P (Phosphorus)	5	50
Zn (Zinc)	5	50
K (Potassium)	50	500

NEW

ICP/MS Tuning Solution

VAR-TUN-ASL-1 **$ 105 / 100 mL**
VAR-TUN-ASL-5 **$ 204 / 500 mL**
10 µg/mL each in 2-5% HNO_3 8 comps.

Be (Beryllium)
Mg (Magnesium)
Co (Cobalt)
In (Indium)
Pb (Lead)
Th (Thorium)
Ba (Barium)
Ce (Cerium)



AccuStandard equivalent of Agilent / Varian Solutions NEW

7500 Series PA Tuning 1

AG-TUN1-ASL-1 **$ 205 / 100 mL**
AG-TUN1-ASL-5 **$ 398 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 26 comps.

Zn (Zinc)	20
Be (Beryllium)	20
Cd (Cadmium)	20
As (Arsenic)	20
Ni (Nickel)	10
Pb (Lead)	10
Mg (Magnesium)	10
Tl (Thallium)	5
Na (Sodium)	5
Al (Aluminum)	5
U (Uranium)	5
Cu (Copper)	5
Th (Thorium)	5
Ba (Barium)	5
Co (Cobalt)	5
Sr (Strontium)	5
V (Vanadium)	5
Cr (Chromium)	5
Mn (Manganese)	5
Li-6 (Lithium-6)	5
Sc (Scandium)	5
In (Indium)	5
Lu (Lutetium)	5
Bi (Bismuth)	5
Y (Yttrium)	2.5
Yb (Ytterbium)	2.5

7500 Series PA Tuning 2

AG-TUN2-ASL-1 **$ 95 / 100 mL**
AG-TUN2-ASL-5 **$ 185 / 500 mL**
At stated conc. (µg/mL) in 10% HCl, 1% HNO_3 tr. HF 8 comps.

Mo (Molybdenum)	10
Sb (Antimony)	10
Sn (Tin)	10
Ge (Germanium)	10
Ru (Ruthenium)	10
Pd (Palladium)	10
Ti (Titanium)	5
Ir (Iridium)	5

Tuning Solution Sets

AG-TUN-ASL-1-SET **$ 270 / 2 x 100 mL**
AG-TUN1-ASL-1 AG-TUN2-ASL-1

AG-TUN-ASL-5-SET **$ 525 / 2 x 500 mL**
AG-TUN1-ASL-5 AG-TUN2-ASL-5

Stock Tuning Solution

AG-TUNSTOCK-ASL-1 **$ 105 / 100 mL**
AG-TUNSTOCK-ASL-5 **$ 204 / 500 mL**
10 µg/mL in 2% HNO_3 5 comps.

Li (Lithium)
Y (Yttrium)
Ce (Cerium)
Tl (Thalium)
Co (Colbalt)

Stock Tuning Solution

AG-TUNSTOCK1-ASL-1 **$ 115 / 100 mL**
AG-TUNSTOCK1-ASL-5 **$ 225 / 500 mL**
10 µg/mL in 2% HNO_3 6 comps.

Li (Lithium)
Mg (Magnesium)
Y (Yttrium)
Ce (Cerium)
Tl (Thalium)
Co (Colbalt)

Internal Standard Mix

AG-INTSTD-ASL-1 **$ 155 / 100 mL**
AG-INTSTD-ASL-5 **$ 298 / 500 mL**
100 µg/mL in 10% HNO_3, tr. HCl 8 comps.

Li-6 (Lithium-6)
Sc (Scandium)
Ge (Germanium)
Rh (Rhodium)
In (Indium)
Tb (Terbium)
Lu (Lutetium)
Bi (Bismuth)

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AccuStandard equivalent of Agilent

Environmental Calibration Standard

AG-CAL-ASL-1 **$ 308 / 100 mL**
AG-CAL-ASL-5 **$ 598 / 500 mL**
At stated conc. (µg/mL) in 10% HNO_3 25 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
U (Uranium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10

Calibration Mix #1

NEW

AG-CAL1-ASL-1 **$ 95 / 100 mL**
AG-CAL1-ASL-5 **$ 185 / 500 mL**
100 µg/mL each in 2% HNO_3 tr.HF 4 comps.

Sb (Antimony)	Sn (Tin)
Mo (Molybdenum)	Tl (Thallium)

Calibration Mix #2

NEW

AG-CAL2-ASL-1 **$ 205 / 100 mL**
AG-CAL2-ASL-5 **$ 398 / 500 mL**
100 µg/mL each in 5% HNO_3 18 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Se (Selenium)
Be (Beryllium)	Tl (Thallium)
Cd (Cadmium)	Th (Thorium)
Co (Cobalt)	U (Uranium)
Cr (Chromium)	V (Vanadium)
Cu (Copper)	Zn (Zinc)

Calibration Mix Majors

NEW

AG-CALMAJOR-ASL-1 **$ 105 / 100 mL**
AG-CALMAJOR-ASL-5 **$ 204 / 500 mL**
500 µg/mL each in 5% HNO_3 5 comps.

Ca (Calcium)	Mg (Magnesium)
Fe (Iron)	Na (Sodium)
K (Potassium)	

Interference Check 6020 #1

AG-INTFR-6020-ASL-1 **$ 385 / 100 mL**
AG-INTFR-6020-ASL-5 **$ 747 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 12 comps.

Cl (Chloride)	20,000
Ca (Calcium)	3000
Fe (Iron)	2500
Na (Sodium)	2500
C (Carbon)	2000
Al (Aluminum)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
K (Potassium)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check 6020 #2

AG-INTFR2-6020-ASL-1 **$ 143 / 100 mL**
AG-INTFR2-6020-ASL-5 **$ 276 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 11 comps.

Cr (Chromium)	20
Co (Cobalt)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Environmental Internal Standard

AG-INT-ASL-1 **$ 132 / 100 mL**
AG-INT-ASL-5 **$ 256 / 500 mL**
10 µg/mL each in 5-10% HNO_3 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ge (Germanium)	Tb (Terbium)
In (Indium)	Y(Yttrium)
Li-6 (Lithium-6)	

ICP Internal Standard

NEW

AG-INT2-ASL-1 **$ 125 / 100 mL**
AG-INT2-ASL-5 **$ 242 / 500 mL**
100 µg/mL each in 5% HNO_3 6 comps.

Li-6 (Lithium-6)	In (Indium)
Sc (Scandium)	Tb (Terbium)
Y(Yttrium)	Bi (Bismuth)

Multi-Element Calibration Std. #1

AG-MECAL1-ASL-1 **$ 165 / 100 mL**
AG-MECAL1-ASL-5 **$ 320 / 500 mL**
10 µg/mL each in 5% HNO_3 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sc (Scandium)
Er (Erbium)	Sm (Samarium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Y (Yttrium)
Lu (Lutetium)	Yb (Ytterbium)
Nd (Neodymium)	

Multi-Element Calibration Std.#2A

AG-MECAL2A-ASL-1 **$ 225 / 100 mL**
AG-MECAL2A-ASL-5 **$ 436 / 500 mL**
10 µg/mL each in 5% HNO_3 27 comps.

Ag (Silver)	Li (Lithium)
Al (Aluminum)	Mg (Magnesium)
As (Arsenic)	Mn (Manganese)
Ba (Barium)	Na (Sodium)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
K (Potassium)	

Multi-Element Calibration Std. #3

AG-MECAL3-ASL-1 **$ 132 / 100 mL**
AG-MECAL3-ASL-5 **$ 256 / 500 mL**
10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Std. #4

AG-MECAL4-ASL-1 ▼ **$ 142 / 100 mL**
AG-MECAL4-ASL-5 ▼ **$ 275 / 500 mL**
10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

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▼ Hazardous fee not required.

AccuStandard equivalent of Agilent

Environmental Spike Mix

AG-SPIKE-ASL-R1-1 **$ 308 / 100 mL**
AG-SPIKE-ASL-R1-5 **$ 598 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 24 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	100
Al (Aluminum)	100
As (Arsenic)	100
Ba (Barium)	100
Be (Beryllium)	100
Cd (Cadmium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Mn (Manganese)	100
Mo (Molybdenum)	100
Ni (Nickel)	100
Pb (Lead)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
U (Uranium)	100
V (Vanadium)	100
Zn (Zinc)	100

Environmental Initial Calibration Verification

AG-VER1-ASL-R1-1 **$ 328 / 100 mL**
AG-VER1-ASL-R1-5 **$ 636 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 26 comps.

Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Sr (Strontium)	100
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
U (Uranium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10

AccuStandard equivalent of Jobin Yvon (JY)

Instrument Calibration Standard Heavy Metals

JY-CALHM-ASL-R1-1 **$ 106 / 100 mL**
JY-CALHM-ASL-R1-5 **$ 206 / 500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	50

Instrument Calibration Standard

JY-CAL-ASL-1 **$ 138 / 100 mL**
JY-CAL-ASL-5 **$ 397 / 500 mL**
5000 µg/mL each in 2-5% HNO_3 4 comps.

Ca (Calcium)	K (Potassium)
Mg (Magnesium)	Na (Sodium)

Instrument Check Standard

JY-CHK-ASL-1 **$ 119 / 100 mL**
JY-CHK-ASL-5 **$ 230 / 500 mL**
50 µg/mL each in 2-5% HNO_3 9 comps.

Al (Aluminum)	K (Potassium)
As (Arsenic)	Na (Sodium)
Co (Cobalt)	P (Phosphorus)
Cr (Chromium)	Pb (Lead)
Cu (Copper)	

Instrument Check Standard 1

JY-CHK1-ASL-1 **$ 106 / 100 mL**
JY-CHK1-ASL-5 **$ 206 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

K (Potassium)	1500
Pb (Lead)	1000
Al (Aluminum)	500
Mg (Magnesium)	500
Cd (Cadmium)	100

Quality Control Standard 7

JY-QC7-ASL-1 **$ 106 / 100 mL**
JY-QC7-ASL-5 **$ 206 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

Quality Control Standard 21

JY-QC21-ASL-1 **$ 238 / 100 mL**
JY-QC21-ASL-5 **$ 461 / 500 mL**
100 µg/mL each in 2-5% HNO_3 tr. HF 21 comps.

As (Arsenic)	Mo (Molybdenum)
Be (Beryllium)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Sb (Antimony)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
Li (Lithium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)
Mn (Manganese)	

Quality Control Standard 23

JY-QC23-ASL-1 **$ 284 / 100 mL**
JY-QC23-ASL-5 **$ 550 / 500 mL**
1000 µg/mL each in 2-5% HNO_3 23 comps.

Ag (Silver)	In (Indium)
Al (Aluminum)	K (Potassium)
B (Boron)	Li (Lithium)
Ba (Barium)	Mg (Magnesium)
Bi (Bismuth)	Mn (Manganese)
Cd (Cadmium)	Na (Sodium)
Ca (Calcium)	Ni (Nickel)
Cr (Chromium)	Pb (Lead)
Co (Cobalt)	Sr (Strontium)
Cu (Copper)	Tl (Thallium)
Fe (Iron)	Zn (Zinc)
Ga (Gallium)	

Inorganic products containing acid generally require a hazardous shipping fee.

Inorganic products in water generally do not.

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AccuStandard equivalent of Perkin Elmer (PE)

Alternate Interferents A

PE-ALTINTA-ASL-1 **$ 165 / 100 mL**
PE-ALTINTA-ASL-5 **$ 320 / 500 mL**
1000 µg/mL each in 5% HNO_3 6 comps.

Cr (Chromium)	Ni (Nickel)
Cu (Copper)	Ti (Titanium)
Mn (Manganese)	V (Vanadium)

Analytes B

PE-ANAB-ASL-1 **$ 144 / 100 mL**
PE-ANAB-ASL-5 **$ 280 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF, tr. Tartaric acid 14 comps.

Cd (Cadmium)	100
Ni (Nickel)	100
Zn (Zinc)	100
Sb (Antimony)	60
Ba (Barium)	50
Be (Beryllium)	50
Co (Cobalt)	50
Cr (Chromium)	50
Cu (Copper)	50
Mn (Manganese)	50
V (Vanadium)	50
Ag (Silver)	20
As (Arsenic)	10
Tl (Thallium)	10

Alternate Analytes B

PE-ALTB-ASL-1 **$ 149 / 100 mL**
PE-ALTB-ASL-5 **$ 289 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF, tr. Tartaric acid 12 comps.

Al (Aluminum)	100
As (Arsenic)	100
B (Boron)	100
Mo (Molybdenum)	100
Na (Sodium)	100
Sb (Antimony)	100
Se (Selenium)	100
Tl (Thallium)	100
Ca (Calcium)	10
Fe (Iron)	10
Mg (Magnesium)	10
Si (Silicon)	10

Instrument Calibration Std. 1

PE-CAL1-ASL-1 **$ 245 / 100 mL**
PE-CAL1-ASL-5 **$ 476 / 500 mL**
20 µg/mL each in 2% HNO_3 tr. Tartaric acid 20 comps.

Ag (Silver)	Mo (Molybdenum)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Th (Thorium)
Co (Cobalt)	Tl (Thallium)
Cr (Chromium)	U (Uranium)
Cu (Copper)	V (Vanadium)
Mn (Manganese)	Zn (Zinc)

Instrument Calibration Std. 2

PE-CAL2-ASL-1 **$ 222 / 100 mL**
PE-CAL2-ASL-5 **$ 431 / 500 mL**
100 µg/mL each in 5% HNO_3 tr. HF, tr. Tartaric acid 26 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Mo (Molybdenum)
As (Arsenic)	Na (Sodium)
Ba (Barium)	Ni (Nickel)
Be (Beryllium)	Pb (Lead)
Ca (Calcium)	Sb (Antimony)
Cd (Cadmium)	Se (Selenium)
Co (Cobalt)	Sn (Tin)
Cr (Chromium)	Sr (Strontium)
Cu (Copper)	Ti (Titanium)
Fe (Iron)	Tl (Thallium)
K (Potassium)	V (Vanadium)
Mg (Magnesium)	Zn (Zinc)

Instrument Calibration Std. 3

PE-CAL3-ASL-1 **$ 94 / 100 mL**
PE-CAL3-ASL-5 **$ 181 / 500 mL**
1000 µg/mL each in 5% HNO_3 5 comps.

Fe (Iron)	Na (Sodium)
K (Potassium)	Mg (Magnesium)
Ca (Calcium)	

Initial Calibration Verification Std.

PE-CRDL1-ASL-1 **$ 262 / 100 mL**
PE-CRDL1-ASL-5 **$ 508 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. Tartaric acid 21 comps.

Ca (Calcium)	5000
Mg (Magnesium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Al (Aluminum)	200
Fe (Iron)	100
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
As (Arsenic)	10
Cr (Chromium)	10
Ag (Silver)	10
Tl (Thallium)	10
Cd (Cadmium)	5
Se (Selenium)	5
Pb (Lead)	3

Supplied as a 10X concentrate for better stability.

Instrument Calibration Std. 1

PE-CAL4-ASL-1 **$ 132 / 100 mL**
PE-CAL4-ASL-5 **$ 385 / 500 mL**
5000 µg/mL each in 5% HNO_3 4 comps.

Ca (Calcium)	Na (Sodium)
K (Potassium)	
Mg (Magnesium)	

Instrument Calibration Std. 2

PE-CAL5-ASL-1 **$ 89 / 100 mL**
PE-CAL5-ASL-5 **$ 172 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Ni (Nickel)	400
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
Cr (Chromium)	100

Instrument Calibration Std. 3

PE-CAL6-ASL-1 **$ 114 / 100 mL**
PE-CAL6-ASL-5 **$ 221 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 7 comps.

Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Co (Cobalt)	500
V (Vanadium)	500
Cu (Copper)	250
Be (Beryllium)	50

Instrument Calibration Std. 4

PE-CAL7-ASL-1 **$ 79 / 100 mL**
PE-CAL7-ASL-5 **$ 152 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

As (Arsenic)	100
Tl (Thallium)	100
Cd (Cadmium)	50
Se (Selenium)	50
Pb (Lead)	50

Detection Limit

PE-CRDL2-ASL-1 **$ 157 / 100 mL**
PE-CRDL2-ASL-5 **$ 305 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF tr. Tartaric acid 15 comps.

Sb (Antimony)	120
Co (Cobalt)	100
V (Vanadium)	100
Ni (Nickel)	80
Cu (Copper)	50
Zn (Zinc)	40
Mn (Manganese)	30
Ag (Silver)	20
As (Arsenic)	20
Cr (Chromium)	20
Tl (Thallium)	20
Be (Beryllium)	10
Cd (Cadmium)	10
Se (Selenium)	10
P (Phosphorus)	6

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AccuStandard equivalent of Perkin Elmer (PE)

Instrument Check Standard 1

PE-CHK1-ASL-1 **$ 196 / 100 mL**
PE-CHK1-ASL-5 **$ 379 / 500 mL**
10 µg/mL each in 2% HNO_3 tr. HF, tr. Tartaric acid 17 comps.

Ag (Silver)	Mn (Manganese)
Al (Aluminum)	Ni (Nickel)
As (Arsenic)	Pb (Lead)
Ba (Barium)	Sb (Antimony)
Be (Beryllium)	Se (Selenium)
Cd (Cadmium)	Tl (Thallium)
Co (Cobalt)	V (Vanadium)
Cr (Chromium)	Zn (Zinc)
Cu (Copper)	

Instrument Check Standard 3

PE-CHK3-ASL-1 **$ 114 / 100 mL**
PE-CHK3-ASL-5 **$ 222 / 500 mL**
200 µg/mL each in 2% HNO_3 5 comps.

Ca (Calcium)	Mg (Magnesium)
Fe (Iron)	Na (Sodium)
K (Potassium)	

Instrument Check Standard 4

PE-CHK4-ASL-1 **$ 84 / 100 mL**
PE-CHK4-ASL-5 **$ 162 / 500 mL**
10 µg/mL each in 2% HNO_3 3 comps.

Mo (Molybdenum)	U (Uranium)
Th (Thorium)	

Instrument Check Standard 5

PE-CHK5-ASL-1 **$ 94 / 100 mL**
PE-CHK5-ASL-5 **$ 181 / 500 mL**
10 µg/mL each in 2% HNO_3 tr. HF 4 comps.

Mo (Molybdenum)	Sr (Strontium)
Sn (Tin)	Ti (Titanium)

Detection Limit Standard for use with the ELAN 5000

PE-CRDL3-ASL-1 **$ 85 / 100 mL**
PE-CRDL3-ASL-5 **$ 165 / 500 mL**
1 µg/mL each in 1% HNO_3 5 comps.

Be (Beryllium)	Tl (Thallium)
Co (Cobalt)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

NEW

ELAN 6100 Detection Limit Solution

PE-CRDL4-ASL-1 **$ 85 / 100 mL**
PE-CRDL4-ASL-5 **$ 165 / 500 mL**
10 µg/mL each in 1% HNO_3 4 comps.

Be (Beryllium)	In (Indium)
Co (Cobalt)	U (Uranium)

Supplied as a 1000X concentrate for better stability.

Interference Check Standard 5

PE-ICS5-ASL-1 **$ 182 / 100 mL**
PE-ICS5-ASL-5 **$ 353 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Ca (Calcium)	6000
Fe (Iron)	5000
Mg (Magnesium)	3000
Al (Aluminum)	1200
Na (Sodium)	1000

Interference Check Standard 18

PE-ICS18-ASL-1-SET **$ 275 / 2 x 100 mL**
PE-ICS18-ASL-5-SET **$ 534 / 2 x 500 mL**

PE-ICS18-ASL
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

K (Potassium)	20000
As (Arsenic)	1000
Pb (Lead)	1000
Tl (Thallium)	1000
Se (Selenium)	500
Ag (Silver)	300
Ba (Barium)	300
Cd (Cadmium)	300
Co (Cobalt)	300
Cr (Chromium)	300
Cu (Copper)	300
Ni (Nickel)	300
V (Vanadium)	300
Zn (Zinc)	300
Mn (Manganese)	200
Be (Beryllium)	100

PE-ICS18-HG-ASL
100 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Internal Standard Mix

PE-INT-ASL-1 **$ 127 / 100 mL**
PE-INT-ASL-5 **$ 246 / 500 mL**
10 µg/mL each in 5-10% HNO_3 7 comps.

Li6 (Lithium)	In (Indium)
Sc (Scandium)	Tb (Terbium)
Ge (Germanium)	Bi (Bismuth)
Y(Yttrium)	

Interferents A

PE-INTA-ASL-1 **$ 199 / 100 mL**
PE-INTA-ASL-5 **$ 385 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 4 comps.

Al (Aluminum)	5000
Ca (Calcium)	5000
Mg (Magnesium)	5000
Fe (Iron)	2000

Interferents Check Solution 1

PE-INTFR1-ASL-1 **$ 324 / 100 mL**
PE-INTFR1-ASL-5 **$ 630 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 12 comps.

Cl (Chloride)	10000
C (Carbon)	2000
Al (Aluminum)	100
Ca (Calcium)	100
Fe (Iron)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
P (Phosphorus)	100
S (Sulfur)	100
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Solution 2

PE-INTFR2-ASL-1 **$ 104 / 100 mL**
PE-INTFR2-ASL-5 **$ 202 / 500 mL**
10 µg/mL each in 2% HNO_3 9 comps.

Ag (Silver)	Cu (Copper)
As (Arsenic)	Mn (Manganese)
Cd (Cadmium)	Ni (Nickel)
Co (Cobalt)	Zn (Zinc)
Cr (Chromium)	

Interference Check Standard A

PE-INTFRA-ASL-1 **$ 386 / 100 mL**
PE-INTFRA-ASL-5 **$ 749 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. HF 12 comps.

Cl (Chloride)	21215
Ca (Calcium)	3000
Na (Sodium)	2500
Fe (Iron)	2500
C (Carbon)	2000
Al (Aluminum)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
P (Phosphorus)	1000
S (Sulfur)	1000
Mo (Molybdenum)	20
Ti (Titanium)	20

Interference Check Standard B

PE-INTFRB-ASL-1 **$ 145 / 100 mL**
PE-INTFRB-ASL-5 **$ 281 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 11 comps.

Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
V (Vanadium)	20
As (Arsenic)	10
Cd (Cadmium)	10
Se (Selenium)	10
Zn (Zinc)	10
Ag (Silver)	5

Interference Check Standard C

PE-INTFRC-ASL-1-SET **$ 216 / 2 x 100 mL**
PE-INTFRC-ASL-5-SET **$ 418 / 2 x 500 mL**
2 µg/mL each in 2% HNO_3 tr. HF tr. Tartaric acid 16 comps.

Sb (Antimony)	Mn (Manganese)
As (Arsenic)	Ni (Nickel)
Ba (Barium)	Se (Selenium)
Be (Beryllium)	Ag (Silver)
Cd (Cadmium)	Tl (Thallium)
Cr (Chromium)	V (Vanadium)
Co (Cobalt)	Zn (Zinc)
Cu (Copper)	
Pb (Lead)	

PE-INTFRC-HG-ASL
2 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

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AccuStandard equivalent of Perkin Elmer (PE)

Mixed Calibration Standard

PE-MCS-ASL-1 **$ 152 / 100 mL**
PE-MCS-ASL-5 **$ 295 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 10 comps.

As (Arsenic)	50
K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sr (Strontium)	10
Zn (Zinc)	10
Ba (Barium)	1
Mg (Magnesium)	1

Mixed Calibration Standard 1

PE-MCS1-ASL-1 **$ 104 / 100 mL**
PE-MCS1-ASL-5 **$ 202 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 6 comps.

Pb (Lead)	500
Se (Selenium)	200
Cd (Cadmium)	150
Zn (Zinc)	150
Mn (Manganese)	100
Be (Beryllium)	50

Mixed Calibration Standard 2

PE-MCS2-ASL-1 **$ 94 / 100 mL**
PE-MCS2-ASL-5 **$ 181 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

Fe (Iron)	10000
Ba (Barium)	100
Co (Cobalt)	100
Cu (Copper)	100
V (Vanadium)	100

Mixed Calibration Standard 3

PE-MCS3-ASL-1 **$ 78 / 100 mL**
PE-MCS3-ASL-5 **$ 151 / 500 mL**
at stated conc. (µg/mL) in 2% HNO_3 tr. HF 3 comps.

As (Arsenic)	500
Mo (Molybdenum)	100
Si (Silicon)	100

Mixed Calibration Standard 4

PE-MCS4-ASL-1 **$ 106 / 100 mL**
PE-MCS4-ASL-5 **$ 205 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 6 comps.

Ca (Calcium)	1000
K (Potassium)	400
Al (Aluminum)	200
Na (Sodium)	200
Cr (Chromium)	20
Ni (Nickel)	20

Mixed Calibration Standard 5

PE-MCS5-ASL-1 **$ 89 / 100 mL**
PE-MCS5-ASL-5 **$ 173 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF tr. Tartaric acid 5 comps.

Mg (Magnesium)	1000
Sb (Antimony)	200
Tl (Thallium)	200
B (Boron)	100
Ag (Silver)	50

Multi-Element Calibration Standard 1

PE-MECAL1-ASL-1 **$ 93 / 100 mL**
PE-MECAL1-ASL-5 **$ 180 / 500 mL**
10 µg/mL each in 2% HNO_3 9 comps.

Be (Beryllium)	Mg (Magnesium)
Bi (Bismuth)	Ni (Nickel)
Ce (Cerium)	Pb (Lead)
Co (Cobalt)	U (Uranium)
In (Indium)	

Multi-Element Calibration Standard 2

PE-MECAL2-ASL-1 **$ 142 / 100 mL**
PE-MECAL2-ASL-5 **$ 275 / 500 mL**
10 µg/mL each in 5% HNO_3 17 comps.

Ce (Cerium)	Pr (Praseodymium)
Dy (Dysprosium)	Sm (Samarium)
Er (Erbium)	Sc (Scandium)
Eu (Europium)	Tb (Terbium)
Gd (Gadolinium)	Th (Thorium)
Ho (Holmium)	Tm (Thulium)
La (Lanthanum)	Yb (Ytterbium)
Lu (Lutetium)	Y (Yttrium)
Nd (Neodymium)	

Multi-Element Calibration Standard 3

PE-MECAL3-ASL-1-SET **$ 225 / 2 x 100 mL**
PE-MECAL3-ASL-5-SET **$ 436 / 2 x 500 mL**

PE-MECAL3-ASL
10 µg/mL each in 5% HNO_3 29 comps.

Ag (Silver)	K (Potassium)
Al (Aluminum)	Li (Lithium)
As (Arsenic)	Mg (Magnesium)
Ba (Barium)	Mn (Manganese)
Be (Beryllium)	Na (Sodium)
Bi (Bismuth)	Ni (Nickel)
Ca (Calcium)	Pb (Lead)
Cd (Cadmium)	Rb (Rubidium)
Co (Cobalt)	Se (Selenium)
Cr (Chromium)	Sr (Strontium)
Cs (Cesium)	Tl (Thallium)
Cu (Copper)	U (Uranium)
Fe (Iron)	V (Vanadium)
Ga (Gallium)	Zn (Zinc)
In (Indium)	

PE-MECAL3-HG-ASL
10 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Multi-Element Calibration Standard 4

PE-MECAL4-ASL-1 **$ 90 / 100 mL**
PE-MECAL4-ASL-5 **$ 174 / 500 mL**
10 µg/mL each in 10% HCl 10 comps.

Au (Gold)	Rh (Rhodium)
Hf (Hafnium)	Ru (Ruthenium)
Ir (Iridium)	Sb (Antimony)
Pd (Palladium)	Sn (Tin)
Pt (Platinum)	Te (Tellurium)

Multi-Element Calibration Standard 5

PE-MECAL5-ASL-1 ▼ **$ 112 / 100 mL**
PE-MECAL5-ASL-5 ▼ **$ 217 / 500 mL**
10 µg/mL each in Water, tr. HF 12 comps.

B (Boron)	S (Sulfur)
Ge (Germanium)	Si (Silicon)
Mo (Molybdenum)	Ta (Tantalum)
Nb (Niobium)	Ti (Titanium)
P (Phosphorus)	W (Tungsten)
Re (Rhenium)	Zr (Zirconium)

Multi-Element Internal Standard

PE-MEINT-ASL-1 **$ 115 / 100 mL**
PE-MEINT-ASL-5 **$ 222 / 500 mL**
10 µg/mL each in 2% HNO_3 7 comps.

Bi (Bismuth)	Sc (Scandium)
Ho (Holmium)	Tb (Terbium)
In (Indium)	Y(Yttrium)
Li6 (Lithium)	

Memory Test 1

PE-MEM1-ASL-1 **$ 262 / 100 mL**
PE-MEM1-ASL-5 **$ 508 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 21 comps.

Al (Aluminum)	1000
Ca (Calcium)	1000
Fe (Iron)	1000
K (Potassium)	1000
Mg (Magnesium)	1000
Na (Sodium)	1000
Ag (Silver)	20
As (Arsenic)	20
Ba (Barium)	20
Be (Beryllium)	20
Cd (Cadmium)	20
Co (Cobalt)	20
Cr (Chromium)	20
Cu (Copper)	20
Mn (Manganese)	20
Ni (Nickel)	20
Pb (Lead)	20
Se (Selenium)	20
Tl (Thallium)	20
V (Vanadium)	20
Zn (Zinc)	20

Memory Test 2

PE-MEM2-ASL-1 ▼ **$ 248 / 100 mL**
PE-MEM2-ASL-5 ▼ **$ 481 / 500 mL**
At stated conc. (µg/mL) in Water, tr. HF 6 comps.

Cl (Chloride)	7200
C (Carbon)	2000
P (Phosphorus)	1000
Mo (Molybdenum)	20
Sb (Antimony)	20
Tl (Thallium)	20

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▼ Hazardous fee not required.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001



AccuStandard equivalent of Perkin Elmer (PE)

QC Standard 7 Elements

PE-QC7-ASL-1 **$ 89 / 100 mL**
PE-QC7-ASL-5 **$ 174 / 500 mL**

At stated conc. (µg/mL) in 5% HNO_3 tr. HF 7 comps.

K (Potassium)	1000
Si (Silicon)	500
Al (Aluminum)	100
B (Boron)	100
Ba (Barium)	100
Na (Sodium)	100
Ag (Silver)	50

QC Standard 21 Elements

PE-QC21-ASL-1 **$ 195 / 100 mL**
PE-QC21-ASL-5 **$ 377 / 500 mL**

100 µg/mL each in 5% HNO_3, tr. HF, tr. Tartaric acid 21 comps.

As (Arsenic)
Be (Beryllium)
Ca (Calcium)
Cd (Cadmium)
Co (Cobalt)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Li (Lithium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Ni (Nickel)
Pb (Lead)
Sb (Antimony)
Se (Selenium)
Sr (Strontium)
Ti (Titanium)
Tl (Thallium)
V (Vanadium)
Zn (Zinc)

Primary Drinking Water Metals

PE-SDWA1-ASL-1-SET **$ 104 / 2 x 100 mL**
PE-SDWA1-ASL-5-SET **$ 202 / 2 x 500 mL**

PE-SDWA1-ASL
At stated conc. (µg/mL) in 2% HNO_3 7 comps.

Ba (Barium)	100
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Pb (Lead)	10
Cd (Cadmium)	5
Se (Selenium)	5

PE-SDWA1-HG-ASL
10 µg/mL in 2% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Secondary Drinking Water Metals

PE-SDWA2-ASL-1 **$ 82 / 100 mL**
PE-SDWA2-ASL-5 **$ 159 / 500 mL**

At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Zn (Zinc)	500
Cu (Copper)	100
Fe (Iron)	30
Mn (Manganese)	5

NEW

ELAN 6100 DRC Sensitivity/ Detection Limit Solution

PE-SENS-ASL-1 **$ 125 / 100 mL**
PE-SENS-ASL-5 **$ 242 / 500 mL**

1 µg/mL each in 2% HNO_3, tr. HCl 13 comps.

Ba (Barium)
Be (Beryllium)
Ca (Calcium)
Ce (Cerium)
Co (Cobalt)
In (Indium)
Fe (Iron)
Pb (Lead)
Mg (Magnesium)
K (Potassium)
Rh (Rhodium)
Na (Sodium)
U (Uranium)

ELAN 9000/6X00 Dual Detector Calibration Solution

PE-SETUP1-ASL-1 **$ 85 / 100 mL**
PE-SETUP1-ASL-5 **$ 165 / 500 mL**

2 µg/mL each in 1% HNO_3 tr. HCl 5 comps.

Cd (Cadmium)
Cu (Copper)
Pb (Lead)
Mg (Magnesium)
Rh (Rhodium)

Supplied as a 10X concentrate for better stability.

ELAN 6000/5000 Plasma Setup Solution

PE-SETUP2-ASL-1 **$ 95 / 100 mL**
PE-SETUP2-ASL-5 **$ 185 / 500 mL**

1 µg/mL each in 1% HNO_3 tr. HCl 11 comps.

Ba (Barium)
Cd (Cadmium)
Ce (Cerium)
Cu (Copper)
Ge (Germanium)
Pb (Lead)
Mg (Magnesium)
Rh (Rhodium)
Sc (Scandium)
Tb (Terbium)
Tl (Thallium)

Supplied as a 100X concentrate for better stability.

NEW

SmartTune Solution for ELAN/DRC-e

PE-SMTUNE-ASL-1 **$ 95 / 100 mL**
PE-SMTUNE-ASL-5 **$ 185 / 500 mL**

1 µg/mL each in 2% HNO_3 tr. HCl 9 comps.

Ba (Barium)
Be (Beryllium)
Ce (Cerium)
Co (Cobalt)
In (Indium)
Pb (Lead)
Mg (Magnesium)
Rh (Rhodium)
U (Uranium)

Supplied as a 100X concentrate for better stability.

NEW

SmartTune Solution for DRC/ DRC^{Plus}/DRC II

PE-SMTUNE2-ASL-1 **$ 105 / 100 mL**
PE-SMTUNE2-ASL-5 **$ 204 / 500 mL**

At stated conc. (µg/mL) in 0.5% HNO_3 10 comps.

Ba (Barium)	10
Be (Beryllium)	1
Ce (Cerium)	1
Co (Cobalt)	1
In (Indium)	1
Fe (Iron)	1
Pb (Lead)	1
Mg (Magnesium)	1
Th (Thorium)	1
U (Uranium)	1

Supplied as a 1000X concentrate for better stability.

Spike Sample Analysis

PE-SPIKE-ASL-1 **$ 214 / 100 mL**
PE-SPIKE-ASL-5 **$ 414 / 500 mL**

At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 18 comps.

Al (Aluminum)	200
As (Arsenic)	200
Ba (Barium)	200
Se (Selenium)	200
Tl (Thallium)	200
Fe (Iron)	100
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
Pb (Lead)	50
Sb (Antimony)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Ag (Silver)	5
Be (Beryllium)	5
Cd (Cadmium)	5

Spike Sample Standard I (Water)

PE-SPIKE1-ASL-1 **$ 175 / 100 mL**
PE-SPIKE1-ASL-5 **$ 339 / 500 mL**

At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 17 comps.

Fe (Iron)	500
Ba (Barium)	250
Zn (Zinc)	250
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Mn (Manganese)	100
Ni (Nickel)	100
Sb (Antimony)	100
V (Vanadium)	100
As (Arsenic)	50
Pb (Lead)	50
Ag (Silver)	25
Be (Beryllium)	25
Cd (Cadmium)	25
Se (Selenium)	25
Tl (Thallium)	25

Spike Sample Standard II (Soil)

PE-SPIKE2-ASL-1 **$ 140 / 100 mL**
PE-SPIKE2-ASL-5 **$ 271 / 500 mL**

At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 15 comps.

Ba (Barium)	250
Cr (Chromium)	250
Cu (Copper)	250
Zn (Zinc)	250
V (Vanadium)	150
Ni (Nickel)	125
Co (Cobalt)	100
Pb (Lead)	100
Sb (Antimony)	100
As (Arsenic)	50
Cd (Cadmium)	50
Ag (Silver)	25
Be (Beryllium)	25
Se (Selenium)	25
Tl (Thallium)	25

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AccuStandard equivalent of Perkin Elmer (PE)

Spike Sample Standard III (for ILM 05.2)

PE-SPIKE3-ASL-1 **$ 167 / 100 mL**
PE-SPIKE3-ASL-5 **$ 324 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3, tr. HF, tr. Tartaric acid 17 comps.

Al (Aluminum)	200
Ba (Barium)	200
Co (Cobalt)	50
Mn (Manganese)	50
Ni (Nickel)	50
V (Vanadium)	50
Zn (Zinc)	50
Cu (Copper)	25
Cr (Chromium)	20
Sb (Antimony)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Ag (Silver)	5
Tl (Thallium)	5
As (Arsenic)	4
Pb (Lead)	2
Se (Selenium)	1

ELAN 9000/6100 Setup/Stab/ Masscal Solution

PE-STAB-ASL-1 **$ 95 / 100 mL**
PE-STAB-ASL-5 **$ 185 / 500 mL**
1 µg/mL each in 1% HNO_3 tr. HCl 9 comps.

Ba (Barium)	Pb (Lead)
Cd (Cadmium)	Mg (Magnesium)
Ce (Cerium)	Rh (Rhodium)
Cu (Copper)	U (Uranium)
In (Indium)	

Supplied as a 100X concentrate for better stability.

Tuning Solution I

PE-TUNSOL-ASL-1 **$ 145 / 100 mL**
PE-TUNSOL-ASL-5 **$ 281 / 500 mL**
10 µg/mL each in 2% HNO_3, tr. HCl 12 comps.

Ba (Barium)	Mg (Magnesium)
Be (Beryllium)	Pb (Lead)
Ce (Cerium)	Rh (Rhodium)
Co (Cobalt)	Tl (Thallium)
In (Indium)	U (Uranium)
Li (Lithium)	Y(Yttrium)

Low UV Standard

PE-UV-ASL-1 **$ 77 / 100 mL**
PE-UV-ASL-5 **$ 149 / 500 mL**
10 µg/mL each in 2% HNO_3 3 comps.

Al (Aluminum)	S (Sulfur)
P (Phosphorus)	

VIS Wavecal Solution

PE-VISWAVE-ASL-1 **$ 76 / 100 mL**
PE-VISWAVE-ASL-5 **$ 148 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 8 comps.

K (Potassium)	50
La (Lanthanum)	10
Li (Lithium)	10
Mn (Manganese)	10
Na (Sodium)	10
Sr (Strontium)	10
Ba (Barium)	1
Ca (Calcium)	1

UV Wavecal Solution

PE-UVWAVE-ASL-1 **$ 102 / 100 mL**
PE-UVWAVE-ASL-5 **$ 202 / 500 mL**
At stated conc. (µg/mL) in 5% HCl 11 comps.

K (Potassium)	100
P (Phosphorus)	100
S (Sulfur)	100
As (Arsenic)	20
La (Lanthanum)	20
Li (Lithium)	20
Mn (Manganese)	20
Mo (Molybdenum)	20
Na (Sodium)	20
Ni (Nickel)	20
Sc (Scandium)	20

Initial Calibration Verification Standard 1

PE-VER1-ASL-1 **$ 272 / 100 mL**
PE-VER1-ASL-5 **$ 528 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 tr. Tartaric acid 26 comps.

Fe (Iron)	1000
K (Potassium)	1000
Ca (Calcium)	1000
Na (Sodium)	1000
Mg (Magnesium)	1000
Sr (Strontium)	1000
Ag (Silver)	10
Al (Aluminum)	10
As (Arsenic)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10
Th (Thorium)	10
U (Uranium)	10

Initial Calibration Verification Standard 2

PE-VER2-ASL-R1-1 **$ 73 / 100 mL**
PE-VER2-ASL-R1-5 **$ 142 / 500 mL**
10 µg/mL each in 2% HNO_3 tr. HF 2 comps.

Sn (Tin)	Ti (Titanium)

Trace Metals I

PE-WPTM1-ASL-1-SET **$ 137 / 2 x 100 mL**
PE-WPTM1-ASL-5-SET **$ 266 / 2 x 500 mL**

PE-WPTM1-ASL
At stated conc. (µg/mL) in 5% HNO_3 14 comps.

Al (Aluminum)	500
V (Vanadium)	250
As (Arsenic)	100
Be (Beryllium)	100
Co (Cobalt)	100
Cr (Chromium)	100
Cu (Copper)	100
Fe (Iron)	100
Mn (Manganese)	100
Ni (Nickel)	100
Pb (Lead)	100
Zn (Zinc)	100
Cd (Cadmium)	25
Se (Selenium)	25

PE-WPTM1-HG-ASL
10 µg/mL in 5% HNO_3

Hg (Mercury)

Supplied separately for better product stability.

Trace Metals II

PE-WPTM2-ASL-1 **$ 68 / 100 mL**
PE-WPTM2-ASL-5 **$ 131 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 3 comps.

Sb (Antimony)	20
Tl (Thallium)	20
Ag (Silver)	10

Trace Metals III

PE-WPTM3-ASL-1 **$ 104 / 100 mL**
PE-WPTM3-ASL-5 **$ 202 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 6 comps.

Ba (Barium)	500
Ca (Calcium)	500
Mo (Molybdenum)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

Alternate Metals 1

PE-WPAM1-ASL-1 **$ 129 / 100 mL**
PE-WPAM1-ASL-5 **$ 250 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 11 comps.

Al (Aluminum)	20
Fe (Iron)	20
V (Vanadium)	20
Co (Cobalt)	10
Cu (Copper)	10
Mn (Manganese)	10
Ni (Nickel)	10
Zn (Zinc)	10
Be (Beryllium)	5
Sb (Antimony)	5
Tl (Thallium)	5

Alternate Metals 3

PE-WPAM3-ASL-1 **$ 79 / 100 mL**
PE-WPAM3-ASL-5 **$ 152 / 500 mL**
At stated conc. (µg/mL) in 2% HNO_3 4 comps.

Ca (Calcium)	500
Na (Sodium)	500
K (Potassium)	100
Mg (Magnesium)	100

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AccuStandard equivalent of Teledyne

Check Mate 1

TELE-CHK1-ASL-1-SET **$ 205 / 2 x 100 mL**
TELE-CHK1-ASL-5-SET **$ 398 / 2 x 500 mL**

TELE-CHK1-ASL
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 24 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
As (Arsenic)	10
B (Boron)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Mo (Molybdenum)	10
Ni (Nickel)	10
Pb (Lead)	10
Sb (Antimony)	10
Se (Selenium)	10
Si (Silicon)	10
Tl (Thallium)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK1-AG-ASL
1000 µg/mL in 2% HNO_3

Ag (Silver)

Supplied separately for better product stability.

Check Mate 2

TELE-CHK2-ASL-1-SET **$ 177 / 2 x 100 mL**
TELE-CHK2-ASL-5-SET **$ 342 / 2 x 500 mL**

TELE-CHK2-ASL
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 17 comps.

Ca (Calcium)	100
K (Potassium)	100
Mg (Magnesium)	100
Na (Sodium)	100
Al (Aluminum)	10
Ba (Barium)	10
Be (Beryllium)	10
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	10
Mn (Manganese)	10
Ni (Nickel)	10
Sb (Antimony)	10
V (Vanadium)	10
Zn (Zinc)	10

TELE-CHK2-AG-ASL
1000 µg/mL in 2% HNO_3

Ag (Silver)

Supplied separately for better product stability.

Check Mate 3

TELE-CHK3-ASL-1-SET **$ 140 / 2 x 100 mL**
TELE-CHK3-ASL-5-SET **$ 271 / 2 x 500 mL**

TELE-CHK3-ASL
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 17 comps.

Ca (Calcium)	10
K (Potassium)	10
Mg (Magnesium)	10
Na (Sodium)	10
Al (Aluminum)	1
Ba (Barium)	1
Be (Beryllium)	1
Cd (Cadmium)	1
Co (Cobalt)	1
Cr (Chromium)	1
Cu (Copper)	1
Fe (Iron)	1
Mn (Manganese)	1
Ni (Nickel)	1
Sb (Antimony)	1
V (Vanadium)	1
Zn (Zinc)	1

TELE-CHK3-AG-ASL
1000 µg/mL in 2% HNO_3

Ag (Silver)

Supplied separately for better product stability.

Check Mate 4

TELE-CHK4-ASL-1 **$ 242 / 100 mL**
TELE-CHK4-ASL-5 **$ 469 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Mg (Magnesium)	5000
Na (Sodium)	5000
Ba (Barium)	200
Fe (Iron)	100
Al (Aluminum)	60
Sb (Antimony)	60
Co (Cobalt)	50
V (Vanadium)	50
Ni (Nickel)	40
Cu (Copper)	25
Zn (Zinc)	20
Mn (Manganese)	15
Ag (Silver)	10
As (Arsenic)	10
Cr (Chromium)	10
Tl (Thallium)	10
Be (Beryllium)	5
Cd (Cadmium)	5
Pb (Lead)	5
Se (Selenium)	5

Check Mate 5

TELE-CHK5-ASL-1 **$ 179 / 100 mL**
TELE-CHK5-ASL-5 **$ 346 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 16 comps.

Ca (Calcium)	2000
K (Potassium)	2000
Mg (Magnesium)	2000
Na (Sodium)	2000
Al (Aluminum)	1000
Ba (Barium)	1000
Fe (Iron)	1000
Co (Cobalt)	500
Ni (Nickel)	500
V (Vanadium)	500
Cr (Chromium)	200
Cu (Copper)	200
Ag (Silver)	100
Be (Beryllium)	100
Mn (Manganese)	100
Zn (Zinc)	100

Check Mate 6

TELE-CHK6-ASL-1 **$ 91 / 100 mL**
TELE-CHK6-ASL-5 **$ 176 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 5 comps.

As (Arsenic)	500
Pb (Lead)	500
Se (Selenium)	500
Tl (Thallium)	500
Cd (Cadmium)	100

Check Mate 7

TELE-CHK7-ASL-1 **$ 140 / 100 mL**
TELE-CHK7-ASL-5 **$ 272 / 500 mL**
At stated conc. (µg/mL) in 5% HCl, 1% HNO_3 17 comps.

Ca (Calcium)	50
K (Potassium)	50
Mg (Magnesium)	50
Na (Sodium)	50
Al (Aluminum)	5
Ba (Barium)	5
Be (Beryllium)	5
Cd (Cadmium)	5
Co (Cobalt)	5
Cr (Chromium)	5
Cu (Copper)	5
Fe (Iron)	5
Mn (Manganese)	5
Ni (Nickel)	5
Sb (Antimony)	5
V (Vanadium)	5
Zn (Zinc)	5

Check Mate 8

TELE-CHK8-ASL-1 **$ 225 / 100 mL**
TELE-CHK8-ASL-5 **$ 436 / 500 mL**
At stated conc. (µg/mL) in 5% HNO_3 22 comps.

Ca (Calcium)	5000
K (Potassium)	5000
Na (Sodium)	5000
Mg (Magnesium)	5000
Al (Aluminum)	2000
Ba (Barium)	2000
Fe (Iron)	1000
Sb (Antimony)	600
Co (Cobalt)	500
V (Vanadium)	500
Ni (Nickel)	400
Cu (Copper)	250
Zn (Zinc)	200
Mn (Manganese)	150
Ag (Silver)	100
As (Arsenic)	100
Cr (Chromium)	100
Tl (Thallium)	100
Be (Beryllium)	50
Cd (Cadmium)	50
Pb (Lead)	50
Se (Selenium)	50

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EU Formulation

Scope: For the determination of 32 elements by ICP (Inductively Coupled Plasma)

DIN EN ISO 11885 - 32 Element ICP Standard Set

DINENISO-11885-1-SET **$ 245 / 2 x 100 mL**
DINENISO-11885-5-SET **$480 / 2 x 500 mL**

Part 1

DINENISO-11885A-1 **100 mL**
DINENISO-11885A-5 **500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 tr. HF
24 comps.

Ag (Silver)	20
Al (Aluminum)	40
As (Arsenic)	80
Ba (Barium)	2
Be (Beryllium)	2
Bi (Bismuth)	40
Ca (Calcium)	2
Cd (Cadmium)	10
Co (Cobalt)	10
Cr (Chromium)	10
Cu (Copper)	10
Fe (Iron)	20
K (Potassium)	50
Li (Lithium)	2
Mg (Magnesium)	1
Mn (Manganese)	2
Na (Sodium)	20
Ni (Nickel)	50
Pb (Lead)	50
Sb (Antimony)	50
Se (Selenium)	50
Sr (Strontium)	0.5
V (Vanadium)	10
Zn (Zinc)	5

Part 2

DINENISO-11885B-1 **100 mL**
DINENISO-11885B-5 **500 mL**
At stated conc. (µg/mL) in 2-5% HNO_3 tr. HF
8 comps.

B (Boron)	5
Mo (Molybdenum)	30
P (Phosphorus)	50
S (Sulfur)	50
Si (Silicon)	20
Sn (Tin)	50
Ti (Titanium)	5
Zr (Zirconium)	10

ASTM D5184 Aluminum and Silicon in Fuel Oils by Ashing, Fusion, ICP-AES Spectrometry & AA Spectrometry

Tartaric Acid / Hydrochloric Acid Solution

D-5184-91-TA-5 **$ 20 / 1 x 500 mL**

Tartaric acid @ 0.5% w/v in 4% HCl

Silicon Standard Solution

D-5184-91-SI-1 ▼ **$ 34 / 1 x 100 mL**
D-5184-91-SI-5 ▼ **$ 67 / 1 x 500 mL**

Silicon @ 1000 µg/mL in water tr. NaOH

Aluminum Standard Solution

D-5184-91-AL-1 **$ 34 / 1 x 100 mL**
D-5184-91-AL-5 **$ 67 / 1 x 500 mL**

Aluminum @ 1000 µg/mL in 5 % HCl

Technical Note

Contact our Technical Service Department for **Ready-to-Aspirate** working level calibration curves designed for your laboratories' specific calibration ranges.

ASTM D5600 Trace Metals in Petroleum Coke by ICP-AES

Multi-Element Calibration Standard

D-5600-01-1 **$ 225 / 1 x 100 mL**
500 µg/mL each in 2-5% HNO_3 tr. HF 12 comps.

Aluminum	Nickel
Barium	Silicon
Calcium	Sodium
Iron	Titanium
Magnesium	Vanadium
Manganese	Zinc

Hydrochloric Acid Diluent

D-5600-BLH-5 **$ 50 / 1 x 500 mL**
D-5600-BLH-L-VAP **$ 65 / L (2 x 500 mL)**

20% HCl in ASTM Type I water

Lithium Borate Diluent

D-5600-LIB-1 **$ 125 / 1 x 100 mL**
D-5600-LIB-5 **$ 180 / 1 x 500 mL**

2.0% Lithium Borate in 10% HCl

Technical Note

D5600 Ready-to-Aspirate Standards
We have formulated the following stock standards for ASTM Method D5600. We have prepared numerous **Ready-to-Aspirate** ICP multi-element solutions. Should your company want to eliminate the preparation process for Inorganic standards, contact our Inorganic Technical Department for a quote on a **Ready-to-Aspirate** working level Inorganic standards.

▼ Hazardous fee not required.

ICP/MS
Multi-Element Standards

■ **Ultra Pure Matrix** ■ **Special Packaging** ■ **Traceability to National Reference Materials**

AccuStandard's ICP/MS Standards are formulated to meet the needs of this very special instrument. As matrix effect is of utmost concern, each standard is formulated in specially purified 18 megohm de-ionized water and ultra pure acids. After both wet chemical and instrumental analysis, the standards are packaged in acid leached FLPE containers to provide required protection.

Calibration Standards

These five standards encompass the entire range of elements all at 10 ppm.

Calibration Standard 1

ICP-MS-CAL1-1 **$ 110 / 100 mL**
10 µg/mL each in 5% HNO_3 17 comps.

Element	Most Abundant Isotope
Ce (Cerium)	140
Dy (Dysprosium)	164
Er (Erbium)	166
Eu (Europium)	153
Gd (Gadolinium)	158
Ho (Holmium)	165
La (Lanthanum)	139
Lu (Lutetium)	175
Nd (Neodymium)	143
Pr (Praseodymium)	141
Sm (Samarium)	152
Sc (Scandium)	45
Tb (Terbium)	159
Th (Thorium)	232
Tm (Thulium)	169
Yb (Ytterbium)	174
Y (Yttrium)	89

Calibration Standard 4

ICP-MS-CAL4-1 ▼ **$ 95 / 100 mL**
10 µg/mL each in H_2O tr. HF 12 comps.

Element	Most Abundant Isotope
B (Boron)	11
Ge (Germanium)	74
Mo (Molybdenum)	98
Nb (Niobium)	93
P (Phosphorous)	31
Re (Rhenium)	187
Si (Silicon)	28
S (Sulphur)	32
Ta (Tantalum)	181
Ti (Titanium)	48
W (Tungsten)	184
Zr (Zirconium)	90

Calibration Standard 2

ICP-MS-CAL2-1 **$ 180 / 100 mL**
10 µg/mL each in 5% HNO_3 29 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Bi (Bismuth)	209
Cd (Cadmium)	114
Ca (Calcium)	40
Cs (Cesium)	133
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Ga (Gallium)	69
In (Indium)	115
Fe (Iron)	56
Pb (Lead)	208
Li (Lithium)	7
Mg (Magnesium)	24
Mn (Manganese)	55
Ni (Nickel)	58
K (Potassium)	39
Rb (Rubidium)	85
Se (Selenium)	80
Ag (Silver)	107
Na (Sodium)	23
Sr (Strontium)	88
Tl (Thallium)	205
U (Uranium)	238
V (Vanadium)	51
Zn (Zinc)	64

Calibration Standard Set

ICP-MS-CAL-1-SET **$ 390 / 5 x 100 mL**

ICP-MS-CAL1-1
ICP-MS-CAL2-1
ICP-MS-CAL3-1
ICP-MS-CAL4-1
ICP-MS-CAL5-1

Calibration Standard 3

ICP-MS-CAL3-1 **$ 80 / 100 mL**
10 µg/mL each in 10% HCl 10 comps.

Element	Most Abundant Isotope
Sb (Antimony)	121
Au (Gold)	197
Hf (Hafnium)	180
Ir (Iridium)	193
Pd (Palladium)	106
Pt (Platinum)	195
Rh (Rhodium)	103
Ru (Ruthenium)	102
Te (Tellurium)	130
Sn (Tin)	120

Calibration Standard 5

ICP-MS-CAL5-1 **$ 30 / 100 mL**
10 µg/mL in 5% HNO_3

Element	Most Abundant Isotope
Hg *(Mercury)*	202



Matrix Blanks

Nitric Acid Blank

ICP-MS-BLN-1 **$ 30 / 100 mL**
ICP-MS-BLN-5 **$ 45 / 500 mL**

5% HNO_3 in 18 Megohm ASTM Type I deionized Water

Hydrochloric Acid Blank

ICP-MS-BLH-1 **$ 30 / 100 mL**
ICP-MS-BLH-5 **$ 45 / 500 mL**

5% HCl in 18 Megohm ASTM Type I deionized Water

These blanks are prepared from the same water source and acids as your standards and therefore provide a consistent matrix. They are excellent as a blank, preparing a standard curve, or as a diluent for standards and samples.

Water Blank

ICP-MS-BLW-1 ▼ **$ 30 / 100 mL**
ICP-MS-BLW-5 ▼ **$ 40 / 500 mL**

18 Megohm ASTM Type I deionized Water

▼ Hazardous fee not required.

Tuning Solutions

We offer two tuning solutions, both range from 7-238 mass units. Choose the one which best suits your needs.

ICP-MS-TUNSOL1-1 **$ 100 / 100 mL**
100 µg/mL each in 2% HNO_3 8 comps.

Element	Most Abundant Isotope
Ba (Barium)	138
Be (Beryllium)	9
Cu (Copper)	63
In (Indium)	115
Li (Lithium)	7
Mg (Magnesium)	24
Tl (Thallium)	205
U (Uranium)	238

ICP-MS-TUNSOL2-1 **$ 165 / 100 mL**
100 µg/mL each in 2% HNO_3 13 comps.

Element	Most Abundant Isotope
Ba (Barium)	138
Be (Beryllium)	9
Bi (Bismuth)	209
Ce (Cerium)	140
Cu (Copper)	63
Ho (Holmium)	165
In (Indium)	115
Pb (Lead)	208
Li (Lithium)	7
Mg (Magnesium)	24
Tl (Thallium)	205
U (Uranium)	238
Y (Yttrium)	89

Interference Check Standards

Solution A

ICP-MS-INTA-1 **$ 310 / 100 mL**
At stated conc. (µg/mL) in 1% HNO_3 12 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	1000	27
C (Carbon)	2000	12
Ca (Calcium)	3000	40
Cl (Chloride)	18000	35
Fe (Iron)	2500	56
Mg (Magnesium)	1000	24
Mo (Molybdenum)	20	98
P (Phosphorous)	1000	31
K (Potassium)	1000	39
Na (Sodium)	2500	23
S (Sulphur)	1000	32
Ti (Titanium)	20	48

Solution B

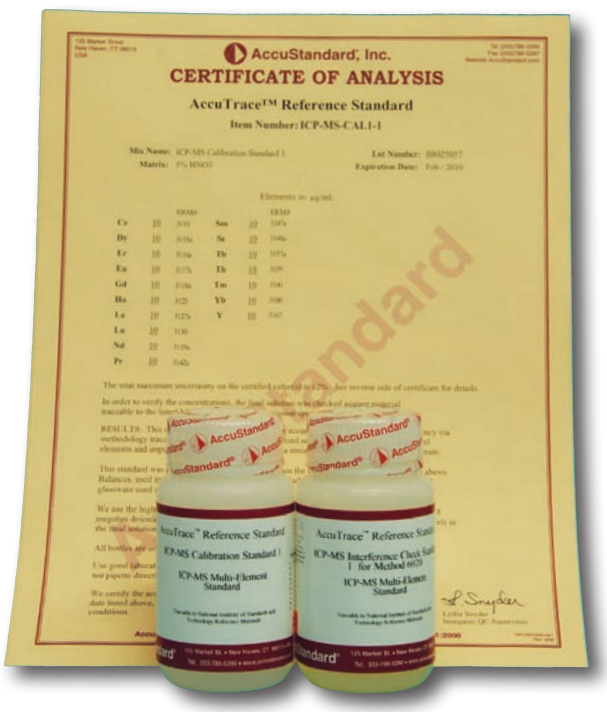
ICP-MS-INTB-1 **$ 95 / 100 mL**
At stated conc. (µg/mL) in 2% HNO_3 11 comps.

Element	µg/mL	Most Abundant Isotope
As *(Arsenic)*	10	75
Cd *(Cadmium)*	10	114
C *(Carbon)*	20	12
Cr *(Chromium)*	20	52
Cu *(Copper)*	20	63
Mn *(Manganese)*	20	55
Ni *(Nickel)*	20	58
Se *(Selenium)*	10	80
Ag *(Silver)*	20	107
V *(Vanadium)*	20	51
Zn *(Zinc)*	10	64

Interference Check Standard Set

ICP-MS-INT-1-SET **$ 350 / 2 x 100 mL**

ICP-MS-INTA-1 ICP-MS-INTB-1



Memory Check Solution

Memory Check Solution Sets

ICP-MS-MEMCHKA-R1-SET
$ 215 / 2 x 100 mL
ICP-MS-MEMCHKA1-R1
ICP-MS-MEMCHKA2-R1

ICP-MS-MEMCHK-R1-SET
$ 250 / 3 x 100 mL
ICP-MS-MEMCHKA1-R1
ICP-MS-MEMCHKA2-R1
ICP-MS-MEMCHKB-R1

Solution A

ICP-MS-MEMCHKA1-R1 **100 mL**
At stated conc. (µg/mL) in 2% HNO_3 24 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	1000	27
Sb (Antimony)	20	121
As (Arsenic)	20	75
Ba (Barium)	20	138
Be (Beryllium)	20	9
Cd (Cadmium)	20	114
Ca (Calcium)	1000	40
C (Carbon)	2000	12
Cr (Chromium)	20	52
Co (Cobalt)	20	59
Cu (Copper)	20	63
Fe (Iron)	1000	56
Pb (Lead)	20	208
Mg (Magnesium)	1000	24
Mo (Molybdenum)	20	98
K (Potassium)	1000	39
Ti (Titanium)	20	48
Mn (Manganese)	20	55
Ni (Nickel)	20	58
Se (Selenium)	20	80
Na (Sodium)	1000	23
Tl (Thallium)	20	205
V (Vanadium)	20	51
Zn (Zinc)	20	64

ICP-MS-MEMCHKA2-R1 **100 mL**
20 µg/mL In 2% HNO_3

Element	Most Abundant Isotope
Ag (Silver)	107

Solution B

ICP-MS-MEMCHKB-R1 ▼ **$ 60 / 100 mL**
At stated conc. (µg/mL) in H_2O 3 comps.

Element	µg/mL	Most Abundant Isotope
Cl (Chloride)	7200	35
P (Phosphorous)	1000	31
S (Sulphur)	1000	32

Technical Note

These memory check solutions are not designed to be used as standards. The solutions should be mixed together right before aspiration. Precipitate will form over time - this is normal and will not affect the performance of the solution. The mixture is used only to determine the memory or "carry-over" that occurs after running a "concentrated" solution.

▼ Hazardous fee not required.

ICP/MS
Multi-Element Standards



Spiking Standards

Spiking Standard for Water

ICP-MS-SPIKE-W-1 **$ 130 / 100 mL**

At stated conc. (µg/mL) in 5% HNO_3 17 comps.

Element	µg/mL	Most Abundant Isotope
Sb (Antimony)	100	121
As (Arsenic)	50	75
Ba (Barium)	250	138
Be (Beryllium)	25	9
Cd (Cadmium)	25	114
Cr (Chromium)	100	52
Co (Cobalt)	100	59
Cu (Copper)	100	63
Fe (Iron)	500	56
Pb (Lead)	50	208
Mn (Manganese)	100	55
Ni (Nickel)	100	58
Se (Selenium)	25	80
Ag (Silver)	25	107
Tl (Thallium)	25	205
V (Vanadium)	100	51
Zn (Zinc)	250	64

Spiking Standard for Soil

ICP-MS-SPIKE-S-1 **$ 100 / 100 mL**

At stated conc. (µg/mL) in 5% HNO_3 15 comps.

Element	µg/mL	Most Abundant Isotope
Sb (Antimony)	100	121
As (Arsenic)	50	75
Ba (Barium)	250	138
Be (Beryllium)	25	9
Cd (Cadmium)	50	114
Cr (Chromium)	250	52
Co (Cobalt)	100	59
Cu (Copper)	250	63
Pb (Lead)	100	208
Ni (Nickel)	125	58
Se (Selenium)	25	80
Ag (Silver)	25	107
Tl (Thallium)	25	205
V (Vanadium)	150	51
Zn (Zinc)	250	90

Spiking Standard Set

ICP-MS-SPIKE-1-SET **$ 165 / 2 x 100 mL**

ICP-MS-SPIKE-W-1 ICP-MS-SPIKE-S-1

Quality Control

Sample 1

ICP-MS-QC1-1 **$ 63 / 100 mL**

10 µg/mL each in 2% HNO_3 9 comps.

Element	Most Abundant Isotope
Be (Beryllium)	9
Bi (Bismuth)	209
Ce (Cerium)	140
Co (Cobalt)	59
In (Indium)	115
Pb (Lead)	208
Mg (Magnesium)	24
Ni (Nickel)	58
U (Uranium)	238

Sample 2

ICP-MS-QC2-1 **$ 170 / 100 mL**

10 µg/mL each in 5% HNO_3 25 comps

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Cd (Cadmium)	114
Ca (Calcium)	40
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Fe (Iron)	56
Pb (Lead)	208
Mg (Magnesium)	24
Mn (Manganese)	55
Mo (Molybdenum)	98
Ni (Nickel)	56
K (Potassium)	39
Se (Selenium)	80
Ag (Silver)	107
Na (Sodium)	23
Tl (Thallium)	205
Th (Thorium)	232
U (Uranium)	238
V (Vanadium)	51
Zn (Zinc)	64

Sample 3

ICP-MS-QC3-1 **$ 250 / 100 mL**

10 µg/mL each in 5% HNO_3 tr. HF 21 comps.

Element	Most Abundant Isotope
Sb (Antimony)	121
As (Arsenic)	75
Be (Beryllium)	9
Cd (Cadmium)	114
Ca (Calcium)	40
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Fe (Iron)	56
Pb (Lead)	208
Li (Lithium)	7
Mg (Magnesium)	24
Mn (Manganese)	55
Mo (Molybdenum)	98
Ni (Nickel)	58
Se (Selenium)	80
Sr (Strontium)	88
Tl (Thallium)	205
Ti (Titanium)	48
V (Vanadium)	51
Zn (Zinc)	64

Internal Standards

Single Internal Standards

For convenience we offer two concentrations - You decide which is most convenient.

Element	Matrix	Unit	10 µg/mL	Price	100 µg/mL	Price
Bismuth	5% HNO	100 mL	ICP-MS-IS-BI-1	$ 30	ICP-MS-IS-BI-1-10X	$ 35
Indium	5% HNO_3	100 mL	ICP-MS-IS-IN-1	30	ICP-MS-IS-IN-1-10X	35
Rhodium	10% HCl	100 mL	ICP-MS-IS-RH-1	95	ICP-MS-IS-RH-1-10X	100
Scandium	5% HNO_3	100 mL	ICP-MS-IS-SC-1	55	ICP-MS-IS-SC-1-10X	60
Terbium	5% HNO_3	100 mL	ICP-MS-IS-TB-1	30	ICP-MS-IS-TB-1-10X	35
Yttrium	5% HNO_3	100 mL	ICP-MS-IS-Y-1	30	ICP-MS-IS-Y-1-10X	35

Internal Standard Mix

These internal standards have been chosen because they all have nearly 100% abundance of a single isotope and they are not commonly found in routine samples.

ICP-MS-IS-MIX1-1 **$ 70 / 100 mL**

10 µg/mL each in 2% HNO_3 7 comps.

Element	Most Abundant Isotope
Bi (Bismuth)	209
Ho (Holmium)	165
In (Indium)	115
6-Li (Lithium-6)	6
Sc (Scandium)	45
Tb (Terbium)	159
Y (Yttrium)	89

Method 200.8 Determination of Trace Elements in Water and Waste by ICP/MS

Calibration Standards

Calibration Standard #1 (1991 Version)

ICP-MS-200.8-CAL1-1 **$ 120 / 100 mL**

10 µg/mL each in 5% HNO_3 tr. HF 18 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Be (Beryllium)	9
Cd (Cadmium)	114
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Pb (Lead)	208
Mn (Manganese)	55
Mo (Molybdenum)	98
Ni (Nickel)	58
Se (Selenium)	80
Tl (Thallium)	205
Th (Thorium)	232
U (Uranium)	238
V (Vanadium)	51
Zn (Zinc)	64

Calibration Standard #2

ICP-MS-200.8-CAL2-1 **$ 75 / 100 mL**

10 µg/mL each in 2% HNO_3 tr. HF 2 comps.

Element	Most Abundant Isotope
Ba (Barium)	138
Ag (Silver)	67

Calibration Standard #1R (1994 Version)

ICP-MS-200.8-CAL1R-1 **$ 120 / 100 mL**

At stated conc. (µg/mL) in 2% HNO_3 tr. HF 18 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	10	27
Sb (Antimony)	10	121
As (Arsenic)	10	75
Be (Beryllium)	10	9
Cd (Cadmium)	10	114
Cr (Chromium)	10	52
Co (Cobalt)	10	59
Cu (Copper)	10	63
Pb (Lead)	10	208
Mn (Manganese)	10	55
Mo (Molybdenum)	10	98
Ni (Nickel)	10	58
Se (Selenium)	50	80
Tl (Thallium)	10	205
Th (Thorium)	10	232
U (Uranium)	10	238
V (Vanadium)	10	51
Zn (Zinc)	10	64

Calibration Standard #3

ICP-MS-200.8-CAL3-1 **$ 30 / 100 mL**

1 component in 5% HNO_3

Element	µg/mL	Most Abundant Isotope
Hg *(Mercury)*	5	202

Internal Standards

Internal Standard #1

ICP-MS-200.8-IS-1 **$ 135 / 100 mL**

100 µg/mL each in 2% HNO_3 5 comps.

Element	Most Abundant Isotope
Sc (Scandium)	45
Y (Yttrium)	89
In (Indium)	115
Tb (Terbium)	159
Bi (Bismuth)	209

Internal Standard #2

ICP-MS-200.8-IS2-1 **$ 75 / 100 mL**

100 µg/mL in 2% HNO_3

Element	Most Abundant Isotope
Au (Gold)	197

Tuning Standard

ICP-MS-200.8-TUN-1 **$ 70 / 100 mL**

10 µg/mL each in 2% HNO_3 5 comps.

Element	Most Abundant Isotope
Be (Beryllium)	75
Mg (Magnesium)	24
Co (Cobalt)	59
In (Indium)	115
Pb (Lead)	208

Method 6020 Standards for Inductively Coupled Mass Spectrometry

Calibration Standard

ICP-MS-6020-CAL-R-1 **$ 175 / 100 mL**

10 µg/mL each in 2% HNO_3 22 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Cd (Cadmium)	114
Ca (Calcium)	40
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Fe (Iron)	56
Pb (Lead)	208
Mg (Magnesium)	24
Mn (Manganese)	55
Ni (Nickel)	58
K (Potassium)	39
Se (Selenium)	80
Ag (Silver)	107
Na (Sodium)	23
Tl (Thallium)	205
V (Vanadium)	51
Zn (Zinc)	64

Calibration Standard

ICP-MS-6020-CAL-1 **$ 125 / 100 mL**

10 µg/mL each in 2% HNO_3 15 comps.

Element	Most Abundant Isotope
Al (Aluminum)	27
Sb (Antimony)	121
As (Arsenic)	75
Ba (Barium)	138
Be (Beryllium)	9
Cd (Cadmium)	114
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Pb (Lead)	208
Mn (Manganese)	55
Ni (Nickel)	58
Ag (Silver)	107
Tl (Thallium)	205
Zn (Zinc)	64

Interference Check Standard #1

ICP-MS-6020-INT1-1 **$ 310 / 100 mL**

At stated conc. (µg/mL) in 2% HNO_3 12 comps.

Element	µg/mL	Most Abundant Isotope
Al (Aluminum)	1000	27
Cl (Chloride)	10000	35
Ca (Calcium)	1000	40
C (Carbon)	2000	12
Fe (Iron)	1000	56
Mg (Magnesium)	1000	24
Mo (Molybdenum)	20	98
P (Phosphorous)	1000	31
K (Potassium)	1000	39
Na (Sodium)	1000	23
S (Sulfur)	1000	32
Ti (Titanium)	20	48

Interference Check Standard #2

ICP-MS-6020-INT2-1 **$ 75 / 100 mL**

2 µg/mL each in 5% HNO_3 tr. HF 9 comps.

Element	Most Abundant Isotope
As (Arsenic)	75
Cd (Cadmium)	114
Cr (Chromium)	52
Co (Cobalt)	59
Cu (Copper)	63
Mn (Manganese)	55
Ni (Nickel)	58
Ag (Silver)	107
Zn (Zinc)	64

Tuning Standard

ICP-MS-6020-TUN-1 **$ 75 / 100 mL**

10 µg/mL each in 2% HNO_3 4 comps.

Element	Most Abundant Isotope
Co (Cobalt)	59
In (Indium)	115
Li (Lithium)	7
Tl (Thallium)	205

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Organometallic Standards
AA, ICP, DCP & XRF Analysis

These Standards were formulated for the analysis of metals in oils and other organic matrices. These Standards and curves provide a convenient way to analyze for metals (wear metals, additives and contaminants) in lubricating oils, gasolines, residual oils, crude oils, turbine fuels and environmental samples. All standards undergo rigorous quality assurance checks. Major constituents in the final Standard are typically analyzed by both plasma emission and rotrode techniques. Organometallic Standards listed on this page may contain sulfur which can be introduced by possible sulfonate starting materials used to formulate the actual organometallic standard. We developed a Premium Organometallic line for chemists preferring to have organometallic standards with <1 ppm sulfur or phosphorous (see Table of Contents).

- Single & Multi Element Standards
- Prepared Calibration Curves
- Formulated from Ultra High Purity Organometallic starting materials & matrices
- Certificate of Analysis

Single Element Wear Metals

Organometallic ICP/XRF

	1000 µg/g in 75 cSt base oil		5000 µg/g in 75 cSt base oil	
Element	**Cat. No. (50 g)**	**Price**	**Cat. No. (50 g)**	**Price**
Al (Aluminum)	WM-75CST-01	$ 38	WM-75CST-01-5X	$ 48
Sb (Antimony)	WM-75CST-02	38	WM-75CST-02-5X	48
As (Arsenic)	WM-75CST-03	44	----------	----
Ba (Barium)	WM-75CST-04	38	WM-75CST-04-5X	48
Be (Beryllium)	WM-75CST-05	41	----------	----
Bi (Bismuth)	WM-75CST-06	38	WM-75CST-06-5X	221
B (Boron)	WM-75CST-07	38	WM-75CST-07-5X	48
Cd (Cadmium)	WM-75CST-08	38	WM-75CST-08-5X	48
Ca (Calcium)	WM-75CST-09	38	WM-75CST-09-5X	48
Cr (Chromium)	WM-75CST-13	38	WM-75CST-13-5X	48
Co (Cobalt)	WM-75CST-14	38	WM-75CST-14-5X	48
Cu (Copper)	WM-75CST-15	38	WM-75CST-15-5X	48
Fe (Iron)	WM-75CST-27	38	WM-75CST-27-5X	48
La (Lanthanum)	WM-75CST-28	84	----------	----
Pb (Lead)	WM-75CST-29	38	WM-75CST-29-5X	48
Li (Lithium)	WM-75CST-30	38	WM-75CST-30-5X	48
Mg (Magnesium)	WM-75CST-32	38	WM-75CST-32-5X	48
Mn (Manganese)	WM-75CST-33	38	WM-75CST-33-5X	48
Hg (Mercury)	WM-75CST-34	44	----------	----
Mo (Molybdenum)	WM-75CST-35	38	WM-75CST-35-5X	48
Ni (Nickel)	WM-75CST-37	38	WM-75CST-37-5X	48
P (Phosphorous)	WM-75CST-41	38	WM-75CST-41-5X	48
K (Potassium)	WM-75CST-43	38	WM-75CST-43-5X	48
Sc (Scandium)	WM-75CST-50	65	----------	----
Se (Selenium)	WM-75CST-51	44	----------	----
Si (Silicon)	WM-75CST-52	38	WM-75CST-52-5X	48
Ag (Silver)	WM-75CST-53	38	WM-75CST-53-5X	48
Na (Sodium)	WM-75CST-54	38	WM-75CST-54-5X	48
Sr (Strontium)	WM-75CST-55	38	----------	----
S (Sulfur)	WM-75CST-56	38	WM-75CST-56-5X	48
Tl (Thallium)	WM-75CST-60	44	----------	----
Sn (Tin)	WM-75CST-63	38	WM-75CST-63-5X	48
Ti (Titanium)	WM-75CST-64	38	WM-75CST-64-5X	48
V (Vanadium)	WM-75CST-67	38	WM-75CST-67-5X	48
Y (Yttrium)	WM-75CST-69	44	WM-75CST-69-5X	106
Zn (Zinc)	WM-75CST-70	38	WM-75CST-70-5X	48
Zn (Zirconium)	WM-75CST-71	38	WM-75CST-71-5X	48

Matrix Oil and Stabilizer

75 cSt Oil

MOSOL-75 **$ 23 / 500 mL**

Stabilizer

WM-STAB **$ 95 / 1 x 50 g**

Technical Note

Used to improve the stability or Organometallic Standards when diluting into solvents such as Kerosene. Add 0.6% by weight.

Metals Additives

Metals Additives Standard

MA-900-100G **$ 114 / 100 g**
MA-900-200G **$ 165 / 200 g**
900 µg/g each in Hydrocarbon oil
MA-1000-100G **$ 149 / 100 g**
MA-1000-200G **$ 251 / 200 g**
1000 µg/g each in Hydrocarbon oil
MA-3000-100G **$ 295 / 100 g**
MA-3000-200G **$ 471 / 200 g**
3000 µg/g each in Hydrocarbon oil
MA-5000-100G **$ 424 / 100 g**
MA-5000-200G **$ 685 / 200 g**
5000 µg/g each in Hydrocarbon oil 5 comps.

Ba (Barium)
Ca (Calcium)
Mg (Magnesium)
P (Phosphorous)
Zn (Zinc)



See our BioFuel Standards in the Petrochemical Section of this Catalog for Wear Metals in BioFuels.

12 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-12-1X-100G	$ 90
	200 g	WM-12-1X-200G	95
30 µg/g	100 g	WM-12-3X-100G	90
	200 g	WM-12-3X-200G	95
50 µg/g	100 g	WM-12-5X-100G	95
	200 g	WM-12-5X-200G	100
100 µg/g	100 g	WM-12-10X-100G	100
	200 g	WM-12-10X-200G	150
300 µg/g	100 g	WM-12-30X-100G	120
	200 g	WM-12-30X-200G	215
500 µg/g	100 g	WM-12-50X-100G	180
	200 g	WM-12-50X-200G	310
900 µg/g	100 g	WM-12-90X-100G	250
	200 g	WM-12-90X-200G	445
100 gram Set		WM-12-100G-SET set of above 7 x 100 g	$ 825
200 gram Set		WM-12-200G-SET set of above 7 x 200 g	$ 1250

Each Wear Metal Standard contains 12 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)

21 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-21-1X-100G	$ 95
	200 g	WM-21-1X-200G	100
30 µg/g	100 g	WM-21-3X-100G	95
	200 g	WM-21-3X-200G	100
50 µg/g	100 g	WM-21-5X-100G	100
	200 g	WM-21-5X-200G	105
100 µg/g	100 g	WM-21-10X-100G	105
	200 g	WM-21-10X-200G	160
300 µg/g	100 g	WM-21-30X-100G	170
	200 g	WM-21-30X-200G	310
500 µg/g	100 g	WM-21-50X-100G	245
	200 g	WM-21-50X-200G	445
900 µg/g	100 g	WM-21-90X-100G	380
	200 g	WM-21-90X-200G	675
100 gram Set		WM-21-100G-SET set of above 7 x 100 g	$ 1050
200 gram Set		WM-21-200G-SET set of above 7 x 200 g	$ 1700

Each Wear Metal Standard contains 21 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

22 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-22-1X-100G	$ 115
	200 g	WM-22-1X-200G	120
30 µg/g	100 g	WM-22-3X-100G	115
	200 g	WM-22-3X-200G	120
50 µg/g	100 g	WM-22-5X-100G	120
	200 g	WM-22-5X-200G	125
100 µg/g	100 g	WM-22-10X-100G	125
	200 g	WM-22-10X-200G	145
300 µg/g	100 g	WM-22-30X-100G	190
	200 g	WM-22-30X-200G	340
500 µg/g	100 g	WM-22-50X-100G	275
	200 g	WM-22-50X-200G	485
900 µg/g	100 g	WM-22-90X-100G	420
	200 g	WM-22-90X-200G	725
100 gram Set		WM-22-100G-SET set of above 7 x 100 g	$ 1225
200 gram Set		WM-22-200G-SET set of above 7 x 200 g	$ 1850

Each Wear Metal Standard contains 22 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
K (Potassium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

23 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 g	WM-23-1X-100G	$ 135
	200 g	WM-23-1X-200G	140
30 µg/g	100 g	WM-23-3X-100G	135
	200 g	WM-23-3X-200G	140
50 µg/g	100 g	WM-23-5X-100G	140
	200 g	WM-23-5X-200G	145
100 µg/g	100 g	WM-23-10X-100G	145
	200 g	WM-23-10X-200G	165
300 µg/g	100 g	WM-23-30X-100G	210
	200 g	WM-23-30X-200G	395
500 µg/g	100 g	WM-23-50X-100G	305
	200 g	WM-23-50X-200G	525
900 µg/g	100 g	WM-23-90X-100G	495
	200 g	WM-23-90X-200G	765
100 gram Set		WM-23-100G-SET set of above 7 x 100 g	$ 1400
200 gram Set		WM-23-200G-SET set of above 7 x 200 g	$ 2025

Each Wear Metal Standard contains 23 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
K (Potassium)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Sb (Antimomy)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)



Organometallic Standards
Premium Sulfur-Free

- Highly Concentrated Liquid Organometallic Standards
- Stabilized
- Sulfur/Phosphorous free (< 1 ppm)
- Ready for Use

Organometallic Single Element Stock Standards

Sulfur free Element	@ 1000 µg/g Cat. No.	Price 50 mL	@ 5000 µg/g Cat. No.	Price 50 mL
Al (Aluminum)	WM-NMS-01	$ 55	WM-NMS-01-5X	$ 72
Sb (Antimony)	WM-NMS-02	55	WM-NMS-02-5X	72
As (Arsenic)	WM-NMS-03	55	WM-NMS-03-5X	72
Ba (Barium)	WM-NMS-04	55	WM-NMS-04-5X	72
Be (Beryllium)	WM-NMS-05	69	WM-NMS-05-5X	118
Cd (Cadmium)	WM-NMS-08	55	WM-NMS-08-5X	72
Ca (Calcium)	WM-NMS-09	55	WM-NMS-09-5X	72
Ce (Cerium)	WM-NMS-11	55	WM-NMS-11-5X	72
Cr (Chromium)	WM-NMS-13	44	WM-NMS-13-5X	58
Co (Cobalt)	WM-NMS-14	44	WM-NMS-14-5X	58
Cu (Copper)	WM-NMS-15	44	WM-NMS-15-5X	58
Ga (Gallium)	WM-NMS-20	72	WM-NMS-20-5X	142
Au (Gold)	WM-NMS-22	111	----------	----
Fe (Iron)	WM-NMS-27	55	WM-NMS-27-5X	72
Pb (Lead)	WM-NMS-29	55	WM-NMS-29-5X	72
Li (Lithium)	WM-NMS-30	72	WM-NMS-30-5X	124
Mg (Magnesium)	WM-NMS-32	55	WM-NMS-32-5X	72
Mn (Manganese)	WM-NMS-33	55	WM-NMS-33-5X	72
Hg (Mercury)	WM-NMS-34	62	WM-NMS-34-5X	110
Mo (Molybdenum)	WM-NMS-35	62	WM-NMS-35-5X	110
Ni (Nickel)	WM-NMS-37	55	WM-NMS-37-5X	72
P (Phosphorous)	WM-NMS-41	55	WM-NMS-41-5X	72
K (Potassium)	WM-NMS-43	55	WM-NMS-43-5X	72
Se (Selenium)	WM-NMS-51	55	WM-NMS-51-5X	72
Si (Silicon)	WM-NMS-52	72	WM-NMS-52-5X	124
Ag (Silver)	WM-NMS-53	72	WM-NMS-53-5X	124
Na (Sodium)	WM-NMS-54	55	WM-NMS-54-5X	72
Sr (Strontium)	WM-NMS-55	55	WM-NMS-55-5X	72
Tl (Thallium)	WM-NMS-60	55	WM-NMS-60-5X	72
Sn (Tin)	WM-NMS-63	55	WM-NMS-63-5X	72
Ti (Titanium)	WM-NMS-64	55	WM-NMS-64-5X	72
V (Vanadium)	WM-NMS-67	55	WM-NMS-67-5X	72
Y (Yttrium)	WM-NMS-69	60	WM-NMS-69-5X	105
Zn (Zinc)	WM-NMS-70	55	WM-NMS-70-5X	72
Zr (Zirconium)	WM-NMS-71	55	WM-NMS-71-5X	72

Stabilization Solutions

The solutions were specifically designed for chelating & solubilizing our line of Sulfur-Free Organometallic Standards. Contact Tech Service for additional information.

Stabilizer Solution A
ASTM-P-0122-0.5 $ 80 / 50 mL
ASTM-P-0122-1 $ 120 / 100 mL

Stabilizer Solution B
ASTM-P-0123-0.5 $ 80 / 50 mL
ASTM-P-0123-1 $ 120 / 100 mL

Stabilizer Solution C
ASTM-P-0124-0.5 $ 80 / 50 mL
ASTM-P-0124-1 $ 120 / 100 mL

Stabilizer Solution D
ASTM-P-0125-0.5 $ 80 / 50 mL
ASTM-P-0125-1 $ 120 / 100 mL

Premium Sulfur-Free
Sulfur below detection limits

Contains No Metallic Sulfonates

Organometallic standards do not require a hazardous shipping fee except where noted.

These highly concentrated stabilized solutions can be used for customer specific formulations of additive elements in lubricating oils, iron, nickel and vanadium in residual oil, and wear metals in oils. These organometallic solutions can also be used to prepare single element or multi-element standards for plasma emission (ICP or DCP), rotating disk (rotrode), or atomic absorption spectroscopy (AA). The starting materials are PURE REAGENTS and have been certified against NIST SRM's whenever available. **THEY DO NOT CONTAIN PHOSPHORUS OR SULFUR.**

Organometallic Single Element Concentrates

Element	Conc. (Wt. %)	Cat. No.	Price / 25 grams	Cat. No.	Price / 50 grams
Al (Aluminum)	3	WM-NMS-01-30X-25G	$ 178	WM-NMS-01-30X-50G	$ 261
Sb (Antimony)	2	WM-NMS-02-20X-25G	122	WM-NMS-02-20X-50G	183
Ba (Barium)	12.5	WM-NMS-04-125X-25G	540	WM-NMS-04-125X-50G	780
Cd (Cadmium)	10	WM-NMS-08-100X-25G	510	WM-NMS-08-100X-50G	710
Ca (Calcium)	5	WM-NMS-09-50X-25G	272	WM-NMS-09-50X-50G	422
Ce (Cerium)	5	WM-NMS-11-50X-25G	272	WM-NMS-11-50X-50G	422
Cr (Chromium)	3.5	WM-NMS-13-35X-25G	194	WM-NMS-13-35X-50G	299
Co (Cobalt)	7.5	WM-NMS-14-75X-25G	422	WM-NMS-14-75X-50G	577
Cu (Copper)	6	WM-NMS-15-60X-25G	344	WM-NMS-15-60X-50G	516
Fe (Iron)	4	WM-NMS-27-40X-25G	239	WM-NMS-27-40X-50G	361
Pb (Lead)	20	WM-NMS-29-200X-25G	900	WM-NMS-29-200X-50G	1260
Li (Lithium)	1.5	WM-NMS-30-15X-25G	155	WM-NMS-30-15X-50G	239
Mg (Magnesium)	3	WM-NMS-32-30X-25G	180	WM-NMS-32-30X-50G	278
Mn (Manganese)	6	WM-NMS-33-60X-25G	333	WM-NMS-33-60X-50G	505
Mo (Molybdenum)	5	WM-NMS-35-50X-25G	272	WM-NMS-35-50X-50G	422
Ni (Nickel)	5	WM-NMS-37-50X-25G	272	WM-NMS-37-50X-50G	422
P (Phosphorus)	5	WM-NMS-41-50X-25G	272	WM-NMS-41-50X-50G	422
K (Potassium)	7.5	WM-NMS-43-75X-25G	422	WM-NMS-43-75X-50G	577
Pr (Praseodymium)	3	WM-NMS-44-30X-25G	175	WM-NMS-44-30X-50G	240
Se (Selenium)	3.5	WM-NMS-51-35X-25G	200	WM-NMS-51-35X-50G	270
Si (Silicon)	7.5	WM-NMS-52-75X-25G	383	WM-NMS-52-75X-50G	528
Na (Sodium)	2.5	WM-NMS-54-25X-25G	180	WM-NMS-54-25X-50G	278
Sr (Strontium)	10	WM-NMS-55-100X-25G	510	WM-NMS-55-100X-50G	710
Tl (Thallium)	5	WM-NMS-60-50X-25G	272	WM-NMS-60-50X-50G	422
Sn (Tin)	7.5	WM-NMS-63-75X-25G	422	WM-NMS-63-75X-50G	577
Ti (Titanium)	5	WM-NMS-64-50X-25G	272	WM-NMS-64-50X-50G	422
V (Vanadium)	4	WM-NMS-67-40X-25G	239	WM-NMS-67-40X-50G	361
Y (Yttrium)	2.5	WM-NMS-69-25X-25G	180	WM-NMS-69-25X-50G	278
Zn (Zinc)	6	WM-NMS-70-60X-25G	306	WM-NMS-70-60X-50G	461
Zr (Zirconium)	5	WM-NMS-71-50X-25G	272	WM-NMS-71-50X-50G	422

Technical Note

These standards are **sulfur-free** (below detection limits) **organometallic standards** for X-ray Fluorescence (XRF), plasma emission (ICP or DCP), rotating disk (rotrode), or atomic absorption (AA). They are stabilized for blending together with other analytes to prepare multi-element standards.

11 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-11-NMS-1X-1	$ 130
30 µg/g	100 mL	WM-11-NMS-3X-1	130
50 µg/g	100 mL	WM-11-NMS-5X-1	130
100 µg/g	100 mL	WM-11-NMS-10X-1	140
300 µg/g	100 mL	WM-11-NMS-30X-1	165
500 µg/g	100 mL	WM-11-NMS-50X-1	245
900 µg/g	100 mL	WM-11-NMS-90X-1	325
100 mL Set		**WM-11-NMS-1-SET**	**$ 1100**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 11 elements listed below in hydrocarbon oil at the stated concentration.

Al (Aluminum)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)

12 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-12-NMS-1X-1	$ 135
30 µg/g	100 mL	WM-12-NMS-3X-1	135
50 µg/g	100 mL	WM-12-NMS-5X-1	135
100 µg/g	100 mL	WM-12-NMS-10X-1	145
300 µg/g	100 mL	WM-12-NMS-30X-1	170
500 µg/g	100 mL	WM-12-NMS-50X-1	250
900 µg/g	100 mL	WM-12-NMS-90X-1	375
100 mL Set		**WM-12-NMS-1-SET**	**$ 1175**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 12 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Na (Sodium)
Ni (Nickel)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)

Contains No Metallic Sulfonates

Premium Sulfur-Free

Sulfur below detection limits

20 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-20-NMS-1X-1	$ 150
30 µg/g	100 mL	WM-20-NMS-3X-1	150
50 µg/g	100 mL	WM-20-NMS-5X-1	150
100 µg/g	100 mL	WM-20-NMS-10X-1	170
300 µg/g	100 mL	WM-20-NMS-30X-1	230
500 µg/g	100 mL	WM-20-NMS-50X-1	350
900 µg/g	100 mL	WM-20-NMS-90X-1	500
100 mL Set		**WM-20-NMS-1-SET**	**$ 1450**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 20 elements listed below in hydrocarbon oil at the stated concentration.

Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

21 Wear Metal Multi-Element

Conc.	Unit	Cat. No.	Price
10 µg/g	100 mL	WM-21-NMS-1X-1	$ 160
30 µg/g	100 mL	WM-21-NMS-3X-1	160
50 µg/g	100 mL	WM-21-NMS-5X-1	160
100 µg/g	100 mL	WM-21-NMS-10X-1	180
300 µg/g	100 mL	WM-21-NMS-30X-1	240
500 µg/g	100 mL	WM-21-NMS-50X-1	350
900 µg/g	100 mL	WM-21-NMS-50X-1	550
100 mL Set		**WM-21-NMS-1-SET**	**$ 1550**
		set of above 7 x 100 mL	

Each Wear Metal Standard contains 21 elements listed below in hydrocarbon oil at the stated concentration.

Ag (Silver)
Al (Aluminum)
B (Boron)
Ba (Barium)
Ca (Calcium)
Cd (Cadmium)
Cr (Chromium)
Cu (Copper)
Fe (Iron)
Mg (Magnesium)
Mn (Manganese)
Mo (Molybdenum)
Na (Sodium)
Ni (Nickel)
P (Phosphorus)
Pb (Lead)
Si (Silicon)
Sn (Tin)
Ti (Titanium)
V (Vanadium)
Zn (Zinc)

Recommended Internal Standard

Organometallic (Internal Standard) Sulfur free

	Conc.	Cat. No.	Price / 50 mL
Cobalt	1000 µg/g	WM-NMS-14	$ 44
	5000 µg/g	WM-NMS-14-5X	$ 58

Organometallic Standards
AA, ICP, DCP & XRF Analysis

Sulfur and Metals in Oil

Sulfur and Metals in Mineral Oil

ASTM-P-0100-SET — **$ 1675 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0100-01	0.00	0	0	$ 235
ASTM-P-0100-02	0.50	10	500	235
ASTM-P-0100-03	1.00	100	25	235
ASTM-P-0100-04	1.50	80	250	235
ASTM-P-0100-05	2.00	40	100	235
ASTM-P-0100-06	2.50	5	400	235
ASTM-P-0100-07	3.00	60	300	235
ASTM-P-0100-08	3.50	0	200	235
ASTM-P-0100-09	4.00	100	0	235
ASTM-P-0100-10	4.50	50	250	235
ASTM-P-0100-11	5.00	20	500	235
ASTM-P-0100-12	5.50	100	50	235

Sulfur and Metals in Residual Fuel Oil

ASTM-P-0101-SET — **$ 1965 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0101-01	0.00	0	0	$ 235
ASTM-P-0101-02	0.50	10	500	235
ASTM-P-0101-03	1.00	100	25	235
ASTM-P-0101-04	1.50	80	250	235
ASTM-P-0101-05	2.00	40	100	235
ASTM-P-0101-06	2.50	5	400	235
ASTM-P-0101-07	3.00	60	300	235
ASTM-P-0101-08	3.50	0	200	235
ASTM-P-0101-09	4.00	100	0	235
ASTM-P-0101-10	4.50	50	250	235
ASTM-P-0101-11	5.00	20	500	235
ASTM-P-0101-12	5.50	100	50	235

Test Method A - ICP with an Organic Solvent Specimen Solution

Sulfur and Metals in Mineral Oil

Designed for ASTM D5708

ASTM-P-0102-SET — **$ 1960 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Iron (µg/g)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0102-01	0.00	0	0	0	$ 265
ASTM-P-0102-02	0.50	300	10	500	265
ASTM-P-0102-03	1.00	500	100	25	265
ASTM-P-0102-04	-----	100	80	250	265
ASTM-P-0102-05	2.00	200	40	100	265
ASTM-P-0102-06	2.50	400	5	400	265
ASTM-P-0102-07	3.00	0	60	300	265
ASTM-P-0102-08	3.50	500	0	200	265
ASTM-P-0102-09	-----	100	100	0	265
ASTM-P-0102-10	4.50	300	50	250	265
ASTM-P-0102-11	5.00	200	20	500	265
ASTM-P-0102-12	5.50	50	100	50	265

Sulfur and Metals in Residual Fuel Oil

Designed for ASTM D5708

ASTM-P-0103-SET — **$ 2220 / 12 x 100 mL**

Cat. No.	Sulfur (Wt. %)	Iron (µg/g)	Nickel (µg/g)	Vanadium (µg/g)	100 mL Price
ASTM-P-0103-01	0.00	0	0	0	$ 280
ASTM-P-0103-02	0.50	300	10	500	280
ASTM-P-0103-03	1.00	500	100	25	280
ASTM-P-0103-04	-----	100	80	250	280
ASTM-P-0103-05	2.00	200	40	100	280
ASTM-P-0103-06	2.50	400	5	400	280
ASTM-P-0103-07	3.00	0	60	300	280
ASTM-P-0103-08	3.50	500	0	200	280
ASTM-P-0103-09	-----	100	100	0	280
ASTM-P-0103-10	4.50	300	50	250	280
ASTM-P-0103-11	5.00	200	20	500	280
ASTM-P-0103-12	5.50	50	100	50	280

After Acid Decomposition of Sample

Stock Multi-Element in Mineral Oil

D-5708-A-10X — **$ 150 / 100 mL**

100 µg/g in 20 cSt mineral oil — 3 comps.

Iron
Nickel
Vanadium

Working Level Multi-Element Aqueous Standard

D-5708-B-5 ▲ — **$ 105 / 500 mL**

10 µg/mL each in 2-5% HNO_3 — 3 comps.

Iron
Nickel
Vanadium

Stock Multi-Element Aqueous Standard

D-5863-95A-10X-1 ▲ — **$ 75 / 1 x 100 mL**

2-5% HNO_3 — 3 comps.

Iron	100	Vanadium	200
Nickel	200		

Nitric Acid Blank

CLP-BLN-5 ▲ — **$ 30 / 500 mL**

CLP-BLN-L-VAP ▲ — **$ 45 / 1 L** (2 x 500 mL)

5% HNO_3 in ASTM Type I Water

Stock Multi-Element Aqueous Standard

D-5708-B-10X-1 ▲ — **$ 60 / 100 mL**

D-5708-B-10X-5 ▲ — **$ 115 / 500 mL**

100 µg/mL each in 2-5% HNO_3 — 3 comps.

Iron
Nickel
Vanadium

Stock Multi-Element Standard in Mineral Oil

D-5863-95B-10X — **$ 160 / 1 x 100 g**

At stated conc. (µg/g) in 20 cst Mineral Oil — 3 comps.

Sodium	50	Vanadium	150
Nickel	200		

ISO/CD 14597 Vanadium and Nickel Standards with Manganese (Internal Standard)

Vanadium Standards - Low Range for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0104-SET — **$ 1050 / 9 x 100 mL**

Cat. No.	Vanadium Conc. (Wt.%)	Price 100 mL
ASTM-P-0104-01	0.0005	$ 165
ASTM-P-0104-02	0.0025	165
ASTM-P-0104-03	0.0050	165
ASTM-P-0104-04	0.0075	165
ASTM-P-0104-05	0.0100	165
ASTM-P-0104-06	0.0125	165
ASTM-P-0104-07	0.0150	165
ASTM-P-0104-08	0.0175	165
ASTM-P-0104-09	0.0200	165

Vanadium Standards - High Range for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0105-SET — **$ 825 / 7 x 100 mL**

Cat. No.	Vanadium Conc. (Wt.%)	Price 100 mL
ASTM-P-0105-01	0.0000	$ 135
ASTM-P-0105-02	0.0300	135
ASTM-P-0105-03	0.0400	135
ASTM-P-0105-04	0.0500	135
ASTM-P-0105-05	0.0600	135
ASTM-P-0105-06	0.0800	135
ASTM-P-0105-07	0.1000	135

Internal Standard

ASTM-P-0107-5 — **$ 235 / 500 mL**

Manganese @ 0.05 Wt. % in Xylene-Mineral Oil

Nickel Standards for ISO/CD 14597 with 0.05% Manganese Internal Standard in Xylene-Mineral Oil

ASTM-P-0106-SET — **$ 825 / 7 x 100 mL**

Cat. No.	Nickel Conc. (Wt.%)	Price 100 mL
ASTM-P-0106-01	0.0000	$ 135
ASTM-P-0106-02	0.0005	135
ASTM-P-0106-03	0.0010	135
ASTM-P-0106-04	0.0025	135
ASTM-P-0106-05	0.0050	135
ASTM-P-0106-06	0.0075	135
ASTM-P-0106-07	0.0100	135

▲ Hazardous fee required.

Lubricating Oil Standards

ASTM-P-0108-SET — **$ 2080 / 17 x 100 mL**

Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0108-01	0.600	0.005	0.175	0.060
ASTM-P-0108-02	0.500	0.200	0.050	0.080
ASTM-P-0108-03	0.400	0.150	0.300	0.180
ASTM-P-0108-04	0.260	0.250	0.150	0.120
ASTM-P-0108-05	0.005	0.005	0.450	0.070
ASTM-P-0108-06	0.400	0.025	0.350	0.100
ASTM-P-0108-07	0.300	0.060	0.250	0.120
ASTM-P-0108-08	0.200	0.100	0.450	0.100
ASTM-P-0108-09	0.060	0.080	0.300	0.130
ASTM-P-0108-10	0.060	0.050	0.200	0.050
ASTM-P-0108-11	0.050	0.120	0.100	0.075
ASTM-P-0108-12	0.025	0.150	0.200	0.130
ASTM-P-0108-13	0.005	0.200	0.400	0.150
ASTM-P-0108-14	0.170	0.250	0.550	0.110
ASTM-P-0108-15	0.100	0.100	0.200	0.200
ASTM-P-0108-16	0.010	0.010	0.600	0.250
ASTM-P-0108-17	0.000	0.000	0.000	0.000

ASTM-P-0109-SET — **$ 2450 / 17 x 100 mL**

Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0109-01	0.600	0.100	0.005	0.175	0.060
ASTM-P-0109-02	0.500	0.000	0.200	0.050	0.080
ASTM-P-0109-03	0.400	0.010	0.150	0.300	0.180
ASTM-P-0109-04	0.260	0.500	0.250	0.150	0.120
ASTM-P-0109-05	0.005	1.000	0.005	0.450	0.070
ASTM-P-0109-06	0.400	0.400	0.025	0.350	0.100
ASTM-P-0109-07	0.300	0.100	0.060	0.250	0.120
ASTM-P-0109-08	0.200	0.010	0.100	0.450	0.100
ASTM-P-0109-09	0.060	0.050	0.080	0.300	0.130
ASTM-P-0109-10	0.060	0.200	0.050	0.200	0.050
ASTM-P-0109-11	0.050	0.500	0.120	0.100	0.075
ASTM-P-0109-12	0.025	0.800	0.150	0.200	0.130
ASTM-P-0109-13	0.005	1.000	0.200	0.400	0.150
ASTM-P-0109-14	0.170	0.600	0.250	0.550	0.110
ASTM-P-0109-15	0.100	0.200	0.100	0.200	0.200
ASTM-P-0109-16	0.010	0.400	0.010	0.600	0.250
ASTM-P-0109-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0110-SET — **$ 2485 / 17 x 100 mL**

Designed for ASTM D4927

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0110-01	0.100	0.600	0.005	0.175	0.060
ASTM-P-0110-02	0.175	0.500	0.200	0.050	0.080
ASTM-P-0110-03	0.000	0.400	0.150	0.300	0.180
ASTM-P-0110-04	0.025	0.260	0.250	0.150	0.120
ASTM-P-0110-05	0.150	0.005	0.005	0.450	0.070
ASTM-P-0110-06	0.000	0.400	0.025	0.350	0.100
ASTM-P-0110-07	0.200	0.300	0.060	0.250	0.120
ASTM-P-0110-08	0.000	0.200	0.100	0.450	0.100
ASTM-P-0110-09	0.100	0.060	0.080	0.300	0.130
ASTM-P-0110-10	0.050	0.060	0.050	0.200	0.050
ASTM-P-0110-11	0.075	0.050	0.120	0.100	0.075
ASTM-P-0110-12	0.010	0.025	0.150	0.200	0.130
ASTM-P-0110-13	0.005	0.005	0.200	0.400	0.150
ASTM-P-0110-14	0.000	0.170	0.250	0.550	0.110
ASTM-P-0110-15	0.000	0.100	0.100	0.200	0.200
ASTM-P-0110-16	0.005	0.010	0.010	0.600	0.250
ASTM-P-0110-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0111-SET — **$ 2650 / 17 x 100 mL**

Designed for ASTM D4927

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0111-01	0.100	0.600	0.100	0.005	0.175	0.060
ASTM-P-0111-02	0.175	0.500	0.000	0.200	0.050	0.080
ASTM-P-0111-03	0.000	0.400	0.010	0.150	0.300	0.180
ASTM-P-0111-04	0.025	0.260	0.500	0.250	0.150	0.120
ASTM-P-0111-05	0.150	0.005	1.000	0.005	0.450	0.070
ASTM-P-0111-06	0.000	0.400	0.400	0.025	0.350	0.100
ASTM-P-0111-07	0.200	0.300	0.100	0.060	0.250	0.120
ASTM-P-0111-08	0.000	0.200	0.010	0.100	0.450	0.100
ASTM-P-0111-09	0.100	0.060	0.050	0.080	0.300	0.130
ASTM-P-0111-10	0.050	0.060	0.200	0.050	0.200	0.050
ASTM-P-0111-11	0.075	0.050	0.500	0.120	0.100	0.075
ASTM-P-0111-12	0.010	0.025	0.800	0.150	0.200	0.130
ASTM-P-0111-13	0.005	0.005	1.000	0.200	0.400	0.150
ASTM-P-0111-14	0.000	0.170	0.600	0.250	0.550	0.110
ASTM-P-0111-15	0.000	0.100	0.200	0.100	0.200	0.200
ASTM-P-0111-16	0.005	0.010	0.400	0.010	0.600	0.250
ASTM-P-0111-17	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0112-SET — **$ 2485 / 17 x 100 mL**

Cat. No. Nominal Value	Ca (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0112-01	0.600	0.100	0.005	0.175	0.060
ASTM-P-0112-02	0.500	0.150	0.200	0.050	0.080
ASTM-P-0112-03	0.400	0.350	0.150	0.300	0.180
ASTM-P-0112-04	0.260	0.225	0.250	0.150	0.120
ASTM-P-0112-05	0.005	0.450	0.005	0.450	0.070
ASTM-P-0112-06	0.400	0.500	0.025	0.350	0.100
ASTM-P-0112-07	0.300	0.325	0.060	0.250	0.120
ASTM-P-0112-08	0.200	0.250	0.100	0.450	0.100
ASTM-P-0112-09	0.060	0.100	0.080	0.300	0.130
ASTM-P-0112-10	0.060	0.400	0.050	0.200	0.050
ASTM-P-0112-11	0.050	0.300	0.120	0.100	0.075
ASTM-P-0112-12	0.025	0.200	0.150	0.200	0.130
ASTM-P-0112-13	0.005	0.375	0.200	0.400	0.150
ASTM-P-0112-14	0.170	0.175	0.250	0.550	0.110
ASTM-P-0112-15	0.100	0.425	0.100	0.200	0.200
ASTM-P-0112-16	0.010	0.275	0.010	0.600	0.250
ASTM-P-0112-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0113-SET — **$ 2650 / 17 x 100 mL**

Designed for ASTM D4628 & D4927

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0113-01	0.025	0.600	0.100	0.005	0.175	0.060
ASTM-P-0113-02	0.000	0.500	0.150	0.200	0.050	0.080
ASTM-P-0113-03	0.100	0.400	0.350	0.150	0.300	0.180
ASTM-P-0113-04	0.175	0.260	0.225	0.250	0.150	0.120
ASTM-P-0113-05	0.150	0.005	0.450	0.005	0.450	0.070
ASTM-P-0113-06	0.000	0.400	0.500	0.025	0.350	0.100
ASTM-P-0113-07	0.100	0.300	0.325	0.060	0.250	0.120
ASTM-P-0113-08	0.200	0.200	0.250	0.100	0.450	0.100
ASTM-P-0113-09	0.050	0.060	0.100	0.080	0.300	0.130
ASTM-P-0113-10	0.075	0.060	0.400	0.050	0.200	0.050
ASTM-P-0113-11	0.010	0.050	0.300	0.120	0.100	0.075
ASTM-P-0113-12	0.000	0.025	0.200	0.150	0.200	0.130
ASTM-P-0113-13	0.175	0.005	0.375	0.200	0.400	0.150
ASTM-P-0113-14	0.005	0.170	0.175	0.250	0.550	0.110
ASTM-P-0113-15	0.000	0.100	0.425	0.100	0.200	0.200
ASTM-P-0113-16	0.005	0.010	0.275	0.010	0.600	0.250
ASTM-P-0113-17	0.000	0.000	0.000	0.000	0.000	0.000

Lubricating Oil Standards (Continued)

ASTM-P-0114-SET — **$ 2080 / 17 x 100 mL**

EDXRF ASTM Method — Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0114-01	0.005	0.005	0.050	0.050
ASTM-P-0114-02	0.600	0.000	0.000	0.000
ASTM-P-0114-03	0.000	0.300	0.000	0.000
ASTM-P-0114-04	1.000	0.000	1.000	0.000
ASTM-P-0114-05	0.000	0.000	0.000	0.300
ASTM-P-0114-06	0.005	0.250	0.800	0.300
ASTM-P-0114-07	0.500	0.150	0.500	0.150
ASTM-P-0114-08	0.010	0.200	0.100	0.250
ASTM-P-0114-09	0.050	0.010	0.400	0.075
ASTM-P-0114-10	0.100	0.150	0.200	0.200
ASTM-P-0114-11	0.200	0.200	0.800	0.100
ASTM-P-0114-12	0.400	0.005	0.800	0.300
ASTM-P-0114-13	0.600	0.100	0.500	0.050
ASTM-P-0114-14	0.800	0.010	0.050	0.100
ASTM-P-0114-15	1.000	0.300	1.000	0.150
ASTM-P-0114-16	0.400	0.050	0.600	0.250
ASTM-P-0114-17	0.000	0.000	0.000	0.000

ASTM-P-0115-SET — **$ 2485 / 17 x 100 mL**

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)	Mg (Wt.%)
ASTM-P-0115-01	0.005	0.005	0.050	0.050	0.100
ASTM-P-0115-02	0.600	0.000	0.000	0.000	0.150
ASTM-P-0115-03	0.000	0.300	0.000	0.000	0.350
ASTM-P-0115-04	1.000	0.000	1.000	0.000	0.225
ASTM-P-0115-05	0.000	0.000	0.000	0.300	0.450
ASTM-P-0115-06	0.005	0.250	0.800	0.300	0.500
ASTM-P-0115-07	0.500	0.150	0.500	0.150	0.325
ASTM-P-0115-08	0.010	0.200	0.100	0.250	0.250
ASTM-P-0115-09	0.050	0.010	0.400	0.075	0.050
ASTM-P-0115-10	0.100	0.150	0.200	0.200	0.400
ASTM-P-0115-11	0.200	0.200	0.800	0.100	0.300
ASTM-P-0115-12	0.400	0.005	0.800	0.300	0.200
ASTM-P-0115-13	0.600	0.100	0.500	0.050	0.375
ASTM-P-0115-14	0.800	0.010	0.050	0.100	0.175
ASTM-P-0115-15	1.000	0.300	1.000	0.150	0.425
ASTM-P-0115-16	0.400	0.050	0.600	0.250	0.275
ASTM-P-0115-17	0.000	0.000	0.000	0.000	0.000

ASTM-P-0116-SET — **$ 2600 / 11 x 100 mL**

Additives — Designed for ASTM D6481

Cat. No. Nominal Value	Ca (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0116-01	0.500	1.000	0.500	0.500
ASTM-P-0116-02	3.000	1.000	3.000	2.000
ASTM-P-0116-03	2.000	1.250	1.000	1.500
ASTM-P-0116-04	5.000	1.500	0.500	1.200
ASTM-P-0116-05	4.000	0.500	1.500	0.750
ASTM-P-0116-06	2.500	0.750	4.000	1.000
ASTM-P-0116-07	4.000	0.500	2.000	1.250
ASTM-P-0116-08	0.500	2.000	5.000	1.000
ASTM-P-0116-09	1.000	0.750	2.000	1.500
ASTM-P-0116-10	2.500	1.200	3.000	0.500
ASTM-P-0116-11	0.000	0.000	0.000	0.000

ASTM-P-0117-SET — **$ 2250 / 10 x 100 mL**

WLXRF ASTM Method — Designed for ASTM D6443

Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0117-01	0.020	0.030	0.010	0.200	0.250	1.000	0.020
ASTM-P-0117-02	0.020	0.020	0.050	0.200	0.020	0.020	0.250
ASTM-P-0117-03	0.020	0.200	0.010	0.040	0.250	0.150	0.250
ASTM-P-0117-04	0.020	0.200	0.050	0.040	0.020	1.000	0.020
ASTM-P-0117-05	0.400	0.020	0.010	0.040	0.020	1.000	0.250
ASTM-P-0117-06	0.400	0.020	0.050	0.040	0.250	0.020	0.020
ASTM-P-0117-07	0.400	0.200	0.010	0.200	0.020	0.020	0.050
ASTM-P-0117-08	0.400	0.200	0.050	0.200	0.250	1.000	0.250
ASTM-P-0117-09	0.200	0.100	0.025	0.080	0.150	0.500	0.100
ASTM-P-0117-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0118-SET — **$ 2540 / 10 x 100 mL**

WLXRF ASTM Method — Designed for ASTM D4628, D4927, D4951, D6443

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0118-01	0.020	0.020	0.030	0.010	0.200	0.250	1.000	0.020
ASTM-P-0118-02	0.250	0.020	0.020	0.050	0.200	0.020	0.020	0.250
ASTM-P-0118-03	0.020	0.020	0.200	0.010	0.040	0.250	0.150	0.250
ASTM-P-0118-04	0.250	0.020	0.200	0.050	0.040	0.020	1.000	0.020
ASTM-P-0118-05	0.020	0.400	0.020	0.010	0.040	0.020	1.000	0.250
ASTM-P-0118-06	0.250	0.400	0.020	0.050	0.040	0.250	0.020	0.020
ASTM-P-0118-07	0.020	0.400	0.200	0.010	0.200	0.020	0.020	0.050
ASTM-P-0118-08	0.250	0.400	0.200	0.050	0.200	0.250	1.000	0.250
ASTM-P-0118-09	0.130	0.200	0.100	0.025	0.080	0.150	0.500	0.100
ASTM-P-0118-10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Lubricating Oil Standards (Continued)

ASTM-P-0119-SET — **$ 3100 / 22 x 100 mL**

				Designed for ASTM D4628, D4927, D4951, D6443			
Cat. No. Nominal Value	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0119-01	0.300	0.080	0.030	0.060	0.060	0.275	0.060
ASTM-P-0119-02	0.250	0.100	0.000	0.010	0.150	0.000	0.150
ASTM-P-0119-03	0.500	0.000	0.035	0.160	0.150	0.000	0.020
ASTM-P-0119-04	0.350	0.010	0.000	0.120	0.080	0.200	0.000
ASTM-P-0119-05	0.110	0.000	0.015	0.100	0.100	0.300	0.050
ASTM-P-0119-06	0.200	0.100	0.000	0.200	0.050	0.250	0.150
ASTM-P-0119-07	0.000	0.050	0.025	0.000	0.000	0.450	0.020
ASTM-P-0119-08	0.150	0.030	0.000	0.100	0.030	0.400	0.040
ASTM-P-0119-09	0.250	0.150	0.010	0.160	0.000	0.350	0.080
ASTM-P-0119-10	0.110	0.150	0.040	0.005	0.030	0.750	0.150
ASTM-P-0119-11	0.260	0.050	0.000	0.000	0.000	0.750	0.000
ASTM-P-0119-12	0.200	0.000	0.005	0.140	0.080	0.500	0.080
ASTM-P-0119-13	0.000	0.000	0.005	0.020	0.020	0.200	0.020
ASTM-P-0119-14	0.070	0.150	0.020	0.080	0.140	0.650	0.150
ASTM-P-0119-15	0.050	0.000	0.000	0.000	0.150	0.000	0.000
ASTM-P-0119-16	0.400	0.000	0.001	0.080	0.000	0.500	0.020
ASTM-P-0119-17	0.180	0.020	0.020	0.000	0.020	0.600	0.060
ASTM-P-0119-18	0.400	0.010	0.001	0.010	0.020	0.000	0.000
ASTM-P-0119-19	0.010	0.020	0.040	0.010	0.020	0.200	0.100
ASTM-P-0119-20	0.050	0.005	0.050	0.000	0.008	0.000	0.120
ASTM-P-0119-21	0.200	0.050	0.020	0.080	0.050	0.275	0.050
ASTM-P-0119-22	0.000	0.000	0.000	0.000	0.000	0.000	0.000

ASTM-P-0120-SET — **$ 3350 / 23 x 100 mL**

Cat. No. Nominal Value	Ba (Wt.%)	Ca (Wt.%)	Cl (Wt.%)	Cu (Wt.%)	Mg (Wt.%)	P (Wt.%)	S (Wt.%)	Zn (Wt.%)
ASTM-P-0120-01	0.100	0.300	0.080	0.030	0.060	0.060	0.275	0.060
ASTM-P-0120-02	0.175	0.250	0.100	0.000	0.010	0.150	0.000	0.150
ASTM-P-0120-03	0.040	0.500	0.000	0.035	0.160	0.150	0.000	0.020
ASTM-P-0120-04	0.020	0.350	0.010	0.000	0.120	0.080	0.200	0.000
ASTM-P-0120-05	0.150	0.110	0.000	0.015	0.100	0.100	0.300	0.050
ASTM-P-0120-06	0.000	0.200	0.100	0.000	0.200	0.050	0.250	0.150
ASTM-P-0120-07	0.200	0.000	0.050	0.025	0.000	0.000	0.450	0.020
ASTM-P-0120-08	0.000	0.150	0.030	0.000	0.100	0.030	0.400	0.040
ASTM-P-0120-09	0.000	0.250	0.150	0.010	0.160	0.000	0.350	0.080
ASTM-P-0120-10	0.000	0.110	0.150	0.040	0.005	0.030	0.750	0.150
ASTM-P-0120-11	0.100	0.260	0.050	0.000	0.000	0.000	0.750	0.000
ASTM-P-0120-12	0.050	0.200	0.000	0.005	0.140	0.080	0.500	0.080
ASTM-P-0120-13	0.000	0.000	0.000	0.005	0.020	0.020	0.200	0.020
ASTM-P-0120-14	0.080	0.070	0.150	0.020	0.080	0.140	0.650	0.150
ASTM-P-0120-15	0.010	0.050	0.000	0.000	0.000	0.150	0.000	0.000
ASTM-P-0120-16	0.000	0.400	0.000	0.001	0.080	0.000	0.500	0.020
ASTM-P-0120-17	0.000	0.180	0.020	0.020	0.000	0.020	0.600	0.060
ASTM-P-0120-18	0.000	0.400	0.010	0.001	0.010	0.020	0.000	0.000
ASTM-P-0120-19	0.150	0.010	0.020	0.040	0.010	0.020	0.200	0.100
ASTM-P-0120-20	0.005	0.050	0.005	0.050	0.000	0.008	0.000	0.120
ASTM-P-0120-21	0.100	0.200	0.050	0.020	0.080	0.050	0.275	0.050
ASTM-P-0120-22	0.120	0.200	0.000	0.000	0.000	0.000	0.750	0.000
ASTM-P-0120-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Standards of Interest

Concentrations for the sets on pages 401-404 are targets. Actual production lots may vary.

Metal Working Fluids

ASTM-P-0121-SET — **$ 1560 / 13 x 100 mL**

Cat. No. Nominal Value	Cl (Wt.%)	P (Wt.%)	S (Wt.%)
ASTM-P-0121-01	0.000	0.000	0.000
ASTM-P-0121-02	0.750	0.025	0.500
ASTM-P-0121-03	0.050	0.100	3.000
ASTM-P-0121-04	1.000	0.500	2.500
ASTM-P-0121-05	0.100	0.005	2.000
ASTM-P-0121-06	1.500	0.200	1.000
ASTM-P-0121-07	2.000	0.005	3.000
ASTM-P-0121-08	1.000	0.050	0.100
ASTM-P-0121-09	0.500	0.400	0.000
ASTM-P-0121-10	2.000	0.200	1.500
ASTM-P-0121-11	0.000	0.500	1.500
ASTM-P-0121-12	1.250	0.010	0.050
ASTM-P-0121-13	0.050	0.300	0.050

Stabilization Solutions

The solutions were specifically designed for chelating & solubilizing our line of Sulfur-Free Organometallic Standards. Contact Tech Service for additional information.

Stabilizer Solution A

ASTM-P-0122-0.5 — **$ 80 / 50 mL**
ASTM-P-0122-1 — **$ 120 / 100 mL**

Stabilizer Solution B

ASTM-P-0123-0.5 — **$ 80 / 50 mL**
ASTM-P-0123-1 — **$ 120 / 100 mL**

Stabilizer Solution C

ASTM-P-0124-0.5 — **$ 80 / 50 mL**
ASTM-P-0124-1 — **$ 120 / 100 mL**

Stabilizer Solution D

ASTM-P-0125-0.5 — **$ 80 / 50 mL**
ASTM-P-0125-1 — **$ 120 / 100 mL**

ASTM D3230 Determination of Salts in Crude Oil

Mixed Salt Solution

D-3230-89-1 ▲ **$ 75 / 100 mL**
D-3230-89-5 ▲ **$ 150 / 500 mL**
At stated conc. in Alcohol Solution (1-butanol : MeOH) (ratio 63:37) tr. H_2O 3 comps.

Calcium chloride	10 µg/mL	Sodium chloride	70 µg/mL
Magnesium chloride	20 µg/mL		

ASTM D3237 Lead in Gasoline by AA Spectroscopy

Lead Standard Calibration Curve

D-3237-CAL-SET ▲ **$ 210 / 4 x 100 mL**
Set includes the following Catalog Numbers:

Description	Cat. No.	Price / 100 mL
Blank 1% Aliquot 336/MIBK	D-3237-01 ▲	$ 20
0.02 g Pb / gal (5.3 mg Pb/ L) in 1% Aliquat 336 / MIBK	D-3237-02 ▲	$ 80
0.05 g Pb / gal (13.2 mg Pb/ L) in 1% Aliquat 336 / MIBK	D-3237-03 ▲	$ 80
0.10 g Pb / gal (26.4 mg Pb/ L) in 1% Aliquat 336 / MIBK	D-3237-04 ▲	$ 80

D3237 Meets EPA Guidelines for RFG Analysis

ASTM D3605 Trace Metals in Gas Turbine Fuels by AA & Flame Emission & Spectroscopy

Trace Metals Standard

D-3605-91-1 **$ 150 / 1 x 100 mL**
At stated conc. in 1,2,3,4-Tetrahydronaphthalene 4 comps.

Na (Sodium)	(250 µg/mL)	Ca (Calcium)	(250 µg/mL)
Pb (Lead)	(250 µg/mL)	V (Vanadium)	(250 µg/mL)

Standards of Interest

See Table of Contents for a complete listing of Wear Metal Standards.

ASTM D3831 Manganese in Gasoline by AA Spectroscopy

Manganese Stock Solution

D-3831-1 ▲ **$ 65 / 1 x 100 mL**

Manganese @ 1.0 g Mn / gal (264.2 mg Mn / L) in Methyl isobutyl ketone

▲ Hazardous fee required.



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Solid Waste Analysis
Solid Matrix Standards

AccuStandard offers a broad range of trace element standards in Solid Matrices to meet the requirements for "real world" solid waste reference materials. All Standards are furnished with a Certificate of Analysis, with the mean values, standard deviations, confidence intervals and performance intervals. A list of additional elements/analytes, instructions and other pertinent information is also included. Values listed on the Certificate are generally the result of round robin analyses consisting of testing conducted by an average of 20 independent laboratories.

- **Ideal for both AA and ICP Analysis**
- **Certified by EPA Methods and Protocols**
- **NATURAL Matrix, Not spiked or fortified**
- **US EPA SW-846, 3rd Edition Method 3050**
- **Method 1311**
- **Lead Abatement Program Material**

Metals in Sludges

Metal Concentration (in mg/Kg) Metal	Paint Sludge CRM006-050 $ 135 / 50 g	Plating Sludge #1 CRM009-100 $ 120 / 120 g	Plating Sludge #2 CRM010-100 $ 135 / 100 g	Plating Sludge #3 (POTW) CRM011-100 $ 135 / 100 g	Raw Sewage CRM018-050 $ 155 / 50 g
Al (Aluminum)	73	(890)	692	(20)	22,436
Sb (Antimony)	----	(9)	----	(10)	ND
As (Arsenic)	----	(20)	----	(20)	6.63
Ba (Barium)	9,970	(50)	175	(5)	1,103
Be (Beryllium)	----	----	----	----	0.30
B (Boron)	(53)	(150)	102	(18,000)	(25.8)
Cd (Cadmium)	32	(1)	----	(4)	5.57
Ca (Calcium)	111	(1,100)	563	(180)	49,068
Cr (Chromium)	11	50	79	59,225	40.1
Co (Cobalt)	----	(7)	----	(10)	3.22
Cu (Copper)	(6)	121,415	63,169	108	840
Fe (Iron)	64	(3,800)	2,699	(4,700)	9,903
Pb (Lead)	753	(14,230)	119,344	269	126
Mg (Magnesium)	47	(150)	(80)	(50)	4,302
Mn (Manganese)	(1)	(40)	17	(30)	200
Hg (Mercury)	----	(1)	(2)	(10)	4.78
Mo (Molybdenum)	----	(20)	(32)	----	10.5
Ni (Nickel)	(2)	343	194	41,975	20.4
P (Phosphorus)	----	----	----	----	----
K (Potassium)	8,710	(640)	----	(49,000)	2,657
Se (Selenium)	(3)	----	----	(4)	8.38
Si (Silicon)	----	----	----	----	(609)
Ag (Silver)	----	9	56	(1)	72.1
Na (Sodium)	91	(18,000)	1,576	(23,000)	1,002
Sr (Strontium)	(90)	(30)	----	(1)	420
Tl (Thallium)	(40)	(30)	----	(20)	ND
Sn (Tin)	(100)	(38,000)	----	(120)	----
Ti (Titanium)	(2)	(70)	----	(2)	----
V (Vanadium)	----	(1)	----	(20)	39.2
Zn (Zinc)	737,431	(40)	183	----	1,121

All values expressed in mg/Kg, parts per million (ppm) unless otherwise noted.

TCLP Metals - Method 1311

Metal Concentration (in mg/Kg) Metal	Soil from Superfund Site CRM202-225 $ 155 / 225 g	Soil from Superfund Site CRM204-225 $ 150 / 225 g	Ash from Incinerator CRM205-225 $ 150 / 225 g	Soil from Superfund Site CRM206-225 $ 155 / 225 g	Soil from Superfund Site CRM207-225 $ 155 / 225 g	TCLP Metals in Soil CRM208-225 $ 155 / 225 g
As (Arsenic)	1.44	0.82	89.5	13.9	9.51	3.93
Ba (Barium)	5.85	(0.04)	0.44	0.38	0.40	32.8
Cd (Cadmium)	19.6	14.4	144	8.3	7.45	46.7
Cr (Chromium)	11.1	4.46	12.7	0.13	1.36	0.87
Pb (Lead)	48.5	10.7	155	2.16	2.76	2.14
Hg (Mercury)	5.58	(< 0.0025)	ND	0.65	0.02	0.62
Se (Selenium)	1.38	Trace	ND	20.5	20.8	ND
Ag (Silver)	5.01	(< 0.1)	ND	1.04	0.99	ND

NOTES:
1. These values are as extracted into Fluid #1.
2. All values expressed in mg/L, parts per million (ppm) unless otherwise noted.
3. Values in parenthesis are not certified and are given for information only.
4. ND is not detected.

Solid waste standards do not require a hazardous shipping fee.

Metals in Soil

Metals Conc. (in mg/Kg) Metal	Sewage Sludge Amended Soil CRM005-050 $ 150 / 50g	Soil/ Sediment #4 CRM008-050 $ 150 / 50g	Dry Soil #2 Certified pH 2.96 CRM020-050 ** $ 150 / 50g	Dry Soil #3 CRM021-100 $ 150 / 100g	Dry soil #5 plus Cyanide CRM022-020 $ 155 / 20g	Metals in Soil CRM028-050 $ 150 / 50g
Al (Aluminum)	15,333	23,906	2,755	2,725	10,060	7,562
Sb (Antimony)	----	(3)	8.38	4,955	(<0.2)	----
As (Arsenic)	7	14	400	25	5	3.83
Ba (Barium)	853	54	24.8	586	109	73.2
Be (Beryllium)	1	1	----	----	0.5	0.38
B (Boron)	----	(27)	----	----	(16)	ND
Cd (Cadmium)	14	(1)	15.4	1	3	0.50
Ca (Calcium)	119,477	2,935	25,584	5,426	27,242	5,883
Cr (Chromium)	41	48	13.6	11	19	19.0
Co (Cobalt)	6	11	4.51	(3)	6	4.30
Cu (Copper)	465	36	729	4,792	12	8.51
Fe (Iron)	12,650	33,042	191,706	6,481	13,555	10,000
Pb (Lead)	89	95	5,111	(144,742)	415	10.4
Mg (Magnesium)	6,706	6,742	2,687	(2,367)	9,524	2,995
Mn (Manganese)	172	261	945	174	318	209
Hg (Mercury)	3	1	1.12	5	(0.02)	----
Mo (Molybdenum)	14	(2)	----	----	(<1)	----
Ni (Nickel)	26	26	16.9	13	16	13.4
P (Phosphorus)	(10,071)	----	----	----	----	----
K (Potassium)	6,229	3,948	(857)	1,006	3,170	2,045
Se (Selenium)	20	(1)	6.57	----	(0.3)	ND
Si (Silicon)	----	(471)	----	----	(80)	----
Ag (Silver)	36	(1)	38.5	7	(<0.5)	----
Na (Sodium)	2,488	8,706	(79.2)	380	268	3.31
Sr (Strontium)	----	42	(24.7)		(54)	ND
Tl (Thallium)	(2)	(<1)	5.91	(<1)	(<0.2)	----
Sn (Tin)	----	----	----	(304)	----	----
Ti (Titanium)	----	----	----	----	----	----
V (Vanadium)	109	44	6.47	(8.7)	23	19.2
Zn (Zinc)	625	134	3,011	546	46	75.0
pH	----	----	2.96	----	----	----
CN	----	----	----	----	26.6	----

Continued (in mg/Kg) Metal	Sediment, + CN CRM015-050 $ 150 / 50g	Sediment CRM016-050 $ 150 / 50g	Soil CRM023-050 $ 150 / 50g	Soil CRM025-050 $ 150 / 50g	Soil CRM026-050 $ 150 / 50g	Soil CRM027-050 $ 150 / 50g	Soil CRM024-050 $ 150 / 50g
Al (Aluminum)	9,200	8,920	8,472	7,637	17,730	9,149	8,681
Sb (Antimony)	(ND)	(ND)	----	(<3.2)	(<3.2)	----	(1.17)
As (Arsenic)	6.6	6.48	380	339	5.64	12.5	3.42
Ba (Barium)	83.0	79.3	75.5	1,839	214	167	79.6
Be (Beryllium)	0.47	0.49	0.4	0.33	18.0	----	0.43
B (Boron)	(8.6)	(13.0)	(11.2)	(17.2)	(25.4)	2.74	7.22
Cd (Cadmium)	(ND)	0.47	0.9	369	11.7	11.9	2.15
Ca (Calcium)	23,463	22,646	5,425	28,320	6,221	5,963	5,534
Cr (Chromium)	14.3	14.5	31.1	441	27.2	27.0	25.4
Co (Cobalt)	6.04	5.96	8.9	4.07	6.77	4.77	----
Cu (Copper)	16.1	15.5	4.7	7.76	18.8	9.79	8.70
Fe (Iron)	17,070	16,831	10,678	9,439	21,906	11,299	10,196
Pb (Lead)	15.04	14.1	213	1,447	25.6	51.7	15.7
Mg (Magnesium)	13,611	13,246	3,064	4,376	2,837	2,786	2,945
Mn (Manganese)	183.4	180.0	206	173	633	258	199
Hg (Mercury)	0.10	0.11	77.8	99.8	2.42	3.85	0.71
Mo (Molybdenum)	1.16	(0.97)	----	----	----	----	0.58
Ni (Nickel)	17.5	16.7	11.0	12.2	14.4	10.7	15.0
P (Phosphorus)	----	----		----	----	----	----
K (Potassium)	2,074	1,958	2,231	1,992	3,600	2,115	2,102
Se (Selenium)	(1.0)	(1.0)	116	518	(1.86)	13.8	(0.54)
Si (Silicon)	(491)	(347)	(352)	(171)	(166)	387	(404)
Ag (Silver)	(ND)	(0.7)	132	(0.57)	5.90	----	13.3
Na (Sodium)	400	292.0	295	313	199	241	287
Sr (Strontium)	(62)	(61)	(32)	(408)	38.4	42.7	35.4
Tl (Thallium)	(ND)	(4.6)	111	(<4.8)	(<4.8)	----	(13.6)
Sn (Tin)	----	----	----	----	----	----	----
Ti (Titanium)	----	----	----	----	----	----	----
V (Vanadium)	22.1	22.5	21.7	19.3	32.0	21.8	20.8
Zn (Zinc)	69.9	69.7	93.8	51.8	140	51.5	37.3
pH	----	----	----	----	----	----	----
CN	6.04	----	----	----	----	----	----

Solid Matrix Standards continued on next page

Metals in Ashes

Metals Concentration (in mg/Kg) Metal	Ash #1 CRM001-100 $ 135 / 100 g	Ash #2 CRM012-100 $ 135 / 100 g	Ash #3 CRM019-050 $ 135 / 100 g	Ash #4 CRM205-225 $ 150 / 225 g
Al (Aluminum)	----	2,160	(2, 759)	----
Sb (Antimony)	----	----	(223)	----
As (Arsenic)	----	----	78	90
Ba (Barium)	428	19	342	0.4
Be (Beryllium)	----	----	(2)	----
B (Boron)	----	----	(336)	----
Cd (Cadmium)	----	362	432	147
Ca (Calcium)	----	2,111	(51,949)	----
Cr (Chromium)	30	161,520	55	13
Co (Cobalt)	----	(22)	(26)	----
Cu (Copper)	40	3,015	279	----
Fe (Iron)	(16,300)	28,664	(12,693)	----
Pb (Lead)	----	120	4,414	155
Mg (Magnesium)	----	1,506	6,307	----
Mn (Manganese)	(300)	202	(480)	----
Hg (Mercury)	----	----	(2)	ND
Mo (Molybdenum)	----	----	(26)	----
Ni (Nickel)	20	13,279	22	----
P (Phosphorus)	----	----	----	----
K (Potassium)	----	73,324	(49,344)	----
Se (Selenium)	----	----	2	ND
Ag (Silver)	----	55	6	ND
Na (Sodium)	----	29,200	(50,522)	----
Sr (Strontium)	(1,016)	(10)	(173)	----
Tl (Thallium)	----	----	(42)	----
Sn (Tin)	----	(2,055)	(410)	----
Ti (Titanium)	(465)	(20)	(2,870)	----
V (Vanadium)	----	(52)	29	----
Zn (Zinc)	----	635	22,217	----

NOTES:
1. All values expressed in mg/Kg, parts per million (ppm) unless otherwise noted.
2. Values in parenthesis are not certified and are given for information only.
3. ND is not detected.

** Values certified by analysis from 260 independent laboratories

Lead Reference Materials

- Natural matrix, not spiked or fortified
- Samples tested & suitable for lead abatement program

Paint Sludge

CRM006-050 $ 135 / 50 g
Certified lead value 753 mg/kg

Paint Waste

CRM013-050 $ 135 / 50 g
Certified lead value 643 mg/kg

Dust

CRM014-050 $ 135 / 50 g
Certified lead value 1,914 mg/kg

Metals in Particulates & Water Treatment Media

Metals Conc. (in mg/Kg) Metal	Activated Charcoal Filter CRM002-100 $ 135 / 100 g	Diatomaceous Earth Filter CRM004-100 $ 135 / 100 g	Paint Chips CRM013-050 $ 135 / 50 g	Baghouse Dust CRM014-050 $ 135 / 50 g
Al (Aluminum)	(1,800)	(29,000)	(1,200)	(6,000)
Sb (Antimony)	(2)	(5)	(20)	(20)
As (Arsenic)	(30)	----	(1)	(2)
Ba (Barium)	(80)	1,595	(1,200)	(1,930)
Be (Beryllium)	----	----	----	----
B (Boron)	(80)	(1,160)	12	(50)
Cd (Cadmium)	(1)	2	38	510
Ca (Calcium)	(980)	(28,000)	(1,500)	(3,900)
Cr (Chromium)	36,339	21	618	2,228
Co (Cobalt)	(10)	(140)	(10)	(10)
Cu (Copper)	96,935	(20)	(30)	(110)
Fe (Iron)	(1,150)		(1,400)	(5,860)
Pb (Lead)	(5)	11,871	643	1,914
Mg (Magnesium)	(190)	(17,000)	(430)	(1,100)
Mn (Manganese)	(8)	(90)	(120)	(110)
Hg (Mercury)	(5)	(3)	----	(2)
Mo (Molybdenum)	----	(4)	(1)	(30)
Ni (Nickel)	(30)	(140)	(10)	(10)
P (Phosphorus)	----	----	----	----
K (Potassium)	(490)	----	(170)	(340)
Se (Selenium)	(4)	(2,000)	----	(1)
Ag (Silver)	18	(1)	----	(10)
Na (Sodium)	(480)	(4,200)	(310)	(780)
Sr (Strontium)	(110)	(80)	(950)	(1,900)
Tl (Thallium)	(20)	(30)	(4)	(10)
Sn (Tin)	(120)	(580)	(80)	(140)
Ti (Titanium)	(210)	(100)	(70)	(130)
V (Vanadium)	(40)	(28)	(1)	(2)
Zn (Zinc)	----	(8,500)	(2,370)	(3,150)

NOTES:
1. All values expressed in mg/Kg, parts per million (ppm) unless otherwise noted
2. Values in parenthesis are not certified and are given for information only.
3. ND is not detected.

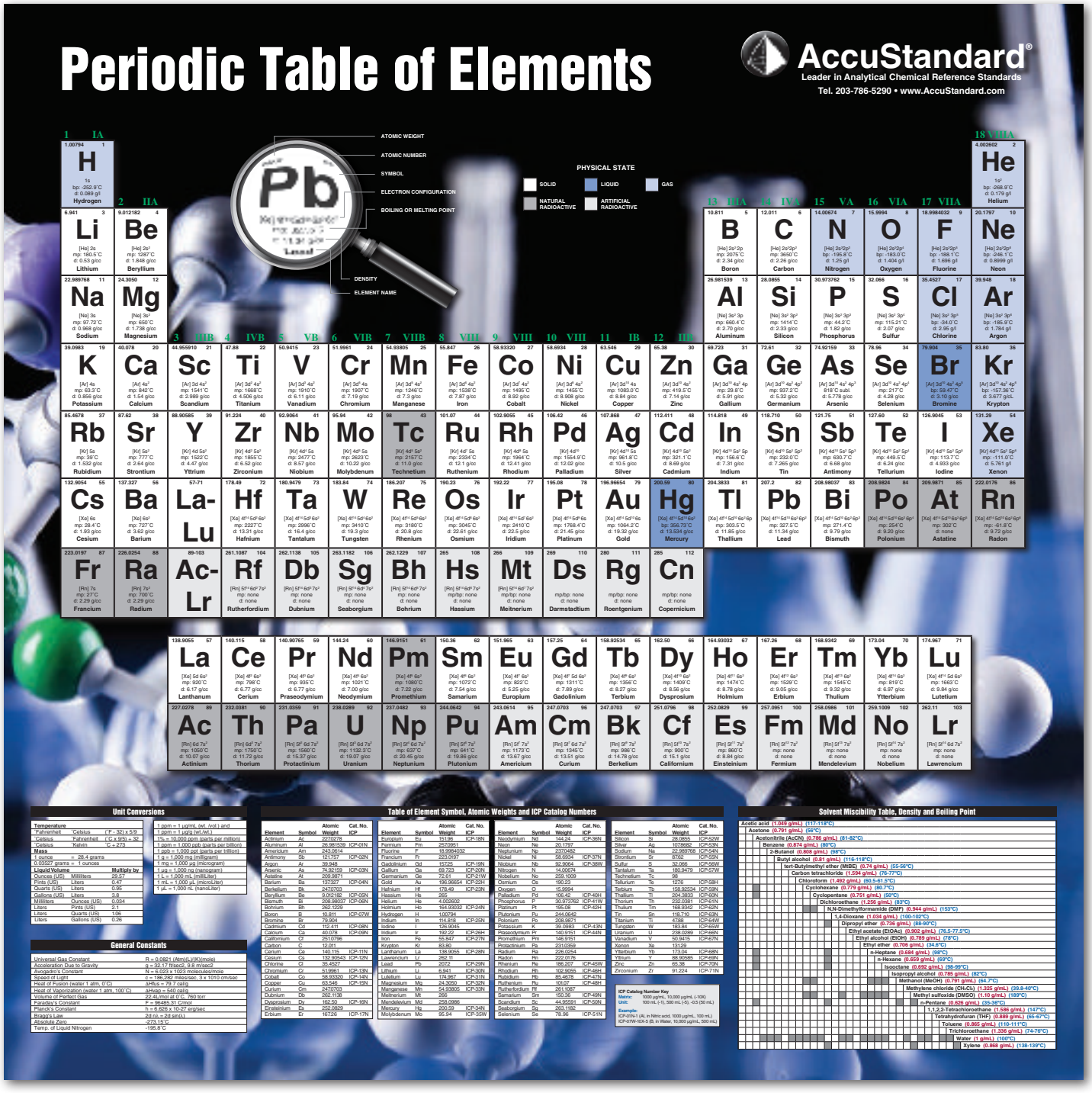
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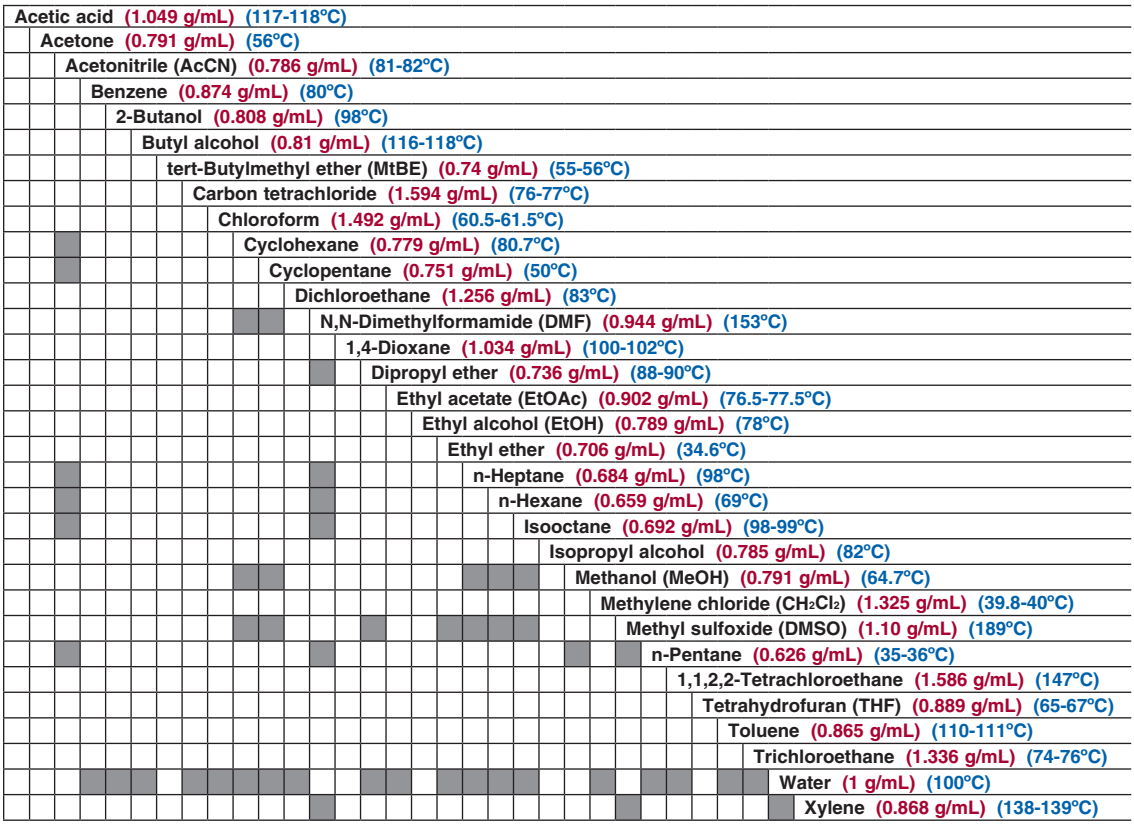
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Technical Reference

Technical Reference

Solvent Miscibility Table, Density and Boiling Point



☐ Miscible
■ Immiscible

Read down column and across for solvent miscibility

Density@25°C
Boiling Point

Abbreviations

AA	Atomic Absorption	ICP	Inductively Coupled Plasma
ACS	American Chemical Society	IR	Infrared
ANSI	American National Standards Institute	KF	Karl Fischer
AOAC	Association of Official Analytical Chemists	meq	Milliequivalent
APHA	American Public Health Association	NF	National Formulary
ASTM	American Society for Testing Materials	NIST	National Institute of Standards and Technology
BSI	British Standards Institute	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstracts Service	RFA	Renewable Fuel Association
CI	Color Index	SPE	Solid Phase Extraction
EPA	U.S. Environmental Protection Agency	TLC	Thin Layer Chromatography
GLC	Gas Liquid Chromatography	USDA	U.S. Department of Agriculture
GR	Guaranteed Reagent	USP	U.S. Pharmacopoeia

Instrumentation for Analysis

GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectroscopy
GC/FID	Gas Chromatography/Flame Ionization Detector
GC/PID	Gas Chromatography/Photoionization Detector
GC/ECD	Gas Chromatography/Electron Capture Detector
GC/ELCD	Gas Chromatography/Electrolytic Conductivity Detector
GC/NPD	Gas Chromatography/Nitrogen phosphorus Detector
HPLC	High Performance Liquid Chromatography
NPD/TEA	Nitrogen-Phosphorus Detector/Thermal Energy Analyzer with the reductive Hall detector
TCD/FID	Thermal Conductivity Detector/Flame Ionization Detector
NPD/AFD/TSD	Nitrogen-Phosphorus Detector/Alkali-Flame Detector/Thermionic Specific Detector
NPA/ELCD/FPD	Nitrogen-Phosphorus Detector/Electrolytic Conductivity Detector/Flame Photometric Detector
HRGC/LRMS	High Resolution Gas Chromatography/Low Resolution Mass Spectrometry
FTIR	Fourier Transform Infrared

General Constants

Universal Gas Constant	R = 0.0821(Atm)(L)/(K)(mole)
Acceleration Due to Gravity	g = 32.17 ft/sec^2, 9.8 m/sec^2
Avogadro's Constant	N = 6.023 x 10^{23} molecules/mole
Speed of Light	c = 186,282 miles/sec, 3 x 10^{10} cm/sec
Heat of Fusion (water 1 atm, 0ºC)	ΔH_{fus} = 79.7 cal/g
Heat of Vaporization (water 1 atm, 100ºC)	ΔH_{vap} = 540 cal/g
Volume of Perfect Gas	22.4L/mol at 0ºC, 760 torr
Faraday's Constant	F = 96485.31 C/mol
Planck's Constant	h = 6.626 x 10^{-27} erg/sec
Bragg's Law	2d nλ = 2d sin(θ)
Absolute Zero	-273.15 ºC
Temp. of Liquid Nitrogen	-195.8 ºC

Unit Conversions

Temperature		
°Fahrenheit	°Celsius	(°F - 32) x 5/9
°Celsius	°Fahrenheit	(°C x 9/5) + 32
°Celsius	°Kelvin	°C + 273
Mass		
1 ounce	= 28.4 grams	
0.03527 grams	= 1 ounces	

Liquid Volume		**Multiply by**
Ounces (US)	Milliliters	29.57
Pints (US)	Liters	0.47
Quarts (US)	Liters	0.95
Gallons (US)	Liters	3.8
Milliliters	Ounces (US)	0.034
Liters	Pints (US)	2.1
Liters	Quarts (US)	1.06
Liters	Gallons (US)	0.26
Cubic Feet	Cubic meters	0.03
Cubic Yards	Cubic meters	0.76

1 ppm = 1 µg/mL (wt. /vol.) and
1 ppm = 1 µg/g (wt./wt.)
1% = 10,000 ppm (parts per million)
1 ppm = 1,000 ppb (parts per billion)
1 ppb = 1,000 ppt (parts per trillion)

1 g = 1,000 mg (milligram)
1 mg = 1,000 µg (microgram)
1 µg = 1,000 ng (nanogram)

1 L = 1,000 mL (milliLiter)
1 mL = 1,000 µL (microLiter)
1 µL = 1,000 nL (nanoLiter)

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1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
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