

SPEX CertiPrep®

Your Science is Our Passion.™



ORGANIC
CERTIFIED REFERENCE MATERIALS

2011
2012



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

**IQNet and
UL DQS Inc.** Management Systems Solutions

hereby certify that the company

**SPEX CertiPrep Inc. &
SPEX CertiPrep Group, LLC**

203 Norcross Avenue
Metuchen, NJ 08840
USA

has implemented and maintains a **Quality Management System.**

Scope:

The design, manufacture and distribution of Certified Reference Materials for ICP, ICPMS, DCP, AA, XRF, GC, GCMS, HPLC, IC, and Quality Control. The resale of high purity inorganic/organic compounds and fusion fluxes not necessarily manufactured under an ISO 9000 registered quality system.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2008

Date of certification 2009-08-14

Valid until 2012-08-13

Registration Number: 10002793 QM08



Michael Drechsel
President of IQNet

Ganesh Rao
Managing Director of UL DQS Inc.



IQNet Partners*:

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IQNet is represented in the USA by: AFNOR Certification, CISQ, DQS Holding GmbH and NSAI Inc.

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

Organic Certified Reference Materials

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Organic CRM Catalog

Number Index

159-163

SECTION 2

[STOCK AND CUSTOM]

Organic Standards

*Single and Multi-Component
for GC, GC/MS & HPLC*

Your Science is Our Passion®



Organic Standards

for GC, GC/MS, & HPLC

SPEX CertiPrep® has been the leading manufacturer of Inorganic Certified Reference Materials for over 55 years. You have grown to recognize us as the manufacturer of high quality, dependable products. For the last 8 years we have been manufacturing Organic Standards for GC, GC/MS, and HPLC. These standards are being manufactured under the same high quality control requirements as our inorganic products. We would do nothing less.

SPEX CertiPrep®

Our GC, GC/MS, and HPLC standards are created with the analyst in mind. Each of the ampulized standards is sold in 1mL portions, allowing convenient use and expanding the shelf life. All 1mL ampulized standards come with a pre-labeled "transfer/storage vial."

SPEX CertiPrep optimizes the concentration of each component in the standard, taking into account such factors as vapor pressure, evaporation rates, breakdown rates, and dilution schemes. With thorough knowledge of the detection levels of these compounds as well as how the analyst will be using them, mixes are prepared at concentrations to reflect these issues.

As with all the SPEX CertiPrep Certified Reference Materials (CRMs), you receive a Certificate of Analysis for the lot number of the product you purchased.

■ Ampulization/Packaging

If you have a need for ampulization or any custom packaging needs, call us to discuss your requirements, or visit our Web site for more information.

■ Custom Standards

SPEX CertiPrep can provide customized standards for your specific needs. See the custom order form at the end of this section, or, for faster service, complete your request online at www.spexcertiprep.com/customorganics.



Welcome to the world of Organic Certified Reference Materials. We have optimized the organization of our catalog to make it easier for you to find the products that you are most interested in. You will notice that we have sections for Volatiles, Semivolatiles, etc., and within those sections we have organized the part numbers by US EPA methods.

The following US EPA methods were designed to allow uniform analysis of various analytes and are found under the US Codes of Federal Regulations. The methods are divided into three categories:

- 500 Series Drinking Water Methods (Safe Drinking Water Act)
- 600 Series Wastewater Methods (Clean Water Act "Wastewaters")
- 8000 Series Solid and Hazardous Waste Methods (Resource Conservation and Recovery Act or RCRA under SW-846, "Test Methods For Evaluating Solid Waste")

SPEX CertiPrep has developed a series of CRMs for each of these methods. These CRMs are designed for ease of use and to minimize uncertainties.

Download EPA Methods

Need to review a US EPA method? Visit the Resources page on our Web site to find links to download copies of the methods: www.spexcertiprep.com

Need larger quantities?

Volume discounts are available!

Call us at 1-800-LAB-SPEX for more information.

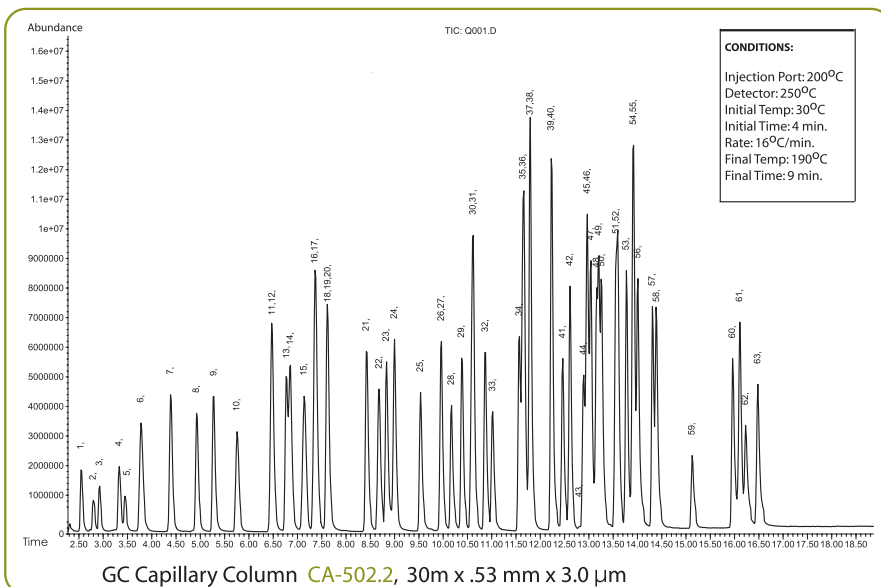


THE 60 BIG MIX

The Most routinely analyzed Volatile Compounds in ONE ampule
All compounds checked on our GC-MS Systems
Highest quality at an affordable price

Compound List Each at 1,000 µg/mL

- 1 Dichlorodifluoromethane
- 2 Chloromethane
- 3 Vinyl Chloride
- 4 Bromomethane
- 5 Chloroethane
- 6 Trichlorofluoromethane
- 7 1,1-Dichloroethene
- 8 Methylene Chloride
- 9 trans-1,2-Dichloroethene
- 10 1,1-Dichloroethane
- 11 2,2-Dichloropropane
- 12 cis-1,2-Dichloroethene
- 13 Bromochloromethane
- 14 Chloroform
- 15 1,1,1-Trichloroethane
- 16 1,1-Dichloropropene
- 17 Carbon Tetrachloride
- 18 1,2-Dichloroethane
- 19 1,2-Dichloroethane-d4*
- 20 Benzene
- 21 Trichloroethene
- 22 1,2-Dichloropropane
- 23 Dibromomethane
- 24 Bromodichloromethane
- 25 cis-1,3-Dichloropropene
- 26 Toluene-d8*
- 27 Toluene
- 28 trans-1,3-Dichloropropene
- 29 1,1,2-Trichloroethane
- 30 Tetrachloroethene
- 31 1,3-Dichloropropane
- 32 Dibromochloromethane
- 33 1,2-Dibromoethane
- 34 Chlorobenzene
- 35 1,1,1,2-Tetrachloroethane
- 36 Ethylbenzene



- 37 m-Xylene
- 38 p-Xylene
- 39 o-Xylene
- 40 Styrene
- 41 Bromoform
- 42 Isopropylbenzene
- 43 4-Bromofluorobenzene (BFB)*
- 44 1,1,2,2-Tetrachloroethane
- 45 Bromobenzene
- 46 1,2,3-Trichloropropane

- 47 n-Propylbenzene
- 48 2-Chlorotoluene
- 49 1,3,5-Trimethylbenzene
- 50 4-Chlorotoluene
- 51 tert-Butylbenzene
- 52 1,2,4-Trimethylbenzene
- 53 sec-Butylbenzene
- 54 1,3-Dichlorobenzene
- 55 p-Isopropyltoluene
- 56 1,4-Dichlorobenzene

- 57 n-Butylbenzene
- 58 1,2-Dichlorobenzene
- 59 1,2-Dibromo-3-Chloropropane
- 60 1,2,4-Trichlorobenzene
- 61 Hexachlorobutadiene
- 62 Naphthalene
- 63 1,2,3-Trichlorobenzene

* System Monitoring Compounds

Also Available at:

- | | |
|------------|-------------------------|
| 200 µg/mL | Part #: 60-BIG-MIX-200 |
| 1000 µg/mL | Part #: 60-BIG-MIX |
| 2000 µg/mL | Part #: 60-BIG-MIX-2000 |

Standard

Part #: 60-BIG-MIX
1 mL ampule at 1000 µg/mL
in Methanol P & T

Used for GC/MS Analysis of Volatile Organics.

To find out more information call your sales representative at 800-LAB-SPEX x444

IT DOESN'T GET ANY BIGGER THAN THIS!



203 Norcross Avenue • Metuchen, NJ 08840 • Phone: 800-LAB-SPEX • Fax: 732-603-9647 • Email: CRMSales@spexcsp.com • Web: www.spexcertiprep.com

Volatiles

METHOD 501

The US EPA method 501 is an analytical method that utilizes a purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of the volatile halogenated components found in a 5 mL sample of drinking water. To detect the GC eluant, a Hall detector is used.

■ Trihalomethanes

4 Certified Components:

Bromodichloromethane	Chloroform
Bromoform	Dibromochloromethane

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: THM-XH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: THM-X

METHOD 502.1

The US EPA method 502.1 is an analytical method that uses a purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of the volatile halogenated components found in a 5 mL sample of drinking or raw source water. To detect the GC eluant, a Hall detector is used.

■ Volatile Organics Combination Mix

Analyte Mixes A, C & D

34 Certified Components:

trans-1,2-Dichloroethene	Bromodichloromethane
trans-1,3-Dichloropropene	Bromoform
1,1-Dichloroethane	Carbon Tetrachloride
1,1-Dichloroethene	Chlorobenzene
1,1-Dichloropropene	Chloroform
1,2-Dibromoethane	cis-1,2-Dichloroethene
1,2-Dichlorobenzene	cis-1,3-Dichloropropene
1,2-Dichloroethane	Dibromochloromethane
1,2-Dichloropropane	Dibromomethane
1,3-Dichlorobenzene	Methylene chloride
1,3-Dichloropropane	Tetrachloroethene
1,4-Dichlorobenzene	Trichloroethene
2,2-Dichloropropane	1,1,1,2-Tetrachloroethane
2-Chlorotoluene	1,1,1-Trichloroethane
4-Chlorotoluene	1,1,2,2-Tetrachloroethane
Bromobenzene	1,1,2-Trichloroethane
Bromochloromethane	1,2,3-Trichloropropane

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5021-A

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



Helpful Hint:

Solutions that contain 2-Chloroethylvinyl ether should be checked or replaced on a monthly basis.

■ Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

■ Mix B - Purgeable gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

1 mL x 4 pack

Catalog#: 5022-B-4

■ Mix C

15 Certified Components:

Bromobenzene	1,3-Dichlorobenzene
Bromochloromethane	cis-1,2-Dichloroethene
Bromodichloromethane	1,1-Dichloropropene
2-Chlorotoluene	1,3-Dichloropropane
4-Chlorotoluene	1,1,1,2-Tetrachloroethane
1,2-Dibromoethane	1,1,1-Trichloroethane
Dibromomethane	1,2,3-Trichloropropane
1,2-Dichlorobenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5021-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5021-C

■ Mix D

4 Certified Components:

1,4-Dichlorobenzene	trans-1,3-Dichloropropene
2,2-Dichloropropane	cis-1,3-Dichloropropene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5021-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5021-D

Need more helpful hints?

A wealth of technical tips and advice from our expert chemists can be found on our Web site:

- Check our trade show and seminar schedule to determine when we will be giving a talk near you.
- Download a copy of one of our posters or presentations.
- Subscribe to our newsletter.
- View our archive of Ask a Chemist questions – technical questions asked by you and answered by our chemists.
- Get immediate answers by using our Live Chat function.

As always, feel free to call us with technical questions!

Method 502.1 Kits

5021K-1 contains one ampule each of CLPV-A, 5022-B, 5021-C, and 5021-D (all analytes at 200 µg/mL)

Catalog#: 5021K-1

5021K-2 contains one ampule each of CLPV-AH, 5022-BH, 5021-CH, and 5021-DH (all analytes at 2,000 µg/mL)

Catalog#: 5021K-2

5022K-3 contains one ampule each of 5242-VCX and 5022-BH (all analytes at 2,000 µg/mL)

Catalog#: 5022K-3

Internal Standard

1 Certified Component:

Bromodichloromethane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-542

Fortification Solution

3 Certified Components:

4-Bromofluorobenzene

1,2-Dichlorobenzene-d

Fluorobenzene₄

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 5242-F

Surrogate Standard

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-S1

Customer Testimonial:

"...the best quality and service at competitive prices (even when converted in other currencies such as South African Rand!). We have not had one single complaint from end users over the past twelve years since we became the distributor for SPEX CertiPrep in South Africa — for a distributor this is total peace of mind!"

– Francois Beukes

METHOD 502.2

The US EPA method 502.2 is an analytical method that utilizes a purge & trap device for sample prep and a Gas chromatograph equipped with a megabore capillary column to perform the separation of the volatile organic components found in a 5 mL sample of drinking or raw source water. To detect the GC eluant both Hall and PID (Photoionization) detectors are used.

■ "BIG-MIX" Volatile Organics Mix with 60 Certified Components

60 Certified Components:

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

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX-200

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX-2000

■ Volatile Organics Combination Mix Analyte Mixes A, C & D

Includes all analytes in Mixes A, C and D

54 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-VCX

1 mL x 4 pack

Catalog#: 5242-VCX-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-VCX-200

1 mL @ 2,000 µg/mL in P&T methanol

Contains the same analytes as 5242-VCX, but with meta- and para-xylene at 1,000 µg/mL.

Catalog#: HICAL-VOC

■ Mix B - Purgeable Gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

1 mL x 4 pack

Catalog#: 5022-B-4

■ Analyte Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



Analyte Mix C

22 Certified Components:

Bromobenzene	1,3-Dichloropropane
Bromochloromethane	1,1-Dichloropropene
Bromodichloromethane	cis-1, 3-Dichloropropene
n-Butylbenzene	trans-1,3-Dichloropropene
2-Chlorotoluene	Ethylbenzene
4-Chlorotoluene	Isopropylbenzene
1,2-Dibromoethane	Styrene
Dibromomethane	1,1,1,2-Tetrachloroethane
1,2-Dichlorobenzene	1,1,1-Trichloroethane
1,3-Dichlorobenzene	1,2,3-Trichloropropane
cis-1,2-Dichloroethene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-C

Analyte Mix D

17 Certified Components:

Benzene	n-Propylbenzene
sec-Butylbenzene	Toluene
tert-Butylbenzene	1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene
1,4-Dichlorobenzene	1,2,4-Trimethylbenzene
2,2-Dichloropropane	1,3,5-Trimethylbenzene
Hexachlorobutadiene	o-Xylene
p-Isopropyltoluene	m-Xylene
Naphthalene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-D

Customize Your Standards!

Specify compounds, concentrations, and matrices.

Visit www.spexcertiprep.com/customorganics to submit your request.

Method 502.2 Kits

5022K-1 contains one ampule each of CLPV-A, 5022-B, 5242-C, and 5242-D (all analytes at 200 µg/mL)

Catalog#: 5022K-1

5022K-2 contains one ampule each of CLPV-AH, 5022-BH, 5242-CH, and 5242-DH (all analytes at 2,000 µg/mL.)

Catalog#: 5022K-2

5022K-3 contains one ampule each of 5242-VCX and 5022-BH (all analytes at 2,000 µg/mL.)

Catalog#: 5022K-3

Recommended Internal Standards

1 Certified Component:

1-Chloro-2-fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-935

2 Certified Components:

2-Bromo-1-chloropropane

Fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 5022-I

Alternate Internal Standards

1 Certified Component:

2-Bromo-1-chloropropane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-580

1 Certified Component:

1,4-Dichlorobutane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-1365

1 Certified Component:

Fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-2040

Surrogate Standards

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-550

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-S1

METHOD 503.1

The US EPA method 503.1 is an analytical method that utilizes a purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of the volatile aromatic and unsaturated hydrocarbon components found in a 5 mL sample of water. To detect the GC eluant, both a Hall detector and PID are used.

■ 503.1 Analyte Mix

28 Certified Components:

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

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5031-A

Internal Standard

1 Certified Component:

α,α,α,-Trifluorotoluene

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 602-I

Helpful Hint:

Our Volatile Organic Standards are made from pure chemicals in Purge and Trap Grade Methanol.

METHODS 504/504.1

The US EPA method 504 is an analytical method that utilizes a 2 mL of hexane to extract 35 mL drinking or ground water and a gas chromatograph equipped with a capillary column to perform the separation of EDB and DBCP. To detect the GC eluant, an ECD (Electron capture) detector is used.

■ Method 504 Analytes

2 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 504-AH

■ Method 504.1 Analytes

3 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5041-AH

METHOD 524.2

WITH REVISION 4 COMPOUNDS

The US EPA method 524.2 is an analytical method that utilizes a purge & trap device for sample prep and a gas chromatograph equipped with a capillary column to perform the separation of volatile organic components. To detect the GC eluant, a mass spectrometer detector is used. Analytes added to Method 524.2 in Revision 4 are supplied in a 24-component blend.

■ "BIG-MIX" Volatile Organics Mix with 60 Certified Components

60 Certified Components:

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

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX-200

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX-2000

■ Mix B - Purgeable Gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

1 mL x 4 pack

Catalog#: 5022-B-4

■ Volatile Organics Combination Mix Analyte Mixes A, C & D

Includes all analytes in Mixes A, C and D

54 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-VCX

1 mL x 4 pack

Catalog#: 5242-VCX-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-VCX-200

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-VCX-200G

Contains the same analytes as 5242-VCX-200, plus the following additional analytes:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: HICAL-VOC

Contains the same analytes as 5242-VCX, but with meta- and para-xylene each at 1,000 µg/mL.

■ Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

■ Analyte Mix C

22 Certified Components:

Bromobenzene	1,3-Dichloropropane
Bromochloromethane	1,1-Dichloropropene
Bromodichloromethane	cis-1, 3-Dichloropropene
n-Butylbenzene	trans-1,3-Dichloropropene
2-Chlorotoluene	Ethylbenzene
4-Chlorotoluene	Isopropylbenzene
1,2-Dibromoethane	Styrene
Dibromomethane	1,1,1,2-Tetrachloroethane
1,2-Dichlorobenzene	1,1,1-Trichloroethane
1,3-Dichlorobenzene	1,2,3-Trichloropropane
cis-1,2-Dichloroethene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-C

■ Method 524.2 Mix D

17 Certified Components:

Benzene	n-Propylbenzene
sec-Butylbenzene	Toluene
tert-Butylbenzene	1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene
1,4-Dichlorobenzene	1,2,4-Trimethylbenzene
2,2-Dichloropropane	1,3,5-Trimethylbenzene
Hexachlorobutadiene	o-Xylene
p-Isopropyltoluene	m-Xylene
Naphthalene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-D

■ Method 524.2 Revision 4

24 Certified Components:

Acetone	2-Hexanone
Acrylonitrile	Methyl Acrylate
Allyl chloride	Methacrylonitrile
2-Butanone	Iodomethane
Carbon disulfide	Methylmethacrylate
Chloroacetonitrile	4-Methyl-2-pentanone
1-Chlorobutane	methyl tert-butyl ether
trans-1,4-Dichloro-2-butene	Nitrobenzene
1,1-Dichloropropanone	2-Nitropropane
Diethyl ether	Pentachloroethane
Ethyl methacrylate	Propionitrile
Hexachloroethane	Tetrahydrofuran

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-R4200

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-R4

1 mL x 4 pack

Catalog#: 5242-R4-4

Helpful Hint:

Special packaging needs?

Visit our web site for a sampling of our capabilities, or call us at 1-800-LAB-SPEX ext. 444.

Method 524.2 Kits

5242-K-R4 contains one ampule each of 5242-VCX, 5022-BH, Revision 4 Analytes mix- 5242-R4, 5242-I, 5242-S, and 5242-F. All analytes are present at 2,000 µg/mL.

Catalog#: 5242-K-R4

5022K-1 contains one ampule each of CLPV-A, 5022-B, 5242-C, 5242-D, 5242-I, 5242-S, and 5242-F (all analytes at 200 µg/mL)

Catalog#: 5022K-1

5022K-2 contains one ampule each of CLPV-AH, 5022-BH, 5242-CH and 5242-DH, 5242-I, 5242-S, and 5242-F (all analytes at 2,000 µg/mL)

Catalog#: 5022K-2

5022K-3 contains one ampule each of 5242-VCX and 5022-BH (all analytes at 2,000 µg/mL)

Catalog#: 5022K-3

Fortification Solution

3 Certified Components:

4-Bromofluorobenzene

1,2-Dichlorobenzene-d₄

Fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 5242-F

GC/MS Tuning Standard (BFB)

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-TH

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-550

Internal Standard

1 Certified Component:

Fluorobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-I

Surrogate Standard

2 Certified Components:

4-Bromofluorobenzene

1,2-Dichlorobenzene-d₄

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 5242-S

Alternate Surrogate Standard

1 Certified Component:

1,2-Dichlorobenzene-d₄

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-1305

METHOD 551.1

US EPA method 551.1 is an analytical method for the determination of chlorinated disinfection byproducts, chlorinated solvents and halogenated pesticides/herbicides in finished drinking water, drinking water in various treatment stages, and raw source water. This method specifies an MTBE extraction and a gas chromatograph equipped with a capillary column to perform the separation and an ECD (Electron capture) detector.

Chlorinated disinfection by-products, solvents and trihalomethanes combination mix

18 Certified Components:

Bromodichloromethane

Bromoform

Carbon tetrachloride

Chloroform

Chloropicrin

Dibromoacetonitrile

Dibromochloromethane

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

1,2-Dibromoethane (EDB)

Dichloroacetonitrile

1,1-Dichloro-2-propanone

Tetrachloroethene

Trichloroacetonitrile

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichloroethene

1,2,3-Trichloropropane

1,1,1-Trichloro-2-propanone

1 mL @ 2,000 µg/mL in acetone

Catalog#: 5511-A

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



■ Mix A - Method 551

16 Certified Components:

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

1 mL @ 2,000 µg/mL in acetone

Catalog#: 551-A

■ Halogenated Pesticides and Herbicides Mix

16 Certified Components:

Alachlor	Heptachlor epoxide
Atrazine	Hexachlorobenzene
Bromacil	Hexachlorocyclopentadiene
Cyanazine	Lindane (γ-BHC)
Endrin	Metolachlor
Endrin aldehyde	Metribuzin
Endrin ketone	Methoxychlor
Heptachlor	Trifluralin

1 mL @ 2,000 µg/mL in acetone

Catalog#: 5511-PH

Surrogate Standard

1 Certified Component:

Decafluorobiphenyl

1 mL @ 1,000 µg/mL in acetone

Catalog#: S-1103

Internal Standard

1 Certified Component:

Bromofluorobenzene (BFB)

1 mL @ 10,000 µg/mL in acetone

Catalog#: 5511-I

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■ Laboratory Performance Check Solution

7 Certified Components:

	µg/mL		µg/mL
Alaclor	83	Endrin	30
γ-BHC (Lindane)	0.2	Hexachlorocyclopentadiene	20
Bromacil	83	Trichloroethene	30
Bromodichloromethane	30		

1 mL in methyl tert-butyl ether*

Catalog#: 5511-PC

*Also available in Pentane. Please call for details.

■ Custom Standards for Method 551.1

If you're not running the entire analyte list for method 551.1, custom standards may be the most cost-effective way to simplify your calibrations. Submit your custom design request at www.spexcertiprep.com/customorganics.

METHOD 601

The US EPA method 601 is an analytical method which utilizes a purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of the volatile halogenated components found in a 5 mL sample of municipal or industrial wastewater. To detect the GC eluant, a Hall detector is used.

■ Volatile Organics Combination Mix - Analyte Mixes A, C & D

Includes all analytes in Mixes A, C and D

23 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,1-Dichloroethene
Chlorobenzene	1,2-Dichloropropane
2-Chloroethylvinyl ether	cis-1,3-Dichloropropene
Chloroform	trans-1,3-Dichloropropene
Bromodichloromethane	Methylene chloride
Dibromochloromethane	1,1,2,2-Tetrachloroethane
1,2-Dichlorobenzene	Tetrachloroethene
1,3-Dichlorobenzene	1,1,1-Trichloroethane
1,4-Dichlorobenzene	1,1,2-Trichloroethane
1,1-Dichloroethane	Trichloroethene
1,2-Dichloroethane	

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 601-A

Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

Mix B - Purgeable gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

Mix C

5 Certified Components:

Bromodichloromethane	trans-1,3-Dichloropropene
2-Chloroethylvinyl ether	1,1,1-Trichloroethane
cis-1,3-Dichloropropene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 601-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 601-C

Mix D

3 Certified Components:

1,2-Dichlorobenzene	1,4-Dichlorobenzene
1,3-Dichlorobenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 624-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 624-D

Method 601 Kit

601K contains one ampule each of 601-A and 5022-B

Catalog#: 601K

Surrogate Standard

3 Certified Components:

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

1 mL @ 20,000 µg/mL in P&T methanol

Catalog#: 601-I

Performance Check Solution

8 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 601-PCS

METHOD 602

The US EPA method 602 is an analytical method which utilizes a purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of the volatile aromatic components found in a 5 mL sample of municipal or industrial wastewater. To detect the GC eluant a PID (Photoionization) detector is used.

Purgeable Aromatics

7 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 602-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 602-A

■ Purgeable Aromatics for Gasoline Identification

11 Certified Components:

Benzene	methyl tert-butyl ether
Chlorobenzene	Toluene
1,2-Dichlorobenzene	o-Xylene
1,3-Dichlorobenzene	m-Xylene
1,4-Dichlorobenzene	p-Xylene
Ethylbenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: P-GAS

■ BTEX Standard

6 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: BTEX-H

1 mL x 4 pack

Catalog#: BTEX-H-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: BTEX

■ Alternate BTEX Standard

6 Certified Components:

	µg/mL		µg/mL
Benzene	2,000	o-Xylene	2,000
Toluene	2,000	m-Xylene	1,000
Ethylbenzene	2,000	p-Xylene	1,000

1 mL in P&T methanol

Catalog#: BTEX-2-1H

■ BTEX Characterized Gasoline Standard

Regular Unleaded Gasoline with certified benzene, ethyl benzene, toluene, and xylene concentrations.

This mix is particularly useful for those who may need to calculate the concentration of either gasoline or the BTEX components of the sample.

1 mL in P&T methanol 20,000 µg/mL Regular Unleaded Gasoline

Catalog#: GAS-20

Levels of Benzene, Toluene, Ethylbenzene, o-xylene, m-xylene, p-xylene will be reported on the certificate.

■ Internal/Surrogate Standard

1 Certified Component:

α,α,α-Trifluorotoluene

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 602-I

METHOD 603

The US EPA method 603 is an analytical method which utilizes a heated purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of Acrolein and Acrylonitrile found in 5 mL samples of municipal or industrial wastewater. To detect the GC eluant, an FID (Flame ionization) detector is used.

■ Acrolein and Acrylonitrile in water (pH 4-5)

2 Certified Components:

Acrolein

Acrylonitrile

1 mL @ 2,000 µg/mL in water

Catalog#: 603-X

Acrolein is more stable in water.

Surrogates & Internal Standards...

See our updated and comprehensive listing of surrogates, internal standards, and matrix spikes for volatile and semivolatile analysis methods on pages 124-131.

■ Acrolein and Acrylonitrile in methanol purge and trap

2 Certified Components:

Acrolein
Acrylonitrile

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 603-XM

METHOD 624

The US EPA method 624 is an analytical method which utilizes a purge & trap device for sample prep and a gas chromatograph equipped with a packed column to perform the separation of the volatile organic components found in a 5 mL sample of municipal or industrial wastewater. To detect the GC eluant, a mass spectrometer detector is used.

■ Volatile Organics Combination Mix - Analyte mixes A, C & D

Includes all analytes in Mixes A, C and D

26 Certified Components:

Benzene	1,1-Dichloroethene
Bromodichloromethane	trans-1,2-Dichloroethene
Bromoform	1,2-Dichloropropane
Carbon Tetrachloride	cis-1,3-Dichloropropene
2-Chloroethylvinyl ether	trans-1,3-Dichloropropene
Chloroform	Ethylbenzene
Chlorobenzene	Methylene chloride
Dibromochloromethane	Tetrachloroethene
1,4-Dichlorobenzene	1,1,2,2-Tetrachloroethane
1,3-Dichlorobenzene	Toluene
1,2-Dichlorobenzene	1,1,1-Trichloroethane
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 624-A

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■ Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol
Catalog#: CLPV-A

■ Mix B - Purgeable gases

5 Certified Components:

Bromomethane	Trichlorofluoromethane
Chloroethane	Vinyl chloride
Chloromethane	

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 624-BH

1 mL @ 200 µg/mL in P&T methanol
Catalog#: 624-B

■ Mix C

8 Certified Components:

Benzene	trans-1,3-Dichloropropene
Bromodichloromethane	Ethylbenzene
2-Chloroethylvinyl ether	Toluene
cis-1,3-Dichloropropene	1,1,1-Trichloroethane

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 624-CH

1 mL @ 200 µg/mL in P&T methanol
Catalog#: 624-C

■ Mix D

3 Certified Components:

1,2-Dichlorobenzene	1,4-Dichlorobenzene
1,3-Dichlorobenzene	

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 624-DH

1 mL @ 200 µg/mL in P&T methanol
Catalog#: 624-D

Method 624 Kits

624K-1 contains one ampule each of CLPV-A, 624-B, 624-C, and 624-D (all analytes at 200 µg/mL)

Catalog#: 624K-1

624K-2 contains one ampule each of CLPV-AH, 624-BH, 624-CH, and 624-DH (all analytes at 2,000 µg/mL)

Catalog#: 624K-2

624K-3 contains one ampule each of 624-A and 624-BH (all analytes at 2,000 µg/mL)

Catalog#: 624K-3

Internal Standard

3 Certified Components:

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

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 624-I

Surrogate Standard

3 Certified Components:

4-Bromofluorobenzene Pentafluorobenzene
Fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 624-S

METHOD 8010A

The SW-846 method 8010A is an analytical method that utilizes a purge & trap device for sample prep (or direct injection) and a gas chromatograph to perform the separation of volatile halogenated components. To detect the GC eluant, a Hall detector is used.

■ Mix A

27 Certified Components:

Benzyl chloride	1,1-Dichloroethene
Bromobenzene	trans-1,2-Dichloroethene
Bromodichloromethane	Dichloromethane
Bromoform	1,2-Dichloropropane
Carbon Tetrachloride	cis-1,3-Dichloropropene
Chlorobenzene	trans-1,3-Dichloropropene
Chloroform	1,1,1,2-Tetrachloroethane
Dibromochloromethane	1,1,2,2-Tetrachloroethane
Dibromomethane	Tetrachloroethene
1,2-Dichlorobenzene	1,1,1-Trichloroethane
1,3-Dichlorobenzene	1,1,2-Trichloroethane
1,4-Dichlorobenzene	Trichloroethene
1,1-Dichloroethane	1,2,3-Trichloropropene
1,2-Dichloroethane	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8010A-X

■ Mix B - Purgeable Gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

1 mL x 4 pack

Catalog#: 5022-B-4

■ 2-Chloroethylvinyl Ether Stock Standard

1 Certified Component:

2-Chloroethylvinyl Ether

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-855-2K

Internal Standard and Surrogate

3 Certified Components:

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

1 mL @ 20,000 µg/mL in P&T methanol

Catalog#: 601-I

Customer Testimonial:

"SPEX CertiPrep® has been one of my most valued suppliers for over 10 years. This distinction has been accomplished through their constant offering of high quality, innovative products to the marketplace, along with their commitment to our customers."

– Gilles Groulx

ATS Scientific, Canada

METHOD 8010B

The SW-846 method 8010B is an analytical method that utilizes a purge & trap device for sample prep (or direct injection) and a gas chromatograph to perform the separation of volatile halogenated components. To detect the GC eluant, a Hall detector is used.

Mix A

40 Certified Components:

Allyl chloride	trans-1,4-Dichlorobutene
Benzyl chloride	1,1-Dichloroethane
bis(2-Chloroethoxy)methane	1,2-Dichloroethane
bis(2-Chloroisopropyl)ether	1,1-Dichloroethene
Bromobenzene	trans-1,2-Dichloroethene
Bromodichloromethane	Dichloromethane
Bromoform	1,2-Dichloropropane
Carbon tetrachloride	1,3-Dichloro-2-propanol
Chlorobenzene	cis-1,3-Dichloropropene
2-Chloroethanol	trans-1,3-Dichloropropene
Chloroform	Epichlorohydrin
1-Chlorohexane	Ethylene dibromide
Chloromethyl methyl ether	Methyl iodide
4-Chlorotoluene	1,1,1,2-Tetrachloroethane
Dibromochloromethane	1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane	Tetrachloroethene
Dibromomethane	1,1,1-Trichloroethane
1,2-Dichlorobenzene	1,1,2-Trichloroethane
1,3-Dichlorobenzene	Trichloroethene
1,4-Dichlorobenzene	1,2,3-Trichloropropane

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 8010B-X

Mix B - Purgeable Gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: 5022-BH

1 mL x 4 pack
Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol
Catalog#: 5022-B

1 mL x 4 pack
Catalog#: 5022-B-4

2-Chloroethylvinyl Ether Stock Standard

1 Certified Component:

2-Chloroethylvinyl Ether

1 mL @ 2,000 µg/mL in P&T methanol
Catalog#: S-855-2K

Chloroprene Stock Standard (Xylene-Free)

1 Certified Component:

Chloroprene (2-Chloro-1,3-butadiene)

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-930-2K

Surrogate Solution

3 Certified Components:

Bromochloromethane

4-Bromochlorobenzene

4-Bromofluorobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8010B-5

METHOD 8011

The SW-846 method 8011 is an analytical method that utilizes a 2 mL of hexane to extract 35 mL of water and a gas chromatograph to perform the separation of EDB and DBCP. To detect the GC eluant, an electron capture detector (ECD) is used.

EDB/DBCP

2 Certified Components:

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

1,2-Dibromoethane (EDB)

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 504-AH

METHOD 8015A

The SW-846 method 8015A is an analytical method that utilizes a purge & trap device for sample prep (or direct injection) and a gas chromatograph to perform the separation of volatile components. To detect the GC eluant, a flame ionization detector (FID) is used.

Mix A

4 Certified Components:

Diethyl ether

Ethanol

Methyl ethyl ketone

Methyl isobutyl ketone

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8015A-A

■ Mix B

8 Certified Components:

Acetonitrile	Isobutyl alcohol
Acrylamide	Methacrylonitrile
1,4-Dioxane	Methyl methacrylate
Ethyl methacrylate	Propionitrile

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8015A-B

METHOD 8015B

Method 8015 provides gas chromatographic conditions for the detection of certain non-halogenated volatile and semivolatile organic compounds. Detection is achieved by a flame ionization detector (FID). Introduction into the GC is performed following solvent extraction, by direct injection (aqueous samples) including the concentration of analytes by azeotropic distillation, purge and trap, or vacuum distillation.

■ Alcohols Mix

9 Certified Components:

Allyl alcohol	Isobutyl alcohol
1-Butanol	Isopropyl alcohol
t-Butyl alcohol	Methanol
Ethanol	1-Propanol
Ethylene glycol	

1 mL @ 2,000 µg/mL in water

Catalog#: 8015B-A

■ Analyte Mix B

16 Certified Components:

Acetone	Methyl ethyl ketone
Acrylamide	Methyl isobutyl ketone
Acetonitrile	N-Nitroso-di-n-butylamine
Crotonaldehyde	2-Pentanone
Diethyl ether	2-Picoline
1,4-Dioxane	Propionitrile
Ethyl acetate	Pyridine
Ethylene oxide	o-Toluidine

1 mL @ 2,000 µg/mL in water

Catalog#: 8015B-B

■ Acrolein and Acrylonitrile in water (pH 4-5)

2 Certified Components:

Acrolein
Acrylonitrile

1 mL @ 2,000 µg/mL in water

Catalog#: 603-X

Internal Standard

3 Certified Components:

2-Chloroacrylonitrile
Hexafluoro-2-propanol
Hexafluoro-2-methyl-2-propanol

1 mL @ 5,000 µg/mL in water

Catalog#: 8015B-I

METHOD 8020/8020A

The SW-846 method 8020/8020A is an analytical method that utilizes a purge & trap device for sample prep (or direct injection) and a gas chromatograph to perform the separation of volatile components. To detect the GC eluant, a photoionization detector (PID) is used.

■ Mix A

10 Certified Components:

Benzene	Ethylbenzene
Chlorobenzene	Toluene
1,2-Dichlorobenzene	o-Xylene
1,3-Dichlorobenzene	m-Xylene
1,4-Dichlorobenzene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8020-A

■ Mix B

4 Certified Components:

2-Picoline
Pyridine
Styrene
Thiophenol

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8020-B

Surrogate Standard

3 Certified Components:

4-Bromofluorobenzene
1,4-Difluorobenzene
Fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 8020-S

Internal Standard

1 Certified Component:

α,α,α-Trifluorotoluene

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 602-I

METHOD 8021/8021A/8021B

The SW-846 methods 8021/8021A/8021B are analytical methods which utilize purge & trap device for the sample prep of almost all types of samples and a gas chromatograph equipped with a megabore capillary column to perform the separation of the volatile organic components found in a sample. To detect the GC eluant, both Hall and photoionization detectors (PID) are used.

■ Volatile Organics Combination Mix

54 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-VCX

1 mL x 4 pack

Catalog#: 5242-VCX-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-VCX-200

■ Mix V53-524 Alternate Analyte Mix

This 53-component mix contains all of the components listed in 5242-VCX **except bromochloromethane** and is particularly useful for those who use the CLP internal standards.

53 Certified Components:

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: V53-524

1 mL @ 200 µg/mL in P&T methanol

Catalog#: V53-524-200

■ Method 8021B Analytes (Purge & Trap)

4 Certified Components:

Allyl chloride	Chloroprene
2-Chloroethylvinyl ether	(2-Chloro-1,3-butadiene)
Bis-(2-chloroisopropyl)ether	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8021B-XA

■ Method 8021B Analytes (Direct Injection)

6 Certified Components:

Benzyl Chloride	2-Chloroethanol
1-bromo-2-propanone	1,3-Dichloro-2-propanol
(Bromoacetone)	Epichlorhydrin
Chloromethyl methyl ether	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8021B-XB

Internal Standard

2 Certified Components:

2-Bromo-1-chloropropane
Fluorobenzene

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 5022-I

Surrogate Standard

2 Certified Components:

Bromochlorobenzene
1,4-Dichlorobutane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 8021B-S

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



METHOD 8030

The SW-846 method 8030 is an analytical method that utilizes a heated purge & trap device for sample prep (or direct injection) and a gas chromatograph to perform the separation of the following compounds found in a variety of sample types. To detect the GC eluant, a flame ionization detector (FID) is used.

■ 603 Mix AW

2 Certified Components:

Acrolein
Acrylonitrile

1 mL @ 2,000 µg/mL in water (pH 4-5)

Catalog#: 603-XW

■ 603 Mix AM

2 Certified Components:

Acrolein
Acrylonitrile

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 603-XM

METHOD 8031

The SW-846 method 8031 is an analytical method that utilizes a micro extraction technique and a gas chromatograph to perform the separation of Acrylonitrile. To detect the GC eluant a nitrogen-phosphorous detector (NPD) is used.

■ Acrylonitrile Stock Solution

1 Certified Component:

Acrylonitrile

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-180

METHOD 8033

The SW-846 method 8033 is an analytical method that uses a gas chromatograph equipped with an NPD detector used to determine the concentration of acetonitrile.

■ Acetonitrile Stock Solution

1 Certified Component:

Acetonitrile

1 mL @ 1,000 µg/mL in water

Catalog#: S-145

METHOD 8240B AND APPENDIX IX ANALYTES

The US EPA SW-846 method 8240B contains detailed operating procedures to be followed by laboratories analyzing solid and liquid matrices. Many state and federal agencies look to these methods for guidance in terms of analytical parameters. Method 8240 is an analytical method that utilizes a purge extraction of sample, concentration after purge on a trap, and a gas chromatograph equipped with a packed or capillary column to perform the separation of the volatile compounds. To detect the GC eluant, a mass spectrometer (MS) detector is used.

METHOD 8240B "SHORT LIST"

■ 8240 Volatile Organics Combination Mix

Contains all analytes present in 8240 Mixes A and C in one convenient-to-use blend.

26 Certified Components:

Benzene	Ethylbenzene
Bromodichloromethane	Methylene chloride
Bromoform	Styrene
Carbon Tetrachloride	1,1,2,2-Tetrachloroethane
Chlorobenzene	Tetrachloroethene
Chloroform	Toluene
Dibromochloromethane	1,1,1-Trichloroethane
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	trans-1,2-Dichloroethene
1,1-Dichloroethene	Trichloroethene
1,2-Dichloropropane	o-Xylene
cis-1,3-Dichloropropene	m-Xylene
trans-1,3-Dichloropropene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-25

■ Mix B - Purgeable gases

4 Certified Components:

Bromomethane	Chloromethane
Chloroethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-BH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-B

■ Additional Analytes Mix D

8 Certified Components:

Acetone	2-Hexanone
2-Butanone	4-Methyl-2-pentanone
Carbon disulfide	Styrene
2-Chlorethylvinyl ether	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 8240-D

■ Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

■ Mix C

9 Certified Components:

Benzene	Toluene
Bromodichloromethane	1,1,1-Trichloroethane
cis-1,3-Dichloropropene	o-Xylene
trans-1,3-Dichloropropene	m-Xylene
Ethylbenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-C

Method 8240B "Short List" Kit

8240-SLK contains one ampule each of 8240-25, CLPV-BH, and 8240-DH.

Catalog#: 8240-SLK

Method 8240B "Appendix IX" Kit

8240-LLK contains one ampule each of 8240-F, 8240-G, 8240-H, S-855-2K, S03800-2K, S-1960-2K, S-930-2K, and S-175W-2K or S-175M-2K.

Catalog#: 8240-LLK

METHOD 8240B "LONG LIST" (Appendix IX Analytes)

■ Mix F

9 Certified Components:

Acetonitrile	Malonitrile
Acrylonitrile	Methyl methacrylate
3-Chloropropionitrile	Methacrylonitrile
Ethyl methacrylate	Propionitrile
2-Hydroxypropionitrile	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-F

■ Mix G

11 Certified Components:

Allyl chloride	Ethanol
Allyl alcohol	Isobutyl alcohol
2-Chloroethanol	2-Picoline
1,3-Dichloro-2-propanol	Propargyl alcohol
1,2,3,4-Diepoxybutane	Pyridine
Epichlorohydrin	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-G

Method 8240B Kit

8240-G-SET contains one ampule each of 8240-G, S-522, S-3187, S-3205.

Catalog#: 8240-G-SET

Helpful Hint:

For additional surrogates see pages 124-131.

■ Mix H

13 Certified Components:

Benzyl chloride	1,4-Dichloro-2-butene
1,2-Dibromo-3-chloropropane	1,4-Dioxane
1,2-Dibromoethane	Iodomethane
Dibromomethane	Pentachloroethane
1,2-Dichlorobenzene	1,1,1,2-Tetrachloroethane
1,3-Dichlorobenzene	1,2,3-Trichloropropane
1,4-Dichlorobenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-H

■ 2-Chloroethylvinyl Ether Stock Standard

1 Certified Component:

2-Chloroethylvinyl Ether

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-855

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-855-2K

■ Vinyl Acetate Stock Standards

1 Certified Component:

Vinyl Acetate

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-3800

■ Combined Stock Standard

2 Certified Components:

2-Chloroethylvinyl ether

Vinyl acetate

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CNVA

■ Ethylene Oxide Stock Standard

1 Certified Component:

Ethylene Oxide

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-1960

■ Chloroprene Stock Standard (Xylene-Free)

1 Certified Component:

Chloroprene (2-chloro-1,3-butadiene)

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-930

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-930-2K

Internal Standard

3 Certified Components:

Bromochloromethane

1,4-Difluorobenzene

Chlorobenzene-d₅

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-I

Volatile Matrix Spike

5 Certified Components:

Benzene

Toluene

Chlorobenzene

Trichloroethene

1,1-Dichloroethene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-MH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-M

Need larger quantities?

Volume discounts are available!

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8240 Surrogate Standard**3 Certified Components:**

4-Bromofluorobenzene

1,2-Dichloroethane-d₄Toluene-d₈

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-SH

1 mL x 4 pack

Catalog#: CLPV-SH-4

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-S

GC/MS Tuning Standard (BFB)**1 Certified Component:**

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-TH

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-T

Helpful Hint:

Acrolein is more stable in water at pH 4-5.

METHOD 8260B

The SW-846 method 8260 is an analytical method which utilizes a gas chromatograph equipped with a capillary column to perform the separation of the volatile organic components found in a variety of solid waste matrices. To detect the GC eluant, a mass spectrometer detector is used.

■ "BIG-MIX" Volatile Organics Mix with 60 Certified Components

60 Certified Components:

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

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX-200

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 60-BIG-MIX-2000

■ Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

■ Mix C

22 Certified Components:

Bromobenzene	1,3-Dichloropropane
Bromochloromethane	1,1-Dichloropropene
Bromodichloromethane	cis-1,3-Dichloropropene
n-Butylbenzene	trans-1,3-Dichloropropene
2-Chlorotoluene	Ethylbenzene
4-Chlorotoluene	Isopropylbenzene
1,2-Dibromoethane	Styrene
Dibromomethane	1,1,1,2-Tetrachloroethane
1,2-Dichlorobenzene	1,1,1-Trichloroethane
1,3-Dichlorobenzene	1,2,3-Trichloropropane
cis-1,2-Dichloroethene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-C

■ Mix D

17 Certified Components:

Benzene	n-Propylbenzene
sec-Butylbenzene	Toluene
tert-Butylbenzene	1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene
1,4-Dichlorobenzene	1,2,4-Trimethylbenzene
2,2-Dichloropropane	1,3,5-Trimethylbenzene
Hexachlorobutadiene	o-Xylene
p-Isopropyltoluene	m-Xylene
Naphthalene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-D

“Short List” Analyte Mix

■ Volatile Organics Combination Mix

Contains all analytes in Mixes A, C and D

54 Certified Components:

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

54 Certified Components:

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5242-VCX

1 mL x 4 pack

Catalog#: 5242-VCX-4

54 Certified Components:

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5242-VCX-200

Alternate combination blend, V53-524, contains all analytes in 5242-VCX except bromochloromethane and is useful for those who use the CLP internal standards.

53 Certified Components:

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: V53-524

53 Certified Components:

1 mL @ 200 µg/mL in P&T methanol

Catalog#: V53-524-200

Mix B - Purgeable Gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

1 mL x 4 pack

Catalog#: 5022-B-4

Method 8260B "Short List" Kits

5022K-3 contains one ampule each of 5242-VCX and 5022-BH.

Catalog#: 5022K-3

Surrogate Standard

3 Certified Components:

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d₈

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8260-S

Alternate Four-Component Surrogate Standard

4 Certified Components:

4-Bromofluorobenzene
Dibromofluoromethane
1,2-Dichloroethane-d₄
Toluene-d₈

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8260A-S

Internal Standard

4 Certified Components:

Chlorobenzene-d₅
1,4-Dichlorobenzene-d₄
1,4-Difluorobenzene
Pentafluorobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8260-I

1 mL x 4 pack

Catalog#: 8260-I-4

Alternate Three-Component Internal Standard

3 Certified Components:

Chlorobenzene-d₅
1,4-Dichlorobenzene-d₄
Fluorobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8260A-I

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



Helpful Hint:

We value your input! Please call 1-800-LAB-SPEX ext. 444 with any suggestions, questions or comments.

“Long List” Appendix IX Compounds for 8260B

■ Mix E

7 Certified Components:

Acetone	2-Hexanone
2-Butanone	4-Methyl-2-pentanone
Carbon disulfide	Vinyl acetate
2-Chloroethylvinyl ether	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8260-EH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 8260-E

■ Mix F

9 Certified Components:

Acetonitrile	Malonitrile
Acrylonitrile	Methyl methacrylate
3-Chloropropionitrile	Methacrylonitrile
Ethyl methacrylate	Propionitrile
2-Hydroxypropionitrile	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-F

■ Mix G

11 Certified Components:

Allyl chloride	Ethanol
Allyl alcohol	Isobutyl alcohol
2-Chloroethanol	2-Picoline
1,3-Dichloro-2-propanol	Propargyl alcohol
1,2,3,4-Diepoxybutane	Pyridine
Epichlorohydrin	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8240-G

Method 8240B Kit

8240-G-SET contains one ampule each of 8240-G, S-522, S-3187, S-3205.

Catalog#: 8240-G-SET

■ Mix H

21 Certified Components:

Benzyl chloride	Hexachloroethane
bis-(2-Chloroethyl) sulfide	Methyl ethyl ketone
n-Butanol	Nitrobenzene
tert-Butylanol	2-Nitropropane
Crotonaldehyde	N-Nitroso-di-n-butylamine
cis-1,4-Dichloro-2-butene	Pentachloroethane
trans-1,4-Dichloro-2-butene	2-Pentanone
Diethyl ether	1-Propanol
1,4-Dioxane	2-Propanol
Ethyl acetate	o-Toluidine
Iodomethane	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8260-H

■ 2-Chloroethylvinyl Ether Stock Standard

1 Certified Component:

2-Chloroethylvinyl Ether

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-855

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-855-2K

■ Vinyl Acetate Stock Standards

1 Certified Component:

Vinyl Acetate

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-3800

■ Combined Stock Standard

2 Certified Components:

2-Chloroethylvinyl ether
Vinyl acetate

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CNVA

■ Ethylene Oxide Stock Standard

1 Certified Component:

Ethylene Oxide

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-1960

■ Xylene-Free Chloroprene Stock Standard

1 Certified Component:

Chloroprene (2-chloro-1,3-butadiene)

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-930

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-930-2K

Method 8260B “Appendix IX” Kit

8260-LLK contains one ampule each of 8260-EH, 8240-F, 8240-G, 8260-H, S-855-2K, S-3800-2K, S-1960-2K, S-930-2K, and S-175W-2K or S-175M-2K.

Catalog#: 8260-LLK

CLP SERIES - VOLATILES

The US EPA Contract Laboratory Program (CLP) is a contract through which the US EPA may retain analytical services. The CLP contracts contain detailed operating procedures to be followed by those laboratories which are awarded the contracts. The methods are derived from SW-846 and the US EPA-Office of Research and Development. Many state and federal agencies look to the CLP methods for guidance in terms of analytical parameters as a result of the large body of performance data which has been generated to validate the CLP methods. The CLP Volatile Organic Analysis method is an analytical method which utilizes a Purge extraction of 5 mL of aqueous sample or 5 g of solid sample, concentration after purge on a trap, and a Gas Chromatograph equipped with a packed or capillary column to perform the separation of the volatile compounds. To detect the GC eluant, an MS (Mass Spectrometer) detector is used.

■ Volatiles Mix for OLM04.1

43 Certified Components:

Acetone	1,2-Dichloropropane
Benzene	cis-1,3-Dichloropropene
Bromodichloromethane	trans-1,3-Dichloropropene
Bromoform	Ethylbenzene
2-Butanone	2-Hexanone
tert-Butyl methyl ether	Isopropylbenzene
Carbon disulfide	Methyl acetate
Carbon tetrachloride	Methylene chloride
Chlorobenzene	4-Methyl-2-pentanone
Chloroform	Styrene
Cyclohexane	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,2-Dibromo-3-chloropropane	Toluene
1,2-Dibromoethane	1,2,4-Trichlorobenzene
1,2-Dichlorobenzene	1,1,2-Trichloroethane
1,3-Dichlorobenzene	1,1,1-Trichloroethane
1,4-Dichlorobenzene	Trichloroethene
1,1-Dichloroethane	1,1,2-Trichlorotrifluoroethane
1,1-Dichloroethene	m-Xylene
1,2-Dichloroethane	o-Xylene
cis-1,2-Dichloroethene	p-Xylene
trans-1,2-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-43CH

Helpful Hint:

Customize your solutions! Tell us what you want...

Specify compounds, concentrations, and matrix.

Visit our web site to submit your request online:

www.spexcertiprep.com/customorganics.

■ Mix B - Purgeable gases for OLM04.1

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 5022-BH

1 mL x 4 pack

Catalog#: 5022-BH-4

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 5022-B

1 mL x 4 pack

Catalog#: 5022-B-4

■ Volatile Organics Combination Standard

CLP Volatiles Mix (7/91 IFB)

32 Certified Components:

Acetone	cis-1,3-Dichloropropene
Benzene	trans-1,3-Dichloropropene
Bromodichloromethane	Ethylbenzene
Bromoform	2-Hexanone
2-Butanone	Methylene chloride
Carbon disulfide	4-Methyl-2-pentanone
Carbon tetrachloride	Styrene
Chlorobenzene	1,1,2,2-Tetrachloroethane
Chloroform	Tetrachloroethene
Dibromochloromethane	Toluene
1,1-Dichloroethane	Trichloroethene
1,1-Dichloroethene	1,1,1-Trichloroethane
1,2-Dichloroethane	1,1,2-Trichloroethane
cis-1,2-Dichloroethene	m-Xylene
trans-1,2-Dichloroethene	o-Xylene
1,2-Dichloropropane	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-32CH

■ Mix B - Purgeable gases

4 Certified Components:

Bromomethane	Chloromethane
Chloroethane	Vinyl chloride

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-BH

1 mL @ 200 µg/mL in P&T methanol

CATALOG#: CLPV-B

■ Volatiles Mix A

15 Certified Components:

Bromoform	trans-1,2-Dichloroethene
Carbon Tetrachloride	1,2-Dichloropropane
Chlorobenzene	Methylene chloride
Chloroform	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,1-Dichloroethane	1,1,2-Trichloroethane
1,2-Dichloroethane	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-A

Helpful Hint:

We value your input! Please call 1-800-LAB-SPEX ext. 444 or email us at crmsales@spexcsp.com with any suggestions, questions, or comments.

■ Volatiles Mix C

9 Certified Components:

Benzene	Toluene
Bromodichloromethane	1,1,1-Trichloroethane
cis-1,3-Dichloropropene	o-Xylene
trans-1,3-Dichloropropene	m-Xylene
Ethylbenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-CH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-C

■ Volatiles Mix D

8 Certified Components:

Acetone	2-Hexanone
2-Butanone	4-Methyl-2-pentanone
Carbon disulfide	Styrene
cis-1,2-Dichloroethene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-D90H

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-D90

■ Volatiles Mix D for CLP SOW 2/88 and 3/90

9 Certified Components:

Acetone	4-Methyl-2-pentanone
2-Butanone	Styrene
Carbon disulfide	Vinyl acetate
cis-1,2-Dichloroethene	p-Xylene
2-Hexanone	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-DH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-D

■ Supplementary Volatiles Mix for CLP OLM04.1.

11 Certified Components:

tert-Butyl methyl ether (MTBE)	1,4-Dichlorobenzene
Cyclohexane	Isopropylbenzene
1,2-Dibromo-3-chloropropane	Methyl acetate
1,2-Dibromoethane	1,2,4-Trichlorobenzene
1,2-Dichlorobenzene	1,1,2-Trichlorotrifluoroethane
1,3-Dichlorobenzene	

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-041X

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-041XH

■ 2-Chloroethylvinyl Ether Stock Standard

1 Certified Component:

2-Chloroethylvinyl Ether

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-855

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: S-855-2K

■ Vinyl Acetate Stock Standards

1 Certified Component:

Vinyl Acetate

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-3800

■ Combined Stock Standard

2 Certified Components:

2-Chloroethylvinyl ether
Vinyl acetate

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CNVA

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Low-Level Volatile Calibration Standards for SOW 10/92

■ Volatile Control Sample B

1 Certified Component:

Vinyl chloride

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CS-3805-2.5K

Kits

CLPV-OLM04.1 Kit contains one each of CLPV-43CH and 5022-BH

Catalog#: CLPV-OLM041-KIT

CLP Volatiles Kit #1 contains one each of CLPV-A, CLPV-B, CLPV-D90 (all analytes present at 200 µg/mL)

Catalog#: CLPV-K1

CLP Volatiles Kit H contains one each of CLPV-AH, CLPV-BH, CLPV-CH, CLPV-D90H (all analytes present at 2,000 µg/mL)

Catalog#: CLPV-KH

CLP Volatiles Kit #2 contains one ampule each of auxiliary standards CLPV-I, CLPV-MH, CLPV-S, CLPV-T, HES-1, and HES-2

Catalog#: CLPV-K2

CLP Volatiles Kit CLPV-K-32 contains one ampule each of CLPV-32CH and CLPV-BH

Catalog#: CLPV-K-32

Internal Standard

3 Certified Components:

Bromochloromethane

1,4-Difluorobenzene

Chlorobenzene-d₅

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-IH

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-I

Volatile Surrogate Standard

(System Monitoring Compounds)

3 Certified Components:

4-Bromofluorobenzene

1,2-Dichloroethane-d₄

Toluene-d₈

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-SH

1 mL x 4 pack

Catalog#: CLPV-SH-4

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-S

Matrix Spike

5 Certified Components:

Benzene

Trichloroethene

Chlorobenzene

Toluene

1,1-Dichloroethene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: CLPV-MH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: CLPV-M

GC/MS Tuning Standard (BFB)

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-TH

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-T

Low Level Internal Standard

3 Certified Components:

Chlorobenzene-d₅

1,4-Dichlorobenzene-d₄

1,4-Difluorobenzene

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-LC-I

TCLP Volatile Standards

■ TCLP Volatiles Spike

11 Certified Components:

Benzene	1,2-Dichloroethane
2-Butanone	1,4-Dichlorobenzene
Carbon tetrachloride	Tetrachloroethene
Chlorobenzene	Trichloroethene
Chloroform	Vinyl chloride
1,1-Dichloroethylene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: TCLP-VX

■ TCLP Volatiles Spike - Alternate formulation

11 Certified Components:

Benzene	1,2-Dichloroethane
2-Butanone (4,000 µg/mL)	1,4-Dichlorobenzene
Carbon tetrachloride	Tetrachloroethene
Chlorobenzene	Trichloroethene
Chloroform	Vinyl chloride
1,1-Dichloroethylene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: TCLP-VA

■ TCLP High Concentration Volatiles Spike

11 Certified Components:

Benzene	1,2-Dichloroethane
2-Butanone (10,000 µg/mL)	1,4-Dichlorobenzene
Carbon tetrachloride	Tetrachloroethene
Chlorobenzene	Trichloroethene
Chloroform	Vinyl chloride
1,1-Dichloroethylene	

1 mL @ 5,000 µg/mL in P&T methanol

Catalog#: TCLP-VH

■ TCLP Volatiles Spike without vinyl chloride

10 Certified Components:

Benzene	1,1-Dichloroethylene
2-Butanone (10,000 µg/mL)	1,2-Dichloroethane
Carbon tetrachloride	1,4-Dichlorobenzene
Chlorobenzene	Tetrachloroethene
Chloroform	Trichloroethene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: TCLP-V

SPECIALTY VOLATILES APPLICATION STANDARDS

■ Acetaldehyde Standards

Concentration

1,000 µg/mL in water

1,000 µg/mL in water

Part Number

S-125-W

S-125-W1.8

Alternate concentrations and volumes are readily available. Please call our sales department at 1-800-LAB-SPEX to discuss your requirements.

■ Chlorofluorocarbon Refrigerant Standards

Component @ 1,000 µg/mL	Synonym	Part Number
Chlorodifluoromethane	FREON 22	S-840
2-Chloro-1,1,1-trifluoroethane	HCFC-133a	S-958
1,2-Dichloro-1,1-difluoroethane	HCFC-132b	S-1477
Dichlorodifluoromethane	FREON 12	S-1370
1,1-Dichlorofluoroethane	FREON 141b	S-1480
Dichlorofluoromethane	FREON 21	S-1405
1,2-Dichlorotetrafluoroethane	FREON 114	S-1470
2,2-Dichloro-1,1,1-trifluoroethane	FREON 123	S-1476
1,2-Dichlorotrifluoroethane	HCFC-123a	S-1479
1,1,2-Trichlorofluoroethane	—	S-3617
Trichlorofluoromethane	FREON 11	S-3620
1,1,2-Trichlorotrifluoroethane	FREON 113	S-3675

Additional CFC's may be available. Please call our sales department at 1-800-LAB-SPEX to discuss your requirements.

Did You Know?...

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THE 76 BIG MIX

The Most routinely analyzed Base Neutral and Acid compounds in ONE ampule
All compounds checked on our GC-MS Systems
Highest quality at an affordable price

Compound List Each at 1,000 µg/mL*

- 1 Pyridine
- 2 n-Nitrosodimethylamine
- 3 Phenol
- 4 Aniline
- 5 bis(2-Chloroethyl)ether
- 6 2-Chlorophenol
- 7 1,3-Dichlorobenzene
- 8 **1,4-Dichlorobenzene-d4 IS[§]**
- 9 1,4-Dichlorobenzene
- 10 Benzyl Alcohol
- 11 1,2-Dichlorobenzene
- 12 2-Methylphenol
- 13 2,2'-oxybis(1-Chloropropane)
- 14 3+4-Methylphenols*
- 15 n-Nitroso-di-n-propylamine
- 16 Hexachloroethane
- 17 Nitrobenzene
- 18 Isophorone
- 19 2-Nitrophenol
- 20 2,4-Dimethylphenol
- 21 bis(2-Chloroethoxy)methane
- 22 2,4-Dichlorophenol
- 23 1,2,4-Trichlorobenzene
- 24 **Naphthalene-d8 IS[§]**
- 25 Naphthalene
- 26 4-Chloroaniline
- 27 Hexachlorobutadiene
- 28 4-Chloro-3-methylphenol
- 29 1-Methylnaphthalene
- 30 2-Methylnaphthalene
- 31 Hexachlorocyclopentadiene
- 32 2,4,6-Trichlorophenol
- 33 2,4,5-Trichlorophenol
- 34 2-Chloronaphthalene
- 35 2-Nitroaniline
- 36 1,4-Dinitrobenzene
- 37 1,3-Dinitrobenzene
- 38 Dimethylphthalate
- 39 Acenaphthylene

- 40 2,6-Dinitrotoluene
- 41 1,2-Dinitrobenzene
- 42 3-Nitroaniline
- 43 **Acenaphthene-d10 IS[§]**
- 44 Acenaphthene
- 45 2,4-Dinitrophenol
- 46 4-Nitrophenol
- 47 Dibenzofuran
- 48 2,4-Dinitrotoluene
- 49 2,3,5,6-Tetrachlorophenol
- 50 2,3,4,6-Tetrachlorophenol
- 51 Diethylphthalate

- 52 Fluorene
- 53 4-Chlorophenyl-phenylether
- 54 4-Nitroaniline
- 55 4,6-Dinitro-2-methylphenol
- 56 n-Nitrosodiphenylamine²
- 57 Azobenzene¹
- 58 4-Bromophenyl-phenylether
- 59 Hexachlorobenzene
- 60 Pentachlorophenol
- 61 **Phenanthrene-d10 IS[§]**
- 62 Phenanthrene
- 63 Anthracene

- 64 Carbazole
- 65 Di-n-butylphthalate
- 66 Fluoranthene
- 67 Pyrene
- 68 Butylbenzylphthalate
- 69 Bis(2-ethylhexyl)adipate
- 70 Benzo(a)anthracene
- 71 **Chrysene-d12 IS[§]**
- 72 Chrysene
- 73 Bis(2-ethylhexyl)phthalate
- 74 Di-n-octyl phthalate
- 75 Benzo(b)fluoranthene

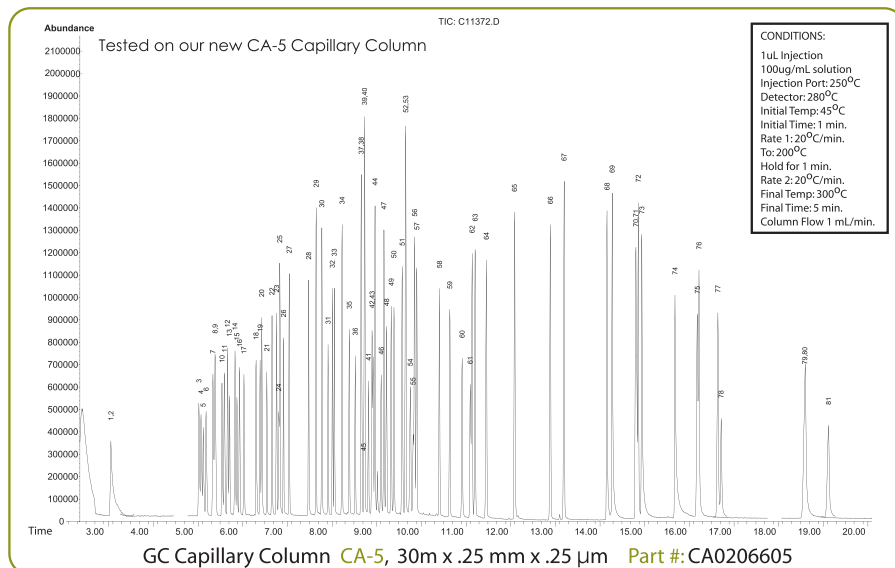
- 76 Benzo(k)fluoranthene
- 77 Benzo(a)pyrene
- 78 **Perylene-d12 IS[§]**
- 79 Indeno(1,2,3-cd)pyrene
- 80 Dibenzo(a,h)anthracene
- 81 Benzo(g,h,i)perylene

1. - 1,2-Diphenylhydrazine (8270-listed analyte) decomposes to Azobenzene (mix component)
2. - N-Nitrosodiphenylamine (8270-listed analyte) decomposes to Diphenylamine (mix component)
*3. - Methylphenol and 4-Methylphenol concentration each are 500 µg/mL
[§] - Internal standard mix CLPS-I2 sold separately

Standard

Part #: 76-BIG-MIX

1mL ampule at 1000 µg/mL
in Methylene Chloride



Used for GC/MS Analysis of Semi-Volatile Organic

To find out more information call your sales representative at 800-LAB-SPEX x444

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Semivolatiles

METHOD 506

The US EPA method 506 is an analytical method that utilizes a methylene chloride or liquid-solid extraction of drinking water, concentrated after clean-up to 1 mL in hexane, and a gas chromatograph equipped with a capillary column to perform the separation of phthalate and adipate esters. To detect the GC eluant, a photoionization detector (PID) is used.

Method 506 Analyte Mix

7 Certified Components:

Butylbenzyl phthalate	Dimethyl phthalate
Di-n-butyl phthalate	bis(2-Ethylhexyl)adipate
Di-n-octyl phthalate	bis(2-Ethylhexyl)phthalate
Diethyl phthalate	

1 mL @ 2,000 µg/mL in isooctane

Catalog#: 506-AH

METHOD 525.2

The US EPA method 525.2 is an analytical method that utilizes liquid-solid extraction of finished drinking, raw source or treatment water and capillary column gas chromatography/mass spectrometry to perform the separation and detection of the analytes.

Semivolatile Organics - Mix A

24 Certified Components:

Acenaphthylene	Dibenz(a,h)anthracene
Anthracene	Diethyl phthalate
Benzo(a)anthracene	Dimethyl phthalate
Benzo(a)pyrene	Di-n-butyl phthalate
Benzo(b)fluoranthene	Fluorene
Benzo(g,h,i)perylene	Hexachlorobenzene
Benzo(k)fluoranthene	Hexachlorocyclopentadiene
bis(2-Ethylhexyl)adipate	Indeno(1,2,3-cd)pyrene
bis(2-Ethylhexyl)phthalate	Isophorone
Butylbenzyl phthalate	Pentachlorophenol (2,000 µg/mL)
Chlorobenzilate	Phenanthrene
Chrysene	Pyrene

1 mL @ 500 µg/mL in acetone

Catalog#: 5252-A

Organochlorine Pesticides Mix A

18 Certified Components:

Aldrin	Endosulfan I
γ-BHC	Endosulfan II
α-BHC	Endosulfan sulfate
δ-BHC	Endrin
β-BHC	Endrin aldehyde
4,4'-DDD	Endrin ketone
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide
Dieldrin	Methoxychlor

1 mL @ 200 µg/mL in acetone

Catalog#: 5252-PA

Organochlorine Pesticides Mix B

15 Certified Components:

Alachlor	Dacthal (DCPA)
α-Chlordane	Etridiazole
γ-Chlordane	Hexachlorobenzene
Chlorobenzilate	trans-Nonachlor
Chloroneb	Permethrin (cis & trans)
Chlorothalonil	Propachlor
Chlorpyrifos	Trifluralin
Cyanazine	

1 mL @ 200 µg/mL in acetone

Catalog#: 5252-PB

Nitrogen-Phosphorous Pesticides Mix C

34 Certified Components:

Ametryn	EPTC	Prometon
Atraton	Ethoprop	Prometryn
Atrazine	Merphos	Pronamide
Bromacil	Metolachlor	Propazine
Butachlor	Metribuzin	Simetryn
Butylate	Methyl	Simazine
Chloropropham	Paraoxon	Terbacil
Cycloate	Mevinphos	Terbufos
Diazinon	MGK 264	Terbutryn
Dichlorovos	Molinate	Vernolate
Diphenamid	Napropamide	
Disulfoton sulfone	Pebulate	

1 mL @ 200 µg/mL in acetone

Catalog#: 5252-PC

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■ Nitrogen-Phosphorous Pesticides Mix D

9 Certified Components:

Fenamiphos	Hexazinone	Terbutiuron
Fenarimol	Norflurazon	Triademefon
Fluridone	Stirofo	Tricyclazole

1 mL @ 200 µg/mL in acetone

Catalog#: 5252-PD

■ Nitrogen-Phosphorous Pesticides Mix E

4 Certified Components:

Carboxin	Disulfoton
Merphos	Disulfoton sulfoxide

1 mL @ 200 µg/mL in acetone

Catalog#: 5252-E

■ Toxaphene

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

Method 525.2 Calibration Kit

Contains 1 mL each of the following: 5252-A, 525-PCBH, 5252-PA, 5252-PB, 5252-PC, 5252-PD, 5252-E, TOX-XH

Note – Please order individual Aroclors, surrogate, and internal standards separately.

Catalog#: 5252-K

Internal Standard

3 Certified Components:

Acenaphthene-d₁₀
Chrysene-d₁₂
Phenanthrene-d₁₀

1 mL @ 500 µg/mL in acetone

Catalog#: 5252-I

1 mL x 4 pack

Catalog#: 5252-I-4

Surrogate Standard

3 Certified Components:

1,3-Dimethyl -2-nitrobenzene
Perylene-d₁₂
Triphenylphosphate

1 mL @ 500 µg/mL in acetone

Catalog#: 5252-S

Performance Check Solution

3 Certified Components:

4,4'-DDT
DFTPP
Endrin

1 mL @ 500 µg/mL in methylene chloride

Catalog#: 5252-PCS

Fortification Solution

1 Certified Component:

Terphenyl-d₁₄

1 mL @ 500 µg/mL in methylene chloride

Catalog#: 5252-FS

METHOD 529

The US EPA method 529 is an analytic method for the measurement of explosives and other related compounds in drinking water by Solid Phase Extraction (SPE) and capillary column gas chromatography mass spectrometry (GC/MS).

■ Explosives and Related Compounds Standard

14 Certified Components:

3,5-Dinitroaniline	2-Nitrotoluene
1,3-Dinitrobenzene	3-Nitrotoluene
2-Amino-4,6-dinitrotoluene	4-Nitrotoluene
4-Amino-2,6-dinitrotoluene	RDX 100
2,4-Dinitrotoluene	Tetryl 100
2,6-Dinitrotoluene	1,3,5-Trinitrobenzene 100
Nitrobenzene	2,4,6-Trinitrotoluene 100

1 mL @ 100 µg/mL in acetonitrile

Catalog#: 529-C

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



METHOD 535

The US EPA method is an analytical method for the measurement of Chloroacetanilide and other Acetamide herbicide degradates in drinking water by Solid Phase Extraction (SPE) and liquid chromatography/tandem mass spectrometry (LC/MS/MS).

■ Chloroacetanilide and Acetamide Herbicide Degradates Standard

6 Certified Components:

Acetochlor E5A	AlachlorOA
Acetochlor OA	Metochlor E5A
Alachlor E5A	Metochlor OA

1 mL @ 500 µg/mL in methanol

Catalog#: 535-A

1 Certified Component:

Dimethachlor E5A

1 mL @ 500 µg/mL in methanol

Catalog#: 535-I

1 Certified Component:

Butachlor E5A

1 mL @ 500 µg/mL in methanol

Catalog#: 535-S

METHOD 550/550.1

The US EPA method 550 and 550.1 are analytical methods in which a sample is extracted utilizing liquid-liquid extraction, concentrated, then analyzed using an HPLC system to perform the separation and UV and fluorescence detectors to detect the analytes.

■ PAH Analyte Mix

16 Certified Components:

	µg/mL		µg/mL
Acenaphthene	1,000	Chrysene	50
Acenaphthylene	1,000	Dibenzo(a,h)anthracene	10
Anthracene	50	Fluoranthene	5
Benzo(a)anthracene	1	Fluorene	100
Benzo(a)pyrene	5	Indeno(1,2,3-cd)pyrene	10
Benzo(b)fluoranthene	1	Naphthalene	1,000
Benzo(g,h,i)perylene	5	Phenanthrene	50
Benzo(k)fluoranthene	1	Pyrene	50

1 mL in acetonitrile

Catalog#: 550-A

Internal Standard

1 Certified Component:

4,4'-Difluorobiphenyl

1 mL @ 100 µg/mL in acetonitrile

Catalog#: 550-I

METHOD 552

The US EPA method 552 utilizes an MTBE extraction and diazomethane derivatization of haloacetic acids and phenolic disinfectant by-products and a gas chromatograph equipped with a capillary column to perform the separation of methyl-haloacetates and anisoles. To detect the GC eluant, an ECD (electron capture) detector is used.

■ Free Acids

8 Certified Components:

Bromochloroacetic Acid	Monobromoacetic Acid
Dibromoacetic Acid	Monochloroacetic acid
Dichloroacetic acid	Trichloroacetic Acid
2,4-Dichlorophenol	2,4,6-Trichlorophenol

1 mL @ 200 µg/mL in methyl tert-butyl ether

Catalog#: 552-A

■ Methyl Esters

8 Certified Components:

2,4-Dichloroanisole	Methyl dibromoacetate
Methyl bromoacetate	Methyl dichloroacetate
Methyl bromochloroacetate	Methyl trichloroacetate
Methyl chloroacetate	2,4,6-Trichloroanisole

1 mL @ 200 µg/mL in methyl tert-butyl ether

Catalog#: 552-MEO

Internal Standard

1 Certified Component:

1,2,3-Trichloropropane

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-3665

Surrogates

1 Certified Component:

3,5-Dichlorobenzoic acid

1 mL @ 2,000 µg/mL in methyl tert-butyl ether

Catalog#: 552-S

1 Certified Component:

Methyl-3,5-dichlorobenzoate

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-1345-MEO

METHOD 552.1

The US EPA method 552.1 utilizes a liquid-solid extraction to determine haloacetic acids, disinfection by-products and the chlorinated herbicide, Dalapon. The sample is extracted with a miniature anion exchange column and the analytes are methylated directly in the eluent using acidic methanol instead of diazomethane. A gas chromatograph equipped with a capillary column is used to perform the separation of methyl-haloacetates and anisoles. To detect the GC eluant, an ECD (electron capture) detector is used.

Analyte Mix A

7 Certified Components:

	µg/mL		µg/mL
Bromochloroacetic acid	200	Monobromoacetic Acid	200
Dalapon	200	Monochloroacetic Acid	200
Dibromoacetic Acid	200	Trichloroacetic Acid	200
Dichloroacetic Acid	200		

1 mL in methyl tert-butyl ether

Catalog#: 5521-A

Analyte Mix AV

7 Certified Components:

	µg/mL		µg/mL
Bromochloroacetic acid	200	Monobromoacetic Acid	200
Dalapon	200	Monochloroacetic Acid	300
Dibromoacetic Acid	100	Trichloroacetic Acid	100
Dichloroacetic Acid	300		

1 mL in methyl tert-butyl ether

Catalog#: 5521-AV

Methyl Esters

7 Certified Components:

	µg/mL		µg/mL
Dalapon methyl ester	200	Methyl dibromoacetate	100
Methyl bromoacetate	200	Methyl dichloroacetate	300
Methyl bromochloroacetate	200	Methyl trichloroacetate	100
Methyl chloroacetate	300		

1 mL @ in methyl tert-butyl ether

Catalog#: 5521-MEO

Helpful Hint:

Custom standards? No problem! See page 44-45
or visit our web site to submit your request online:
www.spexcertiprep.com/customorganics.

Internal Standard

1 Certified Component:

1,2,3-Trichloropropane

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-3665

Surrogate Standard

1 Certified Component:

2-Bromopropionic acid

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-3895

Surrogate Standard Methyl Ester

1 Certified Component:

Methyl-2-bromopropionate

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-2598

METHOD 552.2

The US EPA method 552.2 utilizes an MTBE extraction and methyl ester derivatization of halogenated acetic acids and a gas chromatograph equipped with a capillary column to perform the separation of methyl-haloacetates and anisoles. The chlorinated herbicide, Dalapon, may also be determined using method 552.2. To detect the GC eluant, an ECD detector is used.

Method 552.2 Analytes as Free Acids

11 Certified Components:

	µg/mL		µg/mL
Bromochloroacetic acid	400	Dichloroacetic acid	600
Bromodichloroacetic acid	400	Monobromoacetic acid	400
Chlorodibromoacetic acid	1,000	Monochloroacetic acid	600
Dalapon	400	Tribromoacetic acid	2,000
Dibromoacetic acid	200	Trichloroacetic acid	200
2,3-Dibromopropionic acid			
(surrogate)	1,000		

1 mL in methyl tert-butyl ether

Catalog#: 5522-AS

(same as above, but without surrogate)

10 Certified Components:

1 mL in methyl tert-butyl ether

Catalog#: 5522-A

■ Methyl Esters

11 Certified Components:

	µg/mL
Dalapon methyl ester	400
Methyl monochloroacetate	600
Methyl monobromoacetate	400
Methyl bromochloroacetate	400
Methyl bromodichloroacetate	400
Methyl chlorodibromoacetate	1,000
Methyl dibromoacetate	200
Methyl 2,3-dibromopropionate (surrogate)	1,000
Methyl dichloroacetate	600
Methyl tribromoacetate	2,000
Methyl trichloroacetate	200

1 mL in methyl tert-butyl ether

Catalog#: 5522-MEOS

(same as above, but without surrogate)

10 Certified Components:

1 mL in methyl tert-butyl ether

Catalog#: 5522-MEO

Internal Standard

1 Certified Component:

1,2,3-Trichloropropane

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-3665

Surrogate Standard

1 Certified Component:

2-Bromopropionic acid

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-3895

Surrogate Standard Methyl Ester

1 Certified Component:

Methyl-2-bromopropionate

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-2598

METHOD 604

The US EPA method 604 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater samples, concentrated to 2 mL in 2-Propanol and a gas chromatograph equipped with a packed column to perform the separation of phenols. To detect the GC eluant, an FID (Flame ionization) detector is used.

■ Analytes

11 Certified Components:

4-Chloro-3-methylphenol	2-Nitrophenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,4,6-Trichlorophenol
2,4-Dinitrophenol	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-A

METHOD 605

The US EPA method 605 is an analytical method which utilizes a chloroform extraction of municipal or industrial wastewater, concentrated to 5 mL (in acetate buffer) and an HPLC equipped with a Lichrosorb RP-2 column to perform the separation of benzidines. To detect the HPLC eluant, an electrochemical detector is used.

■ Analyte Mix

2 Certified Components:

Benzidine

3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X

5 mL

Catalog#: 605-X5

METHOD 606

The US EPA method 606 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated after clean-up to 10 mL (in Hexane) and a gas chromatograph equipped with a packed column to perform the separation of phthalate esters. To detect the GC eluant, an electron capture detector (ECD) is used.

■ Analyte Mix

6 Certified Components:

Butylbenzyl phthalate	Dimethyl phthalate
Di-n-Butyl phthalate	Di-n-Octyl phthalate
Diethyl phthalate	bis(2-Ethylhexyl) phthalate

1 mL @ 2,000 µg/mL in isooctane

Catalog#: 606-XH

METHOD 607

The US EPA method 607 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated after clean-up to 2 mL (in methanol) and a gas chromatograph equipped with a packed column to perform the separation of nitrosamines. To detect the GC eluant, an NPD, N-P reductive Hall or thermal energy analyzer detector may be used.

■ Analytes

3 Certified Components:

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

1 mL @ 2,000 µg/mL in methanol

Catalog#: 8070-X

METHOD 608

see page 94

METHOD 609

The US EPA method 609 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated to 1 mL (in hexane) and a gas chromatograph equipped with a packed column to perform the separation of nitroaromatics and isophorone. To detect the GC eluant, both an FID and an ECD for the dinitrotoluenes are used.

■ Analytes

4 Certified Components:

2,4-Dinitrotoluene	Isophorone
2,6-Dinitrotoluene	Nitrobenzene

1 mL @ 2,000 µg/mL in hexane

Catalog#: 609-X

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METHOD 610

The US EPA method 610 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater samples, concentrated after clean-up to 1 mL (in methylene chloride) and a gas chromatograph equipped with a packed column or an HPLC to perform the separation of polynuclear aromatic hydrocarbons. To detect the GC eluant, an FID is used. To detect the HPLC eluant, a UV detector coupled to a Fluorescence detector is used.

■ Polynuclear Aromatic Hydrocarbons

16 Certified Components:

Acenaphthene	Chrysene
Acenaphthylene	Dibenz(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(b)fluoranthene	Indeno(1,2,3cd)pyrene
Benzo(k)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(a)pyrene	Pyrene

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-B

1 mL x 4 pack

Catalog#: CLPS-B-4

2 mL

Catalog#: CLPS-B2

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: 550-A

METHOD 611

The US EPA method 611 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated after clean-up to 10 mL (in hexane) and a gas chromatograph equipped with a packed column to perform the separation of Haloethers. To detect the GC eluant, a halide specific (Hall) or an electron capture detector (ECD) is used.

■ Analytes

5 Certified Components:

4-Bromophenyl phenyl ether	bis(2-Chloroisopropyl)ether
bis(2-Chloroethoxy)methane	4-Chlorophenyl-phenyl ether
bis(2-Chloroethyl)ether	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 611-X

METHOD 612

The US EPA method 612 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated after clean-up to 1 mL (in hexane) and a gas chromatograph equipped with a packed column to perform the separation of Chlorinated Hydrocarbons. To detect the GC eluant, an electron capture detector (ECD) is used.

■ Chlorinated Hydrocarbons Mix

9 Certified Components:

2-Chloronaphthalene	Hexachlorobutadiene
1,2-Dichlorobenzene	Hexachlorocyclopentadiene
1,3-Dichlorobenzene	Hexachloroethane
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene
Hexachlorobenzene	

1 mL @ 2,000 µg/mL in isooctane

Catalog#: 612-X

METHOD 625

The US EPA method 625 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated to 1 mL (in methylene chloride) and a gas chromatograph equipped with either a packed or capillary column to perform the separation of acid and base-neutral extractable fractions. To detect the GC eluant, a mass spectrometer detector is used.

■ "BIG-MIX" Volatile Organics Mix with 76 Certified Components

76 Certified Components:

Pyridine	2,6-Dinitrotoluene
n-Nitrosodimethylamine	1,2-Dinitrobenzene
Phenol	3-Nitroaniline
Aniline	Acenaphthene
bis(2-Chloroethyl)ether	2,4-Dinitrophenol
2-Chlorophenol	4-Nitrophenol
1,3-Dichlorobenzene	Dibenzofuran
1,4-Dichlorobenzene	2,4-Dinitrotoluene
Benzyl Alcohol	2,3,5,6-Tetrachlorophenol
1,2-Dichlorobenzene	2,3,4,6-Tetrachlorophenol
2-Methylphenol	Diethylphthalate
2,2'-oxybis(1-Chloropropane)	Fluorene
3-Methylphenols***	4-Chlorophenyl-phenylether
4-Methylphenols***	4-Nitroaniline
n-Nitroso-di-n-propylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	n-Nitrosodiphenylamine**
Nitrobenzene	Azobenzene*
Isophorone	4-Bromophenyl-phenylether
2-Nitrophenol	Hexachlorobenzene
2,4-Dimethylphenol	Pentachlorophenol
bis(2-Chloroethoxy)methane	Phenanthrene
2,4-Dichlorophenol	Anthracene
1,2,4-Trichlorobenzene	Carbazole
Naphthalene	Di-n-butylphthalate
4-Chloroaniline	Fluoranthene
Hexachlorobutadiene	Pyrene
4-Chloro-3-methylphenol	Butylbenzylphthalate
1-Methylnaphthalene	Bis(2-ethylhexyl)adipate
2-Methylnaphthalene	Benzo(a)anthracene
Hexachlorocyclopentadiene	Chrysene
2,4,6-Trichlorophenol	Bis(2-ethylhexyl)phthalate
2,4,5-Trichlorophenol	Di-n-octyl phthalate
2-Chloronaphthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
1,4-Dinitrobenzene	Benzo(a)pyrene
1,3-Dinitrobenzene	Indeno(1,2,3-cd)pyrene
Dimethylphthalate	Dibenzo(a,h)anthracene
Acenaphthylene	Benzo(g,h,i)perylene

*1,2-Diphenylhydrazine (8270-listed analyte) decomposes to Azobenzene (mix component)

**N-Nitrosodiphenylamine (8270-listed analyte) decomposes to Diphenylamine (mix component)

***3-Methylphenol and 4-Methylphenol concentration each are 500 µg/mL

1 mL @ 1,000 µg/mL in Methylene Chloride

Catalog#: 76-BIG-MIX

Helpful Hint:

Note: The 76-BIG-MIX is made with freshly distilled and preserved Methylene Chloride to assure the stability of Benzidines and Phenolics.

■ BIG-BN-2

Semivolatile Calibration Standard containing all 49 base-neutrals contained in blends: CLPS-B, CLPS-C, CLPS-D, and CLPS-G at 2,000 µg/mL

49 Certified Components:

Acenaphthene	Dimethyl phthalate
Acenaphthylene	Di-n-butyl phthalate
Anthracene	2,4-Dinitrotoluene
Benzo(a)anthracene	2,6-Dinitrotoluene
Benzo(a)pyrene	Di-n-octyl phthalate
Benzo(b)fluoranthene	Fluoranthene
Benzo(g,h,i)perylene	Fluorene
Benzo(k)fluoranthene	Hexachlorobenzene
Benzyl alcohol	Hexachlorobutadiene
bis(2-Chloroethoxy)methane	Hexachlorocyclopentadiene
bis(2-Chloroethyl)ether	Hexachloroethane
bis(2-Chloroisopropyl)ether	Indeno(1,2,3-cd)pyrene
bis(2-Ethylhexyl)phthalate	Isophorone
4-Bromophenyl phenyl ether	2-Methylnaphthalene
Butylbenzyl phthalate	Naphthalene
4-Chloroaniline	2-Nitroaniline
2-Chloronaphthalene	3-Nitroaniline
4-Chlorophenyl-phenyl ether	4-Nitroaniline
Chrysene	Nitrobenzene
Dibenz(a,h)anthracene	N-Nitroso-di-n-propylamine
Dibenzofuran	N-Nitrosodiphenylamine
1,2-Dichlorobenzene	Phenanthrene
1,3-Dichlorobenzene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene
Diethyl phthalate	

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: BIG-BN-2

5 mL

Catalog#: BIG-BN-2-5

■ Phenolics

11 Certified Components:

4-Chloro-3-methylphenol	2,4-Dinitrophenol
2-Chlorophenol	2-Nitrophenol
2,4-Dichlorophenol	4-Nitrophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	Pentachlorophenol
2,4,6-Trichlorophenol	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-A

5 mL

Catalog#: CLPS-A5

■ Polynuclear Aromatic Hydrocarbons

16 Certified Components:

Acenaphthene	Chrysene
Acenaphthylene	Dibenz(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(k)fluoranthene	Pyrene

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-B

1 mL x 4 pack

Catalog#: CLPS-B-4

2 mL

Catalog#: CLPS-B2

■ Haloethers & Phthalates

13 Certified Components:

bis(2-Chloroethoxy)methane	Di-n-butyl phthalate
bis(2-Chloroethyl)ether	Diethyl phthalate
bis(2-Chloroisopropyl)ether	Dimethyl phthalate
bis(2-Ethylhexyl)phthalate	Di-n-Octyl phthalate
4-Bromophenyl phenyl ether	N-Nitroso-di-n-propylamine
Butylbenzyl phthalate	N-Nitrosodiphenylamine
4-Chlorophenyl-phenyl ether	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-C

5 mL

Catalog#: CLPS-C5

Helpful Hint:

Take advantage of our blanket order discounts!

■ Chlorinated/Nitrated Hydrocarbons Mix

13 Certified Components:

2-Chloronaphthalene	Hexachlorobenzene
1,2-Dichlorobenzene	Hexachlorobutadiene
1,3-Dichlorobenzene	Hexachlorocyclopentadiene
1,4-Dichlorobenzene	Hexachloroethane
2,4-Dinitrotoluene	Isophorone
2,6-Dinitrotoluene	Nitrobenzene
1,2,4-Trichlorobenzene	

1 mL @ 2,000 µg/mL in methylene chloride
Catalog#: CLPS-D

■ 3,3'-Dichlorobenzidine Stock Standard

1 Certified Component:

3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol
Catalog#: 625-E

■ Additional Analytes

2 Certified Components:

Benzidine
N-Nitrosodimethylamine

1 mL @ 2,000 µg/mL in methanol
Catalog#: 625-F

■ Additional Analytes

7 Certified Components:

Benzyl alcohol	2-Nitroaniline
4-Chloroaniline	3-Nitroaniline
Dibenzofuran	4-Nitroaniline
2-Methylnaphthalene	

1 mL @ 2,000 µg/mL in methylene chloride
Catalog#: CLPS-G

■ Pesticides

18 Certified Components:

Aldrin	Endosulfan II
α-BHC	Endosulfan sulfate
β-BHC	Endrin
γ-BHC (Lindane)	Endrin aldehyde
δ-BHC	Endrin ketone
4,4'-DDD	Dieldrin
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide (Isomer B)
Endosulfan I	Methoxychlor

1 mL @ 2,000 µg/mL in benzene
Catalog#: 625-PH

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

1 mL @ 2,000 µg/mL in hexane

Catalog#: TOX-XH

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane

Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-780

1 mL @ 2,000 µg/mL in hexane

Catalog#: CDANE-XH

■ Aroclor Mix 1

Mix one contains the following Aroclors:

4 Certified Components:

Aroclor 1016	Aroclor 1232
Aroclor 1248	Aroclor 1260

1 mL @ 200 µg/mL in hexane

Catalog#: PCB-M1

■ Aroclor Mix 2

Mix two contains the following Aroclors:

3 Certified Components:

Aroclor 1221
Aroclor 1254
Aroclor 1242

1 mL @ 200 µg/mL in hexane

Catalog#: PCB-M2

Individual Aroclors

Two concentrations available: 200 µg/mL and 1,000 µg/mL at 1 mL each in hexane

Concentration	Catalog #	Certified Components:
200 µg/mL	PCB-1016	1
1,000 µg/mL	PCB-1016H	1
200 µg/mL	PCB-1221	1
1,000 µg/mL	PCB-1221H	1
200 µg/mL	PCB-1232	1
1,000 µg/mL	PCB-1232H	1
200 µg/mL	PCB-1242	1
1,000 µg/mL	PCB-1242H	1
200 µg/mL	PCB-1248	1
1,000 µg/mL	PCB-1248H	1
200 µg/mL	PCB-1254	1
1,000 µg/mL	PCB-1254H	1
200 µg/mL	PCB-1260	1
1,000 µg/mL	PCB-1260H	1
200 µg/mL	PCB-1262	1
1,000 µg/mL	PCB-1262H	1
200 µg/mL	PCB-1268	1
1,000 µg/mL	PCB-1268H	1

Method 625 Kits

625-K-3 contains one ampule each of BIG-BN-2, 625-E, 625-F, and 625-PH
Catalog#: 625-K-3

625-K-1 contains one ampule each of analyte blends CLPS-A, CLPS-B, CLPS-C, CLPS-D, 625-E, 625-F, and 625-PH
Catalog#: 625-K-1

625-K-2 contains one ampule each of analyte blends CLPS-A, CLPS-B, CLPS-C, CLPS-D, 625-E, 625-F, and 625-PH plus all nine individual PCB standards at 1,000 µg/mL and multi-component analytes, toxphene (S-3535) and chlordane (S-780).
Catalog#: 625-K-2

Base/Neutral Surrogate

3 Certified Components:

2-Fluorobiphenyl Nitrobenzene-d₅ Terphenyl-d₁₄

1 mL @ 1,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SB

5 mL

Catalog#: CLPS-SB5

1 mL @ 5,000 µg/mL in methylene chloride:acetone:benzene

Catalog#: CLPS-SBH

5 mL

Catalog#: CLPS-SBH5

1 mL x 4 pack

Catalog#: CLPS-SBH5-4

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	1,000
Nitrobenzene-d ₅	1,000
p-Terphenyl-d ₁₄	1,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SB-TI

5 mL in methylene chloride:acetone

Catalog#: CLPS-SB5-TI

High Concentration Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	5,000
Nitrobenzene-d ₅	5,000
p-Terphenyl-d ₁₄	5,000
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLPS-SBH-TI

5 mL

Catalog#: CLPS-SBH5-TI

Acid Surrogate

3 Certified Components:

2-Fluorophenol
Phenol-d₅
2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA

5 mL

Catalog#: CLPS-SA5

1 mL @ 10,000 µg/mL in methanol

Catalog#: CLPS-SAH

1 mL x 4 pack

Catalog#: CLPS-SAH-4

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methanol

Catalog#: CLPS-SA-TI

5 mL in methylene chloride: acetone

Catalog#: CLPS-SA5-TI

High Concentration Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorophenol	10,000
Phenol-d ₅	10,000
2,4,6-Tribromophenol	10,000
Methyl Orange	12,500

1 mL in methanol

Catalog#: CLPS-SAH-TI

5 mL

Catalog#: CLPS-SAH5-TI

Internal Standard

6 Certified Components:

Acenaphthene-d ₁₀	Naphthalene-d ₈
Chrysene-d ₁₂	Perylene-d ₁₂
1,4-Dichlorobenzene-d ₄	Phenanthrene-d ₁₀

1 mL @ 4,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-I

Alternate Internal Standard

6 Certified Components:

Acenaphthene-d ₁₀	Naphthalene-d ₈
Chrysene-d ₁₂	Perylene-d ₁₂
1,4-Dichlorobenzene-d ₄	Phenanthrene-d ₁₀

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-I90

1 mL x 4 pack

Catalog#: CLPS-I90-4

Acids Matrix Spike

5 Certified Components:

4-Chloro-3-Methylphenol	Pentachlorophenol
2-Chlorophenol	Phenol
4-Nitrophenol	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-MSA

5 mL

Catalog#: CLPS-MSA5

Base/Neutrals Matrix Spike

6 Certified Components:

Acenaphthene	N-Nitroso-di-n-propylamine
1,4-Dichlorobenzene	Pyrene
2,4-Dinitrotoluene	1,2,4-Trichlorobenzene

1 mL @ 1,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB

5 mL

Catalog#: CLPS-MSB5

GC/MS Tuning Standard

1 Certified Component:

Decafluorotriphenylphosphine

1 mL @ 2,500 µg/mL in methanol

Catalog#: CLPS-T

4-Component GC/MS Tuning Standard

4 Certified Components:

Benzidine	Decafluorotriphenylphosphine
4,4-DDT	Pentachlorophenol

1 mL @ 2,500 µg/mL in methanol

Catalog#: CLPS-T4

Tailing Factor Test Mix

2 Certified Components:

	µg/mL
Benzidine	500
DFTPP	250

1 mL in methylene chloride

Catalog#: 625-T

GC/MS Test Mix

2 Certified Components:

Pentachlorophenol
DFTPP

Catalog#: 625-T2

PCB Kit H

1 mL @ 1,000 µg/mL of each of the following in a kit:

PCB-1016H	PCB-1221H	PCB-1232H
PCB-1242H	PCB-1248H	
PCB-1254H	PCB-1260H	

Catalog#: PCB-KH

PCB Kit 200

1 mL @ 200 µg/mL of each of the following in a kit:

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

Catalog#: PCB-200K

Helpful Hint:

In CLPS-I the Perylene-d₁₂ may crystallize and drop from solution when stored at subzero temperatures. It can be redissolved by sonication.

METHOD 8032A

The SW-846 method 8031 is an analytical method based on the bromination of acrylamide. The product is 2,3-dibromopropionamide. A gas chromatograph equipped with an ECD is used to detect the analyte.

■ Acrylamide Stock Solution

1 Certified Component:

Acrylamide

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-177

■ Bromated Analyte

1 Certified Component:

2,3-Dibromopropionamide

1 mL @ 100 µg/mL in ethyl acetate

Catalog#: 8032A-B

Internal Standard

1 Certified Component:

Dimethyl phthalate

1 mL @ 100 µg/mL in ethyl acetate

Catalog#: 8032A-I

METHOD 8040

The SW-846 method 8040 is an analytical method that utilizes an extraction for sample prep (or direct injection) and a gas chromatograph to perform the separation of the following compounds found in a variety of sample types. To detect the GC eluant, a flame ionization detector (FID) is used. Alternatively, the method allows for PFB derivatization of the phenols and GC/ECD analysis.

■ Phenolics Mix A

11 Certified Components:

4-Chloro-3-methylphenol	2-Nitrophenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,4,6-Trichlorophenol
2,4-Dinitrophenol	

1 mL @ 2,000 µg/mL in isopropanol

Catalog#: CLPS-AI

NOTE: PFB derivatives of all analytes are available. Please call us to discuss your requirements.

■ Phenolics Mix B

7 Certified Components:

2,6-Dichlorophenol	4-Methylphenol
2-Methylphenol	2,3,4,6-Tetrachlorophenol
3-Methylphenol	2,4,5-Trichlorophenol
Dinoseb (2-sec-Butyl-4,6-dinitrophenol)	

1 mL @ 2,000 µg/mL in isopropanol

Catalog#: 8040-B

Surrogate Standard

2 Certified Components:

2-Fluorophenol
2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in isopropanol

Catalog#: 8040-S

Organic Tinted Surrogate

3 Certified Components:

	µg/mL
2-Fluorophenol	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in isopropanol

Catalog#: 8040-S-TI

METHOD 8041

SW-846 method 8041 is a method for the analysis of phenols. To detect the GC eluant, a flame ionization detector (FID) is used. Alternatively, the method allows for PFB derivatization of the phenols and separation and detection of the analytes by GC/ECD.

■ RCRA Target Analytes

21 Certified Components:

4-Chloro-3-methylphenol	3-Methylphenol
2-Chlorophenol	4-Methylphenol
2-Cyclohexyl-4,6-dinitrophenol	2-Nitrophenol
2,4-Dichlorophenol	4-Nitrophenol
2,6-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,3,4,5-Tetrachlorophenol
2,4-Dinitrophenol	2,3,4,6-Tetrachlorophenol
Dinoseb (2-sec-Butyl-4,6-dinitrophenol)	2,3,5,6-Tetrachlorophenol
2-Methylphenol	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol

1 mL @ 1,000 µg/mL in isopropanol

Catalog#: 8041-A

■ Non-RCRA Target Analytes

17 Certified Components:

2-Chloro-5-methylphenol	2,5-Dimethylphenol
4-Chloro-2-methylphenol	2,6-Dimethylphenol
3-Chlorophenol	3,4-Dimethylphenol
4-Chlorophenol	2,5-Dinitrophenol
2,3-Dichlorophenol	3-Nitrophenol
2,5-Dichlorophenol	2,3,4-Trichlorophenol
3,4-Dichlorophenol	2,3,5-Trichlorophenol
3,5-Dichlorophenol	2,3,6-Trichlorophenol
2,3-Dimethylphenol	

1 mL @ 1,000 µg/mL in isopropanol

Catalog#: 8041-X

■ QC Check Standard

21 Certified Components:

4-Chloro-3-methylphenol	3-Methylphenol
2-Chlorophenol	4-Methylphenol
2-Cyclohexyl-4,6-dinitrophenol	2-Nitrophenol
2,4-Dichlorophenol	4-Nitrophenol
2,6-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,3,4,5-Tetrachlorophenol
2,4-Dinitrophenol	2,3,4,6-Tetrachlorophenol
Dinoseb (2-sec-Butyl-4,6-dinitrophenol)	2,3,5,6-Tetrachlorophenol
2-Methylphenol	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol

1 mL @ 100 µg/mL in isopropanol

Catalog#: 8041-QCC

■ Surrogate Standard

2 Certified Components:

2-Fluorophenol
2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in isopropanol

Catalog#: 8040-S

■ Organic Tinted Surrogate

3 Certified Components:

	µg/mL
2-Fluorophenol	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in isopropanol

Catalog#: 8040-S-TI

■ Internal Standard

2 Certified Components:

2,5-Dibromotoluene
2,2',5,5'-Tetrabromobiphenyl

1 mL @ 1,000 µg/mL in isopropanol

Catalog#: 8041-I

METHOD 8060

The SW-846 method 8060 is an analytical method that utilizes an extraction or direct injection and a gas chromatograph to perform the separation of the phthalate esters in a variety of samples. To detect the GC eluant, either a flame ionization detector (FID) or an electron capture detector (ECD) is used.

■ Phthalate Esters

6 Certified Components:

bis(2-Ethylhexyl) phthalate	Dimethyl phthalate
Butylbenzyl phthalate	Diethyl phthalate
Di-n-Butyl phthalate	Di-n-Octyl phthalate

1 mL @ 2,000 µg/mL in methanol

Catalog#: 606-XH

■ QC Check Solution

6 Certified Components:

	µg/mL		µg/mL
bis(2-Ethylhexyl)phthalate	50	Diethyl phthalate	25
Butylbenzyl phthalate	10	Dimethyl phthalate	25
Di-n-Butyl phthalate	25	Di-n-Octyl phthalate	50

1 mL in acetone

Catalog#: 8060-QC

■ Internal Standard

1 Certified Component:

Benzyl benzoate

1 mL @ 5,000 µg/mL in hexane

Catalog#: 8060-I

■ Surrogate Standard

3 Certified Component:

Dibenzyl phthalate
Diphenyl isophthalate
Diphenyl phthalate

1 mL @ 500 µg/mL in hexane

Catalog#: 8060-S

Need larger quantities?

Volume discounts are available!

Call us at 1-800-LAB-SPEX for more information.

METHOD 8061

The SW-846 method 8061 is an analytical method that utilizes an extraction or direct injection and a gas chromatograph to perform the separation of the following compounds. To detect the GC eluant, an electron capture detector (ECD) is used. As an alternate, GC/MS can be used for separation and quantitation.

Internal Standard

1 Certified Component:

Benzyl benzoate

1 mL @ 5,000 µg/mL in hexane

Catalog#: 8060-I

Surrogate Standard

3 Certified Components:

Diphenyl phthalate

Diphenyl isophthalate

Dibenzyl phthalate

1 mL @ 500 µg/mL in hexane

Catalog#: 8060-S

METHOD 8070

The SW-846 method 8070 is a method for the analysis of nitrosamines. A gas chromatograph is used to separate the compounds. To detect the GC eluant, an NPD, N-P reductive Hall, or thermal energy analyzer detector may be used.

■ Nitrosamines

3 Certified Components:

N-Nitrosodimethylamine

N-Nitrosodi-n-propylamine

N-Nitrosodiphenylamine

1 mL @ 2,000 µg/mL in methanol

Catalog#: 8070-X

METHOD 8080

see page 100

METHOD 8090

The SW-846 method 8090 is a method for the analysis of nitroaromatics and isophorone. A gas chromatograph is used to perform the separation of compounds and to detect the GC eluant, both a flame ionization detector (FID) and an ECD are used.

■ Nitroaromatics and Isophorone

4 Certified Components:

2,4-Dinitrotoluene

2,6-Dinitrotoluene

Isophorone

Nitrobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8090-X

METHOD 8091

The SW-846 method 8091 is a method for the analysis of nitroaromatics and cyclic ketones. A gas chromatograph is used to perform the separation of compounds and to detect the GC eluant, either a nitrogen-phosphorous detector (NPD) or an electron capture detector (ECD) is used.

■ RCRA Analyte Mix

6 Certified Components:

1,4-Dichlorobenzene

2,4-Dinitrotoluene

2,6-Dinitrotoluene

1,4-Naphthoquinone

Nitrobenzene

Pentachloronitrobenzene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 8091-A

■ Additional Non-RCRA Chloronitroaromatics

1-Chloro-2,4-dinitrobenzene

1-Chloro-3,4-dinitrobenzene

1-Chloro-2-nitrobenzene

2-Chloro-6-nitrotoluene

4-Chloro-2-nitrotoluene

4-Chloro-3-nitrotoluene

2,3-Dichloronitrobenzene

2,4-Dichloronitrobenzene

3,5-Dichloronitrobenzene

3,4-Dichloronitrobenzene

2,5-Dichloronitrobenzene

2,3,4,5-Tetrachloronitrobenzene

2,3,5,6-Tetrachloronitrobenzene

1,2,3-Trichloro-4-nitrobenzene

1,2,4-Trichloro-5-nitrobenzene

2,4,6-Trichloronitrobenzene

Standards containing the chloronitroaromatics are made to order. Please call our sales department (1-800-LAB-SPEX) to discuss your particular requirements.

■ Additional non-RCRA Analytes

Benefin	2-Nitrotoluene
Butralin	3-Nitrotoluene
Dinitramine	4-Nitrotoluene
1,2-Dinitrobenzene	Penoxalin
1,3-Dinitrobenzene	Profluralin
Isopropalin	Trifluralin
1,2-Naphthoquinone	

Standards containing the additional method 8091 non-RCRA analytes are made to order. Please call our sales department 1-800-LAB-SPEX to discuss your particular requirements.

Internal Standard

1 Certified Component:

Hexachlorobenzene

1 mL @ 1,000 µg/mL in isooctane

Catalog#: 8091-I

Surrogate Standard

1 Certified Component:

1-Chloro-3-nitrobenzene

1 mL @ 1,000 µg/mL in isooctane

Catalog#: 8091-S

METHOD 8100

The SW-846 method 8100 is a method for the analysis of polynuclear aromatic hydrocarbons. A gas chromatograph is used to perform the separation of compounds with a flame ionization detector (FID) to detect the eluent. Alternative methods for the determination of polynuclear aromatic hydrocarbons include GC/MS method 8270 (see page 146) or HPLC method 8310 (see page 153).

■ Polynuclear Aromatic Hydrocarbons Mix A

16 Certified Components:

Acenaphthene	Chrysene
Acenaphthylene	Dibenz(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(b)fluoranthene	Indeno(1,2,3-cd)pyrene
Benzo(k)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(a)pyrene	Pyrene

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-B

1 mL x 4 pack

Catalog#: CLPS-B-4

■ Polynuclear Aromatic Hydrocarbons Mix B

8 Certified Components:

Benzo(j)fluoranthene	Dibenzo(a,e)pyrene
Dibenz(a,h)acridine	Dibenzo(a,h)pyrene
Dibenz(a,j)acridine	Dibenzo(a,i)pyrene
7H-Dibenzo(c,g)carbazole	3-Methylcholanthrene

1 mL @ 1,000 µg/mL in methylene chloride:benzene

Catalog#: 8100-B

Surrogate Standard

2 Certified Components:

2-Fluorobiphenyl
1-Fluoronaphthalene

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8100-S

METHOD 8110

The SW-846 method 8110 is a method for the analysis of haloethers. An extraction or direct injection may be used for sample preparation. Separation and quantitation of the compounds is performed by GC/ECD.

■ Haloether Mix

5 Certified Components:

4-Bromophenyl phenyl ether	bis(2-Chloroisopropyl)ether
bis(2-Chloroethoxy)methane	4-Chlorophenyl-phenyl ether
bis(2-Chloroethyl)ether	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 611-X

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



METHOD 8111

SW-846 method 8111 is a method for the analysis of haloethers. An extraction or direct injection may be used for sample preparation. A gas chromatograph is used to perform the separation of compounds, and to detect the GC eluant, an electron capture detector (ECD) is used.

RCRA Haloether Mix

4 Certified Components:

bis(2-Chloroethoxy)methane	bis(2-Chloroisopropyl)ether
bis(2-Chloroethyl)ether	4-Chlorophenyl-phenyl ether

1 mL @ 2,000 µg/mL in methanol

Catalog#: 8111-X

Internal Standard

1 Certified Component:

4,4'-Dibromobiphenyl

1 mL @ 1,000 µg/mL

Catalog#: S-1228

Surrogate Standard

2 Certified Components:

2,4-Dichlorodiphenyl ether
2,3,4-Trichlorodiphenyl ether

1 mL @ 1,000 µg/mL

Catalog#: 8111-S

METHODS 8120/8120A/8121

Method 8120/8120A Chlorinated Hydrocarbons

9 Certified Components:

2-Chloronaphthalene	Hexachlorobutadiene
1,2-Dichlorobenzene	Hexachlorocyclopentadiene
1,3-Dichlorobenzene	Hexachloroethane
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene
Hexachlorobenzene	

1 mL @ 2,000 µg/mL in isooctane

Catalog#: 612-X

Helpful Hint:

The most comprehensive listings of Surrogates, Internal Standards, and Matrix Spiking Solutions are located on pages 124-131.

Method 8121 Chlorinated Hydrocarbons QC Mix

22 Certified Components:

Benzal chloride	Hexachlorobenzene
Benzotrichloride	Hexachlorobutadiene
Benzyl chloride	Hexachlorocyclopentadiene
α-BHC	Hexachloroethane
β-BHC	Pentachlorobenzene
γ-BHC	1,2,3,4-Tetrachlorobenzene
δ-BHC	1,2,3,5-Tetrachlorobenzene
2-Chloronaphthalene	1,2,4,5-Tetrachlorobenzene
1,2-Dichlorobenzene	1,2,3-Trichlorobenzene
1,3-Dichlorobenzene	1,2,4-Trichlorobenzene
1,4-Dichlorobenzene	1,3,5-Trichlorobenzene

1 mL @ 1,000 µg/mL in hexane:toluene

Catalog#: 8121-A

3-Component Internal Standard

3 Certified Components:

2,5-Dibromotoluene
α,α-Dibromo-m-xylene
1,3,5-Tribromobenzene

1 mL @ 500 µg/mL in acetone

Catalog#: 8121-I

Single-Component Internal Standard

1 Certified Component:

1,3,5-Tribromobenzene

1 mL @ 1,000 µg/mL in acetone

Catalog#: S-3552

Surrogate Standard

3 Certified Components:

α,2,6-Trichlorotoluene
2,3,4,5,6-Pentachlorotoluene
1,4-Dichloronaphthalene

1 mL @ 1,000 µg/mL in acetone

Catalog#: 8121-S

METHOD 8270C AND APPENDIX IX ANALYTES

The US EPA SW-846 methods contain detailed operating procedures to be followed by laboratories analyzing solid and liquid matrices. Many state and federal agencies look to these methods for guidance in terms of analytical parameters. Method 8270 is an analytical method which utilizes a methylene chloride extraction of aqueous sample or methylene chloride:acetone extraction of solid sample, and a gas chromatograph equipped with a capillary column to

perform the separation of the compounds. To detect the GC eluant, an MS detector is used.

■ “BIG-MIX” Volatile Organics Mix with 76 Certified Components

76 Certified Components:

Pyridine	2,6-Dinitrotoluene
n-Nitrosodimethylamine	1,2-Dinitrobenzene
Phenol	3-Nitroaniline
Aniline	Acenaphthene
bis(2-Chloroethyl)ether	2,4-Dinitrophenol
2-Chlorophenol	4-Nitrophenol
1,3-Dichlorobenzene	Dibenzofuran
1,4-Dichlorobenzene	2,4-Dinitrotoluene
Benzyl Alcohol	2,3,5,6-Tetrachlorophenol
1,2-Dichlorobenzene	2,3,4,6-Tetrachlorophenol
2-Methylphenol	Diethylphthalate
2,2'-oxybis(1-Chloropropane)	Fluorene
3-Methylphenols***	4-Chlorophenyl-phenylether
4-Methylphenols***	4-Nitroaniline
n-Nitroso-di-n-propylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	n-Nitrosodiphenylamine**
Nitrobenzene	Azobenzene*
Isophorone	4-Bromophenyl-phenylether
2-Nitrophenol	Hexachlorobenzene
2,4-Dimethylphenol	Pentachlorophenol
bis(2-Chloroethoxy)methane	Phenanthrene
2,4-Dichlorophenol	Anthracene
1,2,4-Trichlorobenzene	Carbazole
Naphthalene	Di-n-butylphthalate
4-Chloroaniline	Fluoranthene
Hexachlorobutadiene	Pyrene
4-Chloro-3-methylphenol	Butylbenzylphthalate
1-Methylnaphthalene	Bis(2-ethylhexyl)adipate
2-Methylnaphthalene	Benzo(a)anthracene
Hexachlorocyclopentadiene	Chrysene
2,4,6-Trichlorophenol	Bis(2-ethylhexyl)phthalate
2,4,5-Trichlorophenol	Di-n-octyl phthalate
2-Chloronaphthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
1,4-Dinitrobenzene	Benzo(a)pyrene
1,3-Dinitrobenzene	Indeno(1,2,3-cd)pyrene
Dimethylphthalate	Dibenzo(a,h)anthracene
Acenaphthylene	Benzo(g,h,i)perylene

*1,2-Diphenylhydrazine (8270-listed analyte) decomposes to Azobenzene (mix component)

**N-Nitrosodiphenylamine (8270-listed analyte) decomposes to Diphenylamine (mix component)

***3-Methylphenol and 4-Methylphenol concentration each are 500 µg/mL

1 mL @ 1,000 µg/mL in Methylene Chloride

Catalog#: 76-BIG-MIX

Method 8270C “Short List” Original formulations

■ BIG-BN-2

Semivolatile Calibration Standard containing all 49 base-neutrals contained in blends: CLPS-B, CLPS-C, CLPS-D, and CLPS-G at 2,000 µg/mL

49 Certified Components:

Acenaphthene	Dimethyl phthalate
Acenaphthylene	Di-n-butyl phthalate
Anthracene	2,4-Dinitrotoluene
Benzo(a)anthracene	2,6-Dinitrotoluene
Benzo(a)pyrene	Di-n-octyl phthalate
Benzo(b)fluoranthene	Fluoranthene
Benzo(g,h,i)perylene	Fluorene
Benzo(k)fluoranthene	Hexachlorobenzene
Benzyl alcohol	Hexachlorobutadiene
bis(2-Chloroethoxy)methane	Hexachlorocyclopentadiene
bis(2-Chloroethyl)ether	Hexachloroethane
bis(2-Chloroisopropyl)ether	Indeno(1,2,3-cd)pyrene
bis(2-Ethylhexyl)phthalate	Isophorone
4-Bromophenyl phenyl ether	2-Methylnaphthalene
Butylbenzyl phthalate	Naphthalene
4-Chloroaniline	2-Nitroaniline
2-Chloronaphthalene	3-Nitroaniline
4-Chlorophenyl-phenyl ether	4-Nitroaniline
Chrysene	Nitrobenzene
Dibenz(a,h)anthracene	N-Nitroso-di-n-propylamine
Dibenzofuran	N-Nitrosodiphenylamine
1,2-Dichlorobenzene	Phenanthrene
1,3-Dichlorobenzene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene
Diethyl phthalate	

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: BIG-BN-2

5 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: BIG-BN-2-5

Helpful Hint:

Customize your solutions! Tell us what you want...

Specify compounds, concentrations, and matrix.

Visit our web site to submit your request online:

www.spexcertiprep.com/customorganics.

■ HICAL-ACIDS

15 Certified Components:

Benzoic acid	4-Methylphenol (p-Cresol)
4-Chloro-3-methylphenol	Phenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	2-Nitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4,6-Dinitro-2-methylphenol	2,4,5-Trichlorophenol
2,4-Dinitrophenol	2,4,6-Trichlorophenol
2-Methylphenol (o-Cresol)	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: HICAL-ACIDS

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: HICAL-ACIDS-5

■ Benzidines Mix

2 Certified Components:

Benzidine
3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X

5 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X5

■ Balance Mix - Option A

6 Certified Components:

Aniline	3-Methylphenol (m-Cresol)
Azobenzene	N-Nitrosodimethylamine
Carbazole	Pyridine

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-X

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-X5

■ Balance Mix - Option B

5 Certified Components:

Aniline	N-Nitrosodimethylamine
Azobenzene	Pyridine
Carbazole	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-XNC

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-XNC5

■ Balance Mix - Option C

4 Certified Components:

Aniline
Azobenzene
Carbazole
N-Nitrosodimethylamine

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-X

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-X5

Method 8270 "Short List" Kits

BIG-BN-KIT-A includes 1 mL each of BIG-BN-2, HICAL-ACIDS, 605-X, plus balance mix SV-X. BIG-BN-KIT-5 includes 5 mL of each.

Catalog #: BIG-BN-KIT-A

Catalog #: BIG-BN-KIT-5

BIG-BN-KIT-B includes 1 mL each of BIG-BN-2, HICAL-ACIDS, 605-X, plus balance mix SV-XNC.

Catalog #: BIG-BN-KIT-B

BIG-BN-KIT-C includes 1 mL each of BIG-BN-2, HICAL-ACIDS, 605-X, plus balance mix 8270-X.

Catalog #: BIG-BN-KIT-C

8270-SLK contains one ampule each of specific analyte blend, CLPS-A, CLPS-B, CLPS-C, CLPS-D, 605-X, CLPS-F, and CLPS-G.

Catalog#: 8270-SLK

Need larger quantities?

Volume discounts are available!

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Method 8270 Appendix IX “Long List” Kit

8270-LLK contains one ampule each of 8270-IXA, 8270-IXB, 8270-IXC, 8270-IXD, 8270-IXE, 8270-IXF, 8270-IXG, 8270-IXH, 8270-I, 8270-IXJ, and 625-PH.

Catalog#: 8270-LLK

**SW 846 Method 8270 “Short List”
Specific Analyte Mix****■ Phenolics Mix****11 Certified Components:**

4-Chloro-3-methylphenol	2-Nitrophenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,4,6-Trichlorophenol
2,4-Dinitrophenol	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-A

■ Polynuclear Aromatic Hydrocarbons**16 Certified Components:**

Acenaphthene	Chrysene
Acenaphthylene	Phenanthrene
Anthracene	Dibenz(a,h)anthracene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Pyrene
Benzo(k)fluoranthene	Phenanthrene

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-B

1 mL x 4 pack

Catalog#: CLPS-B-4

■ Haloethers & Phthalates**13 Certified Components:**

bis(2-Chloroethoxy)methane	Di-n-butyl phthalate
bis(2-Chloroethyl)ether	Diethyl phthalate
bis(2-Chloroisopropyl)ether	Dimethyl phthalate
bis(2-Ethylhexyl)phthalate	Di-n-Octyl phthalate
4-Bromophenyl phenyl ether	N-Nitroso-di-n-propylamine
Butylbenzyl phthalate	N-Nitrosodiphenylamine
4-Chlorophenyl-phenyl ether	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-C

■ Chlorinated/Nitrated Hydrocarbons Mix**13 Certified Components:**

2-Chloronaphthalene	Hexachlorobutadiene
1,2-Dichlorobenzene	Hexachlorocyclopentadiene
1,3-Dichlorobenzene	Hexachloroethane
1,4-Dichlorobenzene	Isophorone
2,4-Dinitrotoluene	Nitrobenzene
2,6-Dinitrotoluene	1,2,4-Trichlorobenzene
Hexachlorobenzene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-D

■ Benzidines Mix**2 Certified Components:**

Benzidine
3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X

5 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X5

■ Mix F**4 Certified Components:**

Benzoic acid	4-Methylphenol (p-cresol)
2-Methylphenol (o-cresol)	2,4,5-Trichlorophenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-F

■ CLP Mix G**7 Certified Components:**

Benzyl alcohol	2-Nitroaniline
4-Chloroaniline	3-Nitroaniline
Dibenzofuran	4-Nitroaniline
2-Methylnaphthalene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-G

Method 8270 “Long List” Appendix IX Compounds

■ Appendix IX Mix A

33 Certified Components:

2-Acetyl aminofluorene	N-Nitrosodiethylamine
4-Aminobiphenyl	N-Nitrosodimethylamine
Aniline	N-Nitroso-di-n-butylamine
1-Chloronaphthalene	N-Nitrosomethylethylamine
Dibenz(a,j)acridine	N-Nitrosomorpholine
p-Dimethylaminoazobenzene	N-Nitrosopiperidine
7,12-Dimethylbenzanthracene	N-Nitrosopyrrolidine
3,3'-Dimethylbenzidine	5-Nitro-o-toluidine
m-Dinitrobenzene	2-Picoline
p-Dinitrobenzene	Pentachloronitrobenzene
Diphenylamine	Phenacetin
Ethyl methanesulfonate	p-Phenylenediamine
3-Methylcholanthrene	Pronamide
Methyl methanesulfonate	Pyridine
1-Naphthylamine	Thionazin
2-Naphthylamine	o-Toluidine
4-Nitroquinoline-1-oxide	

1 mL @ 2,000 µg/mL in methylene chloride:acetone:benzene
CATALOG#: 8270-IXA

■ Appendix IX Mix B

4 Certified Components:

2,6-Dichlorophenol	3-Methylphenol(m-cresol)
Dinoseb	2,3,4,6-Tetrachlorophenol

1 mL @ 2,000 µg/mL in methylene chloride:acetone:benzene
Catalog#: 8270-IXB

■ Appendix IX Mix C

22 Certified Components:

Acetophenone	Methapyrilene
Azobenzene	Methyl parathion
Chlorobenzilate	1,4-Naphthoquinone
Diallate	Parathion
Dimethoate	Pentachlorobenzene
Disulfoton	Pentachloroethane
Famphur	Phorate
Hexachlorophene	Safrole
Hexachloropropene	Sulfotep
Isodrin	1,2,4,5-Tetrachlorobenzene
Isosafrole	o,o,o-Triethylphosphorothioate

1 mL @ 2,000 µg/mL in methylene chloride:acetone:benzene
Catalog#: 8270-IXC

■ Appendix IX Mix D

1 Certified Component:

Kepone

1 mL @ 2,000 µg/mL in methanol
Catalog#: 8270-IXD

■ Appendix IX Mix E

1 Certified Component:

1,3,5-Trinitrobenzene

1 mL @ 2,000 µg/mL in water
Catalog#: 8270-IXE

■ Appendix IX Base/Neutrals Mix F

22 Certified Components:

2-Aminoanthraquinone	Dihydrosafrole
4-Aminoazobenzene	N,N-Dimethylaniline
3-Amino-9-ethylcarbazole	5,5-Diphenylhydantoin
o-Anisidine	1,2-Diphenylhydrazine
p-Benzoquinone	Hydroquinone
2-Chloroaniline	Nicotine
5-Chloro-2-methylaniline	5-Nitroacenaphthene
3-(Chloromethyl) pyridine	5-Nitro-o-anisidine
hydrochloride (3-picolyl	(2-methoxy-5-nitroaniline)
chloride hydrochloride)	4-Nitrobiphenyl
p-Cresidine	4,4'-Oxydianiline
Dibenz (a,e) pyrene	2,4,5-Trimethyl aniline
Diethylstilbestrol	

1 mL @ 2,000 µg/mL in methylene chloride:benzene
Catalog#: 8270-IXF

■ Appendix IX Analyte Mix G

11 Certified Components:

4-Chloro-1,2-phenylenediamine	Maleic anhydride
4-Chloro-1,3-phenylenediamine	Phthalic anhydride
2,4-Diaminotoluene	Resorcinol
1,2-Dibromo-3-chloropropane	Strychnine
1,2-Dinitrobenzene	Thiophenol
Ethyl carbamate (Urethane)	

1 mL @ 2,000 µg/mL in methylene chloride:benzene
Catalog#: 8270-IXG

■ Additional Appendix IX Analytes

10 Certified Components:

1-Actyl-2-thiourea	Trimethylphosphate
Diethyl sulfate	tris-(2,3-Dibromopropyl)
Hexamethylphosphoramide	phosphate
Propylthiouracil	Tri-p-toly phosphate
Tetraethyl dithiopyrophosphate	Toluene diisocyanate
Tetraethyl pyrophosphate (TEPP)	

1 mL @ 2,000 µg/mL in methylene chloride:benzene
Catalog#: 8270-IXH

■ Organochlorine Pesticides

18 Certified Components:

Aldrin	Endosulfan II
α -BHC	Endosulfan sulfate
β -BHC	Endrin
γ -BHC (Lindane)	Endrin aldehyde
δ -BHC	Endrin ketone
4,4'-DDD	Dieldrin
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide (Isomer B)
Endosulfan I	Methoxychlor

1 mL @ 2,000 μ g/mL in benzene

Catalog#: 625-PH

■ Additional Appendix IX Organochlorine Pesticides

15 Certified Components:

Anilazine	Fluchloralin
Barban	Leptophos
Bromoxynil	Mirex
Carbophenothion	Naled
Chlorfenvinphos	Nitrofen
Diclonc	Tetrachlorvinphos
Dichlorovos	Trifluralin
Dinocap	

1 mL @ 2,000 μ g/mL in acetone

Catalog#: 8270-IXI

■ Appendix IX Organophosphorous/ Nitrogen Pesticides and Herbicides

24 Certified Components:

Azinphos methyl	Fenthion
Captafol	Malathion
Captan	Mevinphos
Carbaryl	Mexacarbate
Carbofuran	Monocrotophos
Coumaphos	Octamethyl pyrophosphoramidate (OMPA, Schraden)
Crotoxyphos	Phosalone
Demeton-(O+S)	Phosmet
Dicrotophos	Phosphamidon
Dioxathion	Sulfallate
EPN	Terbufos
Ethion	
Fensulfothion	

1 mL @ 2,000 μ g/mL in acetone

Catalog#: 8270-IXJ

METHOD 8270C ALTERNATIVE ANALYTE FORMULATIONS

SW 846 Method 8270C "Short List"

■ Haloethers & Phthalates

11 Certified Components:

bis(2-Chloroethoxy)methane	4-Chlorophenyl-phenyl ether
bis(2-Chloroethyl)ether	Di-n-butyl phthalate
bis(2-Chloroisopropyl)ether	Diethyl phthalate
bis(2-Ethylhexyl)phthalate	Dimethyl phthalate
4-Bromophenyl phenyl ether	Di-n-Octyl phthalate
Butylbenzyl phthalate	

1 mL @ 2,000 μ g/mL in methylene chloride

Catalog#: 8270-AF-A

■ Chlorinated Hydrocarbons

13 Certified Components:

2-Chloronaphthalene	Hexachloroethane
1,2-Dichlorobenzene	Hexachloropropane
1,3-Dichlorobenzene	Pentachlorobenzene
1,4-Dichlorobenzene	Pentachloroethane
Hexachlorobenzene	1,2,4,5-Tetrachlorobenzene
Hexachlorobutadiene	1,2,4-Trichlorobenzene
Hexachlorocyclopentadiene	

1 mL @ 2,000 μ g/mL in methylene chloride

Catalog#: 8270-AF-B

■ Nitrosamines

9 Certified Components:

N-Nitroso-di-n-butylamine	N-Nitrosomethylethylamine
N-Nitrosodiethylamine	N-Nitrosomorpholine
N-Nitrosodimethylamine	N-Nitrosopiperidine
N-Nitrosodiphenylamine	N-Nitrosopyrrolidine
N-Nitrosodi-n-propylamine	

1 mL @ 2,000 μ g/mL in methylene chloride

Catalog#: 8270-AF-C

■ Base-Neutrals Mix #2

12 Certified Components:

Acetophenone	Isosafrole
1,3-Dinitrobenzene	Methyl methanesulfonate
2,4-Dinitrotoluene	1,4-Naphthoquinone
2,6-Dinitrotoluene	Nitrobenzene
Ethyl methanesulfonate	Pentachloronitrobenzene
Isophorone	1,3,5-Trinitrobenzene

1 mL @ 2,000 μ g/mL in methylene chloride

Catalog#: 8270-AF-E

■ Phenols

8 Certified Components:

o-Cresol	Dinoseb
m-Cresol	Hexachlorophene
p-Cresol	2,3,4,6-Tetrachlorophenol
2,6-Dichlorophenol	2,4,5-Trichlorophenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-AF-H

■ Toxic Substances Mix

8 Certified Components:

Aniline	2-Methylnaphthalene
Benzyl alcohol	2-Nitroaniline
4-Chloroaniline	3-Nitroaniline
Dibenzofuran	4-Nitroaniline

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-TSM

■ Phenols

11 Certified Components:

4-Chloro-3-methylphenol	2-Nitrophenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,4,6-Trichlorophenol
2,4-Dinitrophenol	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-AF-L

■ Polynuclear Aromatic Hydrocarbons

16 Certified Components:

Acenaphthene	Chrysene
Acenaphthylene	Dibenzo(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(k)fluoranthene	Pyrene

1 mL @ 2,000 µg/mL in 1:1 methylene chloride:benzene

Catalog#: 8270-AF-M

■ Alternative Formulation Kit “Short List” 8270-AF-SLK

Contains one ampule each of 8270-AF-A, 8270-AF-B, 8270-AF-C, 8270-AF-E, 8270-AF-H, 8270-AF-I, 8270-AF-L, 8270-AF-M, and 8270-AF-TSM.

Catalog#: 8270-AF-SLK

“Long List” Appendix IX Compounds - Alternative Formulations

■ Base-Neutrals Mix #1

13 Certified Components:

2-Acetylaminofluorene	1-Naphthylamine
4-Aminobiphenyl	2-Naphthylamine
3,3'-Dichlorobenzidine	5-Nitro-o-toluidine
4-Dimethylaminoazobenzene	Phenacetin
3,3'-Dimethylbenzidine	p-Phenylenediamine
a,a-Dimethylphenethylamine	o-Toluidine
Diphenylamine	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-AF-D

■ Polynuclear Aromatic Hydrocarbons

2 Certified Components:

7,12-Dimethylbenz[a]anthracene
3-Methylcholanthrene

1 mL @ 2,000 µg/mL in 1:1 methylene chloride:benzene

Catalog#: 8270-AF-F

■ Pyridines

4 Certified Components:

Methapyrilene	2-Picoline
4-Nitroquinoline-1-oxide	Pyridine

1 mL @ 2,000 µg/mL in acetone

Catalog#: 8270-G

■ Organophosphorous Pesticides

9 Certified Components:

Dimethoate	o,o,o-Triethyl-phosphorothionate
Disulfoton	Methyl parathion
Famfur	Parathion
Thionazin	Phorate
Sulfotep	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-AF-I

Helpful Hint:

Custom packaging available. Visit our web site or call
1-800-LAB-SPEX ext. 444 for details.

■ Organochlorine Pesticides

17 Certified Components:

Aldrin	Endosulfan I
α -BHC	Endosulfan II
β -BHC	Endosulfan sulfate
γ -BHC (Lindane)	Endrin
δ -BHC	Endrin aldehyde
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide
4,4'-DDT	Methoxychlor
Dieldrin	

1 mL @ 2,000 $\mu\text{g/mL}$ in acetone

Catalog#: 8270-N

■ Additional Appendix IX Pesticides

6 Certified Components:

Aramite	Isodrin
Chlorobenzilate	Kepone
Di-allate	Pronamide

1 mL @ 2,000 $\mu\text{g/mL}$ in methylene chloride

Catalog#: 8270-AF-J

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 $\mu\text{g/mL}$ in hexane

Catalog#: TOX-X

1 mL @ 1,000 $\mu\text{g/mL}$ in hexane

Catalog#: S-3535

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 $\mu\text{g/mL}$ in hexane

Catalog#: CDANE-X

1 mL @ 1,000 $\mu\text{g/mL}$ in hexane

Catalog#: S-780

■ Decachlorobiphenyl Stock Standard

1 Certified Component:

Decachlorobiphenyl

1 mL @ 5,000 $\mu\text{g/mL}$ in toluene

Catalog#: DCBP-XH

Organic Tinted Surrogate

2 Certified Components:

	$\mu\text{g/mL}$
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in toluene

Catalog#: DCBP-XH-TI

■ Aroclor Mix 1

Mix one contains the following Aroclors:

4 Certified Components:

Aroclor 1016	Aroclor 1232
Aroclor 1248	Aroclor 1260

1 mL @ 200 $\mu\text{g/mL}$ in hexane

Catalog#: PCB-M1

■ Aroclor Mix 2

Mix two contains the following Aroclors:

3 Certified Components:

Aroclor 1221
Aroclor 1254
Aroclor 1242

1 mL @ 200 $\mu\text{g/mL}$ in hexane

Catalog#: PCB-M2

■ Individual Aroclors

Two concentrations available: 200 $\mu\text{g/mL}$ and 1,000 $\mu\text{g/mL}$ at 1 mL each in hexane.

Conc. $\mu\text{g/mL}$	Catalog #	Certified Components:
200 $\mu\text{g/mL}$	PCB-1016	1
1,000 $\mu\text{g/mL}$	PCB-1016H	1
200 $\mu\text{g/mL}$	PCB-1221	1
1,000 $\mu\text{g/mL}$	PCB-1221H	1
200 $\mu\text{g/mL}$	PCB-1232	1
1,000 $\mu\text{g/mL}$	PCB-1232H	1
200 $\mu\text{g/mL}$	PCB-1242	1
1,000 $\mu\text{g/mL}$	PCB-1242H	1
200 $\mu\text{g/mL}$	PCB-1248	1
1,000 $\mu\text{g/mL}$	PCB-1248H	1
200 $\mu\text{g/mL}$	PCB-1254	1
1,000 $\mu\text{g/mL}$	PCB-1254H	1
200 $\mu\text{g/mL}$	PCB-1260	1
1,000 $\mu\text{g/mL}$	PCB-1260H	1
200 $\mu\text{g/mL}$	PCB-1262	1
1,000 $\mu\text{g/mL}$	PCB-1262H	1
200 $\mu\text{g/mL}$	PCB-1268	1
1,000 $\mu\text{g/mL}$	PCB-1268H	1

Alternative Formulation - (Appendix IX Kit) 8270-AF-LLK

Contains one ampule each of 8270-AF-D, 8270-AF-F, 8270-G, 8270-AF-I, 8270-AF-J, and 8270-N.

Catalog#: 8270-AF-LLK

Base/Neutral Surrogate

3 Certified Components:

2-Fluorobiphenyl

Nitrobenzene-d₅

Terphenyl-d₁₄

1 mL @ 1,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SB

5 mL @ 1,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SB5

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	1,000
Nitrobenzene-d ₅	1,000
p-Terphenyl-d ₁₄	1,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SB-TI

5 mL in methylene chloride:acetone

Catalog#: CLPS-SB5-TI

Helpful Hint:

High levels for each group also available, see pages 77-78 for details.

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Acid Surrogate

3 Certified Components:

2-Fluorophenol

Phenol-d₅

2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA5

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methanol

Catalog#: CLPS-SA-TI

5 mL in methylene chloride:acetone

Catalog#: CLPS-SA5-TI

Internal Standard

6 Certified Components:

Acenaphthene-d ₁₀	Naphthalene-d ₈
Chrysene-d ₁₂	Perylene-d ₁₂
1,4-Dichlorobenzene-d ₄	Phenanthrene-d ₁₀

1 mL @ 4,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-I

1 mL x 4 pack

Catalog#: CLPS-I-4

2 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-I2

Acids Matrix Spike

5 Certified Components:

4-Chloro-3-Methylphenol
2-Chlorophenol
4-Nitrophenol
Pentachlorophenol
Phenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-MSA

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-MSA5

Base/Neutrals Matrix Spike

6 Certified Components:

Acenaphthene	N-Nitroso-di-n-propylamine
1,4-Dichlorobenzene	Pyrene
2,4-Dinitrotoluene	1,2,4-Trichlorobenzene

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB5

GC/MS Tuning Standard

1 Certified Component:

Decafluorotriphenylphosphine

1 mL @ 2,500 µg/mL in methanol

Catalog#: CLPS-T

4-Component GC/MS Tuning Standard

4 Certified Components:

Decafluorotriphenylphosphine
4,4-DDT
Benzidine
Pentachlorophenol

1 mL @ 2,500 µg/mL in methylene chloride

Catalog#: CLPS-T4

Base/Neutral Fraction Calibration Check Compounds

7 Certified Components:

Acenaphthene	Fluoranthene
Benzo(a)pyrene	Hexachlorobutadiene
1,4-Dichlorobenzene	N-Nitroso-di-n-phenylamine
Di-n-octyl phthalate	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-CCB

Acid Fraction Calibration Check Compounds

6 Certified Components:

4-Chloro-3-methylphenol	Phenol
2,4-Dichlorophenol	Pentachlorophenol
2-Nitrophenol	2,4,6-Trichlorophenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-CCA

System Performance Check Compounds

4 Certified Components:

2,4-Dinitrophenol
Hexachlorocyclopentadiene
4-Nitrophenol
N-Nitroso-di-n-propylamine

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-SPCC

METHOD 8310

The SW-846 method 8310 is an analytical method in which a sample is extracted utilizing liquid-liquid extraction, concentrated, then analyzed using an HPLC system to perform the separation. UV (Ultraviolet) and Fluorescence detectors are used to detect the analytes.

PAH Calibration Mix

16 Certified Components:

Acenaphthene	Chrysene
Acenaphthylene	Dibenzo(a,h)anthracene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(k)fluoranthene	Pyrene

1 mL @ 500 µg/mL in acetonitrile

Catalog#: 8310-A

■ PAH Quality Control Mix

16 Certified Components:

	µg/mL		µg/mL
Acenaphthene	100	Chrysene	50
Acenaphthylene	100	Dibenzo(a,h)anthracene	10
Anthracene	100	Fluoranthene	5
Benzo(a)anthracene	10	Fluorene	100
Benzo(a)pyrene	10	Indeno(1,2,3-cd)pyrene	10
Benzo(b)fluoranthene	5	Naphthalene	100
Benzo(g,h,i)perylene	10	Phenanthrene	100
Benzo(k)fluoranthene	10	Pyrene	10

1 mL in acetonitrile

Catalog#: 8310-QCM

Surrogate Standard

1 Certified Component:

Decafluorobiphenyl

1 mL @ 100 µg/mL in acetonitrile

Catalog#: 8310-I

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Decafluorobiphenyl	100
Methyl Orange	12,500

1 mL in acetonitrile

Catalog#: 8310-I-TI

Custom Standards

Custom standards may be the most cost-effective way to simplify your calibrations.

CLP SERIES – SEMIVOLATILES

The US EPA Contract Laboratory Program (CLP) is a contract through which the US EPA may retain analytical services. The CLP contracts contain detailed operating procedures to be followed by those laboratories which are awarded the contracts. The methods are derived from SW-846 and the US EPA-Office of Research and Development. The CLP Semivolatile Organic analysis method (from the OLM04.1) is an analytical method which utilizes a methylene chloride extraction of aqueous sample or methylene chloride:acetone extraction of 30 grams of solid sample, and a gas chromatograph equipped with a capillary column to perform the separation of the compounds. To detect the GC eluant, an MS (Mass Spectrometer) detector is used.

■ “BIG-MIX” Volatile Organics Mix with 76 Certified Components

76 Certified Components:

Pyridine	2,6-Dinitrotoluene
n-Nitrosodimethylamine	1,2-Dinitrobenzene
Phenol	3-Nitroaniline
Aniline	Acenaphthene
bis(2-Chloroethyl)ether	2,4-Dinitrophenol
2-Chlorophenol	4-Nitrophenol
1,3-Dichlorobenzene	Dibenzofuran
1,4-Dichlorobenzene	2,4-Dinitrotoluene
Benzyl Alcohol	2,3,5,6-Tetrachlorophenol
1,2-Dichlorobenzene	2,3,4,6-Tetrachlorophenol
2-Methylphenol	Diethylphthalate
2,2'-oxybis(1-Chloropropane)	Fluorene
3-Methylphenols***	4-Chlorophenyl-phenylether
4-Methylphenols***	4-Nitroaniline
n-Nitroso-di-n-propylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	n-Nitrosodiphenylamine**
Nitrobenzene	Azobenzene*
Isophorone	4-Bromophenyl-phenylether
2-Nitrophenol	Hexachlorobenzene
2,4-Dimethylphenol	Pentachlorophenol
bis(2-Chloroethoxy)methane	Phenanthrene
2,4-Dichlorophenol	Anthracene
1,2,4-Trichlorobenzene	Carbazole
Naphthalene	Di-n-butylphthalate
4-Chloroaniline	Fluoranthene
Hexachlorobutadiene	Pyrene
4-Chloro-3-methylphenol	Butylbenzylphthalate
1-Methylnaphthalene	Bis(2-ethylhexyl)adipate
2-Methylnaphthalene	Benzo(a)anthracene
Hexachlorocyclopentadiene	Chrysene
2,4,6-Trichlorophenol	Bis(2-ethylhexyl)phthalate
2,4,5-Trichlorophenol	Di-n-octyl phthalate
2-Chloronaphthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
1,4-Dinitrobenzene	Benzo(a)pyrene
1,3-Dinitrobenzene	Indeno(1,2,3-cd)pyrene
Dimethylphthalate	Dibenzo(a,h)anthracene
Acenaphthylene	Benzo(g,h,i)perylene

*1,2-Diphenylhydrazine (8270-listed analyte) decomposes to Azobenzene (mix component)

**N-Nitrosodiphenylamine (8270-listed analyte) decomposes to Diphenylamine (mix component)

***3-Methylphenol and 4-Methylphenol concentration each are 500 µg/mL

1 mL @ 1,000 µg/mL in Methylene Chloride

Catalog#: 76-BIG-MIX

■ BIG-BN-2

Semivolatile Calibration Standard containing all 49 base-neutrals contained in blends: CLPS-B, CLPS-C, CLPS-D, and CLPS-G at 2,000 µg/mL

49 Certified Components:

Acenaphthene	Dimethyl phthalate
Acenaphthylene	Di-n-butyl phthalate
Anthracene	2,4-Dinitrotoluene
Benzo(a)anthracene	2,6-Dinitrotoluene
Benzo(a)pyrene	Di-n-octyl phthalate
Benzo(b)fluoranthene	Fluoranthene
Benzo(g,h,i)perylene	Fluorene
Benzo(k)fluoranthene	Hexachlorobenzene
Benzyl alcohol	Hexachlorobutadiene
bis(2-Chloroethoxy)methane	Hexachlorocyclopentadiene
bis(2-Chloroethyl)ether	Hexachloroethane
bis(2-Chloroisopropyl)ether	Indeno(1,2,3-cd)pyrene
bis(2-Ethylhexyl)phthalate	Isophorone
4-Bromophenyl phenyl ether	2-Methylnaphthalene
Butylbenzyl phthalate	Naphthalene
4-Chloroaniline	2-Nitroaniline
2-Chloronaphthalene	3-Nitroaniline
4-Chlorophenyl-phenyl ether	4-Nitroaniline
Chrysene	Nitrobenzene
Dibenz(a,h)anthracene	N-Nitroso-di-n-propylamine
Dibenzofuran	N-Nitrosodiphenylamine
1,2-Dichlorobenzene	Phenanthrene
1,3-Dichlorobenzene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene
Diethyl phthalate	

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: BIG-BN-2

5 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: BIG-BN-2-5

■ HICAL-ACIDS

16 Certified Components:

Benzoic acid	4-Methylphenol (p-Cresol)
4-Chloro-3-methylphenol	Phenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	2-Nitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4,6-Dinitro-2-methylphenol	2,4,5-Trichlorophenol
2,4-Dinitrophenol	2,4,6-Trichlorophenol
2-Methylphenol (o-Cresol)	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: HICAL-ACIDS

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: HICAL-ACIDS-5

■ Benzidines Mix

2 Certified Components:

Benzidine
3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X

5 mL @ 2,000 µg/mL in methanol

Catalog#: 605-X5

■ Balance Mix - Option A

6 Certified Components:

Aniline	3-Methylphenol (m-Cresol)
Azobenzene	N-Nitrosodimethylamine
Carbazole	Pyridine

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-X

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-X5

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



■ Balance Mix - Option B

5 Certified Components:

Aniline	N-Nitrosodimethylamine
Azobenzene	Pyridine
Carbazole	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-XNC

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SV-XNC5

■ Balance Mix - Option C

4 Certified Components:

Aniline	Carbazole
Azobenzene	N-Nitrosodimethylamine

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-X

5 mL @ 2,000 µg/mL in methylene chloride

Catalog#: 8270-X5

Method 8270 “Short List” Kits

Kits available – see page 64.

■ Balance Mix - OLM04.1

5 Certified Components:

Acetophenone	Benzaldehyde
Atrazine	Caprolactam
1,1'-Biphenyl	

1 mL @ 2,000 µg/mL in acetone

Catalog#: SV-041

Specific Analyte Mixes in Kit, CLPS-K1

■ Phenolics

11 Certified Components:

4-Chloro-3-methylphenol	2-Nitrophenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenol
4,6-Dinitro-2-methylphenol	2,4,6-Trichlorophenol
2,4-Dinitrophenol	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-A

■ Polynuclear Aromatic Hydrocarbons

16 Certified Components:

Acenaphthene	Dibenz(a,h)anthracene
Acenaphthylene	Chrysene
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Naphthalene
Benzo(g,h,i)perylene	Phenanthrene
Benzo(k)fluoranthene	Pyrene

1 mL @ 2,000 µg/mL in methylene chloride:benzene

Catalog#: CLPS-B

1 mL x 4 pack

Catalog#: CLPS-B-4

■ Haloethers & Phthalates

13 Certified Components:

bis(2-Chloroethoxy)methane	Di-n-butyl phthalate
bis(2-Chloroethyl)ether	Diethyl phthalate
bis(2-Chloroisopropyl)ether	Dimethyl phthalate
bis(2-Ethylhexyl)phthalate	Di-n-Octyl phthalate
4-Bromophenyl phenyl ether	N-Nitroso-di-n-propylamine
Butylbenzyl phthalate	N-Nitrosodiphenylamine
4-Chlorophenyl-phenyl ether	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-C

■ Chlorinated/Nitrated Hydrocarbons Mix

13 Certified Components:

2-Chloronaphthalene	Hexachlorobutadiene
1,2-Dichlorobenzene	Hexachlorocyclopentadiene
1,3-Dichlorobenzene	Hexachloroethane
1,4-Dichlorobenzene	Isophorone
2,4-Dinitrotoluene	Nitrobenzene
2,6-Dinitrotoluene	1,2,4-Trichlorobenzene
Hexachlorobenzene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-D

■ 3,3' Dichlorobenzidine Stock Standard

1 Certified Component:

3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-E

■ CLP 90 Mix F

4 Certified Components:

Carbazole	4-Methylphenol (p-Cresol)
2-Methylphenol (o-cresol)	2,4,5-Trichlorophenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-F90

■ CLP Mix G

7 Certified Components:

Benzyl alcohol	2-Nitroaniline
4-Chloroaniline	3-Nitroaniline
Dibenzofuran	4-Nitroaniline
2-Methylnaphthalene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-G

Low-Level Semivolatile Calibration Standards for SOW 10/92

■ Acid Surrogate Standard

3 Certified Components:

2-Chlorophenol-d ₄	1,000 µg/mL
Phenol-d ₆	1,000 µg/mL
2,4,6-Tribromophenol	3,000 µg/mL

1 mL in methanol

Catalog#: CLPS-LC-SA

■ Phenolics Mix A

6 Certified Components:

4,6-Dinitro-2-methylphenol	Pentachlorophenol
2,4-Dinitrophenol	2,4,6-Tribromophenol (surrogate)
4-Nitrophenol	2,4,5-Trichlorophenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-LC-A

■ Phenolics Mix B, Low Level

11 Certified Components:

4-Chloro-3-methylphenol	2-Methylphenol
2-Chlorophenol	4-Methylphenol
2,4-Dichlorophenol	2-Nitrophenol
2,4-Dimethylphenol	Phenol
2-Fluorophenol (surrogate)	2,4,6-Trichlorophenol
Phenol-d ₆ (surrogate)	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-LC-B

■ Anilines, Low Level

3 Certified Components:

2-Nitroaniline
3-Nitroaniline
4-Nitroaniline

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: ANILINE-LC-A

■ Semivolatile Control Sample, Low Level

3 Certified Components:

2-Chlorophenol
2,4,6-Trichlorophenol
Phenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-LC-ALCS

■ Base Neutrals Mix A, Low Level

12 Certified Components:

	Concentration
Benzo(a)pyrene	1,000 µg/mL
bis(2-Chloroethyl)ether	1,000 µg/mL
4-Chloroaniline	2,000 µg/mL
Diethyl phthalate	1,000 µg/mL
2,4-Dinitrotoluene	1,000 µg/mL
Hexachlorobenzene	1,000 µg/mL
Hexachloroethane	1,000 µg/mL
Isophorone	1,000 µg/mL
Naphthalene	1,000 µg/mL
N-Nitroso-di-n-propylamine	1,000 µg/mL
N-Nitrosodiphenylamine	1,000 µg/mL
1,2,4-Trichlorobenzene	1,000 µg/mL

1 mL in methylene chloride

Catalog#: CLPS-LC-BN

■ 3,3'-Dichlorobenzidine Stock Standard

1 Certified Component:

3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-E

■ Base Neutrals Mix B

Supplies the remaining analytes required for the low-concentration SOW

45 Certified Components:

Acenaphthene	Diethyl phthalate
Acenaphthylene	Di-n-butyl phthalate
Anthracene	Dimethylphthalate
Benzo(a)anthracene	2,4-Dinitrotoluene
Benzo(a)pyrene	2,6-Dinitrotoluene
Benzo(b)fluoranthene	Di-n-octyl phthalate
Benzo(g,h,i)perylene	Fluoranthene
Benzo(k)fluoranthene	Fluorene
bis(2-Chloroethoxy)methane	Hexachlorobenzene
bis(2-Chloroethyl)ether	Hexachlorobutadiene
bis(2-Chloroisopropyl)ether	Hexachlorocyclopentadiene
bis(2-Ethylhexyl)phthalate	Hexachloroethane
4-Bromophenyl phenyl ether	Indeno(1,2,3-cd)pyrene
Butylbenzyl phthalate	Isophorone
Carbazole	2-Methylnaphthalene
2-Chloronaphthalene	Naphthalene
4-Chlorophenyl-phenyl ether	Nitrobenzene
Chrysene	N-Nitroso-di-n-propylamine
Dibenz(a,h)anthracene	N-Nitrosodiphenylamine
Dibenzofuran	Phenanthrene
1,2-Dichlorobenzene	Pyrene
1,3-Dichlorobenzene	1,2,4-Trichlorobenzene
1,4-Dichlorobenzene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-LL-BG

CLP Semivolatiles Kits

BIG-BN-KIT-A includes 1 mL each of BIG-BN-2, HICAL-ACIDS, 605-X, plus balance mix SV-X. BIG-BN-KIT-5 includes 5 mL of each.

Catalog #: BIG-BN-KIT-A

Catalog #: BIG-BN-KIT-5

BIG-BN-KIT-B includes 1 mL each of BIG-BN-2, HICAL-ACIDS, 605-X, plus balance mix SV-XNC.

Catalog #: BIG-BN-KIT-B

BIG-BN-KIT-C includes 1 mL each of BIG-BN-2, HICAL-ACIDS, 605-X, plus balance mix 8270-X.

Catalog #: BIG-BN-KIT-C

CLPS-K1 contains one ampule each of CLPS-A, CLPS-B, CLPS-C, CLPS-D, CLPS-E, CLPS-F90, CLPS-G.

Catalog#: CLPS-K1

CLPS-K1-5 contains one 5 mL ampule each of CLPS-A5, CLPS-B2, CLPS-C5, CLPS-D5, CLPS-E5, CLPS-F905, CLPS-G5.

Catalog#: CLPS-K1-5

CLPS-K2 contains 1 each of the following auxiliary standards: CLP90-SB, CLP90-SA, CLPS-MSB, CLPS-MSA, SCM-X, CLPS-T, CLPS-I2.

Catalog#: CLPS-K2

Acid Surrogate for CLP 3/90 and 8/94 SOW's

4 Certified Components:

2-Chlorophenol-d ₄	Phenol-d ₅
2-Fluorophenol	2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLP90-SA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLP90-SA5

Organic Tinted Surrogates

5 Certified Components:

	µg/mL
2-Chlorophenol-3,4,5,6-d ₄	2,000
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLP90-SA-TI

5 mL in methylene chloride:acetone

Catalog#: CLP90-SA5-TI

High Concentration Acid Surrogates

4 Certified Components:

2-Chlorophenol-d ₄	2-Fluorophenol
Phenol-d ₆	2,4,6-Tribromophenol

1 mL @ 7,500 µg/mL in methanol

Catalog#: CLP90-75SA

5 mL @ 7,500 µg/mL in methanol

Catalog#: CLP90-75SA5

Organic Tinted Surrogates

5 Certified Components:

	µg/mL
2-Chlorophenol-3,4,5,6-d ₄	7,500
2-Fluorophenol	7,500
Phenol-d ₆	7,500
2,4,6-Tribromophenol	7,500
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-75SA-TI

5 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-75SA5-TI

Low Concentration Acid Surrogate**4 Certified Components:**

2-Chlorophenol-d₄ Phenol-d₅
 2-Fluorophenol 2,4,6-Tribromophenol

1 mL @ 1,500 µg/mL in methanol

Catalog#: CLP90-15SA

Organic Tinted Surrogate**5 Certified Components:**

	µg/mL
2-Chlorophenol-3,4,5,6-d ₄	1,500
2-Fluorophenol	1,500
Phenol-d ₆	1,500
2,4,6-Tribromophenol	1,500
Methyl Orange	2,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-15SA-TI

Acid Surrogate for CLP 2/88 SOW**3 Certified Components:**

2-Fluorophenol
 Phenol-d₅
 2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA5

Organic Tinted Surrogates**4 Certified Components:**

	µg/mL
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methanol

Catalog#: CLPS-SA-TI

5 mL in methylene chloride:acetone

Catalog#: CLPS-SA5-TI

High Concentration Acid Surrogates for CLP 2/88**3 Certified Components:**

2-Fluorophenol
 Phenol-d₅
 2,4,6-Tribromophenol

1 mL @ 10,000 µg/mL in methanol

Catalog#: CLPS-SAH

1 mL x 4 pack

Catalog#: CLPS-SAH-4

5 mL @ 10,000 µg/mL in methanol

Catalog#: CLPS-SAH5

Organic Tinted Surrogates**4 Certified Components:**

	µg/mL
2-Fluorophenol	10,000
Phenol-d ₆	10,000
2,4,6-Tribromophenol	10,000
Methyl Orange	12,500

1 mL in methanol

Catalog#: CLPS-SAH-TI

5 mL in methanol

Catalog#: CLPS-SAH5-TI

Base/Neutrals Surrogate for CLP 3/90 and 8/94 SOW's**4 Certified Components:**

1,2-Dichlorobenzene-d₄
 2-Fluorobiphenyl
 Nitrobenzene-d₅
 Terphenyl-d₁₄

1 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SB

5 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SB5

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Organic Tinted Surrogates

5 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	1,000
2-Fluorobiphenyl	1,000
p-Terphenyl-d ₁₄	1,000
Nitrobenzene-d ₅	1,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLP90-SB-TI

5 mL in methylene chloride:acetone

Catalog#: CLP90-SB5-TI

High Concentration Base/Neutrals Surrogate

4 Certified Components:

1,2-Dichlorobenzene-d ₄
2-Fluorobiphenyl
Nitrobenzene-d ₅
Terphenyl-d ₁₄

1 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SBH

5 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SBH5

Organic Tinted Surrogates

5 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	5,000
2-Fluorobiphenyl	5,000
p-Terphenyl-d ₁₄	5,000
Nitrobenzene-d ₅	5,000
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-SBH-TI

5 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-SBH5-TI

Base/Neutrals Surrogate for CLP 2/88 SOW

3 Certified Components:

2-Fluorobiphenyl
Nitrobenzene-d ₅
Terphenyl-d ₁₄

1 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SB

Organic Tinted Surrogate

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	1,000
Nitrobenzene-d ₅	1,000
p-Terphenyl-d ₁₄	1,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SB-TI

High Concentration Base/Neutrals Surrogate

3 Certified Components:

2-Fluorobiphenyl
Nitrobenzene-d ₅
Terphenyl-d ₁₄

1 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SBH

5 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SBH5

1 mL x 4 pack

Catalog#: CLPS-SBH5-4

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	5,000
p-Terphenyl-d ₁₄	5,000
Nitrobenzene-d ₅	5,000
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLPS-SBH-TI

5 mL in methylene chloride:acetone:benzene

Catalog#: CLPS-SBH5-TI

Internal Standard**6 Certified Components:**

Acenaphthene-d ₁₀	Naphthalene-d ₈
Chrysene-d ₁₂	Perylene-d ₁₂
1,4-Dichlorobenzene-d ₄	Phenanthrene-d ₁₀

1 mL @ 4,000 µg/mL in methylene chloride

Catalog#: CLPS-I

1 mL x 4 pack

Catalog#: CLPS-I-4

Alternate Internal Standard**6 Certified Components:**

2 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-I2

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-I90

1 mL x 4 pack

Catalog#: CLPS-I90-4

Acid Extractable Matrix Spikes**5 Certified Components:**

4-Chloro-3-methylphenol	Pentachlorophenol
2-Chlorophenol	Phenol
4-Nitrophenol	

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-MSA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-MSA5

High Concentration Acid Extractable Matrix Spikes**Choose from two concentration levels — 7,500 or 10,000 µg/mL****5 Certified Components:**

4-Chloro-3-methylphenol
Pentachlorophenol
2-Chlorophenol
Phenol
4-Nitrophenol

1 mL @ 7,500 µg/mL in methanol

Catalog#: CLPS-MSA75

1 mL @ 10,000 µg/mL in methanol

Catalog#: CLPS-MSA10

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



Low Concentration Acid Extractable Matrix Spike for CLP 3/90 SOW

5 Certified Components:

4-Chloro-3-methylphenol	Phenol
Pentachlorophenol	2-Chlorophenol
4-Nitrophenol	

1 mL @ 1,500 µg/mL in methanol

Catalog#: CLPS-MSA15

Base/Neutrals Matrix Spike

6 Certified Components:

Acenaphthene	N-Nitroso-di-n-propylamine
2,4-Dinitrotoluene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene

1 mL @ 1,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB

5 mL @ 1,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB5

High Concentration Base/Neutrals Matrix Spike

6 Certified Components:

Acenaphthene	N-Nitroso-di-n-propylamine
2,4-Dinitrotoluene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene

1 mL @ 5,000 µg/mL in methylene chloride

Catalog#: CLPS-5KMSB

Combination Semivolatile Surrogates for CLP SOW 3/90

8 Certified Components:

	µg/mL		µg/mL
2-Chlorophenol-d ₄	1,500	Nitrobenzene-d ₅	1,000
1,2-Dichlorobenzene-d ₄	1,000	Phenol-d ₅	1,500
2-Fluorobiphenyl	1,000	Terphenyl-d ₁₄	1,000
2-Fluorophenol	1,500	2,4,6-Tribromophenol	1,500

1 mL @ 2,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLP90-SURR

Organic Tinted Surrogate

9 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	1,000
2-Fluorobiphenyl	1,000
p-Terphenyl-d ₁₄	1,000
Nitrobenzene-d ₅	1,000
2-Chlorophenol-3,4,5,6-d ₄	1,500
2-Fluorophenol	1,500
Phenol-d ₆	1,500
2,4,6-Tribromophenol	1,500
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLP90-SURR-TI

Combination Semivolatile Surrogates for CLP SOW 3/90 - Alternative Formulation

8 Certified Components:

2-Chlorophenol	2-Fluorobiphenyl
Nitrobenzene-d ₅	Terphenyl-d ₁₄
1,2-Dichlorobenzene-d ₄	2-Fluorophenol
Phenol-d ₅	2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SC2

1 mL @ 4,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SC4

Organic Tinted Surrogate

9 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	2,000
2-Fluorobiphenyl	2,000
p-Terphenyl-d ₁₄	2,000
Nitrobenzene-d ₅	2,000
2-Chlorophenol-3,4,5,6-d ₄	2,000
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	1,250

1 mL in methylene chloride:acetone

Catalog#: CLPS-SC2-TI

Organic Tinted Surrogate**9 Certified Components:**

	µg/mL
1,2-Dichlorobenzene-d ₄	4,000
2-Fluorobiphenyl	4,000
p-Terphenyl-d ₁₄	4,000
Nitrobenzene-d ₅	4,000
2-Chlorophenol-3,4,5,6-d ₄	4,000
2-Fluorophenol	4,000
Phenol-d ₆	4,000
2,4,6-Tribromophenol	4,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SC4-TI

Combination Semivolatile Surrogates for CLP SOW 2/88**6 Certified Components:**

	µg/mL		µg/mL
2-Fluorobiphenyl	1,000	2-Fluorophenol	2,000
Nitrobenzene-d ₅	1,000	Phenol-d ₅	2,000
Terphenyl-d ₁₄	1,000	2,4,6-Tribromophenol	2,000

1 mL @ in 50:50 methylene chloride:acetone

Catalog#: CLPS-SURR

Organic Tinted Surrogate**7 Certified Components:**

	µg/mL
2-Fluorobiphenyl	1,000
Nitrobenzene-d ₅	1,000
p-Terphenyl-d ₁₄	1,000
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SURR-TI

Ready-Prep Surrogate Spike**6 Certified Components:**

	µg/mL		µg/mL
2-Fluorobiphenyl	100	Phenol-d ₅	200
2-Fluorophenol	200	Terphenyl-d ₁₄	100
Nitrobenzene-d ₅	100	2,4,6-Tribromophenol	200

25 mL in methylene chloride

Catalog#: CLPS-BNA-SS25

50 mL in methylene chloride

Catalog#: CLPS-BNA-SS50

100 mL in methylene chloride

Catalog#: CLPS-BNA-SS100

Organic Tinted Surrogates**7 Certified Components:**

	µg/mL
2-Fluorobiphenyl	100
p-Terphenyl-d ₁₄	100
Nitrobenzene-d ₅	100
2-Fluorophenol	200
Phenol-d ₆	200
2,4,6-Tribromophenol	200
Methyl Orange	250

25 mL in methylene chloride:acetone

Catalog#: CLPS-BNA-SS25-TI

50 mL in methylene chloride:acetone

Catalog#: CLPS-BNA-SS50-TI

100 mL in methylene chloride:acetone

Catalog#: CLPS-BNA-SS100-TI

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Ready-Prep Matrix Spike

11 Certified Components:

	µg/mL		µg/mL
Acenaphthene	100	N-Nitroso-di-	
2-Chlorophenol	150	n-propylamine	100
4-Chloro-3-methylphenol	150	Pentachlorophenol	150
1,4-Dichlorobenzene	100	Phenol	150
2,4-Dinitrotoluene	100	Pyrene	100
4-Nitrophenol	150	1,2,4-Trichlorobenzene	100

25 mL in methylene chloride

Catalog#: CLPS-BNA-MS25

50 mL in methylene chloride

Catalog#: CLPS-BNA-MS50

100 mL in methylene chloride

Catalog#: CLPS-BNA-MS100

GC/MS Tuning Standard

1 Certified Component:

Decafluorotriphenylphosphine

1 mL @ 2,500 µg/mL in methanol

Catalog#: CLPS-T

4-Component GC/MS Tuning Standard

4 Certified Components:

Benzidine	Decafluorotriphenylphosphine
4,4-DDT	Pentachlorophenol

1 mL @ 2,500 µg/mL in methanol

Catalog#: CLPS-T4

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METHOD 1311 - TCLP

The US EPA methods 1311 and 1312 describe the extraction and analysis of various samples using the Toxicity Characteristic Leaching Procedure (TCLP).

■ Base/Neutral/Acid Extractable Spike Solution for Method 1311

13 Certified Components:

o-Cresol	Hexachloroethane
m-Cresol	Nitrobenzene
p-Cresol	Pentachlorophenol
1,4-Dichlorobenzene	Pyridine
2,4-Dinitrotoluene	2,4,5-Trichlorophenol
Hexachlorobenzene	2,4,6-Trichlorophenol
Hexachlorobutadiene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: TCLP-BNA

■ Base/Neutral/Acid Extractable Spike Solution for Method 1312

14 Certified Components:

Acenaphthene	1,4-Dichlorobenzene
β-BHC	2,4-Dimethylphenol
γ-BHC (Lindane)	2,4-Dinitrophenol
bis-2-Chloroethylether	2,4-Dinitrotoluene
2-Chlorophenol	Hexachlorobenzene
o-Cresol	Hexachlorobutadiene
1,2-Dichlorobenzene	Nitrobenzene

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: TCLP-BNA-1312

■ TCLP Acid Extractables Spike Solution A

6 Certified Components:

	µg/mL		µg/mL
o-Cresol	2,500	2,4,5-Trichlorophenol	7,500
m-Cresol	2,500	2,4,6-Trichlorophenol	2,500
p-Cresol	2,500		
Pentachlorophenol	7,500		

1 mL in methylene chloride

Catalog#: TCLP-A

■ TCLP Acid Extractables Spike Solution A - Alternate Formulation

6 Certified Components:

o-Cresol	Pentachlorophenol
m-Cresol	2,4,5-Trichlorophenol
p-Cresol	2,4,6-Trichlorophenol

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: TCLP-A2

■ TCLP Base/Neutrals Spike Solution B

7 Certified Components:

	µg/mL		µg/mL
1,4-Dichlorobenzene	2,500	Hexachloroethane	2,500
2,4-Dinitrotoluene	2,500	Nitrobenzene	2,500
Hexachlorobenzene	2,500	Pyridine	5,000
Hexachlorobutadiene	2,500		

1 mL in methylene chloride

Catalog#: TCLP-B

■ TCLP Base/Neutrals Spike Solution B - Alternate Formulation

7 Certified Components:

1,4-Dichlorobenzene	Hexachloroethane
2,4-Dinitrotoluene	Nitrobenzene
Hexachlorobenzene	Pyridine
Hexachlorobutadiene	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: TCLP-B2

Pesticides/PCBs/Herbicides

METHOD 505

The US EPA method 505 is an analytical method that utilizes 2 mL of hexane to extract 35 mL drinking and raw source water, and a gas chromatograph equipped with a capillary column to perform the separation of organochlorine pesticides and PCBs. To detect the GC eluant, an ECD (electron capture) detector is used.

■ Reformulated Organohalide Pesticides Mix

16 Certified Components:

	µg/mL		µg/mL
Alachlor	50	Heptachlor	5
Aldrin	5	Heptachlor epoxide	5
Atrazine	250	Hexachlorobenzene	5
γ-BHC(Lindane)	5	Hexachlorocyclopentadiene	5
α-Chlordane	5	Methoxychlor	25
γ-Chlordane	5	cis-Nonachlor	5
Dieldrin	5	trans-Nonachlor	5
Endrin	5	Simazine	250

1 mL in acetone

Catalog#: 505-A2

■ Original Method 505 Organohalide Pesticide Mix

16 Certified Components:

	µg/mL		µg/mL
Alachlor	50	Heptachlor	5
Aldrin	5	Heptachlor epoxide	5
Atrazine	250	Hexachlorobenzene	5
γ-BHC (Lindane)	5	Hexachlorocyclopentadiene	15
α-Chlordane	5	Methoxychlor	50
γ-Chlordane	5	cis-Nonachlor	10
Dieldrin	10	trans-Nonachlor	10
Endrin	10	Simazine	500

1 mL in acetone

Catalog#: 505-A

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

Helpful Hint:

Customize your solutions! Tell us what you want...
Specify compounds, concentrations, and matrix.
Visit our web site to submit your request online:
www.spexcertiprep.com/customorganics.

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane

Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-780

■ Decachlorobiphenyl Stock Standard

1 Certified Component:

Decachlorobiphenyl

1 mL @ 5,000 µg/mL in toluene

Catalog#: DCBP-XH

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in toluene

Catalog#: DCBP-XH-TI

■ Aroclor Mix 1

Mix one contains the following Aroclors:

4 Certified Components:

Aroclor 1016	Aroclor 1232
Aroclor 1248	Aroclor 1260

1 mL @ 200 µg/mL in hexane

Catalog#: PCB-M1

■ Aroclor Mix 2

Mix two contains the following Aroclors:

3 Certified Components:

Aroclor 1221	Aroclor 1242
Aroclor 1254	

1 mL @ 200 µg/mL in hexane

Catalog#: PCB-M2

■ Individual Aroclors

Two concentrations available: 200 µg/mL and 1,000 µg/mL at 1 mL each in hexane.

Conc. µg/mL	Catalog #	Certified Components:
200 µg/mL	PCB-1016	1
1,000 µg/mL	PCB-1016H	1
200 µg/mL	PCB-1221	1
1,000 µg/mL	PCB-1221H	1
200 µg/mL	PCB-1232	1
1,000 µg/mL	PCB-1232H	1
200 µg/mL	PCB-1242	1
1,000 µg/mL	PCB-1242H	1
200 µg/mL	PCB-1248	1
1,000 µg/mL	PCB-1248H	1
200 µg/mL	PCB-1254	1
1,000 µg/mL	PCB-1254H	1
200 µg/mL	PCB-1260	1
1,000 µg/mL	PCB-1260H	1
200 µg/mL	PCB-1262	1
1,000 µg/mL	PCB-1262H	1
200 µg/mL	PCB-1268	1
1,000 µg/mL	PCB-1268H	1

Method 505 Calibration Kits

505-K contains one ampule each of 505-A2, TOX-X, CDANE-X, PCB-M1, and PCB-M2

Catalog#: 505-K1

505-K2 contains one ampule each of 505-A2, TOX-X, CDANE-X, and individual aroclors PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260, PCB-1262, and PCB-1268.

Catalog#: 505-K2

PCB Kit H

1 mL @ 1,000 µg/mL of each of the following in a kit:

PCB-1016H	PCB-1221H
PCB-1232H	PCB-1242H
PCB-1248H	PCB-1254H
PCB-1260H	

Catalog#: PCB-KH

PCB Kit 200

1 mL @ 200 µg/mL of each of the following in a kit:

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

Catalog#: PCB-200K

METHOD 507

The US EPA method 507 is an analytical method that utilizes a methylene chloride extraction of drinking and ground water concentrated to 5 mL (in MTBE) and a gas chromatograph equipped with a capillary column to perform the separation of nitrogen and phosphorus containing pesticides and PCBs. To detect the GC eluant, a nitrogen-phosphorus detector (NPD) is used.

■ Analyte Mix A**23 Certified Components:**

Alachlor	Chlorpropham	EPTC
Ametryn	Cycloate	Ethoprop
Atrazine	Diazinon	Fenamiphos
Atraton	Dichlorvos	Fenarimol
Bromacil	Diphenamid	Fluridone
Butachlor	Disulfoton	Hexazinone
Butylate	Disulfoton sulfone	Merphos
Carboxin	Disulfoton sulfoxide	

1 mL @ 1,000 µg/mL in acetone

Catalog#: 507-A

■ Analyte Mix B**23 Certified Components:**

Methyl parathion	Propazine
Metolachlor	Simazine
Metribuzin	Simetryn
Mevinphos	Stirofos
MGK 264	Terbacil
Molinate	Tebuthiuron
Napropamide	Terbufos
Norflurazon	Terbutryn
Pebulate	Triademefon
Prometon	Tricycloate
Prometryn	Vernolate
Pronamide	

1 mL @ 1,000 µg/mL in acetone

Catalog#: 507-B

Method 507 Calibration Kit

507-K1 contains one ampule each of 505-A and 505-B.

Catalog#: 507-K1

Internal Standard**1 Certified Component:**

Triphenyl phosphate

1 mL @ 500 µg/mL in methyl tert-butyl ether

Catalog#: 507-I

Surrogate Standard**1 Certified Component:**

2-Nitro-m-xylene
(1,3-dimethyl-2-nitrobenzene)

1 mL @ 250 µg/mL in methyl tert-butyl ether

Catalog#: 507-S

Performance Check Standard**4 Certified Components:**

	µg/mL		µg/mL
Atrazine	15	Prometon	30
Bromacil	500	Vernolate	5

1 mL in methyl tert-butyl ether

Catalog#: 507-PC

1 mL x 4 pack

Catalog#: 507-PC-4

METHOD 508

The US EPA method 508 is an analytical method that utilizes a methylene chloride extraction of drinking and ground water, concentrated to 5-mL in methyl tert-butyl ether and a gas chromatograph equipped with a capillary column to perform the separation of organochlorine pesticides and PCBs. To detect the GC eluant, an electron capture (ECD) detector is used.

■ Reformulated Chlorinated Pesticides Mix - Analyte Mix A

18 Certified Components:

Aldrin	Endosulfan I
γ-BHC (Lindane)	Endosulfan II
α-BHC	Endosulfan sulfate
β-BHC	Endrin
δ-BHC	Endrin aldehyde
p, p'-DDE	Endrin ketone
p, p'-DDD	Heptachlor
p, p'-DDT	Heptachlor epoxide
Dieldrin	Methoxychlor

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: 508-A

■ Chlorinated Pesticides - Original Formulation

18 Certified Components:

	Concentration (µg/mL)		Concentration (µg/mL)
Aldrin	5	Endosulfan I	5
γ-BHC (Lindane)	5	Endosulfan II	10
α-BHC	5	Endosulfan sulfate	10
β-BHC	5	Endrin	10
δ-BHC	5	Endrin aldehyde	10
p,p'-DDE	10	Endrin ketone	10
p,p'-DDD	10	Heptachlor	5
p,p'-DDT	10	Heptachlor epoxide	5
Dieldrin	10	Methoxychlor	50

1 mL in methyl tert-butyl ether

Catalog#: 508-X

■ Analyte Mix B

12 Certified Components:

α-Chlordane	Etridiazole
γ-Chlordane	Hexachlorobenzene
Chlorobenzilate	cis-Permethrin
Chloroneb	trans-Permethrin
Chlorthalonil	Propachlor
DCPA (Dacthal)	Trifluralin

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: 508-B

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane

Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-780

Method 508 Calibration Kit

508-K contains one ampule each of 508-A, 508-B, TOX-X, CDANE-X, and individual Aroclors PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-248, PCB-254, PCB-1260, PCB-1262, and PCB-1268.

Catalog#: 508-K2

Surrogate Standard

1 Certified Component:

Decachlorobiphenyl

1 mL @ 5,000 µg/mL in methyl tert-butyl ether

Catalog#: DCBP-XH

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in toluene

Catalog#: DCBP-XH-TI

PCNB Internal Standard

1 Certified Component:

Pentachloronitrobenzene

1 mL @ 100 µg/mL in methyl tert-butyl ether

Catalog#: 508-I

Helpful Hint:

Yes, we use Heptachlor Epoxide Isomers A and B.

Performance Check Solution

4 Certified Components:

δ-BHC	40 ng/mL
Chlorthalonil	50 ng/mL
Chlorpyrifos	2 ng/mL
DCPA (Dacthal)	50 ng/mL

1 mL in methyl tert-butyl ether

Catalog#: 508-PC

GC Degradation Check Solution

2 Certified Components:

Endrin
p,p'-DDT

1 mL @ 10 µg/mL in methyl tert-butyl ether

Catalog#: 508-DC

METHOD 508.1

The US EPA method 508.1 is an analytical method that utilizes a liquid-solid extraction and gas chromatography with an electron-capture (ECD) detector to detect the GC eluant. Liquid solids extraction cartridges may also be used to carry out sample extractions.

Method 508 Analyte Mix A

20 Certified Components:

Alachlor	Dieldrin
Aldrin	Endosulfan I
Butachlor	Endosulfan II
γ-BHC (Lindane)	Endosulfan sulfate
α-BHC	Endrin
β-BHC	Endrin Aldehyde
δ-BHC	Endrin Ketone
p,p'-DDE	Heptachlor
p,p'-DDD	Heptachlor epoxide
p,p'-DDT	Methoxychlor

1 mL @ 500 µg/mL in ethyl acetate

Catalog#: 5081-A

Analyte Mix B

15 Certified Components:

α-Chlordane	Hexachlorobenzene
γ-Chlordane	Hexachlorocyclopentadiene
Chlorobenzilate	Metolachlor
Chloroneb	Metribuzin
Chlorthalonil	Permethrin (cis & trans)
Cyanazine	Propachlor
DCPA (Dacthal)	Trifluralin
Etridiazole	

1 mL @ 500 µg/mL in ethyl acetate

Catalog#: 5081-B

Method 508.1 Calibration Kit

5081-K contains one ampule each of 5081-A, 5081-B, TOX-X, CDANE-X, and individual Aroclors PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260, PCB-1262, and PCB-1268.

Catalog#: 5081-K2

Surrogate Standard

1 Certified Component:

4,4'-Dibromobiphenyl

1 mL @ 10 µg/mL in ethyl acetate

Catalog#: 5081-S

Internal Standard

2 Certified Components:

Pentachloronitrobenzene

1 mL @ 10 µg/mL in ethyl acetate

Catalog#: 5081-I

Performance Check Solution

4 Certified Components:

δ-BHC	40 ng/mL
Chlorthalonil	50 ng/mL
Chlorpyrifos	2 ng/mL
Dacthal	50 ng/mL

1 mL in methyl tert-butyl ether:ethyl acetate

Catalog#: 5081-PC

GC Degradation Check Solution

2 Certified Components:

Endrin
p,p'-DDT

1 mL @ 1 mg/mL in ethyl acetate

Catalog#: 5081-DC

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METHOD 508A

The US EPA method 508A is an analytical method that utilizes a methylene chloride extraction of drinking and raw source water, concentrated to 5 mL (in hexane) after derivatization with SbCl_5 and a gas chromatograph equipped with a packed or capillary column to perform the separation of the resultant decachlorobiphenyl. To detect the GC eluant, an electron capture detector (ECD) is used.

■ Aroclor 1260 Stock Standard

1 Certified Component:

Aroclor 1260

1 mL @ 5,000 $\mu\text{g/mL}$ in methanol

Catalog#: PCB-1260-H5

■ Decachlorobiphenyl Stock Standard

1 Certified Component:

Decachlorobiphenyl

1 mL @ 5,000 $\mu\text{g/mL}$ in toluene

Catalog#: DCBP-XH

Organic Tinted Surrogate

2 Certified Components:

	$\mu\text{g/mL}$
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in toluene

Catalog#: DCBP-XH-TI

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METHOD 515.1

The US EPA method 515.1 is an analytical method that utilizes an ethyl ether extraction of finished drinking and ground water, concentrated to 5 mL (in methyl tert-butyl ether) after derivatization with diazomethane and a gas chromatograph equipped with a capillary column to perform the separation of the analytes. To detect the GC eluant, an electron capture (ECD) detector is used.

■ Chlorinated Herbicides as Free Acids

17 Certified Components:

	Concentration ($\mu\text{g/mL}$)		Concentration ($\mu\text{g/mL}$)
Actifluorfen	100	Dicamba	100
Bentazon	200	3,5-Dichlorobenzoic acid	100
Chloramben	100	Dichloroprop	300
2,4-D	100	Dinoseb	200
2,4-DB	800	4-Nitrophenol	100
Dalapon	1,300	Pentachlorophenol	100
DCPA (Dacthal) monoacid metabolite (methyl tetrachloroterephthalate)	50	Picloram	100
DCPA (Dacthal) diacid metabolite (tetrachloroterephthalic acid)	50	2,4,5-T	100
		2,4,5-TP (Silvex)	100

1 mL in methyl tert-butyl ether

Catalog#: 5151-AR

Technical note on blend: 515-AR

Although GC cannot distinguish the DCPA mono and diacid metabolites after derivatization, we supply the two metabolites for analysts who use alternative separation techniques, such as HPLC.

■ Chlorinated Herbicides as Methyl Ester Derivatives

16 Certified Components:

Actifluorfen-MeO	3,5-Dichlorobenzoic acid-MeO
Bentazon-MeO	Dichloroprop-MeO
Chloramben-MeO	Dinoseb-MeO
2,4-D-MeO	4-Nitrophenol-MeO
2,4-DB-MeO	Pentachlorophenol-MeO
Dalapon-MeO	Picloram-MeO
DCPA	2,4,5-T-MeO
Dicamba-MeO	2,4,5-TP (Silvex)-MeO

1 mL @ 1,000 $\mu\text{g/mL}$ in toluene

Catalog#: 5151-MEOR

■ Chlorinated Herbicide Single Component Standards Sets

Free Acids - all 16 analytes listed in standard 5151-AR as single component standards @ 200 µg/mL in P&T methanol, plus MCPP and MCPA singles at 10 mg/mL. (See page 90)

18 x 1 mL

Catalog#: 5151-H-KIT

Methyl Esters - all 16 analytes listed in standard 5151-MEOR as single component standards @ 200 µg/mL in methyl tert-butyl ether, plus MCPP and MCPA methyl ester singles at 10 mg/mL in methyl tert-butyl ether. (See page 90)

18 x 1 mL

Catalog#: 5151-HM-KIT

Method 515.1 Calibration Kit

515.1-K contains one ampule each of 5151-AR, 5151-MEOR, 5151-PCA, 5151-PCME, 5151-SA, 5151-I, and 5151-SME.

Catalog#: 5151-K

Internal Standards

1 Certified Component:

4,4'-Dibromooctafluorobiphenyl (DBOB)

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: 5151-I

Surrogate Standard

1 Certified Component:

2,4-Dichlorophenyl acetic acid (DCAA)

1 mL @ 100 µg/mL in methyl tert-butyl ether

Catalog#: 5151-SA

Derivatized Surrogate Standard

1 Certified Component:

2,4-Dichlorophenyl acetic acid-methyl ester

1 mL @ 100 µg/mL in methyl tert-butyl ether

Catalog#: 5151-SME

Performance Check Standard

5 Certified Components:

Free Acids	µg/mL
4,4'-Dibromooctafluorobiphenyl	0.25
3,5-Dichlorobenzoic acid	0.6
2,4-Dichlorophenyl acetic acid	0.5
Dinoseb	0.4
4-Nitrophenol	1.6

1 mL in methanol:methyl tert-butyl ether

Catalog#: 5151-PCA

Derivatized Performance Check Standard

5 Certified Components:

Methyl Esters	µg/mL
4,4'-Dibromooctafluorobiphenyl	0.25
3,5-Dichlorobenzoic acid methyl ester	0.6
2,4-Dichlorophenyl acetic methyl ester (DCAA)	0.5
Dinoseb methyl ester	0.4
2-Methoxy-nitrobenzene	1.6

1 mL in methanol:methyl tert-butyl ether

Catalog#: 5151-PCME

METHOD 515.2

The US EPA method 515.2 is an analytical method for the determination of chlorinated acids in water using liquid-solid extraction and gas chromatography with an electron capture detector.

■ Chlorinated Herbicides as Free Acids - Mix A

6 Certified Components:

Concentration in µg/mL		Concentration in µg/mL	
3,5-Dichlorobenzoic acid	100	Dinoseb	200
DCPA	100	Pentachlorophenol	100
Dichloroprop	300	2,4,5-T	100

1 mL in methyl tert-butyl ether

Catalog#: 5152-A

■ Chlorinated Herbicides as Free Acids - Mix B

7 Certified Components:

Concentration in µg/mL		Concentration in µg/mL	
Actifluorfen	100	Dicamba	100
Bentazon	200	Picloram	100
2,4-D	100	2,4,5-TP (Silvex)	100
2,4-DB	800		

1 mL in methyl tert-butyl ether

Catalog#: 5152-B

■ Chlorinated Herbicides as Methyl Ester Derivatives

13 Certified Components:

Actifluorfen-MeO	Dichloroprop-MeO
Bentazon-MeO	Dinoseb-MeO
2,4-D-MeO	Pentachlorophenol-MeO
2,4-DB-MeO	Picloram-MeO
D CPA	2,4,5-T-MeO
Dicamba-MeO	2,4,5-TP (Silvex) -MeO
3,5-Dichlorobenzoic acid-MeO	

1 mL @ 1,000 µg/mL in methanol

Catalog#: 5152-MEO

Method 515.2 Calibration Kit

5152-K contains one ampule each of 5152-A, 5152-B, 5152-MEO, 5152-I, 5151-SA, 5151-SME, 5152-IPC, and 5151-PCME

Catalog#: 5152-K

Instrument Performance Check Standard

5 Certified Components:

Free Acids	µg/mL
4,4'-Dibromooctafluorobiphenyl	0.25
3,5-Dichlorobenzoic acid	0.6
2,4-Dichlorophenyl acetic acid	0.5
Dinoseb	0.4
4-Nitrophenol	1.6

1 mL in methanol:methyl tert-butyl ether

Catalog#: 5152-IPC

Derivatized Performance Check Standard

5 Certified Components:

Methyl Esters	µg/mL
4,4'-Dibromooctafluorobiphenyl	0.25
3,5-Dichlorobenzoic acid methyl ester	0.6
2,4-Dichlorophenyl acetic acid methyl ester (DCAA)	0.5
Dinoseb methyl ester	0.4
2-Methoxy-nitrobenzene	1.6

1 mL in methanol:methyl tert-butyl ether

Catalog#: 5151-PCME

Internal Standard

1 Certified Component:

4, 4'-Dibromooctafluorobiphenyl

1 mL @ 5,000 µg/mL in methanol

Catalog#: 5152-I

Surrogate Standard

1 Certified Component:

2,4-Dichlorophenyl acetic acid

1 mL @ 1,000 µg/mL in acetone

Catalog#: 5151-SA

Derivatized Surrogate Standard

1 Certified Component:

2,4-Dichlorophenyl acetic acid-methyl ester

1 mL @ 100 µg/mL in methyl tert-butyl ether

Catalog#: 5151-SME

METHOD 531.1

The US EPA method 531.1 is an HPLC analytical method that employs post-column derivatization for the N-methylcarbamoyloximes and N-methylcarbamates. A fluorescence detector is used.

■ Analyte Mix A

10 Certified Components:

Aldicarb	Carbofuran
Aldicarb sulfone	3-Hydroxycarbofuran
Aldicarb sulfoxide	Methiocarb
Baygon (Propoxur)	Methomyl
Carbaryl	Oxamyl

1 mL @ 100 µg/mL in acetonitrile

Catalog#: 5311-A10

Internal Standard

1 Certified Component:

4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (BDMC)

1 mL @ 100 µg/mL in acetonitrile

Catalog#: 531-I

Performance Check Solution

4 Certified Components:

	µg/mL
Aldicarb sulfoxide	100
3-Hydroxycarbofuran	2
Methiocarb	20
BDMC	10

1 mL in acetonitrile

Catalog#: 531-PCS

METHOD 547

Glyphosate by HPLC with a fluorescence detector.

■ Glyphosate Stock Standard

1 Certified Component:

N-phosphonomethyl glycine

1 mL @ 2,000 µg/mL in H₂O

Catalog#: 547-A

METHOD 548

The US EPA method 548 is an analytical method in which a 5 mL aliquot of sample is derivatized with PFPH. The derivatized sample is extracted utilizing solid phase extraction, then analyzed using a gas chromatograph equipped with a capillary column to perform the separation and an ECD to detect the analytes.

■ Endothall Stock Standard

1 Certified Component:

Endothall

1 mL @ 2,000 µg/mL in H₂O

Catalog#: 548-A

■ Endothall-PFPH - Stock Standard

1 Certified Component:

Endothall-PFPH

1 mL @ 2,000 µg/mL in methyl tert-butyl ether

Catalog#: 548-APFPH

Internal Standard

1 Certified Component:

Endosulfan-1

1 mL @ 2,000 µg/mL in methyl tert-butyl ether

Catalog#: 548-IS

METHOD 548.1

The US EPA method 548.1 is an analytical method in which a sample is extracted using ion-exchange, then derivatized using acidic methylation. The derivatized sample is analyzed using a gas chromatograph equipped with a capillary column to perform the separation and an MS (Mass Spectrometer) detector to detect the analytes. A GC/FID may be used, but an alternate column must confirm results.

■ Endothall Standard

1 Certified Component:

Endothall

1 mL @ 2,000 µg/mL in methanol

Catalog#: 548.1-A

■ Derivatized Endothall Standard

1 Certified Component:

Dimethyl endothall

1 mL @ 2,000 µg/mL in methanol

Catalog#: 548.1-MEO

Internal Standard

1 Certified Component:

Acenaphthene-d₁₀

1 mL @ 2,000 µg/mL in methanol

Catalog#: 548.1-IS

Tuning Standard

1 Certified Component:

Decafluorotriphenylphosphine

1 mL @ 2,500 µg/mL in methanol

Catalog#: CLPS-T

Helpful Hint:

Different derivatives available upon request.

METHOD 549.1

The US EPA method 549.1 is an analytical method in which a sample is extracted utilizing solid phase extraction, then analyzed using an HPLC system to perform the separation and a UV detector to detect the analytes.

Analyte Mix

2 Certified Components:

Diquat
Paraquat

1 mL @ 1,000 µg/mL in H₂O

Catalog#: 5491-A

METHOD 608

The US EPA method 608 is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated to 10 mL (in hexane) and a gas chromatograph equipped with a packed column to perform the separation of organochlorine pesticides and PCB's. To detect the GC eluant, an ECD (electron capture) detector is used.

Method 608 Analyte Mix

16 Certified Components:

	µg/mL		µg/mL
Aldrin	100	Dieldrin	200
α-BHC	100	Endosulfan I	200
β-BHC	100	Endosulfan II	200
γ-BHC (Lindane)	100	Endosulfan sulfate	600
δ-BHC	100	Endrin	200
4,4'-DDD	600	Endrin aldehyde	600
4,4'-DDE	200	Heptachlor	100
4,4'-DDT	600	Heptachlor epoxide	100

1 mL in methanol

Catalog#: 608-A

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Alternate High-Concentration Analyte Mix

18 Certified Components:

Aldrin	Endosulfan II
α-BHC	Endosulfan sulfate
β-BHC	Endrin
γ-BHC (Lindane)	Endrin aldehyde
δ-BHC	Endrin ketone
4,4'-DDD	Dieldrin
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide (Isomer B)
Endosulfan I	Methoxychlor

1 mL @ 2,000 µg/mL in benzene

Catalog#: 625-PH

Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane

Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-780

PCB Screening Standard

1 Certified Component:

Decachlorobiphenyl

1 mL @ 5 mg/mL in toluene

Catalog#: DCBP-XH

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Decachlorobiphenyl	2
Methyl Orange	3,600
1 mL in toluene	
Catalog#: DCBP-XH-TI	

Individual Aroclors

Two concentrations available: 200 µg/mL and 1,000 µg/mL at 1 mL each in hexane.

Conc. µg/mL	Catalog #	Certified Components:
200 µg/mL	PCB-1016	1
1,000 µg/mL	PCB-1016H	1
200 µg/mL	PCB-1221	1
1,000 µg/mL	PCB-1221H	1
200 µg/mL	PCB-1232	1
1,000 µg/mL	PCB-1232H	1
200 µg/mL	PCB-1242	1
1,000 µg/mL	PCB-1242H	1
200 µg/mL	PCB-1248	1
1,000 µg/mL	PCB-1248H	1
200 µg/mL	PCB-1254	1
1,000 µg/mL	PCB-1254H	1
200 µg/mL	PCB-1260	1
1,000 µg/mL	PCB-1260H	1
200 µg/mL	PCB-1262	1
1,000 µg/mL	PCB-1262H	1
200 µg/mL	PCB-1268	1
1,000 µg/mL	PCB-1268H	1

PCB Kit H

1 mL @ 1,000 µg/mL of each of the following in a kit:

PCB-1016H	PCB-1221H
PCB-1232H	PCB-1242H
PCB-1248H	PCB-1254H
PCB-1260H	

Catalog#: PCB-KH

PCB Kit 200

1 mL @ 200 µg/mL of each of the following in a kit:

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

Catalog#: PCB-200K

METHOD 608.1

The US EPA method 608.1, an extension of method 608, is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated to 10 mL (in Hexane) and a gas chromatograph equipped with a packed column to perform the separation of organochlorine pesticides and PCB's. To detect the GC eluant, an electron capture detector (ECD) is used.

Method 608.1 Analyte Mix

7 Certified Components:

Chlorobenzilate	Etridiazole
Chlorneb	Pentachloronitrobenzene
Chloropropylate	Propachlor
Dibromochloropropane	

1 mL @ 100 µg/mL in isooctane

Catalog#: 6081-X

METHOD 608.2

The US EPA method 608.2 (an extension of method 608) is an analytical method which utilizes a methylene chloride extraction of municipal or industrial wastewater, concentrated to 10 mL (in hexane) and a gas chromatograph equipped with a packed column to perform the separation of organochlorine pesticides and PCB's. To detect the GC eluant, an electron capture detector (ECD) is used.

Method 608.2 Analyte Mix

6 Certified Components:

Chlorothalonil	Methoxychlor
DCPA	cis-Permethrin
Dichloran	trans-Permethrin

1 mL @ 1,000 µg/mL in isooctane

Catalog#: 6082-X

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



METHOD 614

Organophosphorus Pesticides by GC/NPD

Supplied as single component standards at 1,000 µg/mL in acetone individually or as a kit. Multi-component blends are also prepared on a custom basis with analytes at concentrations that will meet your particular needs. Please call 1-800-LAB-SPEX for a prompt quotation.

■ Method 614 Analyte Mix

	Part #	Certified Components:
Demeton (O & S)	S-1140	1
Diazinon	S-1175	1
Disulfoton	S-1755	1
Ethion	S-1905	1
Malathion	S-2355	1
Parathion	S-2920	1
Parathion methyl	S-2445	1
Azinphos methyl	S-2085	1

Method 614 Kit

Contains single component standards of each of the eight analytes listed above at 1,000 µg/mL.

Catalog#: 614-SK

METHOD 614.1

Organophosphorus Pesticides by GC/NPD

Supplied as single component standards at 1,000 µg/mL in acetone individually or as a kit. Multi-component blends are also prepared on a custom basis with analytes at concentrations that will meet your particular needs. Please call 1-800-LAB-SPEX for a prompt quotation.

■ Method 614.1 Analyte Mix

	Part #	Certified Components:
Dioxathion	S-1720	1
EPN	S-1865	1
Ethion	S-1905	1
Terbufos	S-3325	1

Method 614.1 Kit

Contains single-component standards of each of the four analytes listed above at 1,000 µg/mL.

Catalog#: 6141-KIT

METHOD 615

■ Chlorinated Herbicides - Free Acids

10 Certified Components:

	µg/mL		µg/mL
2,4-D	100	Dicamba	10
2,4-DB	100	Dichloroprop	100
2,4,5-T	10	Dinoseb	50
Silvex (2,4,5-TP)	10	MCPA	10,000
Dalapon	250	MCPP	10,000

1 mL in methyl tert-butyl ether

Catalog#: 5151-A

■ Methyl Ester Derivatives

10 Certified Components:

	µg/mL		µg/mL
2,4-D	100	Dicamba	10
2,4-DB	100	Dichloroprop	100
2,4,5-T	10	Dinoseb	50
Silvex (2,4,5-TP)	10	MCPA	10,000
Dalapon	250	MCPP	10,000

1 mL in toluene

Catalog#: 5151-MEO

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METHOD 617

Chlorinated Pesticides and PCB's by GC/ECD

Analyte Mix A

18 Certified Components:

Aldrin	Endosulfan II
α -BHC	Endosulfan sulfate
β -BHC	Endrin
γ -BHC (Lindane)	Endrin aldehyde
δ -BHC	Endrin ketone
4,4'-DDD	Dieldrin
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide (Isomer B)
Endosulfan I	Methoxychlor

1 mL @ 2,000 $\mu\text{g/mL}$ in benzene

Catalog#: 625-PH

Additional Analytes

	Part #	Certified Components:
Captan	S-720	1
Carbophenothion	S-755	1
Dichloran	S-1276	1
Isodrin	S-2285	1
Mirex	S-2635	1
PCNB	S-2945	1
Perthane	S-3002	1
Trifluralin	S-3715	1
Dicofol (Kelthane)	S-2335	1

Multi-component blends for method 617 are also prepared on a custom basis with analytes at concentrations that will meet your particular needs. Please call 1-800-LAB-SPEX ext. 444 for a prompt quotation.

Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 $\mu\text{g/mL}$ in hexane

Catalog#: TOX-X

1 mL @ 1,000 $\mu\text{g/mL}$ in hexane

Catalog#: S-3535

Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 $\mu\text{g/mL}$ in hexane

Catalog#: CDANE-X

1 mL @ 1,000 $\mu\text{g/mL}$ in hexane

Catalog#: S-780

PCB Screening Standard

1 Certified Component:

Decachlorobiphenyl

1 mL @ 5 mg/mL in toluene

Catalog#: DCBP-XH

Organic Tinted Surrogate

2 Certified Components:

	$\mu\text{g/mL}$
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in toluene

Catalog#: DCBP-XH-TI

Helpful Hint:

Our custom program allows for flexibility, affordability, and a fast turn-around time (typically 24-48 hrs). Simply the best! See pages 2-3 for details or visit our web site to submit your request online: www.spexcertiprep.com/customorganics.

METHOD 618

Volatile Pesticides by GC/ECD

■ Method 618 Analyte Mix

2 Certified Components:

1,2-Dibromoethane
Chloropicrin

1 mL at 20,000 µg/mL in isoootane

Catalog#: 618-A

Internal Standard

1 Certified Component:

Bromoform

1 mL @ 20,000 µg/mL in isoootane

Catalog#: 618-I

METHOD 619

Triazine Herbicides by GC/NPD

Supplied as single component standards at 1,000 µg/mL in P&T methanol individually or as a kit. Multi-component blends are also prepared on a custom basis with analytes at concentrations that will meet your particular needs. Please call 1-800-LAB-SPEX for a prompt quotation.

■ Method 619 Analyte Mix

	Part #	Certified Components:
Ametryn	S-215	1
Atraton	S-360	1
Atrazine	S-365	1
Prometon	S-3130	1
Propazine	S-3170	1
Simetryn	S-3285	1
Simazine	S-3280	1
Terbutylazine	S-3330	1
Terbutryn	S-3335	1

Method 619 Kit

Contains single component standards of each of the nine analytes listed at 1,000 µg/mL.

Catalog#: 619-KIT

METHOD 622

Organophosphorous pesticides by GC/NPD

Analytes are supplied as single component standards at 1,000 µg/mL in hexane or as a 27-ampule kit. Multi-component blends are also prepared on a custom basis with analytes at concentrations that will meet your particular needs. Please call 1-800-LAB-SPEX for a prompt quotation.

■ Method 622 Analyte Mix

	Part #	Certified Components:
Azinphos methyl	S-2085	1
Bolstar (Sulprofos)	S-3305	1
Coumaphos	S-980	1
Chlorpyrifos	S-965	1
Demeton (O+S)	S-1140	1
Disulfoton	S-1755	1
Diazinon	S-1175	1
Dichlorvos	S-1475	1
Dimethoate	S-1560	1
EPN	S-1865	1
Ethoprop (Prophos)	S-3185	1
Fensulfothion	S-2005	1
Fenthion	S-2010	1
Malathion	S-2355	1
Merphos		
(Tributylphosphorotrithioite)	S-3565	1
Mevinphos	S-2625	1
Monocrotophos	S-2645	1
Naled (Dibrom)	S-2650	1
Parathion ethyl (Parathion)	S-2920	1
Parathion methyl		
(Methyl parathion)	S-2445	1
Phorate	S-3080	1
Ronnel (Fenclophos)	S-2000	1
TEPP	S-3315	1
Tokuthion (Prothiofos)	S-3225	1
Trichloronate	S-3570	1
Stirophos (Tetrachorvinphos)	S-3425	1
Sulfotep	S-3455	1

METHOD 627-645

Method	Catalog #	Certified Components	Component(s)	Concentration/Matrix
627	627-A	3	Isopropalin Profluralin Trifluralin	1 mL @ 1,000 µg/mL in hexane
629	629-A	1	Cyanazine	1 mL @ 1,000 µg/mL in UV methanol
632.1	6321-A	2	Napropamide Propanil	1 mL @ 1,000 µg/mL in acetonitrile:acetone (9:1)
633	633-A	7	Bromacil Deet Hexazinone Metribuzin Terbacil Triadimefon Tricyclazole	1 mL @ 1,000 µg/mL in acetone
633.1	6331-A	5	Fenarimol MGK 264-A MGK 264-B MGK 326 Pronamide	1 mL @ 1,000 µg/mL in methanol
634	634-A	6	Butylate Cycloate EPT Molinate Pebulate Vernolate	1 mL @ 1,000 µg/mL in methanol
635	635-A	1	Rotenone	1 mL @ 1,000 µg/mL in methylene chloride
636	636-A	1	Bensulide	1 mL @ 1,000 µg/mL in methanol
638	638-A	1	Oryzalin	1 mL @ 1,000 µg/mL in acetonitrile
639	639-A	1	Bendiocarb	1 mL @ 1,000 µg/mL in methanol
640	640-A	1	Mercaptobenzothiazole	1 mL @ 1,000 µg/mL in methanol
641	641-A	1	Thiabendazole	1 mL @ 1,000 µg/mL in methanol
642	642-A	2	Biphenyl o-Phenylphenol	1 mL @ 1,000 µg/mL in methanol
643	643-A	1	Bentazon	1 mL @ 1,000 µg/mL in methanol
644	644-A	1	Picloram	1 mL @ 2,000 µg/mL in methanol
645	645-A	6	Alachlor Butachlor Diphenamid Fluridone Lethane Norflurazon	1 mL @ 1,000 µg/mL in hexane

METHOD 632

The following compounds are available as 1 mL single components solutions at 1,000 µg/mL in methanol.

Component	Part #	Component	Part #
Barban	S-375	Linuron	S-2350
Carbaryl	S-725	Methiocarb	S-2385
Carbofuran	S-740	Methomyl	S-2395
Chlorpropham	S-960	Monuron	S-2647
Diuron	S-1760	Oxamyl	S-2905
Fenuron	S-2011	Propham	S-3180
Fluometuron	S-2026	Propoxur	S-3200

Please call us for a quotation on the following standards: Swep, Aminocarb, Mexacarbate, Neburon, Siduron.

■ Custom Standards

Custom standards may be the most cost-effective way to simplify your calibrations.

METHODS 8080A/8081A

The US EPA SW-846 method 8080A contains detailed operating procedures to be followed by laboratories analyzing solid and liquid matrices. Many state and federal agencies look to these methods for guidance in terms of analytical parameters. Methods 8080A and 8081A are analytical methods that use a gas chromatograph to perform the separation of the selected pesticides following concentration and clean-up of a methylene chloride extract for aqueous samples, or methylene chloride:acetone extract of solid samples. To detect the GC eluant, an electron capture detector (ECD) is used.

■ Method 8080A Pesticides Mix

18 Certified Components:

Aldrin	Endosulfan I
α-BHC	Endosulfan II
β-BHC	Endosulfan sulfate
γ-BHC (Lindane)	Endrin
δ-BHC	Endrin aldehyde
4,4'-DDD	Endrin ketone
4,4'-DDE	Heptachlor
4,4'-DDT	Heptachlor epoxide (Isomer B)
Dieldrin	Methoxychlor

1 mL @ 2,000 µg/mL in benzene
Catalog#: 625-PH

■ Method 8081A Pesticides Mix B

9 Certified Components:

Chlorobenzilate	trans-Diallate
α-Chlordane	Hexachlorobenzene
γ-Chlordane	Hexachlorocyclopentadiene
Dibromochloropropane (DBCP)	Isodrin
cis-Diallate	

1 mL @ 2,000 µg/mL in benzene
Catalog#: 8081A-B

■ Method 8081A Pesticides Mix C

18 Certified Components:

Alachlor	Mirex
Captafol	Nitrofen
Chloroneb	trans-Nonachlor
Chloropropylate	Permethrin (cis & trans)
Chlorothalonil	Captan
Dacthal (DCPA)	Perthane
Dichlone	Propachlor
Dicofol	Strobane
Etridiazole	Trifluralin

1 mL @ 1,000 µg/mL in benzene:hexane
Catalog#: 8081A-X

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane
Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane
Catalog#: S-3535

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane
Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane
Catalog#: S-780

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Tailing Test Standard

4 Certified Components:

Carbophenothion
Dichlone
Kepone
Nitrofen

1 mL @ 1,000 µg/mL in benzene:hexane

Catalog#: 8080-T

Standards for Halowax 1,000, Halowax 1001, Halowax 1013, Halowax 1014, Halowax 1051, and Halowax 1099 are available on request as custom items.

METHOD 8082

The SW-846 method 8082 is used to determine the concentration of PCB's (polychlorinated biphenyls), either as individual congeners or Aroclors. A gas chromatograph with a capillary column is used to perform the separation, and to detect the eluent an electron capture detector (ECD) or an electrolytic conductivity detector (ELCD) is used.

Initial Combination Calibration Stock Standard

2 Certified Components:

Both Aroclors present at 1,000 µg/mL

PCB 1016
PCB 1260

1 mL @ 1,000 µg/mL in hexane

Catalog#: 8082-IC

Individual Aroclors

Two concentrations available: 200 µg/mL and 1,000 µg/mL at 1 mL each in hexane.

Concentration	Catalog #	Certified Components:
200 µg/mL	PCB-1016	1
1,000 µg/mL	PCB-1016H	1
200 µg/mL	PCB-1221	1
1,000 µg/mL	PCB-1221H	1
200 µg/mL	PCB-1232	1
1,000 µg/mL	PCB-1232H	1
200 µg/mL	PCB-1242	1
1,000 µg/mL	PCB-1242H	1
200 µg/mL	PCB-1248	1
1,000 µg/mL	PCB-1248H	1
200 µg/mL	PCB-1254	1
1,000 µg/mL	PCB-1254H	1
200 µg/mL	PCB-1260	1
1,000 µg/mL	PCB-1260H	1
200 µg/mL	PCB-1262	1
1,000 µg/mL	PCB-1262H	1
200 µg/mL	PCB-1268	1
1,000 µg/mL	PCB-1268H	1

PCB Kits for Method 8082

PCB-KH contains one of each of the following: PCB-1016H, PCB-1221H, PCB-1232H, PCB-1242H, PCB-1248H, PCB-1254H, PCB-1260H.

7 ampules

Catalog#: PCB-KH

PCB-200K contains one of each of the following: PCB-1016, PCB-1221, PCB-1232, PCB-1242, PCB-1248, PCB-1254, PCB-1260.

7 ampules

Catalog#: PCB-200K

Surrogate for Aroclor Analysis

1 Certified Component:

Decachlorobiphenyl

1 mL @ 1,000 µg/mL in acetone

Catalog#: S-1100

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: S-1100-TI

Helpful Hint:

Custom synthesis available.

Call 1-800-LAB-SPEX ext. 444 for details.

Internal Standard for Individual PCB-Congener Analysis

1 Certified Component:

2,4,5,6-Tetrachloro-m-xylene

1 mL @ 1,000 µg/mL in acetone

Catalog#: S-3420

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: S-3420-TI

METHODS 8140/8141

The SW-846 methods 8140/8141 are used to analyze organophosphorous pesticides and herbicides. An extraction or direct injection may be used for sample prep. A gas chromatograph is used to perform the separation of compounds, and to detect the GC eluant either an FPD or NPD detector is used.

8140 Analyte Mix

20 Certified Components:

Bolstar	Fenthion
Chlorpyrifos	Guthion (Azinphos-methyl)
Coumophos	Merphos
Demeton, O	Methyl parathion
Demeton, S	Mevinphos
Diazinon	Phorate
Diclorovos	Ronnel
Disolfoton	Stiropfos (Tetrachlorvinphos)
Ethoprop	Tokuthion
Fensulfothion	Trichlorinate

1 mL @ 100 µg/mL in hexane:acetone

Catalog#: 8140-A

1 mL @ 200 µg/mL in hexane:acetone

Catalog#: 8140-AH

8141 Analyte Mix

25 Certified Components:

Aspon	Fenitrothion
Azinphos ethyl	Fonophos
Carbophenothion	Leptophos
Chlorfenvinphos	Malathion
Chlorpyrifos methyl	Monocrotophos
Crotoxyphos	Phosmet
Dichlofenthion	Phosphamidon
Dicrotophos	Sulfotep
Dimethoate	TEPP
Dioxathion	Terbuphos
EPN	Thionazin
Ethion	Trichlorfon
Ethyl parathion	

1 mL @ 200 µg/mL in hexane:acetone

Catalog#: 8141-AB

8141 Industrial Chemicals Mix-C

2 Certified Components:

Hexamethylphosphoramide (HMPA)

Tri-o-cresylphosphate (TOCP)

1 mL @ 200 µg/mL in hexane

Catalog#: 8141-C

8141 NPD Analytes

2 Certified Components:

Atrazine

Simazine

1 mL @ 200 µg/mL in acetone

Catalog#: 8141-D

NPD/FPD Surrogate

2 Certified Components:

Tributylphosphate

Triphenylphosphate

1 mL @ 1,000 µg/mL in acetone

Catalog#: 8141-S

Organic Tinted Surrogate

3 Certified Components:

	µg/mL
Tetrachloro-m-xylene	2
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: 8141-S-TI

NPD Surrogate**1 Certified Component:**

4-Chloro-3-nitrobenzotrifluoride

1 mL @ 1,000 µg/mL in acetone

Catalog#: S-947

Organic Tinted Surrogate**2 Certified Components:**

	µg/mL
4-Chloro-3-nitrobenzotrifluoride	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: S-947-TI

Internal Standard**1 Certified Component:**

1-Bromo-2-nitrobenzene

1 mL @ 1,000 µg/mL in acetone

Catalog#: S-590

METHODS 8150A/8150B/8151

The SW-846 methods 8150A, 8150B, and 8151 are analytical methods which utilize an extraction, esterification, and a gas chromatograph equipped with a capillary column to perform the separation of the herbicides. To detect the GC eluant, an electron capture detector (ECD) is used.

Chlorinated Herbicides as Free Acids**8 Certified Components:**

	µg/mL		µg/mL
2,4-D	100	Dalapon	250
2,4-DB	100	Dicamba	10
2,4,5-T	10	Dichloroprop	100
Silvex (2,4,5-TP)	10	Dinoseb	50

1 mL in methyl tert-butyl ether

Catalog#: 5150-A

Chlorinated Herbicides as Methyl Esters**8 Certified Components:**

	µg/mL		µg/mL
2,4-D-MeO	100	Dalapon-MeO	250
2,4-DB-MeO	100	Dicamba-MeO	10
2,4,5-T-MeO	10	Dichloroprop-MeO	100
Silvex MeO(2,4,5-TP-MeO)	10	Dinoseb-MeO	50

1 mL in toluene

Catalog#: 5150-MEO

**Chlorinated Herbicides as Free Acids-
Alternative Formulation****10 Certified Components:**

	µg/mL		µg/mL
2,4-D	100	Dicamba	10
2,4-DB	100	Dichloroprop	100
2,4,5-T	10	Dinoseb	50
Silvex (2,4,5-TP)	10	MCPA	10,000
Dalapon	250	MCP	10,000

1 mL in methyl tert-butyl ether

Catalog#: 5151-A

**Chlorinated Herbicides as Methyl Esters-
Alternative Formulation****10 Certified Components:**

	µg/mL		µg/mL
2,4-D-MeO	100	Dicamba-MeO	10
2,4-DB-MeO	100	Dichloroprop-MeO	100
2,4,5-T-MeO	10	Dinoseb-MeO	50
Silvex MeO(2,4,5-TP-MeO)	10	MCPA-MeO	10,000
Dalapon-MeO	250	MCP-MeO	10,000

1 mL in toluene

Catalog#: 5151-MEO

Method 8151A Analytes as Free Acids**17 Certified Components:****@ 100 µg/mL (except where noted)**

Acifluorfen	3,5-Dichlorobenzoic acid
Bentazon	Dichloroprop
Chloramben	Dinoseb
4-Chloro-o-tolxyacetic acid (MCPA) @ 10,000 µg/mL	Mecoprop (MCP)
2,4-D	4-Nitrophenol
2,4-DB	Pentachlorophenol
Dacthal	Picloram
Dalapon	2,4,5-TP Silvex
Dicamba	

1 mL in @ 100 µg/mL methyl tert-butyl ether

Catalog#: 8151-A

■ Method 8151A Analytes as Methyl Esters

18 Certified Components:

@ 100 µg/mL (except where noted)

Acifluorfen-MeO	3,5-Dichlorobenzoic acid-MeO
Bentazon-MeO	Dichloroprop-MeO
Chloramben-MeO	Dinoseb-MeO
4-Chloro-o-toloxoacetic acid-MeO (MCPA) @ 10,000 µg/mL	Mecoprop-MeO (MCP) @ 10,000 µg/mL
2,4-D-MeO	4-Nitroanisole
2,4-DB-MeO	Pentachloroanisole
Dacthal	Picloram-MeO
Dalapon-MeO	2,4,5-T-MeO
Dicamba-MeO	Silvex (2,4,5-TP)

1 mL in @ 100 µg/mL methyl tert-butyl ether

Catalog#: 8151A-MEO

■ Set of Chlorinated Herbicides Single-Component Standards

18 Certified Components:

@ 200 µg/mL (except where noted)

Acifluorfen	2,4-D
Bentazon	2,4-DB
Chloramben	3,5-Dichlorobenzoic acid
4-Chloro-o-toloxoacetic acid (MCPA) @ 10,000 µg/mL	Mecoprop (MCP) @ 10,000 µg/mL
Dacthal	4-Nitrophenol
Dalapon	Pentachlorophenol
Dicamba	Picloram
Dichloroprop	2,4,5-T
Dinoseb	Silvex (2,4,5-TP)

18 x 1 mL in methyl tert-butyl ether

Catalog#: 5151-H-KIT

■ Set of Herbicide Methyl Ester Singles

18 Certified Components:

@ 200 µg/mL (except where noted)

Acifluorfen-MeO	2,4-DB-MeO
Bentazon-MeO	3,5-Dichlorobenzoic acid-MeO
Chloramben-MeO	Mecoprop-MeO (MCP) @ 10,000 µg/mL
4-Chloro-o-toloxoacetic acid-MeO (MCPA) @ 10,000 µg/mL	Methyl Dacthal-MeO
Dalapon-MeO	4-Nitrophenol-MeO
Dicamba-MeO	Pentachlorophenol-MeO
Dichloroprop-MeO	Picloram-MeO
Dinoseb-MeO	2,4,5-T-MeO
2,4-D-MeO	Silvex-MeO (2,4,5-TP-MeO)

18 x 1 mL in methyl tert-butyl ether

Catalog#: 5151-HM-KIT

Performance Check Standard as Free Acids

4 Certified Components:

	µg/mL
3,5-Dichlorobenzoic acid	6,000
2,4-Dichlorophenyl acetic acid	5,000
Dinoseb	40
4-Nitrophenol	16,000

1 mL in methyl tert-butyl ether

Catalog#: 5151-PCA

Performance Check Standard as Methyl Esters

4 Certified Components:

	µg/mL
3,5-Dichloro-benzoic acid methyl ester	6
2,4-Dichlorophenyl acetic acid methyl ester (DCAA)	5
Dinoseb methyl ester	0.04
2-Methoxy-nitrobenzene	16

1 mL in methyl tert-butyl ether

Catalog#: 5151-PCME

Surrogate Standard

1 Certified Component:

2,4-Dichlorophenyl acetic acid

1 mL in methyl tert-butyl ether

Catalog#: S-1420

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
2,4-Dichlorophenyl acetic acid	2
Methyl Orange	3,600

1 mL in methyl tert-butyl ether

Catalog#: S-1420-TI

Internal Standard

1 Certified Component:

4,4'-Dibromooctafluorobiphenyl

1 mL @ 1,000 µg/mL in methyl tert-butyl ether

Catalog#: S-1250

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CLP SERIES - PESTICIDE STANDARDS

The US EPA Contract Laboratory Program (CLP) is a contract through which the US EPA may retain analytical services. The CLP contracts contain detailed operating procedures to be followed by those laboratories which are awarded the contracts. The methods are derived from SW-846 and the US EPA-Office of Research and Development. Many state and federal agencies look to the CLP methods for guidance in terms of analytical parameters as a result of the large body of performance data which has been generated to validate the CLP methods.

The CLP Pesticide analysis method, from the OLM04.1, is an analytical method which utilizes a methylene chloride extraction of aqueous sample or a methylene chloride:acetone extraction of 30 grams of solid sample, concentrated after clean-up to 10 mL, and a gas chromatograph equipped with a packed column to perform the separation of pesticides and PCB's. To detect the GC eluant, an ECD is used.

Low-Level CLP Pesticide Calibration Standards for SOW 10/92

7 Certified Components:

	µg/mL		µg/mL
γ-Chlordane	10	Endosulfan sulfate	20
γ-BHC	10	Endrin	20
4,4'-DDE	20	Heptachlor epoxide	10
Dieldrin	20		

1 mL in acetone

Catalog#: CLPP-LLA

Individual Standard A for 2/88 SOW

10 Certified Components:

	µg/mL		µg/mL
Aldrin	5	Endosulfan II	20
γ-BHC (Lindane)	5	Endrin aldehyde	25
p,p'-DDT	20	Heptachlor epoxide	10
Dieldrin	10	Heptachlor	10
Endosulfan I	10	Methoxychlor	100

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-A88

Individual Standard Mix B for CLP 2/88 SOW

11 Certified Components:

	µg/mL		µg/mL
Aldrin	5	p,p'-DDE	10
α-BHC	5	p,p'-DDD	20
β-BHC	10	Endosulfan sulfate	20
δ-BHC	10	Endrin	10
α-Chlordane	10	Endrin ketone	20
γ-Chlordane	10		

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-B88

Individual Standard Mix A for 3/90 & 7/91 SOW

9 Certified Components:

	µg/mL		µg/mL
α-BHC	5	Endosulfan I	5
γ-BHC (Lindane)	5	Endrin	10
p,p'-DDD	10	Heptachlor	5
p,p'-DDT	10	Methoxychlor	50
Dieldrin	10		

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-A90

Individual Standard Mix B for 3/90 & 7/91 SOW

11 Certified Components:

	µg/mL		µg/mL
β-BHC	5	p,p'-DDE	10
δ-BHC	5	Endosulfan sulfate	10
Aldrin	5	Endrin aldehyde	10
Heptachlor epoxide	5	Endrin ketone	10
α-Chlordane	5	Endosulfan II	10
γ-Chlordane	5		

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-B90

Helpful Hint:

Reformulated Gasoline Standards are available. The requirements are "moving targets," however, our custom program can make getting your standards very easy! Visit www.spexcetiprep.com/customorganics to request your standards today.

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane

Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-780

■ Individual Aroclors

Two concentrations available: 200 µg/mL and 1,000 µg/mL at 1 mL each in hexane.

Concentration	Catalog #
200 µg/mL	PCB-1016
1,000 µg/mL	PCB-1016H
200 µg/mL	PCB-1221
1,000 µg/mL	PCB-1221H
200 µg/mL	PCB-1232
1,000 µg/mL	PCB-1232H
200 µg/mL	PCB-1242
1,000 µg/mL	PCB-1242H
200 µg/mL	PCB-1248
1,000 µg/mL	PCB-1248H
200 µg/mL	PCB-1254
1,000 µg/mL	PCB-1254H
200 µg/mL	PCB-1260
1,000 µg/mL	PCB-1260H
200 µg/mL	PCB-1262
1,000 µg/mL	PCB-1262H
200 µg/mL	PCB-1268
1,000 µg/mL	PCB-1268H

PCB Congeners Mix for NEN 5734 – Dutch 7

7 Certified Components:

2,4,4'-Trichlorobiphenyl	2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl	2,2',4,4',5,5'-Hexachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl	2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,3',4,4',5-Pentachlorobiphenyl	

1 mL @ 10 µg/mL in isooctane

Catalog#: PCB-DUTCH7

Evaluation Standard for 2/88 SOW

3 Certified Components:

	µg/mL
Aldrin	10
Endrin	10
p,p'-DDT	20

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-E88

2/88 SOW Surrogate Spike

1 Certified Component:

Dibutylchlorendate

1 mL @ 200 µg/mL in acetone

Catalog#: DBC-X

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Dibutylchlorendate	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: DBC-X-TI

2/88-SOW Matrix Spike

6 Certified Components:

	µg/mL		µg/mL
γ-BHC (Lindane)	100	Dieldrin	250
Heptachlor	100	Endrin	250
Aldrin	100	p,p'-DDT	250

1 mL in P&T methanol

Catalog#: CLPP-MS88

Performance Evaluation Mixture for 3/90 & 7/91 SOW

6 Certified Components:

	µg/mL		µg/mL
α-BHC	1	p,p'-DDT	10
β-BHC	1	Endrin	5
γ-BHC (Lindane)	1	Methoxychlor	25

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-PEM

Need larger quantities?

Volume discounts are available!

Call us at 1-800-LAB-SPEX for more information.

■ Ready-Prep Individual Standards - Mix A for 7/91 SOW

Component	Low Point ng/mL	Mid Point ng/mL	High Point ng/mL	1,000 x Low Point ng/mL	1,000 x High Point µg/mL	1,000 x High Point µg/mL
α-BHC	5	20	80	5	80	80
γ-BHC (Lindane)	5	20	80	5	80	80
p,p'-DDD	10	40	160	10	160	160
p,p'-DDT	10	40	160	10	160	160
Dieldrin	10	40	160	10	160	160
Endosulfan I	5	20	80	5	80	80
Endrin	10	40	160	10	160	160
Heptachlor	5	20	80	5	80	80
Methoxychlor	50	200	800	50	800	800
Tetrachloro-m-xylene (surrogate)	5	20	80	5	80	0
Decachlorobiphenyl (surrogate)	10	40	160	10	160	0
Catalog#: (1 mL in isooctane)	CLPP-90-LA	CLPP-90-MA	CLPP-90-HA	CLPP-A90-S	CLPP-A90-1000-S	CLPP-A90-1000

■ Individual Standards, Ready-Prep Mix B for 7/91 SOW

Component	Low Point ng/mL	Mid Point ng/mL	High Point ng/mL	1,000 x Low Point ng/mL	1,000 x High Point µg/mL	1,000 x High Point µg/mL
β-BHC	5	20	80	5	80	80
δ-BHC	5	20	80	5	80	80
Aldrin	5	20	80	5	80	80
Heptachlor epoxide	5	20	80	5	80	80
α-Chlordane	5	20	80	5	80	80
γ-Chlordane	5	20	80	5	80	80
p,p'-DDE	10	40	160	10	160	160
Endosulfan sulfate	10	40	160	10	160	160
Endrin aldehyde	10	40	160	10	160	160
Endrin ketone	10	40	160	10	160	160
Endosulfan II	10	40	160	10	160	160
Tetrachloro-m-xylene	5	20	80	5	80	0
Decachlorobiphenyl	10	40	160	10	160	0
Catalog#: (1 mL in isooctane)	CLPP-90-LB	CLPP-90-MB	CLPP-90-HB	CLPP-B90-S	CLPP-B90-1000-S	CLPP-B90-1000

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



Resolution Check Mixture for 3/90 & 7/91 sow

7 Certified Components:

	µg/mL		µg/mL
γ-Chlordane	1	Endosulfan sulfate	2
p,p'-DDE	2	Endrin ketone	2
Dieldrin	2	Methoxychlor	10
Endosulfan 1	1		

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-RCM

Ready-Prep Pesticide Surrogate Spikes and Matrix Spikes

No dilutions required — all analytes are at the CLP recommended levels — just open and use as is!

Ready-Prep 3/90-SOW Surrogate Spike

2 Certified Components:

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	0.2
Decachlorobiphenyl	0.2

25 mL in acetone

Catalog#: CLPP-SS90-25

50 mL in acetone

Catalog#: CLPP-SS90-50

100 mL in acetone

Catalog#: CLPP-SS90-100

Organic Tinted Surrogates

3 Certified Components:

	µg/mL
Tetrachloro-m-xylene	0.2
Decachlorobiphenyl	0.2
Methyl Orange	250

25 mL in acetone

Catalog#: CLPP-SS90-25-TI

50 mL in acetone

Catalog#: CLPP-SS90-50-TI

100 mL in acetone

Catalog#: CLPP-SS90-100-TI

Ready-Prep 3/90-SOW Matrix Spike

6 Certified Components:

	µg/mL
γ-BHC (Lindane)	0.5
p,p'-DDT	2
Endrin	2
Heptachlor	0.5
Aldrin	0.5
Dieldrin	2

25 mL in methanol

Catalog#: CLPP-MS90-25

50 mL in methanol

Catalog#: CLPP-MS90-50

100 mL in methanol

Catalog#: CLPP-MS90-100

Ready-Prep 91-SOW Surrogate Spike

2 Certified Components:

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	0.1
Decachlorobiphenyl	0.2

25 mL in acetone

Catalog#: CLPP-SS91-25

50 mL in acetone

Catalog#: CLPP-SS91-50

100 mL in acetone

Catalog#: CLPP-SS91-100

Organic Tinted Surrogates

3 Certified Components:

	µg/mL
Tetrachloro-m-xylene	0.1
Decachlorobiphenyl	0.2
Methyl Orange	250

25 mL in acetone

Catalog#: CLPP-SS91-25-TI

50 mL in acetone

Catalog#: CLPP-SS91-50-TI

100 mL in acetone

Catalog#: CLPP-SS91-100-TI

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Call us at 1-800-LAB-SPEX for more information.

Ready-Prep 91-SOW Matrix Spike**6 Certified Components:**

	µg/mL
γ-BHC (Lindane)	0.5
p,p'-DDT	1
Endrin	1
Heptachlor	0.5
Aldrin	0.5
Dieldrin	1

25 mL in methanol

Catalog#: CLPP-MS91-25

50 mL in methanol

Catalog#: CLPP-MS91-50

100 mL in methanol

Catalog#: CLPP-MS91-100

3/90-SOW Surrogate Spike**2 Certified Components:**

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	200
Decachlorobiphenyl	200

1 mL in acetone

Catalog#: CLPP-S90

Organic Tinted Surrogate**3 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	2
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: CLPP-S90-TI

3/90-SOW Matrix Spike**6 Certified Components:**

	µg/mL		µg/mL
Aldrin	50	Endrin	200
Dieldrin	200	γ-BHC (Lindane)	50
p,p'-DDT	200	Heptachlor	50

1 mL in P&T methanol

Catalog#: CLPP-MS90

91-SOW Surrogate Spike**2 Certified Components:**

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	100
Decachlorobiphenyl	200

1 mL in acetone

Catalog#: CLPP-S91

Organic Tinted Surrogate**3 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	1
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: CLPP-S91-TI

91-SOW Matrix Spike**6 Certified Components:**

	µg/mL		µg/mL
Aldrin	50	Endrin	100
Dieldrin	100	γ-BHC (Lindane)	50
p,p'-DDT	100	Heptachlor	5

1 mL in methanol

Catalog#: CLPP-MS91

Ready-Prep 91-SOW Matrix Spike**6 Certified Components:**

	µg/mL		µg/mL
Aldrin	500	Endrin	1000
Dieldrin	1000	γ-BHC	500
p,p'-DDT	1000	Heptachlor	500

1 mL in methanol

Catalog#: CLPP-MS91H

Florisil Cartridge Check Solution**1 Certified Component:**

2,4,5-Trichlorophenol

1 mL @ 200 µg/mL in acetone

Catalog#: FLO-CAL

Gel Permeation Clean-up Calibration

5 Certified Components:

	GPC-CAL-91 mg/mL	GPC-CAL-93 mg/mL
Corn oil	250	250
bis-2-Ethyl-hexyl- phthalate	10	5.0
Methoxychlor	2.0	1.0
Perylene	0.2	0.2
Sulfur	0.8	0.8

5 mL in methylene chloride

Catalog#: GPC-CAL-91

5 mL in methylene chloride

Catalog#: GPC-CAL-93

TCLP SEMIVOLATILE STANDARDS

■ TCLP Herbicide Spike A

2 Certified Components:

2,4-D
2,4,5-TP

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: TCLP-H

■ Herbicide Spike A - Methyl Ester Derivatives

2 Certified Components:

2,4-D-MeO
2,4,5-TP-MeO

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: TCLP-H-MEO

■ Herbicide Spike B

2 Certified Components:

	µg/mL
2,4-D	2,000
2,4,5-TP	200

1 mL in acetone

Catalog#: TCLP-H2

■ Herbicide Spike B - Methyl Ester Derivatives

2 Certified Components:

	µg/mL
2,4-D-MeO	2,000
2,4,5-TP-MeO	200

1 mL in P&T methanol

Catalog#: TCLP-H2-MEO

■ TCLP Pesticide Spike

7 Certified Components:

γ-BHC (Lindane)	Heptachlor
α-Chlordane	Heptachlor Epoxide
γ-Chlordane	Methoxychlor
Endrin	

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: TCLP-P

■ Pesticide Spike Without Chlordane Isomers

5 Certified Components:

γ-BHC (Lindane)	Heptachlor Epoxide
Endrin	Methoxychlor
Heptachlor	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: TCLP-PNC

■ Toxaphene Stock Standard

1 Certified Component:

Toxaphene

1 mL @ 200 µg/mL in hexane

Catalog#: TOX-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-3535

■ Chlordane Stock Standard

1 Certified Component:

Technical Chlordane

1 mL @ 200 µg/mL in hexane

Catalog#: CDANE-X

1 mL @ 1,000 µg/mL in hexane

Catalog#: S-780

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■ PCB Congeners

Component Name	CAS	Description	Catalog #
2-Chlorobiphenyl	2051-60-7	PCB CONGENER BZ-1	PCB-BZ-1
3-Chlorobiphenyl	2051-61-8	PCB CONGENER BZ-2	PCB-BZ-2
4-Chlorobiphenyl	2051-62-9	PCB CONGENER BZ-3	PCB-BZ-3
2,2'-Dichlorobiphenyl	13029-08-8	PCB CONGENER BZ-4	PCB-BZ-4
2,3-Dichlorobiphenyl	16605-91-7	PCB CONGENER BZ-5	PCB-BZ-5
2,3'-Dichlorobiphenyl	25569-80-6	PCB CONGENER BZ-6	PCB-BZ-6
2,4-Dichlorobiphenyl	33284-50-3	PCB CONGENER BZ-7	PCB-BZ-7
2,4'-Dichlorobiphenyl	34883-43-7	PCB CONGENER BZ-8	PCB-BZ-8
2,5-Dichlorobiphenyl	34883-39-1	PCB CONGENER BZ-9	PCB-BZ-9
2,6-Dichlorobiphenyl	33146-45-1	PCB CONGENER BZ-10	PCB-BZ-10
3,3'-Dichlorobiphenyl	2050-67-1	PCB CONGENER BZ-11	PCB-BZ-11
3,4-Dichlorobiphenyl	2974-92-7	PCB CONGENER BZ-12	PCB-BZ-12
3,4'-Dichlorobiphenyl	2974-90-5	PCB CONGENER BZ-13	PCB-BZ-13
3,5-Dichlorobiphenyl	34883-41-5	PCB CONGENER BZ-14	PCB-BZ-14
4,4'-Dichlorobiphenyl	2050-68-2	PCB CONGENER BZ-15	PCB-BZ-15
2,2',3-Trichlorobiphenyl	38444-78-9	PCB CONGENER BZ-16	PCB-BZ-16
2,2',4-Trichlorobiphenyl	37680-66-3	PCB CONGENER BZ-17	PCB-BZ-17
2,2',5-Trichlorobiphenyl	37680-65-2	PCB CONGENER BZ-18	PCB-BZ-18
2,2',6-Trichlorobiphenyl	38444-73-4	PCB CONGENER BZ-19	PCB-BZ-19
2,3,3'-Trichlorobiphenyl	38444-84-7	PCB CONGENER BZ-20	PCB-BZ-20
2,3,4-Trichlorobiphenyl	55702-46-0	PCB CONGENER BZ-21	PCB-BZ-21
2,3,4'-Trichlorobiphenyl	38444-85-8	PCB CONGENER BZ-22	PCB-BZ-22
2,3,5-Trichlorobiphenyl	55720-44-0	PCB CONGENER BZ-23	PCB-BZ-23
2,3,6-Trichlorobiphenyl	55702-45-9	PCB CONGENER BZ-24	PCB-BZ-24
2,3',4-Trichlorobiphenyl	55712-37-3	PCB CONGENER BZ-25	PCB-BZ-25
2,3',5-Trichlorobiphenyl	38444-81-4	PCB CONGENER BZ-26	PCB-BZ-26
2,3',6-Trichlorobiphenyl	38444-76-7	PCB CONGENER BZ-27	PCB-BZ-27
2,4,4'-Trichlorobiphenyl	7012-37-5	PCB CONGENER BZ-28	PCB-BZ-28
2,4,5-Trichlorobiphenyl	15862-07-4	PCB CONGENER BZ-29	PCB-BZ-29
2,4,6-Trichlorobiphenyl	35693-92-6	PCB CONGENER BZ-30	PCB-BZ-30
2,4',5-Trichlorobiphenyl	16606-02-3	PCB CONGENER BZ-31	PCB-BZ-31
2,4',6-Trichlorobiphenyl	38444-77-8	PCB CONGENER BZ-32	PCB-BZ-32
2,3',4'-Trichlorobiphenyl	38444-86-9	PCB CONGENER BZ-33	PCB-BZ-33
2,3',5'-Trichlorobiphenyl	37680-68-5	PCB CONGENER BZ-34	PCB-BZ-34
3,3',4-Trichlorobiphenyl	37680-69-6	PCB CONGENER BZ-35	PCB-BZ-35
3,3',5-Trichlorobiphenyl	38444-87-0	PCB CONGENER BZ-36	PCB-BZ-36
3,4,4'-Trichlorobiphenyl	38444-90-5	PCB CONGENER BZ-37	PCB-BZ-37
3,4,5-Trichlorobiphenyl	53555-66-1	PCB CONGENER BZ-38	PCB-BZ-38
3,4',5-Trichlorobiphenyl	38444-88-1	PCB CONGENER BZ-39	PCB-BZ-39
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	PCB CONGENER BZ-40	PCB-BZ-40
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	PCB CONGENER BZ-41	PCB-BZ-41
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	PCB CONGENER BZ-42	PCB-BZ-42

Component Name	CAS	Description	Catalog #
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	PCB CONGENER BZ-43	PCB-BZ-43
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	PCB CONGENER BZ-44	PCB-BZ-44
2,2',3,6-Tetrachlorobiphenyl	70362-45-7	PCB CONGENER BZ-45	PCB-BZ-45
2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	PCB CONGENER BZ-46	PCB-BZ-46
2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	PCB CONGENER BZ-47	PCB-BZ-47
2,2',4,5-Tetrachlorobiphenyl	70362-47-9	PCB CONGENER BZ-48	PCB-BZ-48
2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	PCB CONGENER BZ-49	PCB-BZ-49
2,2',4,6-Tetrachlorobiphenyl	62796-65-0	PCB CONGENER BZ-50	PCB-BZ-50
2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	PCB CONGENER BZ-51	PCB-BZ-51
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	PCB CONGENER BZ-52	PCB-BZ-52
2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	PCB CONGENER BZ-53	PCB-BZ-53
2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	PCB CONGENER BZ-54	PCB-BZ-54
2,3,3',4-Tetrachlorobiphenyl	74338-24-2	PCB CONGENER BZ-55	PCB-BZ-55
2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	PCB CONGENER BZ-56	PCB-BZ-56
2,3,3',5-Tetrachlorobiphenyl	70424-67-8	PCB CONGENER BZ-57	PCB-BZ-57
2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	PCB CONGENER BZ-58	PCB-BZ-58
2,3,3',6-Tetrachlorobiphenyl	74472-33-6	PCB CONGENER BZ-59	PCB-BZ-59
2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	PCB CONGENER BZ-60	PCB-BZ-60
2,3,4,5-Tetrachlorobiphenyl	33284-53-6	PCB CONGENER BZ-61	PCB-BZ-61
2,3,4,6-Tetrachlorobiphenyl	54230-22-7	PCB CONGENER BZ-62	PCB-BZ-62
2,3,4',5-Tetrachlorobiphenyl	74472-34-7	PCB CONGENER BZ-63	PCB-BZ-63
2,3,4',6-Tetrachlorobiphenyl	52663-58-8	PCB CONGENER BZ-64	PCB-BZ-64
2,3,5,6-Tetrachlorobiphenyl	33284-54-7	PCB CONGENER BZ-65	PCB-BZ-65
2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	PCB CONGENER BZ-66	PCB-BZ-66
2,3',4,5-Tetrachlorobiphenyl	73575-53-8	PCB CONGENER BZ-67	PCB-BZ-67
2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	PCB CONGENER BZ-68	PCB-BZ-68
2,3',4,6-Tetrachlorobiphenyl	60233-24-1	PCB CONGENER BZ-69	PCB-BZ-69
2,3',4',5-Tetrachlorobiphenyl	32598-11-1	PCB CONGENER BZ-70	PCB-BZ-70
2,3',4',6-Tetrachlorobiphenyl	41464-46-4	PCB CONGENER BZ-71	PCB-BZ-71
2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	PCB CONGENER BZ-72	PCB-BZ-72
2,3',5',6-Tetrachlorobiphenyl	74338-23-1	PCB CONGENER BZ-73	PCB-BZ-73
2,4,4',5-Tetrachlorobiphenyl	32690-93-0	PCB CONGENER BZ-74	PCB-BZ-74
2,4,4',6-Tetrachlorobiphenyl	32598-12-2	PCB CONGENER BZ-75	PCB-BZ-75
2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	PCB CONGENER BZ-76	PCB-BZ-76
3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	PCB CONGENER BZ-77	PCB-BZ-77
3,3',4,5-Tetrachlorobiphenyl	70362-49-1	PCB CONGENER BZ-78	PCB-BZ-78
3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	PCB CONGENER BZ-79	PCB-BZ-79
3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	PCB CONGENER BZ-80	PCB-BZ-80
3,4,4',5-Tetrachlorobiphenyl	70362-50-4	PCB CONGENER BZ-81	PCB-BZ-81
2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	PCB CONGENER BZ-82	PCB-BZ-82
2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	PCB CONGENER BZ-83	PCB-BZ-83
2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	PCB CONGENER BZ-84	PCB-BZ-84

Component Name	CAS	Description	Catalog #
2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	PCB CONGENER BZ-85	PCB-BZ-85
2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	PCB CONGENER BZ-86	PCB-BZ-86
2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	PCB CONGENER BZ-87	PCB-BZ-87
2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	PCB CONGENER BZ-88	PCB-BZ-88
2,2',3,4,6'-Pentachlorobiphenyl	73575-57-2	PCB CONGENER BZ-89	PCB-BZ-89
2,2',3,4',5-Pentachlorobiphenyl	68194-07-0	PCB CONGENER BZ-90	PCB-BZ-90
2,2',3,4',6-Pentachlorobiphenyl	68194-05-8	PCB CONGENER BZ-91	PCB-BZ-91
2,2',3,5,5'-Pentachlorobiphenyl	52663-61-3	PCB CONGENER BZ-92	PCB-BZ-92
2,2',3,5,6-Pentachlorobiphenyl	73575-56-1	PCB CONGENER BZ-93	PCB-BZ-93
2,2',3,5,6'-Pentachlorobiphenyl	73575-55-0	PCB CONGENER BZ-94	PCB-BZ-94
2,2',3,5',6-Pentachlorobiphenyl	38379-99-6	PCB CONGENER BZ-95	PCB-BZ-95
2,2',3,6,6'-Pentachlorobiphenyl	73575-54-9	PCB CONGENER BZ-96	PCB-BZ-96
2,2',3,4',5'-Pentachlorobiphenyl	41464-51-1	PCB CONGENER BZ-97	PCB-BZ-97
2,2',3,4',6'-Pentachlorobiphenyl	60233-25-2	PCB CONGENER BZ-98	PCB-BZ-98
2,2',4,4',5-Pentachlorobiphenyl	38380-01-7	PCB CONGENER BZ-99	PCB-BZ-99
2,2',4,4',6-Pentachlorobiphenyl	39485-83-1	PCB CONGENER BZ-100	PCB-BZ-100
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	PCB CONGENER BZ-101	PCB-BZ-101
2,2',4,5,6'-Pentachlorobiphenyl	68194-06-9	PCB CONGENER BZ-102	PCB-BZ-102
2,2',4,5',6-Pentachlorobiphenyl	60145-21-3	PCB CONGENER BZ-103	PCB-BZ-103
2,2',4,6,6'-Pentachlorobiphenyl	56558-16-8	PCB CONGENER BZ-104	PCB-BZ-104
2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	PCB CONGENER BZ-105	PCB-BZ-105
2,3,3',4,5-Pentachlorobiphenyl	70424-69-0	PCB CONGENER BZ-106	PCB-BZ-106
2,3,3',4',5-Pentachlorobiphenyl	70424-68-9	PCB CONGENER BZ-107	PCB-BZ-107
2,3,3',4,5'-Pentachlorobiphenyl	70362-41-3	PCB CONGENER BZ-108	PCB-BZ-108
2,3,3',4,6-Pentachlorobiphenyl	74472-35-8	PCB CONGENER BZ-109	PCB-BZ-109
2,3,3',4',6-Pentachlorobiphenyl	38380-03-9	PCB CONGENER BZ-110	PCB-BZ-110
2,3,3',5,5'-Pentachlorobiphenyl	39635-32-0	PCB CONGENER BZ-111	PCB-BZ-111
2,3,3',5,6-Pentachlorobiphenyl	74472-36-9	PCB CONGENER BZ-112	PCB-BZ-112
2,3,3',5',6-Pentachlorobiphenyl	68194-10-5	PCB CONGENER BZ-113	PCB-BZ-113
2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	PCB CONGENER BZ-114	PCB-BZ-114
2,3,4,4',6-Pentachlorobiphenyl	74472-38-1	PCB CONGENER BZ-115	PCB-BZ-115
2,3,4,5,6-Pentachlorobiphenyl	18259-05-7	PCB CONGENER BZ-116	PCB-BZ-116
2,3,4',5,6-Pentachlorobiphenyl	68194-11-6	PCB CONGENER BZ-117	PCB-BZ-117
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	PCB CONGENER BZ-118	PCB-BZ-118
2,3',4,4',6-Pentachlorobiphenyl	56558-17-9	PCB CONGENER BZ-119	PCB-BZ-119
2,3',4,5,5'-Pentachlorobiphenyl	68194-12-7	PCB CONGENER BZ-120	PCB-BZ-120
2,3',4,5',6-Pentachlorobiphenyl	56558-18-0	PCB CONGENER BZ-121	PCB-BZ-121
2,3,3',4',5'-Pentachlorobiphenyl	76842-07-4	PCB CONGENER BZ-122	PCB-BZ-122
2,3',4,4',5'-Pentachlorobiphenyl	65510-44-3	PCB CONGENER BZ-123	PCB-BZ-123
2,3',4',5,5'-Pentachlorobiphenyl	70424-70-3	PCB CONGENER BZ-124	PCB-BZ-124
2,3',4',5',6-Pentachlorobiphenyl	74472-39-2	PCB CONGENER BZ-125	PCB-BZ-125
3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	PCB CONGENER BZ-126	PCB-BZ-126

Component Name	CAS	Description	Catalog #
3,3',4,5,5'-Pentachlorobiphenyl	39635-33-1	PCB CONGENER BZ-127	PCB-BZ-127
2,2',3,3',4,4'-Hexachlorobiphenyl	38380-07-3	PCB CONGENER BZ-128	PCB-BZ-128
2,2',3,3',4,5-Hexachlorobiphenyl	55215-18-4	PCB CONGENER BZ-129	PCB-BZ-129
2,2',3,3',4,5'-Hexachlorobiphenyl	52663-66-8	PCB CONGENER BZ-130	PCB-BZ-130
2,2',3,3',4,6-Hexachlorobiphenyl	61798-70-7	PCB CONGENER BZ-131	PCB-BZ-131
2,2',3,3',4,6'-Hexachlorobiphenyl	38380-05-1	PCB CONGENER BZ-132	PCB-BZ-132
2,2',3,3',5,5'-Hexachlorobiphenyl	35694-04-3	PCB CONGENER BZ-133	PCB-BZ-133
2,2',3,3',5,6-Hexachlorobiphenyl	52704-70-8	PCB CONGENER BZ-134	PCB-BZ-134
2,2',3,3',5,6'-Hexachlorobiphenyl	52744-13-5	PCB CONGENER BZ-135	PCB-BZ-135
2,2',3,3',6,6'-Hexachlorobiphenyl	38411-22-2	PCB CONGENER BZ-136	PCB-BZ-136
2,2',3,4,4',5-Hexachlorobiphenyl	35694-06-5	PCB CONGENER BZ-137	PCB-BZ-137
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	PCB CONGENER BZ-138	PCB-BZ-138
2,2',3,4,4',6-Hexachlorobiphenyl	56030-56-9	PCB CONGENER BZ-139	PCB-BZ-139
2,2',3,4,4',6'-Hexachlorobiphenyl	59291-64-4	PCB CONGENER BZ-140	PCB-BZ-140
2,2',3,4,5,5'-Hexachlorobiphenyl	52712-04-6	PCB CONGENER BZ-141	PCB-BZ-141
2,2',3,4,5,6-Hexachlorobiphenyl	41411-61-4	PCB CONGENER BZ-142	PCB-BZ-142
2,2',3,4,5,6'-Hexachlorobiphenyl	68194-15-0	PCB CONGENER BZ-143	PCB-BZ-143
2,2',3,4,5',6-Hexachlorobiphenyl	68194-14-9	PCB CONGENER BZ-144	PCB-BZ-144
2,2',3,4,6,6'-Hexachlorobiphenyl	74472-40-5	PCB CONGENER BZ-145	PCB-BZ-145
2,2',3,4',5,5'-Hexachlorobiphenyl	51908-16-8	PCB CONGENER BZ-146	PCB-BZ-146
2,2',3,4',5,6-Hexachlorobiphenyl	68194-13-8	PCB CONGENER BZ-147	PCB-BZ-147
2,2',3,4',5,6'-Hexachlorobiphenyl	74472-41-6	PCB CONGENER BZ-148	PCB-BZ-148
2,2',3,4',5',6-Hexachlorobiphenyl	38380-04-0	PCB CONGENER BZ-149	PCB-BZ-149
2,2',3,4',6,6'-Hexachlorobiphenyl	68194-08-1	PCB CONGENER BZ-150	PCB-BZ-150
2,2',3,5,5',6-Hexachlorobiphenyl	52663-63-5	PCB CONGENER BZ-151	PCB-BZ-151
2,2',3,5,6,6'-Hexachlorobiphenyl	68194-09-2	PCB CONGENER BZ-152	PCB-BZ-152
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	PCB CONGENER BZ-153	PCB-BZ-153
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	PCB CONGENER BZ-154	PCB-BZ-154
2,2',4,4',6,6'-Hexachlorobiphenyl	33979-03-2	PCB CONGENER BZ-155	PCB-BZ-155
2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	PCB CONGENER BZ-156	PCB-BZ-156
2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	PCB CONGENER BZ-157	PCB-BZ-157
2,3,3',4,4',6-Hexachlorobiphenyl	74472-42-7	PCB CONGENER BZ-158	PCB-BZ-158
2,3,3',4,5,5'-Hexachlorobiphenyl	39635-35-3	PCB CONGENER BZ-159	PCB-BZ-159
2,3,3',4,5,6-Hexachlorobiphenyl	41411-62-5	PCB CONGENER BZ-160	PCB-BZ-160
2,3,3',4,5',6-Hexachlorobiphenyl	74472-43-8	PCB CONGENER BZ-161	PCB-BZ-161
2,3,3',4',5,5'-Hexachlorobiphenyl	39635-34-2	PCB CONGENER BZ-162	PCB-BZ-162
2,3,3',4',5,6-Hexachlorobiphenyl	74472-44-9	PCB CONGENER BZ-163	PCB-BZ-163
2,3,3',4',5',6-Hexachlorobiphenyl	74472-45-0	PCB CONGENER BZ-164	PCB-BZ-164
2,3,3',5,5',6-Hexachlorobiphenyl	74472-46-1	PCB CONGENER BZ-165	PCB-BZ-165
2,3,4,4',5,6-Hexachlorobiphenyl	41411-63-6	PCB CONGENER BZ-166	PCB-BZ-166
2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	PCB CONGENER BZ-167	PCB-BZ-167
2,3',4,4',5',6-Hexachlorobiphenyl	59291-65-5	PCB CONGENER BZ-168	PCB-BZ-168

Component Name	CAS	Description	Catalog #
3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	PCB CONGENER BZ-169	PCB-BZ-169
2,2',3,3',4,4',5-Heptachlorobiphenyl	35065-30-6	PCB CONGENER BZ-170	PCB-BZ-170
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	PCB CONGENER BZ-171	PCB-BZ-171
2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663-74-8	PCB CONGENER BZ-172	PCB-BZ-172
2,2',3,3',4,5,6-Heptachlorobiphenyl	68194-16-1	PCB CONGENER BZ-173	PCB-BZ-173
2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411-25-5	PCB CONGENER BZ-174	PCB-BZ-174
2,2',3,3',4,5',6-Heptachlorobiphenyl	40186-70-7	PCB CONGENER BZ-175	PCB-BZ-175
2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663-65-7	PCB CONGENER BZ-176	PCB-BZ-176
2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663-70-4	PCB CONGENER BZ-177	PCB-BZ-177
2,2',3,3',5,5',6-Heptachlorobiphenyl	52663-67-9	PCB CONGENER BZ-178	PCB-BZ-178
2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663-64-6	PCB CONGENER BZ-179	PCB-BZ-179
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	PCB CONGENER BZ-180	PCB-BZ-180
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	PCB CONGENER BZ-181	PCB-BZ-181
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	PCB CONGENER BZ-182	PCB-BZ-182
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	PCB CONGENER BZ-183	PCB-BZ-183
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	PCB CONGENER BZ-184	PCB-BZ-184
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	PCB CONGENER BZ-185	PCB-BZ-185
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	PCB CONGENER BZ-186	PCB-BZ-186
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	PCB CONGENER BZ-187	PCB-BZ-187
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	PCB CONGENER BZ-188	PCB-BZ-188
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	PCB CONGENER BZ-189	PCB-BZ-189
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	PCB CONGENER BZ-190	PCB-BZ-190
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	PCB CONGENER BZ-191	PCB-BZ-191
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	PCB CONGENER BZ-192	PCB-BZ-192
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	PCB CONGENER BZ-193	PCB-BZ-193
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	PCB CONGENER BZ-194	PCB-BZ-194
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	PCB CONGENER BZ-195	PCB-BZ-195
2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	PCB CONGENER BZ-196	PCB-BZ-196
2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	PCB CONGENER BZ-197	PCB-BZ-197
2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	PCB CONGENER BZ-198	PCB-BZ-198
2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	PCB CONGENER BZ-199	PCB-BZ-199
2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	PCB CONGENER BZ-200	PCB-BZ-200
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	PCB CONGENER BZ-201	PCB-BZ-201
2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	PCB CONGENER BZ-202	PCB-BZ-202
2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	PCB CONGENER BZ-203	PCB-BZ-203
2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	PCB CONGENER BZ-204	PCB-BZ-204
2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	PCB CONGENER BZ-205	PCB-BZ-205
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	PCB CONGENER BZ-206	PCB-BZ-206
2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	PCB CONGENER BZ-207	PCB-BZ-207
2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663-77-1	PCB CONGENER BZ-208	PCB-BZ-208
Decachlorobiphenyl	2051-24-3	PCB CONGENER BZ-209	PCB-BZ-209

Petrochemical and LUST Standards

State and federal agencies require testing to identify and characterize petrochemical contamination from Leaking Underground Storage Tanks.

■ BTEX Standard

6 Certified Components:

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

1 mL @ 200 µg/mL in P&T methanol

Catalog#: BTEX

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: BTEX-H

1 mL x 4 pack

Catalog#: BTEX-H-4

■ Alternate BTEX Standard Formulations

6 Certified Components:

Benzene	200 µg/mL	o-Xylene	200 µg/mL
Toluene	200 µg/mL	m-Xylene	100 µg/mL
Ethylbenzene	200 µg/mL	p-Xylene	100 µg/mL

1 mL in P&T methanol

Catalog#: BTEX-100

1 mL in P&T methanol. Concentration is 10x greater than BTEX-100.

Catalog#: BTEX-100H

■ BTEX Characterized Gasoline Standard

Regular Unleaded Gasoline with certified benzene, ethyl benzene, toluene, and xylene concentrations. This mix is particularly useful for those who may need to calculate the concentration of either gasoline or the BTEX analytes of the sample.

Typical Formulation

1 mL in P&T methanol 20,000 µg/mL Regular Unleaded Gasoline

Catalog#: GAS-20

Levels of Benzene, Toluene, Ethylbenzene, o-xylene, m-xylene, and p-xylene will be reported on the certificate.

6 Certified Components:

Benzene	1,000 µg/mL
Toluene	800 µg/mL
Ethylbenzene	400 µg/mL
o-Xylene	200 µg/mL
m-Xylene	300 µg/mL
p-Xylene	600 µg/mL

1 mL in P&T methanol

Catalog#: GAS-20A

■ State of PA BTEX Standard

9 Certified Components:

	Concentration		Concentration
Benzene	1,000 µg/mL	Naphthalene	1,000 µg/mL
tert-Butyl methyl ether (MTBE)	2,000 µg/mL	Toluene	1,000 µg/mL
Ethylbenzene	1,000 µg/mL	o-Xylene	1,000 µg/mL
Isopropyl-benzene	1,000 µg/mL	m-Xylene	1,000 µg/mL
		p-Xylene	1,000 µg/mL

1 mL in P&T methanol

Catalog#: PA-BTEX-H

■ Purgeable Aromatics

7 Certified Components:

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

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: 602-AH

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 602-A

■ Purgeable Aromatics for Gasoline Identification

11 Certified Components:

Benzene	methyl tert-butyl ether
Chlorobenzene	Toluene
1,2-Dichlorobenzene	o-Xylene
1,3-Dichlorobenzene	m-Xylene
1,4-Dichlorobenzene	p-Xylene
Ethylbenzene	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: P-GAS

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Gasoline Range Organics

9 Certified Components:

Benzene	1,2,4-Trimethylbenzene
Ethylbenzene	2,2,4-Trimethylpentane
3-Methylpentane	o-Xylene
Naphthalene	m-Xylene
Toluene	

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: GRO-1000

Gasoline Range Organics (EPA)

9 Certified Components:

	µg/mL		µg/mL
Benzene	500	1,2,4-Trimethylbenzene	1,500
Ethylbenzene	500	2,2,4-Trimethylpentane	
Heptane	500	(isooctane)	1,500
2-Methylpentane	1,500	o-Xylene	1,500
Toluene	1,500	m-Xylene	1,500

1 mL in P&T methanol

Catalog#: GRO-EPA

Gasoline Range Organics (EPA) Alternative Formulation

10 Certified Components:

	µg/mL		µg/mL
Benzene	500	2,2,4-Trimethylpentane	1,500
Ethylbenzene	500	(isooctane)	
Heptane	500	o-Xylene	1,000
2-Methylpentane	1,500	m-Xylene	1,000
Toluene	1,500	p-Xylene	1,000
1,2,4-Trimethylbenzene	1,000		

1 mL in P&T methanol

Catalog#: GRO-EPA-2

Gasoline Range Organics (Petroleum A)

9 Certified Components:

	Conc. % v/v		Conc. % v/v
Benzene	0.05	n-Hexane	59.45
Cyclohexane	1.50	Methylcyclopentane	14.0
2,2-Dimethylpentane	0.50	2-Methylpentane	10.00
2,3-Dimethylbutane	1.00	3-Methylpentane	13.00
2,4-Dimethylpentane	0.50		

1 mL

Catalog#: GRO-9

Gasoline Range Organics (Petroleum B)

19 Certified Components:

	Conc. % v/v		Conc. % v/v
Benzene	0.10	Methylcyclohexane	2.0
Cyclohexane	2.0	Methylcyclopentane	4.0
2,4-Dimethylhexane	0.50	2-Methylheptane	0.50
2,5-Dimethylhexane	0.40	3-Methylheptane	0.50
2,2-Dimethylpentane	2.0	2-Methylhexane	25.0
2,3-Dimethylpentane	5.0	3-Methylhexane	25.0
2,4-Dimethylpentane	2.0	2-Methylpentane	0.50
Ethylcyclohexane	1.0	3-Methylpentane	0.50
n-Heptane	25.0	Toluene	2.0
n-Hexane	2.0		

1 mL

Catalog#: GRO-19

Diesel Range Organics Mix

10 Certified Components:

Decane	Eicosane
Dodecane	Docosane
Tetradecane	Tetracosane
Hexadecane	Hexacosane
Octadecane	Octacosane

1 mL @ 1,000 µg/mL in methylene chloride

Catalog#: DRO-1000

Helpful Hint:

We are continually adding compounds to our inventory. If you don't see what you need, please call us at 1-800-LAB-SPEX ext. 444. We will make every effort to meet your requirements.

■ Alkanes Reference Table

A summary of single component alkane standards & alkanes available from SPEX CertiPrep® for custom-prepared standards. SPEX CertiPrep offers all compounds listed below as 1,000 µg/mL single component standards in the matrix listed.

Component	Formula	Single-Component Standard Part #	Matrix
Methane	CH ₄	S-2379	MeOH-P&T
Ethane	C ₂ H ₆	S-1880	MeOH-P&T
Propane	C ₃ H ₈	S-3145	MeOH-P&T
Butane	C ₄ H ₁₀	S-605	MeOH-P&T
Pentane	C ₅ H ₁₂	S-2975	MeOH-P&T
Hexane	C ₆ H ₁₄	S-2190	MeOH-P&T
Heptane	C ₇ H ₁₆	S-2125	MeOH-P&T
Octane	C ₈ H ₁₈	S-2870	MeOH-P&T
Nonane	C ₉ H ₂₀	S-2785	MeOH-P&T
Decane	C ₁₀ H ₂₂	S-1112	MeCl ₂
Undecane	C ₁₁ H ₂₄	S-3780	MeOH-P&T
Dodecane	C ₁₂ H ₂₆	S-1795	MeCl ₂
Tridecane	C ₁₃ H ₂₈	S-3690	MeOH-P&T
Tetradecane	C ₁₄ H ₃₀	S-3440	MeCl ₂
Pentadecane	C ₁₅ H ₃₂	S-2960	MeOH-P&T
Hexadecane	C ₁₆ H ₃₄	S-2175	MeCl ₂
Heptadecane	C ₁₇ H ₃₆	S-2120	MeOH-P&T
Octadecane	C ₁₈ H ₃₈	S-2850	MeOH-P&T
Nonadecane	C ₁₉ H ₄₀	S-2780	MeCl ₂
Eicosane	C ₂₀ H ₄₂	S-1820	MeCl ₂
Heneicosane	C ₂₁ H ₄₄	S-2090	MeOH-P&T
Docosane	C ₂₂ H ₄₆	S-1790	MeCl ₂
Tricosane	C ₂₃ H ₄₈	S-3685	MeCl ₂
Tetracosane	C ₂₄ H ₅₀	S-3435	FREON113
Pentacosane	C ₂₅ H ₅₂	S-2955	MeCl ₂
Hexacosane	C ₂₆ H ₅₄	S-2170	MeCl ₂
Heptacosane	C ₂₇ H ₅₆	S-2115	MeCl ₂
Octacosane	C ₂₈ H ₅₈	S-2845	MeCl ₂
Nonacosane	C ₂₉ H ₆₀	S-2775	MeCl ₂
triacontane	C ₃₀ H ₆₂	S-3540	MeCl ₂
Hentriacontane	C ₃₁ H ₆₄	S-2095	MeCl ₂
Dotriacontane	C ₃₂ H ₆₆	S-1810	MeCl ₂
Trtriacontane	C ₃₃ H ₆₈	S-3775	MeCl ₂
Tetratriacontane	C ₃₄ H ₇₀	S-3485	FREON113
Pentatriacontane	C ₃₅ H ₇₂	S-2990	Hexane
Hexatriacontane	C ₃₆ H ₇₄	S-2210	P-Xylene
Octatriacontane	C ₃₈ H ₇₈	S-2886	MeOH-P&T
Tetracontane	C ₄₀ H ₈₂	S-3430	Hexane
Dotetracontane	C ₄₂ H ₈₆	S-1809	CS ₂
Tetratetracontane	C ₄₄ H ₉₀	S-3480	MeCl ₂
Hexacontane	C ₆₀ H ₁₂₂	S-2166	P-Xylene
Pentacontane	C ₅₀ H ₁₀₂	S-2953	CS ₂ /Pentane/ MeCl ₂

■ Multi-State Hydrocarbon Standard Hexane – Tetratetracontane Even Alkanes Mix (C₆-C₄₄)

20 Certified Components:

Hexane	Hexacosane
Octane	Octacosane
Decane	triacontane
Dodecane	Dotriacontane
Tetradecane	Tetratriacontane
Hexadecane	Hexatriacontane
Octadecane	Octatriacontane
Eicosane	Tetracontane
Docosane	Dotetracontane
Tetracosane	Tetratetracontane

1 mL @ 100 µg/mL in cyclohexane:CS₂

Catalog#: PROALK6-44

1 mL @ 1,000 µg/mL in cyclohexane:CS₂

Catalog#: PROALK6-44-h

■ C₁₁ through C₁₈ Alkanes Mix

8 Certified Components:

Undecane	Pentadecane
Dodecane	Hexadecane
Tridecane	Heptadecane
Tetradecane	Octadecane

1 mL @ 1,000 µg/mL in cyclohexane

Catalog#: C11-18

■ C₁₅ through C₃₅ Odd Alkanes Mix

11 Certified Components:

Pentadecane	Heptacosane
Heptadecane	Nonacosane
Nonadecane	Hentriacontane
Heneicosane	Trtriacontane
Tricosane	Pentatriacontane
Pentacosane	

1 mL @ 1,000 µg/mL methylene chloride

Catalog#: ENC-ODD-1K

■ Even Alkanes (C₁₆ through C₃₆)

11 Certified Components:

Hexadecane	Octacosane
Octadecane	triacontane
Eicosane	Dotriacontane
Docosane	Tetratriacontane
Tetracosane	Hexatriacontane
Hexacosane	

1 mL @ 1,000 µg/mL methylene chloride

Catalog#: ENC-EVEN-1K

■ State of TX – C₆-C₃₅ Alkanes

18 Certified Components:

Hexane	Pentadecane
Heptane	Hexadecane
Octane	Heptadecane
Nonane	Octadecane
Decane	Nonadecane
Undecane	Eicosane
Dodecane	Pentacosane
Tridecane	Octacosane
Tetradecane	Pentatriacontane

1 mL @ 1,000 mg/mL in pentane

Catalog#: TX-HC-18

■ Method 418.1 Petroleum Hydrocarbons Reference Oil

3 Certified Components:

	Ratio		Ratio
Hexadecane	15	Chlorobenzene	1
Isooctane	15		

1.5 mL in each ampule

Catalog#: PHC-REF-OIL

■ Method 418.1 Petroleum Hydrocarbons Reference Oil – Alternative Ratio

3 Certified Components:

	Ratio		Ratio
Hexadecane	15	Chlorobenzene	10
Isooctane	15		

1.5 mL in each ampule

Catalog#: PHC-REF-OIL-2

■ Single-Component Petrochemical Fuel Standards

Component	Concentration	Certified Components:	Catalog #
Regular Unleaded Gasoline	1 mL @ 1,000 µg/mL in methylene chloride	1	S-RG-1000
	1 mL @ 20,000 µg/mL in P&T methanol	1	S-RG-20K
Premium Unleaded Gasoline	1 mL @ 1,000 µg/mL in methylene chloride	1	S-PG-1000
	1 mL @ 20,000 µg/mL in P&T methanol	1	S-PG-20K
Motor Oil, SAE 30W	1 mL @ 1,000 µg/mL in methylene chloride	1	S-030W-1000
	1 mL @ 20,000 µg/mL in methylene chloride	1	S-030W-20K
Motor Oil, SAE 40W	1 mL @ 1,000 µg/mL in methylene chloride	1	S-040W-1000
	1 mL @ 20,000 µg/mL in methylene chloride	1	S-040W-20K
Motor Oil, SAE 50W	1 mL @ 1,000 µg/mL in methylene chloride	1	S-050W-1000
	1 mL @ 20,000 µg/mL in methylene chloride	1	S-050W-20K
#2 Diesel Fuel Oil	1 mL @ 1,000 µg/mL in P&T methanol	1	S-DF2-1000
	1 mL @ 20,000 µg/mL in methylene chloride	1	S-DF2-20K
Kerosene	1 mL @ 1,000 µg/mL in P&T methanol	1	S-K-1000
	1 mL @ 20,000 µg/mL in P&T methanol	1	S-K-20K
Jet Fuel A	1 mL @ 1,000 µg/mL in P&T methanol	1	S-JFA-1000
	1 mL @ 20,000 µg/mL in P&T methanol	1	S-JFA-20K
JP-5 Fuel	1 mL @ 1,000 µg/mL in P&T methanol	1	S-JP5-1000
	1 mL @ 20,000 µg/mL in methylene chloride	1	S-JP5-20K
JP-8 Fuel	1 mL @ 1,000 µg/mL in P&T methanol	1	S-JP8-1000
	1 mL @ 20,000 µg/mL in methylene chloride	1	S-JP8-20K
Mineral Spirits	1 mL @ 1,000 µg/mL in P&T methanol	1	S-MS-1000
	1 mL @ 20,000 µg/mL in P&T methanol	1	S-MS-20K

■ Weathered Fuel Standards

Component	Concentration	Certified Components:	Catalog #
Regular Unleaded Gasoline	25% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WG-25
	50% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WG-50
	75% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WG-75
#2 Diesel Fuel Oil	25% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WDF-25
	50% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WDF-50
	75% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WDF-75
Kerosene	25% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WK-25
	50% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WK-50
	75% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WK-75
Jet Fuel A	25% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJFA-25
	50% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJFA-50
	75% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJFA-75
JP-5 Fuel	25% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJP5-25
	50% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJP5-50
	75% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJP5-75
JP-8 Fuel	25% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJP8-25
	50% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJP8-50
	75% weathered, 1 mL @ 5,000 µg/mL in P&T methanol	1	S-WJP8-75

■ Auxiliary Standards

Surrogate

1 Certified Component:

o-Terphenyl

1 mL @ 5,000 µg/mL in methylene chloride

Catalog#: DIESEL-I

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
p-Terphenyl-d ₁₄	5,000
Methyl Orange	12,500

1 mL in methanol chloride:acetone

Catalog#: DIESEL-I-TI

Internal Standard

1 Certified Component:

5-a-Androstane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-211

Surrogate

1 Certified Component:

1-Chlorooctadecane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-893

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
1-Chlorooctadecane	1,000
Methyl Orange	2,500

1 mL in methanol

Catalog#: S-893-TI

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Hazardous Waste Standards

■ F-List Volatiles in Methanol

22 Certified Analytes:

Acetone	Tetrachloroethene
Benzene	Toluene
2-Butanone	1,1,2-Trichloro-1,2,2-trifluoroethane
Carbon tetrachloride	1,1,1-Trichloroethane
Carbon disulfide	1,1,2-Trichloroethane
Chlorobenzene	Trichloroethene
Cyclohexanone	Trichlorofluoromethane
Ethyl acetate	m-Xylene
Ethyl ether	o-Xylene
Ethylbenzene	p-Xylene
Methylene chloride	
4-Methyl-2-pentanone	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: F-VO-M2K

■ F-List Semivolatiles in Methylene Chloride

6 Certified Analytes:

o-Cresol	Nitrobenzene
m-Cresol	2-Methoxy-4-methylphenol
p-Cresol	Pyridine

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: F-SV-2K

■ Skinner List Acid Extractables

4 Certified Analytes:

o-Cresol	2,4-Dinitrophenol
m-Cresol	4-Nitrophenol
p-Cresol	Phenol
2,4-Dimethylphenol	Thiophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: SKINNER-AE

■ Skinner List Semivolatiles

25 Certified Analytes:

Anthracene	1,4 Dichlorobenzene
Benzo(a)anthracene	Di(n)octyl phthalate
Benzo(a)pyrene	Dibenz(a,h)Anthracene
Benzo(b)fluoranthene	Diethyl phthalate
Benzo(k)fluoranthene	Dimethyl phthalate
Bis(2-ethylhexyl)phthalate	Fluoranthene
Butylbenzyl phthalate	Indene
Chrysene	1-Methylnaphthalene
Di(n)butyl phthalate	Naphthalene
7,12-Dimethylbenz(a)anthracene	Phenanthrene
1,2-Dichlorobenzene	Pyrene
1,3-Dichlorobenzene	Pyridine
	Quinoline

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: SKINNER-SV

■ Skinner List Volatiles (Option A)

17 Certified Analytes:

Benzene	Ethylbenzene
Carbon Disulfide	Ethylene dibromide
Chlorobenzene	Methyl ethyl ketone
Chloroform	Styrene
1,2-Dichlorobenzene	Toluene
1,3-Dichlorobenzene	o-Xylene
1,4-Dichlorobenzene	m-Xylene
1,2-Dichloroethane	p-Xylene
1,4-Dioxane	

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: SKINNER-VO-A

■ Skinner List Volatiles (Option B)

14 Certified Analytes:

Benzene	Ethylene dibromide
Carbon Disulfide	Methyl ethyl ketone
Chlorobenzene	Styrene
Chloroform	Toluene
1,2-Dichloroethane	o-Xylene
1,4-Dioxane	m-Xylene
Ethylbenzene	p-Xylene

1 mL @ 2,000 µg/mL in P&T methanol

Catalog#: SKINNER-VO-B

Hazardous Wastes from Non-Specific Sources

■ Hexadecene Matrix Solvent Blend

These analytes are supplied in hexadecene which allows for a "solvent end."

33 Certified Analytes:

Acetone	2-Methoxy-4-methylphenol (Cresylic acid)
Benzene	4-Methyl-2-pentanone
n-Butanol	Methylene chloride
2-Butanone	Nitrobenzene
Carbon tetrachloride	2-Nitropropane
Carbon disulfide	Pyridine
Chlorobenzene	Tetrachloroethene
o-Cresol	Toluene
m-Cresol	1,1,2-Trichloro-1,2,2-trifluoroethane
p-Cresol	1,1,1-Trichloroethane
Cyclohexanone	1,1,2-Trichloroethane
2-Ethoxyethanol	Trichloroethene
Ethyl acetate	Trichlorofluoromethane
Ethyl ether	m-Xylene
Ethylbenzene	o-Xylene
Isobutanol	p-Xylene
P&T methanol	

1 mL @ 2,000 µg/mL in Hexadecene

Catalog#: FX-HDC-2K

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Your Science is Our Passion®

FAX Completed Form to 732-603-9647, or, for even faster service, complete your form online at spexcertiprep.com/customorganics

City, State, Zip: _____

ANALYTE	CAS#	CONCENTRATION/UNITS
MATRIX		

(May be subject to a 4mL minimum order)

All custom standard prices are subject to the approval of our sales department. If you have any questions, or require any technical assistance, call 1-800-LAB-SPEX ext. 444. Also, we welcome electronic submissions to crmsales@spexcsp.com or through our web site at www.spexcrtiprep.com.

Web: www.spexcertiprep.com

Web: www.spexcertiprep.co.uk

Part #:	Price Per mL	x		=	
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Company: _____ Fax: _____

Address: _____ E-mail: _____

City, State, Zip: _____

[illegible]

Amount Required: _____

(May be subject to a 4mL minimum order)

The compounds, concentrations, and matrices chosen will be reviewed by our laboratory to confirm compatibility and stability.

All custom standard prices are subject to the approval of our sales department. If you have any questions, or require any technical assistance, call 1-800-LAB-SPEX ext. 444. Also, we welcome electronic submissions to crmsales@spexcsp.com or through our web site at www.spexcertiprep.com.

Contact Information:

SPEX CertiPrep

Fax: 732-603-9647

E-mail: crmsales@spexcsp.com

Tel: 1-800-LAB-SPEX ext. 444

Web: www.spexcertiprep.com

Contact Information European Division:

SPEX CertiPrep, Ltd.

Fax: +44 (0)208 204 6654

Tel: +44 (0)208 204 6656

E-mail: sales@spexcertiprep.co.uk

Web: www.spexcertiprep.co.uk

Part #: _____ Price Per mL _____ x _____ = _____

Internal Standards, Surrogates, and Matrix Spikes

Acid Surrogate for CLP 2/88 SOW

3 Certified Components:

2-Fluorophenol
Phenol-d₅
2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-SA5

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methanol

Catalog#: CLPS-SA-TI

5 mL in methylene chloride: acetone

Catalog#: CLPS-SA5-TI

High Concentration Acid Surrogates for CLP 2/88

3 Certified Components:

2-Fluorophenol
Phenol-d₅
2,4,6-Tribromophenol

1 mL @ 10,000 µg/mL in methanol

Catalog#: CLPS-SAH

1 mL x 4 pack

Catalog#: CLPS-SAH-4

5 mL @ 10,000 µg/mL in methanol

Catalog#: CLPS-SAH5

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorophenol	10,000
Phenol-d ₆	10,000
2,4,6-Tribromophenol	10,000
Methyl Orange	12,500

1 mL in methanol

Catalog#: CLPS-SAH-TI

5 mL in methanol

Catalog#: CLPS-SAH5-TI

Acid Surrogate for CLP 3/90 and 8/94 SOW's

4 Certified Components:

2-Chlorophenol-d ₄	Phenol-d ₅
2-Fluorophenol	2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLP90-SA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLP90-SA5

Organic Tinted Surrogates

5 Certified Components:

	µg/mL
2-Chlorophenol-3,4,5,6-d ₄	2,000
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLP90-SA-TI

5 mL in methylene chloride:acetone

Catalog#: CLP90-SA5-TI

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



High Concentration Acid Surrogates

4 Certified Components:

2-Chlorophenol-d ₄	2-Fluorophenol
Phenol-d ₅	2,4,6-Tribromophenol

1 mL @ 7,500 µg/mL in methanol

Catalog#: CLP90-75SA

Organic Tinted Surrogate

5 Certified Components:

	µg/mL
2-Chlorophenol-3,4,5,6-d ₄	7,500
2-Fluorophenol	7,500
Phenol-d ₆	7,500
2,4,6-Tribromophenol	7,500
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-75SA-TI

Low Concentration Acid Surrogate

4 Certified Components:

2-Chlorophenol-d ₄	Phenol-d ₅
2-Fluorophenol	2,4,6-Tribromophenol

1 mL @ 1,500 µg/mL in methanol

Catalog#: CLP90-15SA

Organic Tinted Surrogate

5 Certified Components:

	µg/mL
2-Chlorophenol-3,4,5,6-d ₄	1,500
2-Fluorophenol	1,500
Phenol-d ₆	1,500
2,4,6-Tribromophenol	1,500
Methyl Orange	2,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-15SA-TI

Base/Neutrals Surrogate for CLP 2/88 SOW

3 Certified Components:

2-Fluorobiphenyl
Nitrobenzene-d ₅
Terphenyl-d ₁₄

1 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SB

5 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SB5

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	1,000
Nitrobenzene-d ₅	1,000
p-Terphenyl-d ₁₄	1,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SB-TI

5 mL in methylene chloride: acetone

Catalog#: CLPS-SB5-TI

High Concentration Base/Neutrals Surrogate

3 Certified Components:

2-Fluorobiphenyl
Nitrobenzene-d ₅
Terphenyl-d ₁₄

1 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SBH

5 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLPS-SBH5

1 mL x 4 pack

Catalog#: CLPS-SBH5-4

Organic Tinted Surrogates

4 Certified Components:

	µg/mL
2-Fluorobiphenyl	5,000
p-Terphenyl-d ₁₄	5,000
Nitrobenzene-d ₅	5,000
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLPS-SBH-TI

5 mL in methylene chloride:acetone:benzene

Catalog#: CLPS-SBH5-TI

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Base/Neutrals Surrogate for CLP 3/90 and 8/94 SOW's

4 Certified Components:

1,2-Dichlorobenzene-d ₄	Nitrobenzene-d ₅
2-Fluorobiphenyl	Terphenyl-d ₁₄

1 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SB

5 mL @ 1,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SB5

Organic Tinted Surrogates

5 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	1,000
2-Fluorobiphenyl	1,000
p-Terphenyl-d ₁₄	1,000
Nitrobenzene-d ₅	1,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLP90-SB-TI

5 mL in methylene chloride:acetone

Catalog#: CLP90-SB5-TI

High Concentration Base/Neutrals Surrogate

4 Certified Components:

1,2-Dichlorobenzene-d ₄	Nitrobenzene-d ₅
2-Fluorobiphenyl	Terphenyl-d ₁₄

1 mL @ 5,000 µg/mL in methylene chloride:acetone

Catalog#: CLP90-SBH

Organic Tinted Surrogate

5 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	5,000
2-Fluorobiphenyl	5,000
p-Terphenyl-d ₁₄	5,000
Nitrobenzene-d ₅	5,000
Methyl Orange	12,500

1 mL in methylene chloride:acetone:benzene

Catalog#: CLP90-SBH-TI

Combination Semivolatile Surrogates for CLP SOW 3/90 - Alternative Formulation

8 Certified Components:

2-Chlorophenol	2-Fluorobiphenyl
Nitrobenzene-d ₅	Terphenyl-d ₁₄
1,2-Dichlorobenzene-d ₄	2-Fluorophenol
Phenol-d ₅	2,4,6-Tribromophenol

1 mL @ 2,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SC2

1 mL @ 4,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLPS-SC4

Organic Tinted Surrogate

9 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	2,000
2-Fluorobiphenyl	2,000
p-Terphenyl-d ₁₄	2,000
Nitrobenzene-d ₅	2,000
2-Chlorophenol-3,4,5,6-d ₄	2,000
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	1,250

1 mL in methylene chloride:acetone

Catalog#: CLPS-SC2-TI

Organic Tinted Surrogate

9 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	4,000
2-Fluorobiphenyl	4,000
p-Terphenyl-d ₁₄	4,000
Nitrobenzene-d ₅	4,000
2-Chlorophenol-3,4,5,6-d ₄	4,000
2-Fluorophenol	4,000
Phenol-d ₆	4,000
2,4,6-Tribromophenol	4,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SC4-TI

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Combination Semivolatile Surrogates for CLP SOW 2/88

6 Certified Components:

	µg/mL		µg/mL
2-Fluorobiphenyl	1,000	2-Fluorophenol	2,000
Nitrobenzene-d ₅	1,000	Phenol-d ₅	2,000
Terphenyl-d ₁₄	1,000	2,4,6-Tribromophenol	2,000

1 mL @ in 50:50 methylene chloride:acetone

Catalog#: CLPS-SURR

Organic Tinted Surrogate

7 Certified Components:

	µg/mL
2-Fluorobiphenyl	1,000
Nitrobenzene-d ₅	1,000
p-Terphenyl-d ₁₄	1,000
2-Fluorophenol	2,000
Phenol-d ₆	2,000
2,4,6-Tribromophenol	2,000
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLPS-SURR-TI

Combination Semivolatile Surrogates for CLP SOW 3/90

8 Certified Components:

	µg/mL		µg/mL
2-Chlorophenol-d ₄	1,500	Nitrobenzene-d ₅	1,000
1,2-Dichlorobenzene-d ₄	1,000	Phenol-d ₅	1,500
2-Fluorobiphenyl	1,000	Terphenyl-d ₁₄	1,000
2-Fluorophenol	1,500	2,4,6-Tribromophenol	1,500

1 mL @ 2,000 µg/mL in 50:50 methylene chloride:acetone

Catalog#: CLP90-SURR

Organic Tinted Surrogates

9 Certified Components:

	µg/mL
1,2-Dichlorobenzene-d ₄	1,000
2-Fluorobiphenyl	1,000
p-Terphenyl-d ₁₄	1,000
Nitrobenzene-d ₅	1,000
2-Chlorophenol-3,4,5,6-d ₄	1,500
2-Fluorophenol	1,500
Phenol-d ₆	1,500
2,4,6-Tribromophenol	1,500
Methyl Orange	2,500

1 mL in methylene chloride:acetone

Catalog#: CLP90-SURR-TI

Ready-Prep Surrogate Spike

6 Certified Components:

	µg/mL		µg/mL
2-Fluorobiphenyl	100	Phenol-d ₅	200
2-Fluorophenol	200	Terphenyl-d ₁₄	100
Nitrobenzene-d ₅	100	2,4,6-Tribromophenol	200

25 mL in methylene chloride

Catalog#: CLPS-BNA-SS25

50 mL in methylene chloride

Catalog#: CLPS-BNA-SS50

100 mL in methylene chloride

Catalog#: CLPS-BNA-SS100

Organic Tinted Surrogates

7 Certified Components:

	µg/mL
2-Fluorobiphenyl	100
p-Terphenyl-d ₁₄	100
Nitrobenzene-d ₅	100
2-Fluorophenol	200
Phenol-d ₆	200
2,4,6-Tribromophenol	200
Methyl Orange	250

25 mL in methylene chloride:acetone

Catalog#: CLPS-BNA-SS25-TI

50 mL in methylene chloride:acetone

Catalog#: CLPS-BNA-SS50-TI

100 mL in methylene chloride:acetone

Catalog#: CLPS-BNA-SS100-TI

Acid Extractable Matrix Spikes

5 Certified Components:

4-Chloro-3-methylphenol	Pentachlorophenol
2-Chlorophenol	Phenol
4-Nitrophenol	

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-MSA

5 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-MSA5

Low Concentration Acid Extractable Matrix Spike for CLP 3/90 SOW

5 Certified Components:

4-Chloro-3-methylphenol	Phenol
Pentachlorophenol	4-Nitrophenol
2-Chlorophenol	

1 mL @ 2,000 µg/mL in methanol

Catalog#: CLPS-MSA15

High Concentration Acid Extractable Matrix Spikes

5 Certified Components:

Choose from two concentration levels — 7,500 or 10,000 µg/mL

4-Chloro-3-methylphenol	Phenol
Pentachlorophenol	4-Nitrophenol
2-Chlorophenol	

1 mL @ 7,500 µg/mL in methanol

Catalog#: CLPS-MSA75

Base/Neutrals Matrix Spike

6 Certified Components:

Acenaphthene	N-Nitroso-di-n-propylamine
2,4-Dinitrotoluene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene

1 mL @ 1,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB

5 mL @ 1,000 µg/mL in methylene chloride

Catalog#: CLPS-MSB5

High Concentration Base/Neutrals Matrix Spike

6 Certified Components:

Acenaphthene	N-Nitroso-di-n-propylamine
2,4-Dinitrotoluene	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene

1 mL @ 5,000 µg/mL in methylene chloride

Catalog#: CLPS-5KMSB

Ready-Prep 91-SOW Matrix Spike

6 Certified Components:

	µg/mL		µg/mL
Aldrin	500	Endrin	1000
Dieldrin	1000	γ-BHC	500
p,p'-DDT	1000	Heptachlor	500

1 mL in methanol

Catalog#: CLPP-MS91H

Ready-Prep Matrix Spike

11 Certified Components:

	µg/mL		µg/mL
Acenaphthene	100	N-Nitroso-di-n-propylamine	100
2-Chlorophenol	150	Pentachlorophenol	150
4-Chloro-3-methylphenol	150	Phenol	150
1,4-Dichlorobenzene	100	Pyrene	100
2,4-Dinitrotoluene	100	1,2,4-Trichlorobenzene	100
4-Nitrophenol	150		

25 mL in methylene chloride

Catalog#: CLPS-BNA-MS25

50 mL in methylene chloride

Catalog#: CLPS-BNA-MS50

100 mL in methylene chloride

Catalog#: CLPS-BNA-MS100

Internal Standard

6 Certified Components:

Acenaphthene-d ₁₀	Naphthalene-d ₈
Chrysene-d ₁₂	Perylene-d ₁₂
1,4-Dichlorobenzene-d ₄	Phenanthrene-d ₁₀

1 mL @ 4,000 µg/mL in methylene chloride:benzine

Catalog#: CLPS-I

1 mL x 4 pack

Catalog#: CLPS-I-4

2 mL @ 2,000 µg/mL in methylene chloride:benzine

Catalog#: CLPS-I2

1 mL @ 2,000 µg/mL in methylene chloride

Catalog#: CLPS-I90

4-Component GC/MS Tuning Standard

4 Certified Components:

Benzidine	Decafluorotriphenylphosphine
4,4-DDT	Pentachlorophenol

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPS-T4

3/90-SOW Surrogate Spike

2 Certified Components:

	µg/mL
Tetrachloro-m-xylene	200
Decachlorobiphenyl	200

1 mL in acetone

Catalog#: CLPP-S90

Organic Tinted Surrogate**3 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	2
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: CLPP-S90-TI

91-SOW Surrogate Spike**2 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	100
Decachlorobiphenyl	200

1 mL in acetone

Catalog#: CLPP-S91

Organic Tinted Surrogate**3 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	1
Decachlorobiphenyl	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: CLPP-S91-TI

Ready-Prep 3/90-SOW Surrogate Spike**2 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	0.2
Decachlorobiphenyl	0.2

25 mL in acetone

Catalog#: CLPP-SS90-25

50 mL in acetone

Catalog#: CLPP-SS90-50

100 mL in acetone

Catalog#: CLPP-SS90-100

Organic Tinted Surrogates**3 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	0.2
Decachlorobiphenyl	0.2
Methyl Orange	250

25 mL in acetone

Catalog#: CLPP-SS90-25-TI

50 mL in acetone

Catalog#: CLPP-SS90-50-TI

100 mL in acetone

Catalog#: CLPP-SS90-100-TI

Ready-Prep 91-SOW Surrogate Spike**2 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	0.1
Decachlorobiphenyl	0.2

25 mL in acetone

Catalog#: CLPP-SS91-25

50 mL in acetone

Catalog#: CLPP-SS91-50

100 mL in acetone

Catalog#: CLPP-SS91-100

Organic Tinted Surrogates**3 Certified Components:**

	µg/mL
Tetrachloro-m-xylene	0.1
Decachlorobiphenyl	0.2
Methyl Orange	250

25 mL in acetone

Catalog#: CLPP-SS91-25-TI

50 mL in acetone

Catalog#: CLPP-SS91-50-TI

100 mL in acetone

Catalog#: CLPP-SS91-100-TI

3/90-SOW Matrix Spike**6 Certified Components:**

	µg/mL		µg/mL
γ-BHC (Lindane)	50	Heptachlor	50
p,p'-DDT	200	Aldrin	50
Endrin	200	Dieldrin	200

1 mL in methanol

Catalog#: CLPP-MS90

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91-SOW Matrix Spike

6 Certified Components:

	µg/mL		µg/mL
γ-BHC (Lindane)	50	Heptachlor	5
p,p'-DDT	100	Aldrin	50
Endrin	100	Dieldrin	100

1 mL in methanol

Catalog#: CLPP-MS91

Ready-Prep 3/90-SOW Matrix Spike

6 Certified Components:

	µg/mL
γ-BHC (Lindane)	0.5
p,p'-DDT	2
Endrin	2
Heptachlor	0.5
Aldrin	0.5
Dieldrin	2

25 mL in methanol

Catalog#: CLPP-MS90-25

50 mL in methanol

Catalog#: CLPP-MS90-50

100 mL in methanol

Catalog#: CLPP-MS90-100

Ready-Prep 91-SOW Matrix Spike

6 Certified Components:

	µg/mL
γ-BHC (Lindane)	0.5
p,p'-DDT	1
Endrin	1
Heptachlor	0.5
Aldrin	0.5
Dieldrin	1

25 mL in methanol

Catalog#: CLPP-MS91-25

50 mL in methanol

Catalog#: CLPP-MS91-50

100 mL in methanol

Catalog#: CLPP-MS91-100

2/88 SOW Surrogate Spike

1 Certified Component:

Dibutylchloride

1 mL @ 200 µg/mL in acetone

Catalog#: DBC-X

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
Dibutylchloride	2
Methyl Orange	3,600

1 mL in acetone

Catalog#: DBC-X-TI

2/88-SOW Matrix Spike

6 Certified Components:

	µg/mL		µg/mL
γ-BHC (Lindane)	100	Dieldrin	250
Heptachlor	100	Endrin	250
Aldrin	100	p,p'-DDT	250

1 mL in methanol

Catalog#: CLPP-MS88

Evaluation Standard for 2/88 SOW

3 Certified Components:

	µg/mL
Aldrin	10
Endrin	10
p,p'-DDT	20

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-E88

Performance Evaluation Mixture for 3/90 & 7/91 SOW

6 Certified Components:

	µg/mL		µg/mL
α-BHC	1	p,p'-DDT	10
β-BHC	1	Endrin	5
γ-BHC (Lindane)	1	Methoxychlor	25

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-PEM

Resolution Check Mixture for 3/90 & 7/91 sow

7 Certified Components:

	µg/mL		µg/mL
γ-Chlordane	1	Endosulfan sulfate	2
p,p'-DDE	2	Endrin ketone	2
Dieldrin	2	Methoxychlor	10
Endosulfan 1	1		

1 mL in 50:50 hexane:toluene

Catalog#: CLPP-RCM

GC/MS Tuning Standard

1 Certified Component:

Decafluorotriphenylphosphine

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPS-T

Volatile Surrogate Standard (System Monitoring Compounds)

3 Certified Components:

4-Bromofluorobenzene

1,2-Dichloroethane-d₄

Toluene-d₈

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-SH

1 mL x 4 pack

Catalog#: CLPV-SH-4

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-S

High-Concentration Volatile Surrogate

3 Certified Components:

4-Bromofluorobenzene

Dibromofluoromethane

Toluene-d₈

1 mL @ 6,250 µg/mL in P&T methanol

Catalog#: 8260-SH

Internal Standard

3 Certified Components:

Bromochloromethane

1,4-Difluorobenzene

Chlorobenzene-d₅

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-IH

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: CLPV-I

Auxiliary Standards

Surrogate Standard

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in P&T methanol

Catalog#: CLPV-TH

Internal Standard

1 Certified Component:

α,α,α-Trifluorotoluene

1 mL @ 200 µg/mL in P&T methanol

Catalog#: 602-I

Combined Internal Standards

1 Certified Component:

Bromofluorobenzene

α,α,α-Trifluorotoluene

1 mL @ 200 µg/mL in P&T methanol

Catalog#: GAS-I

Surrogate

1 Certified Component:

o-Terphenyl

1 mL @ 5,000 µg/mL in methylene chloride

Catalog#: DIESEL-I

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
p-Terphenyl-d ₁₄	5,000
Methyl Orange	12,500

1 mL in methanol chloride:acetone

Catalog#: DIESEL-I-TI

Internal Standard

1 Certified Component:

5-a-Androstane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-211

Surrogate

1 Certified Component:

1-Chlorooctadecane

1 mL @ 1,000 µg/mL in P&T methanol

Catalog#: S-893

Organic Tinted Surrogate

2 Certified Components:

	µg/mL
1-Chlorooctadecane	1,000
Methyl Orange	2,500

1 mL in methanol

Catalog#: S-893-TI

BIODIESEL STANDARDS

Biodiesel is fast becoming an environmentally-friendly alternative to petroleum sources. This fuel source is obtained by esterification of oils derived from plants or animals. To meet the demands of this industry, SPEX CertiPrep offers Biodiesel Certified Reference Materials designed to save time and money by eliminating the need to prepare in-house standards. Our standards are manufactured from the highest purity starting materials and the highest grade of solvents available to guarantee superior grade standards. These standards are manufactured in a specially designed laboratory built to eliminate contamination issues that may

arise during the manufacturing process. The standards then go through a rigorous QC process where a senior chemist approves the lot. This guarantees the standards are accurate and stable at the stated concentrations for all the components. In addition, all standards are supplied with a detailed comprehensive Certificate of Analysis. The charts below outline some of the available Biodiesel Standards offered by SPEX CertiPrep. For a custom standard quote, please visit www.spexcertiprep.com/customorganics for further information.

■ Glycerides Contaminate Standards

Catalog #	Component	Concentration (µg/mL)	Matrix	Volume (mL)
BD-3509	1,3-Diolein	50	Pyridine	1
	Glycerol	5		
	Monolein	100		
	Triolein	50		
BD-3510	1,3-Diolein	100	Pyridine	1
	Glycerol	15		
	Monolein	250		
	Triolein	100		
BD-3511	1,3-Diolein	200	Pyridine	1
	Glycerol	25		
	Monolein	500		
	Triolein	200		
BD-3512	1,3-Diolein	350	Pyridine	1
	Glycerol	35		
	Monolein	750		
	Triolein	350		
BD-3513	1,3-Diolein	500	Pyridine	1
	Glycerol	50		
	Monolein	1,000		
	Triolein	500		
BD-3514	(S)-1,2,4-Butanetriol	1,000	Pyridine	5
BD-3515	Tricaprin	8,000	Pyridine	5
NEAT-4419	N-trimethylsilyl-N-methyl trifluoroacetamide (MSTFA)	Neat	N/A	5
BD-3508	Kit contains one each of BD-3509 through BD-3515			

■ Fatty Acids Methyl Esters (FAME)

Catalog #	Component	Concentration (µg/mL)	Matrix	Volume (mL)
S-4220	Methyl Caproate	1,000	Methanol	1
S-4648	Methyl Heptanoate	1,000	Methanol	1
S-4649	Methyl Caprylate	1,000	Methanol	1
S-4650	Methyl Nonanoate	1,000	Methanol	1
S-4217	Methyl Caprate	1,000	Methanol	1
S-4651	Methyl Undecanoate	1,000	Methanol	1
S-4652	Methyl Laurate	1,000	Methanol	1
S-4653	Methyl Tridecanoate	1,000	Methanol	1
S-4654	Methyl Myristate	1,000	Methanol	1
S-4655	Methyl Pentadecanoate	1,000	Methanol	1
S-4656	Methyl Palmitate	1,000	Methanol	1
S-4657	Methyl Heptadecanoate	1,000	Methanol	1
S-4658	Methyl Stearate	1,000	Methanol	1
S-4659	Methyl Nonadecanoate	1,000	Methanol	1
S-4660	Methyl Arachidate	1,000	Methanol	1
S-4661	Methyl Heneicosanoate	1,000	Methanol	1
S-4662	Methyl Behenate	1,000	Methanol	1
S-4663	Methyl Tricosanoate	1,000	Methanol	1
S-4664	Methyl Lignocerate	1,000	Methanol	1

Need larger quantities?

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Call us at 1-800-LAB-SPEX for more information.

Did You Know?...

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials. In addition to being registered as an ISO 9001:2008 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025:2005 and ISO/IEC Guide 34:2009. Our scope is the **most comprehensive** in the industry.



WINE STANDARDS

Wine is a complex combination of water, alcohol, and other substances such as organic acids, phenols, sugars, carbon dioxide, and sulfur dioxide. The chemical interactions of these compounds, combined with the aging process, determines the quality of the color, taste, and aroma of the wine. However, during this process the chemical interactions can also play key roles in spoiling the wine. For instance, cork taint transpires when naturally occurring airborne fungi are in the presence of chlorophenol compounds to form **2,4,6-trichloroanisole (TCA)** in the wine. When this occurs, the wine's aroma is reduced significantly, replaced by an undesirable smell and taste. To help regulate the spoilage of wine, the wine industry has identified and measured

several compounds that can cause this. For this industry, SPEX CertiPrep offers Wine Certified Reference Materials (CRMs) that are designed for GC, GC/MS, HPLC, and HPLC/MS analyses. These standards are manufactured from the highest purity starting materials and the highest grade of solvents available to guarantee superior grade standards. Each standard is supplied with a detailed comprehensive Certificate of Analysis. Refer below for some of the available wine standards offered by SPEX CertiPrep. For a custom standard quote, please contact your local sales representative for further information.

■ Wine Standards

Catalog #	Component	Concentration (µg/mL)	Matrix	Volume (mL)
S-133	Acetic Acid	1,000	Methanol P&T	1
S-133-W10K	Acetic Acid	10,000	Water	1
S-1885	Ethanol	1,000	Methanol P&T	1
S-1885-W2K	Ethanol	2,000	Water	1
S-1983	2-Ethylphenol	1,000	Methanol P&T	1
S-1985	4-Ethylphenol	1,000	Methanol P&T	1
S-2050	2-Fluorophenol	1,000	Methanol P&T	1
S-2930	2,3,4,5,6-Pentachloroanisole	1,000	Methanol	1
S-2950	Pentachlorophenol	1,000	Methanol	1
S-3035	Phenol-d ₆	1,000	Methanol P&T	1
S-3405	2,3,4,6-Tetrachlorophenol	1,000	Methanol	1
S-3555	2,4,6-Tribromophenol	1,000	Methanol P&T	1
S-3586	2,4,6-Trichloroanisole	1,000	Methanol	1
S-3645	2,4,6-Trichlorophenol	1,000	Methanol P&T	1
S-4168	Malic acid	1,000	Methanol P&T	1
S-4183	4-Ethyl-2-methoxyphenol	1,000	Methanol P&T	1
S-4309	2,4,6-Tribromoanisole	1,000	Methanol	1
S-4336-20	2,4,6-Trichloroanisole-d ₅	20	Methanol P&T	1
S-4336-46	2,4,6-Trichloroanisole-d ₅	46	Ethanol	1
S-4336-100	2,4,6-Trichloroanisole-d ₅	100	Methanol P&T	1
S-4335	2,4,6-Tribromophenol-d ₅	1,000	Methanol P&T	1
S-4335-100	2,4,6-Tribromophenol-d ₅	100	Methanol P&T	1
S-5005	Dextrose	1,000	Methanol P&T	1
S-609	2,3-Butanedione	1,000	Methanol P&T	1
S-905	2-Chlorophenol-3,4,5,6-d ₄	1,000	Methanol P&T	1

■ Wine Standards *(continued)*

Catalog #	Component	Concentration (µg/mL)	Matrix	Volume (mL)
WINE-1	2,4,6-Trichloroanisole-d ₅	100	Methanol	1
	Pentachloroanisole-d ₃			
	2,4,6-Tribromoanisole-d ₅			
WINE-2	2,3,4,5,6-Pentachloroanisole	100	Methanol P&T	1
	2,3,4,6-Tetrachloroanisole			
	2,4,6-Trichloroanisole			
WINE-3	Carbon disulfide	10,000	Methanol P&T	1
	Ethyl sulfide			
	Ethanethiol			
	Ethyl Disulfide			
	Ethyl Methyl Sulfide			
	2-Ethylthiophene			
	Methanethiol			
	Methyl Disulfide			
	Methyl Sulfide			
	2-Methyl-2-propanethiol			
	2-Methylthiophene			
	1-Pentanethiol			
	2-Propanethiol			
	Thiophene			

Did You Know?...

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PHARMACEUTICAL RESIDUAL SOLVENT STANDARDS

In the pharmaceutical industry, the guidelines set by the International Conference on Harmonization (ICH), and by United States Pharmacopeia (USP) and European Pharmacopeia (EP), mandate that manufacturing solvents have to be regulated due to their toxic and/or environmentally hazardous nature. For this industry, SPEX CertiPrep has created Pharmaceutical Residual Solvent Certified Reference Materials (CRMs) designed exclusively for GC, GC/MS, HPLC, and HPLC/MS analyses. These standards are made from the highest purity starting materials and the highest grade of solvents available to guarantee superior grade standards. The standards then

go through a rigorous QC process where a senior chemist approves the standards. This guarantees the standards are accurate and stable at the stated concentrations for all the components. In addition, all standards are supplied with a detailed comprehensive Certificate of Analysis. The information below outlines some of the available Pharmaceutical Residual Solvent Standards offered by SPEX CertiPrep. For a custom standard quote, please contact your local sales representative for further information.

Analyte Mix

33 Certified Components:

Acetone	Isobutyl acetate
Acetonitrile	Isopropyl acetate
Anisole	Methyl acetate
1-Butanol	3-Methyl-1-butanol
2-Butanol	2-Methyl-1-butanol
2-Butanone	4-Methyl-2-pentanone
Butyl acetate	1-Methyl-2-pyrrolidinone
1,2-Dimethoxyethane	Methyl sulfoxide
N,N-Dimethylacetamide	Nitromethane
Dimethylformamide	1-Pentanol
1,4-Dioxane	1-Propanol
Ethanol	2-Propanol
Ether	Propyl acetate
2-Ethoxyethanol	Pyridine
Ethyl acetate	Tetrahydrofuran
Ethyl formate	Tetramethylene sulfone
2-Hexanone	

1 mL @ 1,000 µg/mL in Methanol

Catalog#: USP-SOL-A

Analyte Mix

24 Certified Components:

Benzene	Isopropylbenzene
Carbon tetrachloride	Methyl-tert-butyl ether
Chlorobenzene	Methylcyclohexane
Chloroform	Methylene chloride
Cyclohexane	n-Pentane
1,2-Dichloroethane	1,2,3,4-Tetrahydronaphthalene
1,1-Dichloroethene	Toluene
cis-1,2-Dichloroethene	1,1,1-Trichloroethane
trans-1,2-Dichloroethene	Trichloroethene
Ethylbenzene	m-Xylene
n-Heptane	o-Xylene
n-Hexane	p-Xylene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: USP-SOL-B

Need larger quantities?

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Custom Standards and Packaging

We offer a wide variety of custom standards to meet your specific analytical needs.

- You can modify any of our existing mixes
- Design your own mix specific to your application
- Discuss your requirement with our chemists, allowing us to help you
- Use our newly designed SPEX CertiPrep IQ Custom Calibration/Check-out Kits

OQ/PV – OPERATIONAL QUALIFICATION AND PERFORMANCE VERIFICATION PROGRAM

To help you comply with your OQ/VP regulations, SPEX CertiPrep is now offering fast, convenient, ready-to-use **SPEX CertiPrep IQ Custom Standards Kits**. Our trained manufacturing chemists can make your standard with our high-purity compounds or you can supply us with your pre-made standards. Either way, we will package your standards into convenient single-use volumes. Each kit contains a one-year supply of standards that are made and labeled entirely to your specifications. By allowing us to manufacture and/or package your standards in our ISO-9001 facility, we can help you achieve and sustain your quality and production goals by guaranteeing homogeneity and ensuring lot-to-lot consistency.

Capabilities

- Concentration of standards: 0.01 µg/mL to 1%
- Sizes available: 1.0 mL ampules to 1L bottles
- Common standards available in various volumes: Caffeine, Acid Red, 2-Nitrophenol, etc.
- Over 4,000 organic products available
- All solvents available: Acetonitrile to Xylene
- Extensive experience in biological matrices including urine and blood

Benefits

- Complete 1-year supply of standards with SAME LOT #
- Bar coding for easy tracking of standards within lab
- Filling process tracked for guaranteed homogeneity
- Lot-to-lot consistency for seamless use through the years
- Mistake-proof instructions included for easy transition between different users

Custom Packaging

SPEX CertiPrep can provide a variety of custom packaging and/or options depending on your applications. This can be done using materials provided by you or from our own inventory.

■ Single-Component Organic Standards

The following single-component standards at 1,000 µg/mL are available as stock items from SPEX CertiPrep®. They are supplied in P&T methanol, or in another solvent when appropriate. Additional solvents include methylene chloride, acetone, benzene, hexane and acetonitrile, THF and water. Please inquire about the matrix for a particular item when ordering if the matrix is important to your application as substitutions may be possible. Concentrations other than these, as well as custom matrices, are readily available, but a minimum order of four ampules may be required in some cases.

This section also represents a partial listing of SPEX CertiPrep's chemical inventory. Please use this list of chemicals to help design your custom standards. Our list of available components is constantly increasing, so if you require a compound not found on this list, please contact us for assistance.

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
ABATE	3383-96-8	Methanol	S-102
ACAROL (BROMOPROPYLATE)	18181-80-1	Methanol (Purge & Trap Grade)	S-103
ACENAPHTHENE	83-32-9	Methylene Chloride	S-105
ACENAPHTHENE-D ₁₀	15067-26-2	Methanol (Purge & Trap Grade)	S-110
ACENAPHTHYLENE	208-96-8	Methylene Chloride	S-115
ACENAPHTHYLENE-D ₈	93951-97-4	Methylene Chloride	S-116
ACEPHATE	30560-19-1	Methanol	S-120
ACETALDEHYDE	75-07-0	Methanol (Purge & Trap Grade)	S-125
ACETALDEHYDE	75-07-0	distilled water	S-125-W
ACETALDEHYDE	75-07-0	distilled water	S-125-W1.8
ACETALDEHYDE DIMETHYL ACETAL	534-15-6	Methanol (Purge & Trap Grade)	S-1570A
2-ACETAMIDOFLUORENE	53-96-3	Methanol (Purge & Trap Grade)	S-130
ACETANILIDE	103-84-4	Methanol (Purge & Trap Grade)	S-132
ACETIC ACID	64-19-7	Methanol (Purge & Trap Grade)	S-133
ACETIC ACID, SODIUM SALT	127-09-3	distilled water	S-134
ACETIC ANHYDRIDE	108-24-7	Methanol (Purge & Trap Grade)	S-4028
ACETOCHLOR	34256-82-1	Methanol	S-135
ACETON	513-86-0	ETHANOL	S-136
ACETOL	116-09-6	Methanol (Purge & Trap Grade)	S-138
ACETONE	67-64-1	Methanol (Purge & Trap Grade)	S-140
ACETONE	67-64-1	distilled water	S-140-W
ACETONE-D ₆	666-52-4	Methanol (Purge & Trap Grade)	S-141
ACETONITRILE	75-05-8	Methanol (Purge & Trap Grade)	S-145
ACETONITRILE	75-05-8	distilled water	S-145-W1.8
ACETONITRILE-D ₃	2206-26-0	Methanol (Purge & Trap Grade)	S-146
p-ACETOPHENETIDIDE	62-44-2	Methanol (Purge & Trap Grade)	S-150
ACETOPHENONE	98-86-2	Methanol	S-155
ACETOVANILLONE	498-02-2	Methanol (Purge & Trap Grade)	S-156
1-ACETOXY-2-METHOXYETHANE	110-49-6	Methanol (Purge & Trap Grade)	S-157
1-ACETYL-2-THIOUREA	591-08-2	Methanol (Purge & Trap Grade)	S-160
ACETYLENE	74-86-2	Methanol (Purge & Trap Grade)	S-158
ACETYLENE	74-86-2	distilled water	S-158-W
2-ACETYLFURAN	1192-62-7	Methanol (Purge & Trap Grade)	S-161
1-ACETYLPYRENE	3264-21-9	Methanol (Purge & Trap Grade)	S-159
ACIFLUORFEN	50594-66-6	Methanol	S-167
ACIFLUORFEN METHYL ESTER	50594-66-6	Methanol	S-167A
ACIFLUORFEN METHYL ESTER	50594-67-7	Methanol	S-167B
ACRIDINE	260-94-6	Methanol (Purge & Trap Grade)	S-170
ACROLEIN	107-02-8	Methanol (Purge & Trap Grade)	S-175-M
ACROLEIN	107-02-8	distilled water	S-175-W
ACRYLAMIDE	79-06-1	Methanol (Purge & Trap Grade)	S-177
ACRYLAMIDE	79-06-1	distilled water	S-177-W
ACRYLIC ACID	79-10-7	Methylene Chloride	S-176
ACRYLIC ACID ISOBUTYL ESTER	106-63-8	Methanol	S-5311
ACRYLONITRILE	107-13-1	Methanol (Purge & Trap Grade)	S-180
ACTIVATED CARBON, DECOLORIZING	7440-44-0	Methanol (Purge & Trap Grade)	S-3986

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
ADIPIC ACID	124-04-9	Methanol (Purge & Trap Grade)	S-4167
ALACHLOR	15972-60-8	Methanol	S-185
ALDICARB	116-06-3	Acetonitrile	S-190
ALDICARB SULFONE	1646-88-4	Methanol (Purge & Trap Grade)	S-194
ALDICARB SULFOXIDE	1646-87-3	Acetonitrile	S-195
ALDOXYCARB	1646-88-4	Acetonitrile	S-200
ALDRIN	309-00-2	Methanol	S-205
ALLETHRIN	584-79-2	Methanol (Purge & Trap Grade)	S-4240
ALLIDOCHLOR	93-71-0	Methanol (Purge & Trap Grade)	S-4241
ALLYL ALCOHOL	107-18-6	Methanol (Purge & Trap Grade)	S-207
ALLYL CHLORIDE	107-05-1	Methanol (Purge & Trap Grade)	S-210
ALLYL ISOTHIOCYANATE	57-06-7	Methanol (Purge & Trap Grade)	S-4881
ALPHA-ALPHA-2,6-TETRACHLOROTOLUENE	81-19-6	Methanol	S-5209
ALPHA-D-GLUCOSES	492-62-6	HPLC H2O	S-2086-W
ALPHA-TERPINEOL	98-55-5	Methanol (Purge & Trap Grade)	S-4145
AMBRETTOLIDE	123-69-3	Methanol (Purge & Trap Grade)	S-651
AMETRYNE	834-12-8	Methanol (Purge & Trap Grade)	S-215
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	Methanol	S-0226
4-AMINO-2,6-DINITROTOLUENE	19406-51-0	Methanol	S-226
2-AMINO-N-ISOPROPYLBENZAMIDE	30391-89-0	Methanol (Purge & Trap Grade)	S-4184
2-AMINO-4,6-DINITROTOLUENE	35572-78-2	Methanol	S-221
2-AMINOANTHRAQUINONE	117-79-3	Methylene chloride: Benzene: Tetrahydrofuran	S-220
4-AMINOBIIPHENYL	92-67-1	Methanol (Purge & Trap Grade)	S-225
AMINOCARB	2032-59-9	Methanol (Purge & Trap Grade)	S-4280
2-(2-AMINOETHOXY)ETHANOL	929-06-6	Methanol (Purge & Trap Grade)	S-224
AMINOMETHYL PHOSPHONIC ACID	1066-51-9	Methanol (Purge & Trap Grade)	S-4006
1-AMINONAPHTHALENE	134-32-7	Methanol (Purge & Trap Grade)	S-230
2-AMINONAPHTHALENE	91-59-8	Methanol (Purge & Trap Grade)	S-235
4-AMINOPHENYLETHER	101-80-4	Methanol (Purge & Trap Grade)	S-240
AMINOTRIAZOLE	61-82-5	Acetone	S-245
AMITRAZ	33089-61-1	Methanol (Purge & Trap Grade)	S-246
AMYL ACETATE (ISOMERS OF PENTYL ACETATE AND 2-PENTYL ACETATE)	628-63-7	Methanol (Purge & Trap Grade)	S-255
TERT-AMYL ALCOHOL	75-85-4	Methanol (Purge & Trap Grade)	S-260
TERT-AMYL METHYL ETHER	994-05-8	Methanol (Purge & Trap Grade)	S-265
AMYLBENZENE	538-68-1	Methanol (Purge & Trap Grade)	S-256
2,4-DI-TERT-AMYLPHENOL	120-95-6	Methanol (Purge & Trap Grade)	S-1780
4-TERT-AMYLPHENOL	80-46-6	Methanol (Purge & Trap Grade)	S-270
5-ALPHA-ANDROSTANE	438-22-2	Methanol	S-211
ANILAZINE	101-05-3	Methanol	S-275
ANILINE	62-53-3	Methanol	S-280
o-ANISIDINE	90-04-0	Methanol (Purge & Trap Grade)	S-285
ANISOLE	100-66-3	Methanol	S-288
ANTHRACENE	120-12-7	Methylene Chloride	S-290
ANTHRACENE-D ₁₀	1719-06-8	Methylene Chloride	S-291
ANTHRAQUINONE	84-65-1	Methanol p&tac 50:50	S-295

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
A-PINENE	80-56-8	Methanol (Purge & Trap Grade)	S-4172
D-ARABINITOL	488-82-4	Methanol	S-5523
ARAMITE	140-57-8	Methylene Chloride	S-305
AROCLOR 1016	12674-11-2	Methanol	S-310
AROCLOR 1221	11104-28-2	Methanol	S-315
AROCLOR 1232	11141-16-5	Methanol	S-317
AROCLOR 1242	53469-21-9	Methanol	S-325
AROCLOR 1248	12672-29-6	Methanol (Purge & Trap Grade)	S-330
AROCLOR 1254	11097-69-1	Methanol	S-335
AROCLOR 1260	11096-82-5	Methanol	S-340
AROCLOR 1262	37324-23-5	Hexane	S-345
AROCLOR 1268	11100-14-4	Hexane	S-350
ASPON	3244-90-4	Methanol	S-355
ASULAM	3337-71-1	Methanol (Purge & Trap Grade)	S-4201
ATRATON	1610-17-9	Methanol	S-360
ATRAZINE	1912-24-9	Acetone	S-365
ATRAZINE	1912-24-9	Hexane	S-365-HEX
ATRAZINE DESETHYL	6190-65-4	Methanol	S-1145
AZINPHOS-ETHYL	2642-71-9	Acetone	S-366
AZOBEZENE	103-33-3	Methanol	S-370
AZOXYSTROBIN	131860-33-8	Methanol (Purge & Trap Grade)	S-3984
AZULENE	274-51-4	Methanol (Purge & Trap Grade)	S-372
BARBAN	101-27-9	Methanol	S-375
BAYTAN (TRIADIMENOL)	55219-65-3	Methanol (Purge & Trap Grade)	S-3996
BAYTHROID	68359-37-5	Methanol (Purge & Trap Grade)	S-376
BEAM	41814-78-2	Methanol (Purge & Trap Grade)	S-377
BENALAXYL	71626-11-4	Methanol (Purge & Trap Grade)	S-4262
BENAZOLIN	3813-05-6	Methanol (Purge & Trap Grade)	S-3956
BENDIOCARB	22781-23-3	Methanol (Purge & Trap Grade)	S-379
BENFLURALIN	1861-40-1	Methanol	S-380
BENDANIL	15310-01-7	Methanol (Purge & Trap Grade)	S-4242
BENOMYL	17804-35-2	Methanol	S-385
BENOXACOR	98730-04-2	Acetonitrile	S-5510
BENZSULFURON METHYL	83055-99-6	Acetone	S-467
BENSULIDE	741-58-2	Methanol (Purge & Trap Grade)	S-390
BENTAZON	25057-89-0	Methanol	S-395
BENTAZON METHYL ESTER	25057-89-0	Methanol	S-396
BENTHIOCARB	28249-77-6	Methanol (Purge & Trap Grade)	S-400
BENZ(b)ANTHRACENE	92-24-0	Toluene	S-426
BENZALDEHYDE	100-52-7	Methanol (Purge & Trap Grade)	S-402
BENZENE	71-43-2	Methanol (Purge & Trap Grade)	S-405
BENZENE-D ₆	1076-43-3	Methanol (Purge & Trap Grade)	S-0406
BENZIDINE	92-87-5	Methylene Chloride	S-410-MECL
BENZ(a)ANTHRACENE	56-55-3	Methylene Chloride	S-425
BENZO(a)FLUORENE	238-84-6	Methanol (Purge & Trap Grade)	S-3921
BENZO(a)PYRENE	50-32-8	Methylene Chloride	S-430
BENZO(a)PYRENE-D ₁₂	63466-71-7	Methylene Chloride	S-431
BENZO(b)FLUORANTHENE	205-99-2	Methylene Chloride	S-435
BENZO(b)THIOPHENE	95-15-8	Methanol (Purge & Trap Grade)	S-437
BENZO(c)CINNOLINE	230-17-1	Methanol (Purge & Trap Grade)	S-438
BENZO(c)PHENANTHRENE	195-19-7	Methylene Chloride	S-439
BENZO(e)PYRENE	192-97-2	Methylene Chloride	S-440
BENZO(g,h,i)PERYLENE	191-24-2	Methylene Chloride	S-445
BENZO(g,h,i)PERYLENE-D ₁₂	93951-66-7	Methanol (Purge & Trap Grade)	S-446
BENZO(j)FLUORANTHENE	205-82-3	Methylene Chloride	S-450

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
BENZO(k)FLUORANTHENE	207-08-9	Methylene Chloride	S-455
BENZOCAINE	94-09-7	Methanol	S-411
2,3-BENZOFLUORENE	243-17-4	Methanol (Purge & Trap Grade)	S-3920
2,3-BENZOFURAN	271-89-6	Methanol (Purge & Trap Grade)	S-412
BENZOIC ACID	65-85-0	Methylene Chloride	S-415
BENZONITRILE	100-47-0	Methanol (Purge & Trap Grade)	S-417
BENZOPHENONE	119-61-9	Methylene Chloride	S-418
1,4-BENZOQUINONE	106-51-4	Methanol (Purge & Trap Grade)	S-420
1,4-BENZOQUINONE DIOXIME	105-11-3	Methylene Chloride:Acetone	S-421
BENZOTHAZOLE	95-16-9	Methanol (Purge & Trap Grade)	S-422
BENZOTRIAZOLE	95-14-7	Methanol	S-4121
BENZOYL PEROXIDE	94-36-0	Methanol (Purge & Trap Grade)	S-461
BENZOYLCHLORIDE	98-88-4	Methanol (Purge & Trap Grade)	S-459
BENZOYLPROP-ETHYL	22212-55-1	Methanol (Purge & Trap Grade)	S-4271
BENZYL ALCOHOL	100-51-6	Methanol (Purge & Trap Grade)	S-460
BENZYL-2,3,4,5,6-D5 ALCOHOL	68661-10-9	Methanol (Purge & Trap Grade)	S-3936
BENZYL BENZOATE	120-51-4	Methanol (Purge & Trap Grade)	S-462
BENZYL CHLORIDE	100-44-7	Methanol (Purge & Trap Grade)	S-465
BENZYL CHLORIDE	100-44-7	Carbon Disulfide	S-465-CS2
BENZYL ETHER	103-50-4	Methanol (Purge & Trap Grade)	S-463
2-BENZYL-4-CHLOROPHENOL	120-32-1	Methylene Chloride	S-466
BETA-MYRCENE	123-35-3	Methanol (Purge & Trap Grade)	S-2654
BETA-PINENE	127-91-3	Methanol (Purge & Trap Grade)	S-3142
ALPHA-BHC	319-84-6	Methanol (Purge & Trap Grade)	S-470
BETA-BHC	319-85-7	Methanol (Purge & Trap Grade)	S-475
BETA-BHC	319-85-7	Toluene	S-475-TOL
ALPHA-BHC-D6 (ALPHA-1,2,3,4,5,6-HEXACHLOROXYCLOHEXANE-D ₆)	86194-41-4	Methanol (Purge & Trap Grade)	S-490
B-HYDROXYPROPIONIC ACID	503-66-2	Methanol (Purge & Trap Grade)	S-4197
BIFENTHRIN	82657-04-3	Acetone	S-494
BIFENOX	42576-02-3	Methanol (Purge & Trap Grade)	S-495
BIOALLETHRIN	28057-48-9	Methanol (Purge & Trap Grade)	S-496
BIPHENYL	92-52-4	Methylene Chloride	S-500
2,2'-BIQUINOLINE	119-91-5	Methanol (Purge & Trap Grade)	S-505
1,2-BIS(2-CHLOROETHOXY)ETHANE	112-26-5	Methanol (Purge & Trap Grade)	S-849
BIS[2-(2-CHLOROETHOXY)ETHYL] ETHER	638-56-2	Methanol	S-4958
BIS(2-CHLOROETHOXY)METHANE	111-91-1	Methanol (Purge & Trap Grade)	S-850
BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	Methylene Chloride	S-870
BIS-(2-ETHYLHEXYL)ADIPATE	103-23-1	Methanol (Purge & Trap Grade)	S-1965
BIS-(2-ETHYLHEXYL)HEXAHYDRO PHTHALATE	84-71-9	Methanol (Purge & Trap Grade)	S-4927
BIS-(2-ETHYLHEXYL)ISOPHTHALATES	137-89-3	Methanol (Purge & Trap Grade)	S-4928
BIS(2-ETHYLHEXYL)PHTHALATE	117-81-7	Methanol (Purge & Trap Grade)	S-1970
BIS(2-METHOXYETHYL)PHTHALATE	117-82-8	Methanol (Purge & Trap Grade)	S-4156
BIS(2-N-BUTOXYETHYL)PHTHALATE	117-83-9	Methanol (Purge & Trap Grade)	S-4152
1,1-Bis(3,4-DIMETHYLPHENYL) ETHANE	1742-14-9	Methanol (Purge & Trap Grade)	S-852
2,2-Bis(4-CHLOROPHENYL)-1,1-DICHLOROETHYLENE	72-55-9	Methanol (Purge & Trap Grade)	S-508
BIS(4-METHYL-2-PENTYL)PHTHALATE	146-50-9	Methanol (Purge & Trap Grade)	S-4154
BIS(CHLOROMETHYL) ETHER	542-88-1	Methanol	S-880
BIS(CHLOROMETHYL) ETHER	542-88-1	Acetone	S-880-A
BIS(CHLOROMETHYL) ETHER	542-88-1	Hexane	S-880-H
2,2-BIS-(HYDROXYMETHYL)-PROPIONIC ACID	4767-63-7	Methanol (Purge & Trap Grade)	S-4029
4-((4,6-Bis(OCTYLTHIO)-S-TRIAZIN-2-YL)-2,6-DI-TERT-BUTYLPHENOL [IRGANOX 565]	991-84-4	Methanol (Purge & Trap Grade)	S-3901
BISABOLENE	495-62-5	Methanol (Purge & Trap Grade)	S-502
BISPHENOL A	80-05-7	Methylene Chloride	S-509

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
BIPHENOL A DIGLYCIDYL ETHER	1675-54-3	Acetonitrile	S-511
BIS(4-HYDROXYPHENYL)-METHANE	620-92-8	Methanol (Purge & Trap Grade)	S-512
BIPHENOL F DIGLYCIDYL ETHER	2095-03-6	Acetonitrile	S-507
BLADEX	21725-46-2	Methanol (Purge & Trap Grade)	S-510
BORON TRICHLORIDE	10294-34-5	Methylene Chloride	S-516
BORON TRIFLUORIDE	373-57-9	Methanol	S-517
BROMACIL	314-40-9	Methanol	S-515
2-BROMO-1-CHLOROPROPANE	3017-95-6	Methanol (Purge & Trap Grade)	S-580
A-BROMO-2,3,4,5,6-PENTAFLUOROTOLUENE (PFBBR)	1765-40-8	Methanol (Purge & Trap Grade)	S-585
1-BROMO-2-CHLOROETHANE	107-04-0	Methanol (Purge & Trap Grade)	S-587
1-BROMO-2-ETHYLBENZENE	1973-22-4	Methanol (Purge & Trap Grade)	S-589
1-BROMO-2-NITROBENZENE	577-19-5	Methanol (Purge & Trap Grade)	S-590
4-BROMO-3,5-DIMETHYLPHENYL-N-METHYLCARBAMATE	672-99-1	Methanol (Purge & Trap Grade)	S-591
1-BROMO-4-ETHYLBENZENE	1585-07-5	Methanol (Purge & Trap Grade)	S-592
1-BROMO-4-FLUOROBENZENE	460-00-4	Methanol (Purge & Trap Grade)	S-593
BROMOACETIC ACID	79-08-3	Methyl-tert-Butyl Ether	S-520
BROMOACETONE	598-31-2	Methanol (Purge & Trap Grade)	S-522
3'-BROMOACETOPHENONE	2142-63-4	Methanol (Purge & Trap Grade)	S-524
BROMOBENZENE	108-86-1	Methanol (Purge & Trap Grade)	S-525
BROMOCHLOROACETIC ACID	5589-96-8	Methyl-tert-Butyl Ether	S-530
BROMODICHLOROACETIC ACID	71133-14-7	Methyl-tert-Butyl Ether	S-536
2-BROMOCHLOROENZENE	694-80-4	Methanol (Purge & Trap Grade)	S-533
3-BROMOCHLOROENZENE	108-37-2	Methanol (Purge & Trap Grade)	S-531
4-BROMOCHLOROENZENE	106-39-8	Methanol (Purge & Trap Grade)	S-534
BROMOCHLOROMETHANE	74-97-5	Methanol (Purge & Trap Grade)	S-535
BROMODICHLOROMETHANE	75-27-4	Methanol (Purge & Trap Grade)	S-542
4-BROMODIPHENYL ETHER	101-55-3	Methanol (Purge & Trap Grade)	S-545
BROMOETHANE	74-96-4	Methanol (Purge & Trap Grade)	S-547
4-BROMOFLUOROBENZENE	460-00-4	Methanol (Purge & Trap Grade)	S-550
BROMOFORM	75-25-2	Methanol (Purge & Trap Grade)	S-555
BROMOMETHANE	74-83-9	Methanol (Purge & Trap Grade)	S-560
2-BROMONAPHTHALENE	580-13-2	Methanol	S-559
BROMOPENTAFLUOROBENZENE	344-04-7	Methanol (Purge & Trap Grade)	S-561
BROMOPHENOL BLUE	115-39-9	Methanol (Purge & Trap Grade)	S-562
2-BROMOPHENOL	95-56-7	Methanol	S-5146
4-BROMOPHENOL	106-41-2	Methanol	S-4290
BROMOPHOS-ETHYL	4824-78-6	Methanol (Purge & Trap Grade)	S-565
BROMOPHOS-METHYL	2104-96-3	Methanol (Purge & Trap Grade)	S-570
2-BROMOPROPIONIC ACID	598-72-1	Methanol (Purge & Trap Grade)	S-572
3-BROMOPROPIONIC ACID	590-92-1	Methanol (Purge & Trap Grade)	S-574
BROMOXYNIL	1689-84-5	Methanol (Purge & Trap Grade)	S-575
BROMOXYNIL METHYL ESTER	N/A	Methanol	S-576
BROMOXYNIL OCTANOIC ACID ESTER	1689-99-2	Methanol (Purge & Trap Grade)	S-577
2-BROMPHENOL	95-56-7	Methanol	S-5146
BRUCINE	357-57-3	Acetonitrile	S-594
BUPIRIMATE	41483-43-6	Methanol (Purge & Trap Grade)	S-4272
BUPROFEZIN	69327-76-0	Toluene	S-4254
BUTACHLOR	23184-66-9	Methanol	S-595
1,3-BUTADIENE DIEPOXIDE-(+/-)	1464-53-5	Methanol (Purge & Trap Grade)	S-602
1,3-BUTADIENE	106-99-0	Methanol (Purge & Trap Grade)	S-600
N-BUTANE	106-97-8	Methanol (Purge & Trap Grade)	S-605
1,3-BUTANEDIOL	107-88-0	Methanol (Purge & Trap Grade)	S-607
2,3-BUTANEDIOL	513-85-9	Methanol (Purge & Trap Grade)	S-4193
2,3-BUTANEDIONE	431-03-8	Methanol (Purge & Trap Grade)	S-609
1-BUTANETHIOL	109-79-5	Methanol (Purge & Trap Grade)	S-608
1-BUTANOL	71-36-3	Methanol (Purge & Trap Grade)	S-610

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-BUTANOL	15892-23-6	Methanol (Purge & Trap Grade)	S-615
1-BUTANOL-D ₁₀	34193-38-9	Methanol (Purge & Trap Grade)	S-4323
2-BUTANONE	78-93-3	Methanol (Purge & Trap Grade)	S-620
1-BUTENE	106-98-9	Methanol (Purge & Trap Grade)	S-621
2-BUTENE-1,4-DIOL	110-64-5	Methanol (Purge & Trap Grade)	S-625
CIS-2-BUTENE	590-18-1	Methanol (Purge & Trap Grade)	S-622
2-BUTOXYETHANOL	111-76-2	Methanol (Purge & Trap Grade)	S-630
2-BUTOXYETHYL ACETATE	112-07-2	Methanol (Purge & Trap Grade)	S-631
BUTRALIN	32629-47-9	Methanol (Purge & Trap Grade)	S-4273
BUTYL ACETATE	123-86-4	Methanol (Purge & Trap Grade)	S-635
BUTYL ACRYLATE	141-32-2	Methanol (Purge & Trap Grade)	S-655
TERT-BUTYL ALCOHOL-D ₁₀	53001-22-2	Methanol (Purge & Trap Grade)	S-654
TERT-BUTYL ALCOHOL	75-65-0	Methanol (Purge & Trap Grade)	S-3365
BUTYL CARBITOL ACETATE	124-17-4	Methanol (Purge & Trap Grade)	S-640
BUTYL ETHER	142-96-1	Methanol	S-5134
TERT-BUTYL ETHYL ETHER	637-92-3	Methanol (Purge & Trap Grade)	S-645
BUTYL FORMATE	592-28-7	Methanol (Purge & Trap Grade)	S-647
BUTYL 4-HYDROXYBENZOATE	94-26-8	Methanol	S-5123
TERT-BUTYL FORMATE	762-75-4	Methanol (Purge & Trap Grade)	S-646
TERT-BUTYL METHYL ETHER	1634-04-4	Methanol (Purge & Trap Grade)	S-650
TERT-BUTYL METHYL-D ₃ ETHER	29366-08-3	Methanol (Purge & Trap Grade)	S-2455C
DI-N-BUTYL PHTHALATE	84-74-2	Methanol (Purge & Trap Grade)	S-1770
3,5-DI-TERT-BUTYL-4-HYDROXYHYDROCINNAMATE [IRGANOX 1076]	2082-79-3	Methanol (Purge & Trap Grade)	S-3900
2,6-DI-TERT-BUTYL-4-METHYLPHENOL	128-37-0	Methanol (Purge & Trap Grade)	S-1785
BUTYLAMINE	109-73-9	Methanol (Purge & Trap Grade)	S-657
TERT-BUTYLAMINE	75-64-9	Methanol (Purge & Trap Grade)	S-3366
BUTYLATE	2008-41-5	Methanol	S-660
BUTYLATED HYDROXYANISOLE	25013-16-5	Methanol (Purge & Trap Grade)	S-662
N-BUTYLBENZENE	104-51-8	Methanol (Purge & Trap Grade)	S-665
SEC-BUTYLBENZENE	135-98-8	Methanol (Purge & Trap Grade)	S-670
N-BUTYL ISOCYANATE	111-36-4	Acetone	S-4883
N-BUTYL ISOCYANATE	111-36-4	Acetone	S-4883-AC
N-N-BUTYLBENZENESULFONAMIDE	3622-84-2	Methanol (Purge & Trap Grade)	S-677
TERT-BUTYLBENZENE	98-06-6	Methanol (Purge & Trap Grade)	S-675
BUTYLBENZYL PHTHALATE	85-68-7	Methylene Chloride	S-680-MECL
4-TERT-BUTYLCATECHECHOL	98-29-3	Methanol (Purge & Trap Grade)	S-685
SEC-BUTYLCYCLOHEXANE	7058-01-7	Methanol (Purge & Trap Grade)	S-687
TERT-BUTYLHYDROQUINONE	1948-33-0	Acetone	S-648
4,4'-BUTYLIDENE BIS (6-TERT-BUTYL-M-CRESOL)	85-60-9	Methanol (Purge & Trap Grade)	S-690
4-TERT-BUTYLPHENOL	98-54-4	Methanol (Purge & Trap Grade)	S-693
4-TERT-BUTYLTOLUENE	98-51-1	Methanol (Purge & Trap Grade)	S-695
BUTYRALDEHYDE	123-72-8	Methanol (Purge & Trap Grade)	S-700
BUTYRIC ACID	107-92-6	distilled water	S-702
A ₁ BUTYROLACTONE	96-48-0	Methanol (Purge & Trap Grade)	S-3885
BUTYRONITRILE	109-74-0	Methanol (Purge & Trap Grade)	S-4088
CAFFEINE	58-08-2	Methanol	S-705
CALCIUM CHLORIDE	10043-52-4	Methanol (Purge & Trap Grade)	S-707
CAMPENE	79-92-5	Methanol (Purge & Trap Grade)	S-710
(-) CAMPENE	5974-04-7	Methanol (Purge & Trap Grade)	S-5106
CAMPHOR	76-22-2	Methanol (Purge & Trap Grade)	S-3925
CAPROLACTAM	105-60-2	Methanol (Purge & Trap Grade)	S-712
CAPTAFOL	2425-06-1	Acetone	S-715
CAPTAN	133-06-2	Acetone	S-720
CARBARYL	63-25-2	Acetonitrile	S-725
CARBAZOLE	86-74-8	Methylene Chloride	S-730

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
CARBETAMIDE	16118-49-3	Methanol (Purge & Trap Grade)	S-4274
CARBITOL	111-90-0	Methanol (Purge & Trap Grade)	S-735
CARBOFURAN	1563-66-2	Methanol	S-740
CARBON DISULFIDE	75-15-0	Methanol (Purge & Trap Grade)	S-745
CARBON TETRACHLORIDE	56-23-5	Methanol (Purge & Trap Grade)	S-750
CARBOPHENOTHION	786-19-6	Methanol	S-755
CARBOSULFAN	55285-14-8	Methanol	S-742
CARBOXIN	5234-68-4	Acetone	S-760
3-CARENE	13466-78-9	Methanol (Purge & Trap Grade)	S-4171
CARFENTRAZONE-ETHYL	128639-02-1	Acetonitrile	S-5040
CATECHOL	120-80-9	Methanol	S-761
CETYL PALMITATE	540-10-3	o-Xylene	S-4362
CHALCONE	94-41-7	Methanol (Purge & Trap Grade)	S-764
CHLORDIMEFORM	6164-98-3	Methanol (Purge & Trap Grade)	S-783
CHLORAL HYDRATE SOLUTION IN METHANOL @ 100µg/ML	302-17-0	Methanol	S-763
CHLORAM BEN	133-90-4	Methanol (Purge & Trap Grade)	S-765
CHLORAM BEN METHYL ESTER	N/A	Methanol	S-766
CHLORAMPHENICOL	56-75-7	Methanol (Purge & Trap Grade)	S-4032
CHLORBENSIDE	103-17-3	Methanol (Purge & Trap Grade)	S-767
CHLORBROMURON	13360-45-7	Methanol (Purge & Trap Grade)	S-4275
CHLORBROMURON	13360-45-7	Acetonitrile	S-769
CHLORBUFAM	1967-16-4	Methanol (Purge & Trap Grade)	S-4276
CHLORDANE	57-74-9	Hexane	S-780
ALPHA-CHLORDANE	5103-71-9	Methanol	S-770
CIS-CHLORDENE	3734-48-3	Methanol (Purge & Trap Grade)	S-781
TRANS-CHLORDENE	3734-48-3	Methanol (Purge & Trap Grade)	S-782
CHLORENDIC ACID	115-28-6	Methanol (Purge & Trap Grade)	S-4302
CHLORFENVINOS	470-90-6	Acetone	S-785
CHLORFLUAZURON	71422-67-8	Methanol (Purge & Trap Grade)	S-4017
CHLORIMURON	90982-32-4	Acetone	S-3927
CHLORMEPHOS	24934-91-6	Methanol (Purge & Trap Grade)	S-787
CHLORMEQUAT CHLORIDE	999-81-5	Water	S-4838
CHLORONEB	2675-77-6	Methanol	S-790
2-CHLORO-1,1,1-TRIFLUOROETHANE	75-88-7	Methanol (Purge & Trap Grade)	S-958
1-CHLORO-1,1-DIFLUOROETHANE	75-68-3	Methanol (Purge & Trap Grade)	S-4297
3-CHLORO-1,2-PROPANEDIOL	96-24-2	Methanol (Purge & Trap Grade)	S-896
2-CHLORO-1,3-BUTADIENE	126-99-8	Methanol (Purge & Trap Grade)	S-930
2-CHLORO-1-PROPANOL	N/A	Methanol (Purge & Trap Grade)	S-908A
1-CHLORO-2,4-DIFLUOROBENZENE	1435-44-5	Methanol (Purge & Trap Grade)	S-839
1-CHLORO-2,4-DINITROBENZENE	97-00-7	Methanol (Purge & Trap Grade)	S-844
2-CHLORO-2,6-DIETHYLACETANILIDE	6967-29-9	Acetone	S-4318
1-CHLORO-2-FLUOROBENZENE	348-51-6	Methanol (Purge & Trap Grade)	S-935
3-CHLORO-2-METHYLANILINE	87-60-5	Methanol (Purge & Trap Grade)	S-940
5-CHLORO-2-METHYLANILINE	95-79-4	Methanol (Purge & Trap Grade)	S-0941
4-CHLORO-2-METHYLPHENOL	1570-64-5	Methanol (Purge & Trap Grade)	S-3979
1-CHLORO-2-METHYLPROPANE	513-36-0	Methanol (Purge & Trap Grade)	S-936
3-CHLORO-2-METHYLPROPENE	563-47-3	Methanol (Purge & Trap Grade)	S-942
1-CHLORO-2-NITROBENZENE	88-73-3	Methanol (Purge & Trap Grade)	S-948
1-CHLORO-2-PROPANOL (CONTAINS 2-CHLORO-1-PROPANOL)	127-00-4	Propylene Dichloride	S-908
4-CHLORO-3,5-DIMETHYLPHENOL	88-04-0	Methanol (Purge & Trap Grade)	S-943
1-CHLORO-3-FLUOROBENZENE	625-98-9	Methanol (Purge & Trap Grade)	S-944
4-CHLORO-3-METHYLPHENOL	59-50-7	Methanol (Purge & Trap Grade)	S-945
4-CHLORO-3-NITROBENZOTRIFLUORIDE	121-17-5	Methanol (Purge & Trap Grade)	S-947
1-CHLORO-4-FLUOROBENZENE	352-33-0	Methanol (Purge & Trap Grade)	S-950
1-CHLORO-4-NITROBENZENE	100-00-5	Methanol (Purge & Trap Grade)	S-951

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-CHLORO-5-(TRIFLUOROMETHYL) ANILINE	121-50-6	Methanol (Purge & Trap Grade)	S-953
2-CHLORO-5-METHYLPHENOL	615-74-7	Methanol (Purge & Trap Grade)	S-946
2-CHLORO-5-TRIFLUOROMETHYLPYRIDINE	52334-81-3	Methanol (Purge & Trap Grade)	S-4046
CHLOROACETALDEHYDE	107-20-0	Methanol (Purge & Trap Grade)	S-792
METHYL CHLOROACETATE	96-34-4	Methanol	S-795A
CHLOROACETIC ACID	79-11-8	Methyl-tert-Butyl Ether	S-795
CHLOROACETONITRILE	107-14-2	Methanol (Purge & Trap Grade)	S-797
2-CHLOROACETOPHENONE	532-27-4	Methanol (Purge & Trap Grade)	S-794
2'-CHLOROACETOPHENONE	2142-68-9	Methanol	S-798
3'-CHLOROACETOPHENONE	99-02-5	Methanol (Purge & Trap Grade)	S-799
4'-CHLOROACETOPHENONE	99-91-2	Methanol (Purge & Trap Grade)	S-801
2-CHLOROACRYLONITRILE	920-37-6	Methanol (Purge & Trap Grade)	S-3912
2-CHLOROALLYLDIETHYLDITHIOCARBAMATE	95-06-7	Methanol (Purge & Trap Grade)	S-800
2-CHLOROANILINE	95-51-2	Methanol (Purge & Trap Grade)	S-802
3-CHLOROANILINE	108-42-9	Methanol	S-803
4-CHLOROANILINE (P-CHLOROANILINE)	106-47-8	Methanol (Purge & Trap Grade)	S-805
2-CHLOROANISOLE	766-51-8	Methanol	S-5143
3-CHLOROANISOLE	2845-89-8	Methanol	S-5144
4-CHLOROANISOLE	623-12-1	Methanol	S-5145
O-CHLORO BENZALDEHYDE	89-98-5	Methanol (Purge & Trap Grade)	S-804
CHLOROBENZENE	108-90-7	Methanol (Purge & Trap Grade)	S-810
CHLOROBENZENE-D5	3114-55-4	Methanol (Purge & Trap Grade)	S-815
CHLOROBENZILATE	510-15-6	Methanol	S-820
M-CHLOROBENZOIC ACID	535-80-8	Methanol (Purge & Trap Grade)	S-825
O-CHLOROBENZOIC ACID	118-91-2	Methanol (Purge & Trap Grade)	S-830
P-CHLOROBENZOIC ACID	74-11-3	Methanol (Purge & Trap Grade)	S-835
4-CHLOROBENZOTRIFLUORIDE	98-56-6	Methanol (Purge & Trap Grade)	S-836
A-CHLOROBENZYLIDENEMALONONITRILE	18270-61-6	Methanol	S-819
1-CHLOROBUTANE	109-69-3	Methanol (Purge & Trap Grade)	S-838
3-CHLOROCATECHOL	4018-65-9	Methanol (Purge & Trap Grade)	S-3903
CHLORODIBROMOACETIC ACID	5278-95-5	Methyl-tert-Butyl Ether	S-3892
CHLORODIFLUOROMETHANE	75-45-6	Methanol (Purge & Trap Grade)	S-840
CHLOROETHANE	75-00-3	Methanol (Purge & Trap Grade)	S-845
2-CHLOROETHANOL	107-07-3	Methanol (Purge & Trap Grade)	S-847
BIS(2-CHLOROETHYL)ETHER	111-44-4	Methanol (Purge & Trap Grade)	S-860
2-CHLOROETHYL VINYL ETHER	110-75-8	Methanol (Purge & Trap Grade)	S-855A
CHLOROFORM	67-66-3	Methanol (Purge & Trap Grade)	S-865
CHLOROFORM-1C13	31717-44-9	Methanol (Purge & Trap Grade)	S-867
CHLOROFORM-D	865-49-6	Methanol	S-866
1-CHLOROHXANE	544-10-5	Methanol (Purge & Trap Grade)	S-869
CHLOROHYDROQUINONE	615-67-8	Methanol (Purge & Trap Grade)	S-3894
CHLOROMETHANE	74-87-3	Methanol (Purge & Trap Grade)	S-875
CHLOROMETHYL METHYL ETHER	107-30-2	Methanol (Purge & Trap Grade)	S-877
1-CHLORONAPHTHALENE	90-13-1	Methanol (Purge & Trap Grade)	S-885
2-CHLORONAPHTHALENE	91-58-7	Methanol (Purge & Trap Grade)	S-890
3-CHLORONITROBENZENE	121-73-3	Methanol (Purge & Trap Grade)	S-949
1-CHLORO OCTADECANE	3386-33-2	Methylene Chloride	S-893
4-CHLORO-O-TOLYOXYACETIC ACID	94-74-6	Methanol	S-955
2-CHLOROPHENOL	95-57-8	Methanol (Purge & Trap Grade)	S-900
3-CHLOROPHENOL	108-43-0	Methanol (Purge & Trap Grade)	S-901
2-CHLOROPHENOL-3,4,5,6-D ₄	93951-73-6	Methanol (Purge & Trap Grade)	S-905
4-CHLOROPHENOL	106-48-9	Methanol (Purge & Trap Grade)	S-906
4-CHLOROPHENYL METHYL SULFONE	98-57-7	Acetone	S-916
4-CHLOROPHENYL-PHENYL ETHER	7005-72-3	Methanol (Purge & Trap Grade)	S-910
CHLOROPICRIN	76-06-2	Methanol	S-911
CHLOROPRENE	126-99-8	Methanol (Purge & Trap Grade)	S-930A

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-CHLOROPROPANE	75-29-6	Methanol (Purge & Trap Grade)	S-912
1-CHLOROPROPENE	590-21-6	Methanol (Purge & Trap Grade)	S-909
2-CHLOROPROPENE	557-98-2	Methanol (Purge & Trap Grade)	S-895
3-CHLOROPROPIONITRILE	542-76-7	Methanol (Purge & Trap Grade)	S-3846
4-CHLOROPYRIDINE HCL	7379-35-3	Methanol (Purge & Trap Grade)	S-914
2-CHLOROPYRIDINE	109-09-1	Methanol (Purge & Trap Grade)	S-3860
3-CHLOROPYRIDINE	626-60-8	Methanol (Purge & Trap Grade)	S-913
CHLOROTHALONIL	1897-45-6	Methanol	S-915
CHLOROTHALONIL	1897-45-6	Hexane	S-915-H
2-CHLOROTOLUENE	95-49-8	Methanol (Purge & Trap Grade)	S-920
3-CHLOROTOLUENE	108-41-8	Methanol (Purge & Trap Grade)	S-923
4-CHLOROTOLUENE	106-43-4	Methanol (Purge & Trap Grade)	S-925
CHLOROTOLURON	15545-48-9	Methanol (Purge & Trap Grade)	S-3947
CHLOROTRIFLUOROMETHANE	75-72-9	Methanol (Purge & Trap Grade)	S-4206
CHLOROXURON	1982-47-4	Methanol	S-3311
CHLORPROPHAM	101-21-3	Methanol	S-960
CHLORPROPYLATE	5836-10-2	Methanol (Purge & Trap Grade)	S-963
CHLORPYRIFOS	2921-88-2	Methanol	S-965
CHLORPYRIFOS	2921-88-2	Acetone	S-965-A
CHLORPYRIFOS OXON	5598-15-2	Acetone	S-968
CHLORPYRIFOS-METHYL	5598-13-0	Methanol	S-966
CHLORTHIAMIDE	1918-13-4	Methanol (Purge & Trap Grade)	S-4278
CHLORTHION	500-28-7	Methanol (Purge & Trap Grade)	S-4243
CHLORTHIOPHOS	60238-56-4	Methanol (Purge & Trap Grade)	S-967
CHLOZOLINATE	84332-86-5	Methanol (Purge & Trap Grade)	S-4286
CHRYSENE	218-01-9	Methylene Chloride	S-970
CHRYSENE-D ₁₂	1719-03-5	Methylene Chloride	S-975
TRANS-CINNAMALDEHYDE	14371-10-9	Methanol (Purge & Trap Grade)	S-979
cis-2-PENTENE	627-20-3	Methanol (Purge & Trap Grade)	S-4259
cis-9, TRANS-11-OCTADECADIENOIC ACID METHYL ESTER		Methanol	S-5525
cis-DECAHYDRONAPHTHALENE	493-01-6	Methanol (Purge & Trap Grade)	S-4185
CITRIC ACID	77-92-9	Methanol (Purge & Trap Grade)	S-976
CLOMAZONE	81777-89-1	Acetone	S-762
COMMAND	81777-89-1	Methanol (Purge & Trap Grade)	S-762A
CORONENE	191-07-1	Methylene Chloride	S-3919
CORONENE	191-07-1	Toluene	S-3919-TOL
COUMAPHOS	56-72-4	Acetone	S-980
CREOSOL	1319-77-3	Methanol (Purge & Trap Grade)	S-987
CREOSOTE	8021-39-4	Methylene Chloride	S-3847
CROTONALDEHYDE	123-73-9	Methanol (Purge & Trap Grade)	S-990
CROTONITRILE	4786-20-3	Methanol (Purge & Trap Grade)	S-992
CROTOXYPHOS	7700-17-6	Methanol (Purge & Trap Grade)	S-995
18-CROWN-6-ETHER	17455-13-9	Methanol (Purge & Trap Grade)	S-1000
CRUFOMATE	299-86-5	Methanol (Purge & Trap Grade)	S-4287
CYANOPHOS	2636-26-2	Methanol (Purge & Trap Grade)	S-1006
2-CYANOPYRIDINE	100-70-9	Methanol (Purge & Trap Grade)	S-4007
3-CYANOPYRIDINE	100-54-9	Methanol (Purge & Trap Grade)	S-4008
CYCLOATE	1134-23-2	Methanol (Purge & Trap Grade)	S-1010
CYCLOHEXANE	110-82-7	Methanol (Purge & Trap Grade)	S-1015
CYCLOHEXANOL	108-93-0	Methanol (Purge & Trap Grade)	S-1020
CYCLOHEXANONE	108-94-1	Methanol (Purge & Trap Grade)	S-1025
CYCLOHEXENE	110-83-8	Methanol (Purge & Trap Grade)	S-1030
CYCLOHEXENE OXIDE	286-20-4	Methanol (Purge & Trap Grade)	S-1028
2-CYCLOHEXYL-4,6-DINITROPHENOL	131-89-5	Methylene Chloride	S-1029
1,2-CYCLOHEXANE DICARBOXYLIC ACID Di-ISONONYL ESTER	474919-59-0	Methanol	S-5104
CYCLOHEXYLAMINE	108-91-8	Methanol (Purge & Trap Grade)	S-1027

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1,5-CYCLOOCTADIENE	111-78-4	Methanol (Purge & Trap Grade)	S-1031
4H-CYCLOPENTA[DEF]PHENANTHRENE	203-64-5	Methanol (Purge & Trap Grade)	S-1035
CYCLOPENTANE	287-92-3	Methanol (Purge & Trap Grade)	S-1032
CYCLOPENTANONE	120-92-3	Methanol (Purge & Trap Grade)	S-1042
CYCLOPENTENE	142-29-0	Methanol (Purge & Trap Grade)	S-1040
CYMOXANIL	57966-95-7	Methanol (Purge & Trap Grade)	S-3926
CYPERMETHRIN	52315-07-8	Acetone	S-1041
CYPRAZINE	22936-86-3	Methanol (Purge & Trap Grade)	S-4244
CYROMAZINE	66215-27-8	Methanol (Purge & Trap Grade)	S-4255
2,4-D BUTOXYETHYL ESTER	1923-73-3	Methanol (Purge & Trap Grade)	S-1043
2,4-D ISOPROPYL AMINE SALT	5742-17-6	Methanol	S-1047
2,4-D METHYL ESTER	1928-38-7	Methanol	S-1050
DALAPON	75-99-0	Methanol (Purge & Trap Grade)	S-1055
2,4-DB METHYL ESTER	94-82-6	Methanol	S-1061
2,4-DB	94-82-6	Methyl-tert-Butyl Ether	S-1060
o,p'-DDD	53-19-0	Methanol (Purge & Trap Grade)	S-1070
p,p'-DDD	72-54-8	Methanol	S-1075
o,p'-DDE	3424-82-6	Methanol	S-1080
p,p'-DDE	72-55-9	Methanol	S-1085
p,p'-DDMU	1022-22-6	Methanol (Purge & Trap Grade)	S-1086
4,4'-DDT-D8 ((1,1,1-TRICHLORO-2,2-BIS (4-CHLOROPHENYL-D ₅)ETHANE(4,4'-DDT))	93952-18-2	Methylene Chloride	S-1096
o,p'-DDT	789-02-6	Methanol	S-1090
DECACHLOROBIPHENYL	2051-24-3	Hexane	S-1100
DECACHLOROBIPHENYL	2051-24-3	Toluene	S-1100-TOL
DECAFLUOROBENZOPHENONE	853-39-4	Methanol (Purge & Trap Grade)	S-1102
DECAFLUOROBIPHENYL	434-90-2	Methanol	S-1103
BIS(PENTAFLUOROPHENYL) PHENYLPHOSPHINE	5074-71-5	Methanol (Purge & Trap Grade)	S-1105
TRANS-DECAHYDRONAPHTHALENE	493-02-7	Methanol (Purge & Trap Grade)	S-1106
DECAMETHYLCYCLOPENTASILOXANE	541-02-6	Methanol (Purge & Trap Grade)	S-1110
N-DECANE	124-18-5	Methylene Chloride	S-1112
DECANOIC ACID	334-48-5	Methanol (Purge & Trap Grade)	S-1122
DECENE-1	872-05-9	Methylene Chloride	S-1120
DECYL ALCOHOL	112-30-1	Methanol (Purge & Trap Grade)	S-1125
DECYL ALDEHYDE	112-31-2	Methanol (Purge & Trap Grade)	S-1126
DEF	78-48-8	Methanol (Purge & Trap Grade)	S-1130
DELTA-BHC	319-86-8	Methanol (Purge & Trap Grade)	S-480
DELTAMETHRIN	52918-63-5	Methanol (Purge & Trap Grade)	S-3977
DEMETON O	8065-48-3	Methanol	S-4020
DEMETON O+S	8065-48-3	Methanol	S-1140
DEMETON O(31.3%) S(57.6%)	8065-48-3	Methanol (Purge & Trap Grade)	S-1140A
DEMETON S	126-75-0	Acetone	S-1141
ATRAZINE DESISOPROPYL	1007-28-9	Methanol	S-1135
DESMETRYN	1014-69-3	Methanol (Purge & Trap Grade)	S-1146
DESULFINYLPIRONIL	120068-37-3	Methanol	S-4383
DEVIRINOL	15299-99-7	Methanol (Purge & Trap Grade)	S-1150
DEXTROSE ANHYDROUS	50-99-7	Methanol (Purge & Trap Grade)	S-5005
Dextrin (FROM CORN TYPE 1)	9004-53-9	Distilled Water	S-5130
Di(ETHYLENE GLYCOL) DIETHYL ETHER	112-36-7	Methanol (Purge & Trap Grade)	S-3907
DIACRYLIC ACID	24615-84-7	Methanol (Purge & Trap Grade)	S-5050
DIALIFOS	10311-84-9	Methanol (Purge & Trap Grade)	S-4288
Di-ALLATE (MIX OF ISOMERS)	2303-16-4	Acetone	S-1155
1,4-DIAMINOBUTANE	110-60-1	Methanol (Purge & Trap Grade)	S-1158
4,4'-DIAMINODIPHENYLMETHANE	101-77-9	Methanol (Purge & Trap Grade)	S-1156
1,5-DIAMINOPENTANE	462-94-2	Methanol (Purge & Trap Grade)	S-1159
2,4-DIAMINOTOLUENE	95-80-7	Methanol	S-1160

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,6-DIAMINOTOLUENE	823-40-5	Methanol (Purge & Trap Grade)	S-1162
3,4-DIAMINOTOLUENE	496-72-0	Methanol (Purge & Trap Grade)	S-1165
DIAMYL PHTHALATE	131-18-0	Methanol (Purge & Trap Grade)	S-4157
DIAZALD	80-11-5	Methanol (Purge & Trap Grade)	S-1170
DIAZINON	333-41-5	Acetone	S-1175
DIAZINON-D ₁₀	100155-47-3	Methanol (Purge & Trap Grade)	S-4204
DIAZINON-O-ANALOG	962-58-3	Acetone	S-1176
DIBENZ(A,C)ANTHRACENE	215-58-7	Methanol (Purge & Trap Grade)	S-3922
DIBENZ(A,H)ACRIDINE	226-36-8	Methylene Chloride	S-1215
DIBENZ(A,H)ANTHRACENE	53-70-3	Methylene Chloride	S-1205
DIBENZ(A,J)ACRIDINE	224-42-0	Methylene Chloride	S-1207
1,2:5,6-DIBENZANTHRACENE	53-70-3	Methanol (Purge & Trap Grade)	S-1177
DIBENZO(A,E)PYRENE	192-65-4	Methylene Chloride/Benzene (50:50)	S-1200
13H-DIBENZO(A,I)CARBAZOLE	239-64-5	Methanol (Purge & Trap Grade)	S-1192
DIBENZO(A,I)PYRENE	189-55-9	Methylene Chloride/Benzene (50:50)	S-1195
DIBENZO(A,L)PYRENE	191-30-0	Methylene Chloride	S-1196
7H-DIBENZO(C,G)CARBAZOLE	56114-47-7	Methylene Chloride	S-1197
1,2:7,8-DIBENZOCARBAZOLE	239-64-5	Methanol (Purge & Trap Grade)	S-1198
DIBENZOFURAN	132-64-9	Methanol (Purge & Trap Grade)	S-1180
DIBENZOTHIOPHENE	132-65-0	Methanol (Purge & Trap Grade)	S-1185
DIBENZYL PHTHALATE	523-31-9	Methylene Chloride	S-1186
DIBROM (NALED)	300-76-5	Hexane	S-2650
1,3-DIBROMO-1-PROPENE	627-15-6	Methanol (Purge & Trap Grade)	S-4035
1,3-DIBROMO-2-PROPANOL	96-21-9	Methanol (Purge & Trap Grade)	S-1252
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	Methanol (Purge & Trap Grade)	S-1255
DIBROMOACETIC ACID	631-64-1	Methyl-tert-Butyl Ether	S-1220
DIBROMOACETONITRILE	3252-43-5	Methanol (Purge & Trap Grade)	S-1225
1,4-DIBROMOBENZENE	106-37-6	Methanol (Purge & Trap Grade)	S-1227
1,4-DIBROMOBENZENE-D ₄	4165-56-4	Methanol (Purge & Trap Grade)	S-1226
2,5-DIBROMOBENZOIC ACID	610-71-9	Methanol (Purge & Trap Grade)	S-1331
4,4'-DIBROMOBIPHENYL	92-86-4	Acetone	S-1228
DIBROMOCHLOROMETHANE	124-48-1	Methanol (Purge & Trap Grade)	S-1230
1,2-DIBROMOETHANE	106-93-4	Methanol (Purge & Trap Grade)	S-1235
DIBROMOFLUOROMETHANE	1868-53-7	Methanol (Purge & Trap Grade)	S-1240
DIBROMOMETHANE	74-95-3	Methanol (Purge & Trap Grade)	S-1245
2,4-DIBROMOPHENOL	615-58-7	Methanol	S-5148
2,6-DIBROMOPHENOL	608-33-3	Methanol	S-5147
4,4'-DIBROMOOCTAFLUOROBIPHENYL	10386-84-2	Methyl-tert-Butyl Ether	S-1250
1,2-DIBROMOPROPANE	78-75-1	Methanol (Purge & Trap Grade)	S-4146
1,3-DIBROMOPROPANE	109-64-8	Methanol (Purge & Trap Grade)	S-1249
2,3-DIBROMOPROPIONIC ACID	600-05-5	Methyl-tert-Butyl Ether	S-3895
2,5-DIBROMOTOLUENE	615-59-8	Methanol (Purge & Trap Grade)	S-1251
1,3-DIBUTADIENE	106-99-0	Methanol (Purge & Trap Grade)	S-1260
DIBUTYL BUTYL-PHOSPHONATE	78-46-6	Methanol (Purge & Trap Grade)	S-4198
DIBUTYL CHLORENDATE	1770-80-5	Methanol (Purge & Trap Grade)	S-1265
DIBUTYL SULFIDE	544-40-1	Methanol (Purge & Trap Grade)	S-1266
DICAMBA	1918-00-9	Methanol	S-1270
DICAMBA METHYL ESTER	6597-78-0	Methanol (Purge & Trap Grade)	S-1270A
DICAPRY PHTHALATES	131-15-7	Methanol (Purge & Trap Grade)	S-4932
DICHOENIL	1194-65-6	Methanol (Purge & Trap Grade)	S-1271
DICHLORLUANID	1085-98-9	Methylene Chloride	S-1277
DICHLONE	117-80-6	Methanol	S-1275
DICHLORAN	99-30-9	Methanol (Purge & Trap Grade)	S-1276
DICHLORFENTHION	97-17-6	Methanol (Purge & Trap Grade)	S-1280
DICHLORMID	37764-25-3	Methanol	S-3994
2,2-DICHLORO-1,1,1-TRIFLUOROETHANE	306-83-2	Methanol (Purge & Trap Grade)	S-1476

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1,2-DICHLORO-1,1-DIFLUOROETHANE	1649-08-7	Methanol (Purge & Trap Grade)	S-1477
3,4-DICHLORO-1-BUTENE	760-23-6	Methanol (Purge & Trap Grade)	S-1478
1,1-DICHLORO-1-FLUOROETHANE (FREON 141)	1717-00-6	Methanol (Purge & Trap Grade)	S-1480
2,3-DICHLORO-1-PROPANOL	616-23-9	Methanol (Purge & Trap Grade)	S-1482
2,3-DICHLORO-1-PROPENE	78-88-6	Methanol (Purge & Trap Grade)	S-1458
TRANS-1,4-DICHLORO-2-BUTENE	764-41-0	Methanol (Purge & Trap Grade)	S-1485
CIS-1,4-DICHLORO-2-BUTENE	1476-11-5	Methanol (Purge & Trap Grade)	S-3887
TRANS-1,4-DICHLORO-2-BUTENE	110-57-6	Methanol (Purge & Trap Grade)	S-1490
1,3-DICHLORO-2-PROPANOL	96-23-1	Methanol (Purge & Trap Grade)	S-1492
DICHLOROACETIC ACID	79-43-6	Methyl-tert-Butyl Ether	S-1285
1,1-DICHLOROACETONE	513-88-2	Methanol (Purge & Trap Grade)	S-1286
DICHLOROACETONITRILE	3018-12-0	Methanol (Purge & Trap Grade)	S-1287
3,5-DICHLOROANILINE	626-43-7	Methanol (Purge & Trap Grade)	S-4178
2,3-DICHLOROANILINE	608-27-5	Methanol (Purge & Trap Grade)	S-1284
2,5-DICHLOROANILINE	95-82-9	Methylene Chloride	S-1289
3,4-DICHLOROANILINE	95-76-1	Methanol (Purge & Trap Grade)	S-3851
9,10-DICHLOROANTHRACENE	605-48-1	Methanol/Methylene Chloride	S-1288
1,2-DICHLOROBENZENE	95-50-1	Methanol (Purge & Trap Grade)	S-1290
1,3-DICHLOROBENZENE	541-73-1	Methanol (Purge & Trap Grade)	S-1295
1,4-DICHLOROBENZENE	106-46-7	Methanol (Purge & Trap Grade)	S-1300
1,2-DICHLOROBENZENE-D ₄	2199-69-1	Methanol (Purge & Trap Grade)	S-1305
1,4-DICHLOROBENZENE-D ₄	3855-82-1	Methanol (Purge & Trap Grade)	S-1310
3,3'-DICHLOROBENZIDINE	91-94-1	Methanol (Purge & Trap Grade)	S-1315
3,3'-DICHLOROBENZIDINE	612-83-9	Methanol (Purge & Trap Grade)	S-1315B
3,5-DICHLOROBENZOIC ACID METHYL ESTER	N/A	Methanol (Purge & Trap Grade)	S-1346
2,3-DICHLOROBENZOIC ACID	50-45-3	Methanol (Purge & Trap Grade)	S-1320
2,4-DICHLOROBENZOIC ACID	50-84-0	Methanol (Purge & Trap Grade)	S-1325
2,5-DICHLOROBENZOIC ACID	50-79-3	Methanol (Purge & Trap Grade)	S-1330
2,6-DICHLOROBENZOIC ACID	50-30-6	Methanol (Purge & Trap Grade)	S-1335
3,4-DICHLOROBENZOIC ACID	51-44-5	Acetone	S-1340
3,5-DICHLOROBENZOIC ACID	51-36-5	Methanol	S-1345
4,4'-DICHLOROBENZOPHENONE	90-98-2	Acetone	S-1318
3,4-DICHLOROBENZOTRIFLUORIDE	328-84-7	Methanol (Purge & Trap Grade)	S-1347
1,2-DICHLOROBUTANE	616-21-7	Methanol (Purge & Trap Grade)	S-1359
1,3-DICHLOROBUTANE	1190-22-3	Methanol (Purge & Trap Grade)	S-1360
1,4-DICHLOROBUTANE	110-56-5	Methanol (Purge & Trap Grade)	S-1365
3,4-DICHLOROCATECHOL	3978-67-4	Methanol (Purge & Trap Grade)	S-1367
3,6-DICHLOROCATECHOL	3938-16-7	Methanol (Purge & Trap Grade)	S-1368
DICHLORODIFLUOROMETHANE	75-71-8	Methanol (Purge & Trap Grade)	S-1370
1,1-DICHLOROETHANE	75-34-3	Methanol (Purge & Trap Grade)	S-1375
1,2-DICHLOROETHANE	107-06-2	Methanol (Purge & Trap Grade)	S-1380
1,2-DICHLOROETHANE-D ₄	17060-07-0	Methanol (Purge & Trap Grade)	S-1385
1,1-DICHLOROETHENE	75-35-4	Methanol (Purge & Trap Grade)	S-1390
1,1-DICHLOROETHENE	75-35-4	Methanol (Purge & Trap Grade)	S-1392
CIS-1,2-DICHLOROETHENE	156-59-2	Methanol (Purge & Trap Grade)	S-1394
TRANS-1,2-DICHLOROETHENE	156-60-5	Methanol (Purge & Trap Grade)	S-1400
DICHLOROFLUOROMETHANE	75-43-4	Methanol (Purge & Trap Grade)	S-1405
DICHLOROISOPROPYL ETHER	000108-60-1	Methanol (Purge & Trap Grade)	S-1404
DICHLOROMETHANE-D ₂	1665-00-5	Methanol (Purge & Trap Grade)	S-4333
DICHLOROPHEN	97-23-4	Methanol (Purge & Trap Grade)	S-1407
2,3-DICHLOROPHENOL	576-24-9	Methanol (Purge & Trap Grade)	S-1406
2,4-DICHLOROPHENOL	120-83-2	Methanol (Purge & Trap Grade)	S-1410
2,5-DICHLOROPHENOL	583-78-8	Methanol (Purge & Trap Grade)	S-1412
2,6-DICHLOROPHENOL	87-65-0	Methanol	S-1415
3,4-DICHLOROPHENOL	95-77-2	Methanol (Purge & Trap Grade)	S-1416
3,5-DICHLOROPHENOL	591-35-5	Methanol (Purge & Trap Grade)	S-1417

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,4-DICHLOROPHENOL-METHYL ESTER	553-82-2	Methanol (Purge & Trap Grade)	S-1410A
2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)	94-75-7	Methanol	S-1045
2,4-DICHLOROPHENYL ACETIC ACID METHYL ESTER	N/A	Methanol	S-1421
2,4-DICHLOROPHENYLACETIC ACID	19719-28-9	Acetone	S-1420
DICHLORPROP	120-36-5	Methanol	S-1425
1,1-DICHLOROPROPANE	78-99-9	Methanol (Purge & Trap Grade)	S-1429
1,2-DICHLOROPROPANE	78-87-5	Methanol (Purge & Trap Grade)	S-1430
1,3-DICHLOROPROPANE	142-28-9	Methanol (Purge & Trap Grade)	S-1435
2,2-DICHLOROPROPANE	594-20-7	Methanol (Purge & Trap Grade)	S-1440
1,1-DICHLOROPROPANONE	513-88-2	Methanol (Purge & Trap Grade)	S-1445
1,3-DICHLOROPROPENE (c&t)	542-75-6	Methanol (Purge & Trap Grade)	S-1457A
1,1-DICHLOROPROPENE	563-58-6	Methanol (Purge & Trap Grade)	S-1450
1,3-DICHLOROPROPENE	542-75-6	Methanol (Purge & Trap Grade)	S-1455
cis-1,3-DICHLOROPROPENE	10061-01-5	Methanol (Purge & Trap Grade)	S-1460
TRANS-1,3-DICHLOROPROPENE	10061-02-6	Methanol (Purge & Trap Grade)	S-1465
3,4-DICHLOROPROPIONANILIDE	709-98-8	Methanol (Purge & Trap Grade)	S-1468
2,3-DICHLOROPROPIONIC ACID	N/A	Methanol (Purge & Trap Grade)	S-4305
2,6-DICHLOROPYRIDINE	2402-78-0	Methanol (Purge & Trap Grade)	S-1469
1,2-DICHLOROTETRAFLUOROETHANE	76-14-2	Methanol (Purge & Trap Grade)	S-1470
2,4-DICHLOROTOLUENE	95-73-8	Methanol (Purge & Trap Grade)	S-1473
3,4-DICHLOROTOLUENE	95-75-0	Methanol (Purge & Trap Grade)	S-1474
A,A-DICHLOROTOLUENE	98-87-3	Methanol (Purge & Trap Grade)	S-1472
1,2-DICHLOROTRIFLUOROETHANE	354-23-4	Methanol (Purge & Trap Grade)	S-1479
DICHLORVOS	62-73-7	Methanol (Purge & Trap Grade)	S-1475
DICHLORPROP METHYL ESTER	57153-17-0	Methanol (Purge & Trap Grade)	S-1426
DICLOFOP METHYL	51338-27-3	Methanol (Purge & Trap Grade)	S-1495
DICLORAN	99-30-9	Methanol	S-1497
DICROTOPHOS	141-66-2	Methanol (Purge & Trap Grade)	S-1500
DICYCLOHEXYL PHTHALATE	84-61-7	Methanol (Purge & Trap Grade)	S-4151
DICYCLOPENTADIENE	77-73-6	Methanol (Purge & Trap Grade)	S-1505
DIELDRIN	60-57-1	Methanol	S-1510
DIESEL FUEL	68476-34-6	Methanol (Purge & Trap Grade)	S-1511
DIETHANOLAMINE	111-42-2	Methanol (Purge & Trap Grade)	S-1528
1,2-DIETHOXYETHANE	629-14-1	Methanol (Purge & Trap Grade)	S-1513
DIETHYL MALONATE	105-53-3	Methanol (Purge & Trap Grade)	S-3938
DIETHYL PHTHALATE	84-66-2	Methanol (Purge & Trap Grade)	S-1515
DIETHYL SULFATE	64-67-5	Methanol (Purge & Trap Grade)	S-1520
ETHYL SULFIDE	352-93-2	Methanol (Purge & Trap Grade)	S-1521
DIETHYLAMINE	109-89-7	Methanol (Purge & Trap Grade)	S-1522
2,6-DIETHYLANILINE	579-66-8	Methanol (Purge & Trap Grade)	S-1605
1,2-DIETHYLBENZENE	135-01-3	Methanol (Purge & Trap Grade)	S-1524
1,3-DIETHYLBENZENE	141-93-5	Methanol (Purge & Trap Grade)	S-1512
1,3-DIETHYLBENZENE	141-93-5	Methanol (Purge & Trap Grade)	S-1523
1,4-DIETHYLBENZENE	105-05-5	Methanol (Purge & Trap Grade)	S-1525
DIETHYLENE GLYCOL	111-46-6	Methanol (Purge & Trap Grade)	S-3848
DIETHYLENEGLYCOL DIBENZOATE	120-55-8	Methanol (Purge & Trap Grade)	S-4207
N,N-DIETHYLETHANOLAMINE	100-37-8	Methanol (Purge & Trap Grade)	S-1529
N,N-DIETHYL-M-TOLUAMIDE	134-62-3	Methanol (Purge & Trap Grade)	S-1127
DIETHYLSTILBESTROL	56-53-1	Methanol (Purge & Trap Grade)	S-1530
DIFENOCONAZOLE	119446-68-3	Methanol (Purge & Trap Grade)	S-3995
DIFENZOQUAT METHYL SULFATE	43222-48-6	Methanol (Purge & Trap Grade)	S-1535
DIFLUBENZURON	35367-38-5	Methanol (Purge & Trap Grade)	S-1537
DIFLUFENICAN	83164-33-4	Methanol (Purge & Trap Grade)	S-1538
1,2-DIFLUOROENZENE	367-11-3	Methanol (Purge & Trap Grade)	S-1539
1,4-DIFLUOROENZENE	540-36-3	Methanol (Purge & Trap Grade)	S-1540

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,2'-DIFLUOROBIPHENYL	388-82-9	Methylene Chloride	S-1542-MC
4,4'-DIFLUOROBIPHENYL	398-23-2	Methanol (Purge & Trap Grade)	S-1541
1,2-DIFLUOROTETRACHLOROETHANE	76-12-0	Methanol	S-1544
2,4-DIFLUOROTOLUENE	452-76-6	Methanol (Purge & Trap Grade)	S-1543
3,4-DIHYDRO-2H-PYRAN	110-87-2	Methanol (Purge & Trap Grade)	S-1552
2,3-DIHYDROFURAN	1191-99-7	Methanol (Purge & Trap Grade)	S-1545
2,5-DIHYDROFURAN	1708-29-8	Methanol (Purge & Trap Grade)	S-1550
3,5-DIODO-4-HYDROXYBENZONITRILE	1689-83-4	Methanol (Purge & Trap Grade)	S-1554
DIODOMETHANE	75-11-6	Methanol (Purge & Trap Grade)	S-1555
DIISOBUTYL PHTHALATE	84-89-5	Methanol (Purge & Trap Grade)	S-4150
1,6-DIISOCYANATOHEXANE	822-06-0	Methylene Chloride	S-1561
DIISOHEPTYL PHTHALATE	71888-89-6	Methylene Chloride	S-1553
DIISONONYL PHTHALATE	68515-48-0	Acetone	S-1559
1,3-DIISOPROPENYLBENZENE	3748-13-8	Methanol (Purge & Trap Grade)	S-1557
1,4-DIISOPROPYLBENZENE	100-18-5	Methanol (Purge & Trap Grade)	S-1558
2,6-DIISOPROPYLNAPHTHALENE	24157-81-1	Methanol (Purge & Trap Grade)	S-1556
DIMETHACHLOR	50563-36-5	Methanol (Purge & Trap Grade)	S-4282
DIMETHENAMID	87674-68-8	Acetone	S-3944
DIMETHOATE	60-51-5	Methanol (Purge & Trap Grade)	S-1560
DIMETHOMORPH	110488-70-5	Acetone	S-3970
3,3'-DIMETHOXYBENZIDINE	119-90-4	Methanol (Purge & Trap Grade)	S-1565
1,1-DIMETHOXYETHANE	534-15-6	Methanol (Purge & Trap Grade)	S-1570
1,2-DIMETHOXYETHANE	110-71-4	Methanol (Purge & Trap Grade)	S-1572
DIMETHOXYETHYL PHTHALATE	117-82-8	Methanol (Purge & Trap Grade)	S-1575
DIMETHOXYMETHANE	109-87-5	Methanol (Purge & Trap Grade)	S-1580
DIMETHYL ENDOTHAL	N/A	Methanol (Purge & Trap Grade)	S-4304
2,4-DIMETHYL HEXANE	589-43-5	Methanol (Purge & Trap Grade)	S-1585
DIMETHYL ISOPHTHALATE	1459-93-4	Methanol (Purge & Trap Grade)	S-1594
DIMETHYL PHTHALATE	131-11-3	Methanol (Purge & Trap Grade)	S-1590
DIMETHYL SULFATE	77-81-1	Methanol (Purge & Trap Grade)	S-1592
DIMETHYL SULFOXIDE-D ₆	2206-27-1	Methanol (Purge & Trap Grade)	S-2566
DIMETHYL TEREPHTHALATE	120-61-6	Methanol (Purge & Trap Grade)	S-1595
2,3-DIMETHYL-2,3-DINITROBUTANE	3964-18-9	Methanol (Purge & Trap Grade)	S-4235
1,4-DIMETHYL-2-ETHYLBENZENE	1758-88-9	Methanol (Purge & Trap Grade)	S-1623
4,4-DIMETHYL-2-PENTANONE	590-50-1	Methanol (Purge & Trap Grade)	S-1657
4,4-DIMETHYL-2-PENTENE	762-63-0	Methanol (Purge & Trap Grade)	S-3974
1,2-DIMETHYL-3-ETHYLBENZENE	933-98-2	Methanol (Purge & Trap Grade)	S-1622
1,3-DIMETHYL-4-ETHYLBENZENE	874-41-9	Methanol (Purge & Trap Grade)	S-1619
1,2-DIMETHYL-4-ETHYLBENZENE	934-80-5	Methanol (Purge & Trap Grade)	S-1621
1,3-DIMETHYL-5-ETHYLBENZENE	934-74-7	Methanol (Purge & Trap Grade)	S-1618
N,N-DIMETHYLACETAMIDE	127-19-5	Methanol (Purge & Trap Grade)	S-1597
1,1-DIMETHYLCYCLOHEXANE	590-66-9	Methanol (Purge & Trap Grade)	S-1609
cis-1,4-DIMETHYLCYCLOHEXANE	624-29-3	Methanol (Purge & Trap Grade)	S-1613
DIMETHYLAMINE	124-40-3	Methanol (Purge & Trap Grade)	S-1599
P-DIMETHYLAMINOAZOBENZENE	60-11-7	Methanol (Purge & Trap Grade)	S-1600
3-(DIMETHYLAMINO)PROPYLAMINE	109-55-7	Methanol (Purge & Trap Grade)	S-1583
4-DIMETHYLAMINOPYRIDINE	1122-58-3	Methanol (Purge & Trap Grade)	S-4013
2,4-DIMETHYLANILINE	95-68-1	Methanol (Purge & Trap Grade)	S-2806
N,N-DIMETHYLANILINE	121-69-7	Methanol (Purge & Trap Grade)	S-2805
9,10-DIMETHYLANTHRACENE	781-43-1	Methylene Chloride	S-3924
7,12-DIMETHYLBENZ(A)ANTHRACENE	57-97-6	Methylene Chloride/Benzene (50:50)	S-1610
2,5-DIMETHYLBENZALDEHYDE	5779-94-2	Methanol (Purge & Trap Grade)	S-1607
2,2-DIMETHYLBUTANE	75-83-2	Methanol (Purge & Trap Grade)	S-1614
2,3-DIMETHYLBUTANE	79-29-8	Methanol (Purge & Trap Grade)	S-1615
cis-1,3-DIMETHYLCYCLOHEXANE	638-04-0	Methanol (Purge & Trap Grade)	S-1611

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1,1-DIMETHYLCYCLOPENTANE	1638-26-2	Methanol (Purge & Trap Grade)	S-1616
1,3-DIMETHYLCYCLOPENTANE	2453-00-1	Methanol (Purge & Trap Grade)	S-1617
cis-1,2-DIMETHYLCYCLOPENTANE	1192-18-3	Methanol (Purge & Trap Grade)	S-3886
TRANS-1,3-DIMETHYLCYCLOPENTANE	1759-58-6	Methanol (Purge & Trap Grade)	S-3891
N,N-DIMETHYLETHANOLAMINE	108-01-0	Methanol (Purge & Trap Grade)	S-2807
DIMETHYLFORMAMIDE	68-12-2	Methanol (Purge & Trap Grade)	S-1620
N,N-DIMETHYLFORMAMIDE	68-12-2	Methanol (Purge & Trap Grade)	S-3897
2,5-DIMETHYLFURAN	625-86-5	Methanol (Purge & Trap Grade)	S-3916
2,4-DIMETHYLHEXANE	589-43-5	Methanol (Purge & Trap Grade)	S-1624
2,5-DIMETHYLHEXANE	592-13-2	Methanol (Purge & Trap Grade)	S-1625
TRANS-1,3-DIMETHYLCYCLOHEXANE	2207-03-6	Methanol (Purge & Trap Grade)	S-1612
1,1-DIMETHYLHYDRAZINE	57-14-7	Methanol (Purge & Trap Grade)	S-1629
1,1-DIMETHYLHYDRAZINE	57-14-7	Methanol (Purge & Trap Grade)	S-1627
DIMETHYLNAPHTHALENE	28804-88-8	Methanol (Purge & Trap Grade)	S-1637
1,2-DIMETHYLNAPHTHALENE	573-98-8	Methanol (Purge & Trap Grade)	S-1630
1,3-DIMETHYLNAPHTHALENE	575-41-7	Methylene Chloride	S-1631-MC
1,5-DIMETHYLNAPHTHALENE	571-61-9	Methanol	S-1634
1,6-DIMETHYLNAPHTHALENE	575-43-9	Methanol (Purge & Trap Grade)	S-1635
1,8-DIMETHYLNAPHTHALENE	569-41-5	Methanol (Purge & Trap Grade)	S-1636
2,3-DIMETHYLNAPHTHALENE	581-40-8	Methanol	S-1639
2,6-DIMETHYLNAPHTHALENE	581-42-0	Methanol (Purge & Trap Grade)	S-1640
2,7-DIMETHYLNAPHTHALENE	582-16-1	Methanol	S-1641
2,2-DIMETHYLPENTANE	590-35-2	Methanol (Purge & Trap Grade)	S-1645
2,3-DIMETHYLPENTANE	565-59-3	Methanol (Purge & Trap Grade)	S-1650
2,4-DIMETHYLPENTANE	108-08-7	Methanol (Purge & Trap Grade)	S-1655
3,3-DIMETHYLPENTANE	562-49-2	Methanol (Purge & Trap Grade)	S-1656
3,6-DIMETHYLPHENANTHRENE	1576-67-6	Methanol (Purge & Trap Grade)	S-4002
2,3-DIMETHYLPHENOL	526-75-0	Methanol (Purge & Trap Grade)	S-1659
2,4-DIMETHYLPHENOL	105-67-9	Methanol (Purge & Trap Grade)	S-1660
2,5-DIMETHYLPHENOL	95-87-4	Acetone	S-1661
2,6-DIMETHYLPHENOL	576-26-1	Methanol	S-1662
3,4-DIMETHYLPHENOL	95-65-8	Methanol	S-1664
3,5-DIMETHYLPHENOL	108-68-9	Methanol (Purge & Trap Grade)	S-1665
1,3-DIMETHYLNAPHTHALENE	575-41-7	Methylene Chloride	S-1631-MC
DI-N-HEPTYLTIN DICHLORIDE	74340-12-8	Ethanol	S-5518-ETOH
DIMETHYL-P-NITROPHENYLPHOSPHATE	950-35-6	Methanol (Purge & Trap Grade)	S-1669
DIMETHYLPOLYSILOXANE	9016-006	Methanol (Purge & Trap Grade)	S-1667
DIMETHYLPOLYSILOXANE	9016-00-6	Methanol (Purge & Trap Grade)	S-3852
2,5-DIMETHYLTETRAHYDROFURAN	1003-38-9	Methanol (Purge & Trap Grade)	S-1668
2,5-DIMETHYLTHIOPHENE	638-02-8	Methanol (Purge & Trap Grade)	S-1666
DI-N-HEXYL PHTHALATE	84-75-3	Methanol (Purge & Trap Grade)	S-4155
DINITRAMINE	29091-05-2	Acetone	S-4052
4,6-DINITRO-2-METHYLPHENOL METHYL ESTER	N/A	Methanol (Purge & Trap Grade)	S-1701
4,6-DINITRO-2-METHYLPHENOL	534-52-1	Methylene Chloride	S-1700
2,6-DINITROANILINE	606-22-4	Methanol (Purge & Trap Grade)	S-1671
1,2-DINITROBENZENE	528-29-0	Methanol	S-1670
1,3-DINITROBENZENE	99-65-0	Methanol	S-1672
1,4-DINITROBENZENE	100-25-4	Methanol	S-1675
2,4-DINITROPHENOL	51-28-5	Methanol (Purge & Trap Grade)	S-1680
2,5-DINITROPHENOL	329-71-5	Methanol (Purge & Trap Grade)	S-3980
2,6-DINITROPHENOL	573-56-8	Methanol (Purge & Trap Grade)	S-1681
2,4-DINITROPHENYLHYDRAZINE	119-26-6	Methanol (Purge & Trap Grade)	S-1682
1,3-DINITROQUINONE	99-65-0	Methanol (Purge & Trap Grade)	S-1685
2,3-DINITROTOLUENE	602-01-7	Methanol (Purge & Trap Grade)	S-1689
2,4-DINITROTOLUENE	121-14-2	Methanol	S-1690

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,6-DINITROTOLUENE	606-20-2	Methanol	S-1695
3,4-DINITROTOLUENE	610-39-9	Acetonitrile	S-1696
DINOCAP	39300-45-3	Methanol (Purge & Trap Grade)	S-1705
DINONYL PHTHALATE	84-76-4	Methanol (Purge & Trap Grade)	S-4153
DINOSEB	88-85-7	Methanol	S-1710
DINOSEB METHYL ESTER	6099-79-2	Methanol	S-1710A
DIOCTYL SEBACATE	227	Methanol (Purge & Trap Grade)	S-1712
DIOXACARB	6988-21-2	Methanol (Purge & Trap Grade)	S-4054
1,4-DIOXANE	123-91-1	Methanol (Purge & Trap Grade)	S-1715
1,4-DIOXANE-D ₈	17647-74-4	Methanol (Purge & Trap Grade)	S-1716
DIOXATHION	78-34-2	Methanol (Purge & Trap Grade)	S-1720
DIOXEPANE	505-65-7	Methanol (Purge & Trap Grade)	S-1721
1,3-DIOXOLANE	646-06-0	Methanol (Purge & Trap Grade)	S-1725
DIOXYDEMETON-S-METHYL	17040-19-6	Methanol (Purge & Trap Grade)	S-3969
DIPHENAMID	957-51-7	Acetone	S-1730
DIPHENYL MERCURY	587-85-9	Methanol (Purge & Trap Grade)	S-1735
9,10-DIPHENYLANTHRACENE	1499-10-1	Methanol (Purge & Trap Grade)	S-4033
5,5-DIPHENYLHYDANTOIN	57-41-0	Methanol (Purge & Trap Grade)	S-1745
1,1-DIPHENYLHYDRAZINE HCL	530-47-2	Methanol (Purge & Trap Grade)	S-1747
1,2-DIPHENYLHYDRAZINE	122-66-7	Methanol (Purge & Trap Grade)	S-1750
DIPROPETRYN	4147-51-7	Methanol (Purge & Trap Grade)	S-1753
DIPROPYLENE GLYCOL	25265-71-8	Methanol (Purge & Trap Grade)	S-1751
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	Methanol (Purge & Trap Grade)	S-4174
DIQUAT DIBROMIDE MONOHYDRATE	6385-62-2	Methanol (Purge & Trap Grade)	S-1752
DIQUAT DIBROMIDE MONOHYDRATE	6385-62-2	distilled water	S-1752-W
DISULFOTON	298-04-4	Methanol	S-1755
DISULFOTON SULFONE	2497-06-5	Acetone	S-1756
DISULFOTON SULFOXIDE	2497-07-6	Acetone	S-1757
DIURON	330-54-1	Methanol	S-1760
DIVINYLBENZENE	1321-74-0	Methanol (Purge & Trap Grade)	S-1765
DL-10-CAMPHORSULFONIC ACID	5872-08-2	Methanol	S-711
N-DOCOSANE	629-97-0	Methylene Chloride	S-1790
N-DODECANE	112-40-3	Methylene Chloride	S-1795
1-DODECANOL	112-53-8	Methanol (Purge & Trap Grade)	S-1800
DODECENE-1	112-41-4	Methylene Chloride	S-1805
DODECYL SULFATE, SODIUM SALT	151-21-3	Methanol (Purge & Trap Grade)	S-4030
DODINE	2439-10-3	Methanol (Purge & Trap Grade)	S-1807
N-DOTETRACONTANE	7098-20-6	Carbon Disulfide	S-1809
N-DOTRIACONTANE	544-85-4	Methylene Chloride	S-1810
P,P'-DDT	50-29-3	Methanol	S-1095
DYFONATE (FONOFOS)	944-22-9	Methanol (Purge & Trap Grade)	S-1815
DYLOX	52-68-6	Acetone	S-1816
EDIFENPHOS	17109-49-8	Methanol (Purge & Trap Grade)	S-4284
N-EICOSANE	112-95-8	Methylene Chloride	S-1820
1-EICOSENE	3452-07-1	Methanol (Purge & Trap Grade)	S-1821
ENDOSULFAN	115-29-7	Methanol (Purge & Trap Grade)	S-1824
ENDOSULFAN ETHER	3369-52-6	Methanol (Purge & Trap Grade)	S-4179
ENDOSULFAN I	959-98-8	Methanol (Purge & Trap Grade)	S-1825
ENDOSULFAN II	33213-65-9	Methanol (Purge & Trap Grade)	S-1830
ENDOSULFAN SULFATE	1031-07-8	Methanol	S-1835
ENDOSULFAN SULFATE	1031-07-8	Toluene	S-1835-TOL
ENDOTHAL	145-73-3	Methanol	S-1840
ENDOTHALL METHYL ESTER	N/A	Methanol	S-1842
ENDOTHALL-PFPH	N/A	Methanol (Purge & Trap Grade)	S-1841
ENDRIN	72-20-8	Methanol	S-1845

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
ENDRIN ALDEHYDE	7421-93-4	Methanol	S-1850
ENDRIN KETONE	53494-70-5	Methanol	S-1855
EPICHLORHYDRIN	106-89-8	Methanol (Purge & Trap Grade)	S-1860
EPN	2104-64-5	Methanol	S-1865
1,2-EPOXYBUTANE	106-88-7	Methanol (Purge & Trap Grade)	S-1867
EPTC	759-94-4	Methanol	S-1870
ERUCYLAMIDE (REDISTILLED)	112-84-5	Methanol (Purge & Trap Grade)	S-3960
ERYTHRITOL	149-32-6	Methanol (Purge & Trap Grade)	S-4191
ESERINE	57-47-6	Methanol	S-3102
ESERINE SALICYLATE	000057-64-7	Methanol	S-3103
ETACONAZOLE	60207-93-4	Methanol (Purge & Trap Grade)	S-4285
ETHALFLURALIN	55283-68-6	Methanol (Purge & Trap Grade)	S-1875
ETHANE	74-84-0	Methanol (Purge & Trap Grade)	S-1880
ETHANE	74-84-0	deionized water	S-1880-W
ETHANETHIOL	75-08-1	Methanol (Purge & Trap Grade)	S-1881
ETHANOL	64-17-5	Methanol (Purge & Trap Grade)	S-1885
ETHANOLAMINE	141-43-5	Methanol (Purge & Trap Grade)	S-1890
ETHENE	74-85-1	Methanol (Purge & Trap Grade)	S-1895
ETHENE	74-85-1	deionized water	S-1895-W
ETHER	60-29-7	Methanol (Purge & Trap Grade)	S-1900
ETHION	563-12-2	Methanol (Purge & Trap Grade)	S-1905
ETHOFUMESATE	26225-79-6	Methanol (Purge & Trap Grade)	S-3959
2-ETHOXYETHANOL	110-80-5	Methanol (Purge & Trap Grade)	S-1910
2-ETHOXYETHYL ACETATE	111-15-9	Methanol (Purge & Trap Grade)	S-1912
ETHOXYQUIN	91-53-2	Methanol (Purge & Trap Grade)	S-1913
ETHYL 4-HYDROXYBENZOATE	120-47-8	Methanol (Purge & Trap Grade)	S-1928
ETHYL ACETATE	141-78-6	Methanol (Purge & Trap Grade)	S-1920
ETHYL ACETATE-1,2,-13C2	141-78-6	Methanol (Purge & Trap Grade)	S-1921
ETHYL ACRYLATE	140-88-5	Methanol	S-4541
ETHYL ALCOHOL-D ₅	1516-08-1	Methanol (Purge & Trap Grade)	S-1886
ETHYL BUTYRATE	105-54-4	Methanol (Purge & Trap Grade)	S-4329
ETHYL DISULFIDE	110-81-6	Methanol	S-3196
ETHYL FORMATE	109-94-4	Methanol (Purge & Trap Grade)	S-4279
ETHYL HEXANOATE	123-66-0	Methanol (Purge & Trap Grade)	S-5480
ETHYL LACTATE	687-47-8	Methanol (Purge & Trap Grade)	S-1973
ETHYL METHACRYLATE	97-63-2	Methanol (Purge & Trap Grade)	S-1975
ETHYL METHANESULFONATE	62-50-0	Methanol (Purge & Trap Grade)	S-1930
ETHYL METHYL SULFIDE	624-89-5	Methanol (Purge & Trap Grade)	S-1976
ETHYL OCTANOATE	106-32-1	Methanol (Purge & Trap Grade)	S-5479
ETHYL PARATHION	56-38-2	Methanol	S-1935
ETHYL TRIFLUOROACETATE	383-63-1	Methanol (Purge & Trap Grade)	S-3957
2-ETHYL-1-HEXANOL	104-76-7	Methanol (Purge & Trap Grade)	S-4147
1-ETHYL-1-METHYLCYCLOHEXANE	4926-90-3	Methanol (Purge & Trap Grade)	S-1974
1-ETHYL-1-METHYLCYCLOPENTANE	16747-50-5	Methanol (Purge & Trap Grade)	S-5008
4-ETHYL-2-METHOXYPHENOL	2785-89-9	Methanol (Purge & Trap Grade)	S-4183
TRANS-1-ETHYL-2-METHYLCYCLOPENTANE	930-90-5	Methanol (Purge & Trap Grade)	S-1978
1-ETHYL-3-METHYLCYCLOPENTANE (C-15.8 & T-83.2)	N/A	Methanol (Purge & Trap Grade)	S-1977
2-ETHYL-6-METHYLANILINE	24549-06-2	Acetone	S-4169
ETHYLAMINE	75-04-7	Methanol (Purge & Trap Grade)	S-1938
N-ETHYLANILINE	103-69-5	Methanol (Purge & Trap Grade)	S-1937
ETHYLBENZENE	100-41-4	Methanol (Purge & Trap Grade)	S-1940
ETHYLBENZENE	100-41-4	Methanol (Purge & Trap Grade)	S-1940A
ETHYLBENZENE-D ₁₀	25837-05-2	Methanol (Purge & Trap Grade)	S-1941
ETHYLBENZENE-ETHYL-D ₃	NA	Methanol (Purge & Trap Grade)	S-1924
ETHYLBENZOATE	93-89-0	Methanol (Purge & Trap Grade)	S-1945

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
ETHYLCYCLOHEXANE	1678-91-7	Methanol (Purge & Trap Grade)	S-1950
ETHYLCYCLOPENTANE	1640-89-7	Methanol (Purge & Trap Grade)	S-1951
ETHYLENE GLYCOL	107-21-1	Methanol (Purge & Trap Grade)	S-1925
ETHYLENE GLYCOL	107-21-1	Methanol (Purge & Trap Grade)	S-1952
ETHYLENE GLYCOL DIMETHACRYLATE	97-90-5	Methanol (Purge & Trap Grade)	S-1954
ETHYLENEIMINE	151-56-4	Methanol (Purge & Trap Grade)	S-1955
ETHYLENE OXIDE	75-21-8	Methanol (Purge & Trap Grade)	S-1960
ETHYLENETHIOUREA	96-45-7	Methanol (Purge & Trap Grade)	S-1962
2-ETHYLHEXAONIC ACID	149-57-5	Methanol (Purge & Trap Grade)	S-1927
5-ETHYLIDENE-2-NORBORNENE	16219-75-3	Methanol (Purge & Trap Grade)	S-1972
4,6-O-ETHYLIDENE-ALPHA-D-GLUCOSE	13224-99-2	Methanol (Purge & Trap Grade)	S-4102
1-ETHYLNAPHTHALENE	1127-76-0	Methanol (Purge & Trap Grade)	S-4001
2-ETHYLNAPHTHALENE	939-27-5	Methanol (Purge & Trap Grade)	S-1980
3-ETHYLPENTANE	617-78-7	Methanol (Purge & Trap Grade)	S-1982
2-ETHYLPHENOL	90-00-6	Methanol (Purge & Trap Grade)	S-1983
3-ETHYLPHENOL	620-17-7	Methanol (Purge & Trap Grade)	S-4300
4-ETHYLPHENOL	123-07-9	Methanol (Purge & Trap Grade)	S-1985
2-ETHYLTHIOPHENE	872-55-9	Methanol (Purge & Trap Grade)	S-1986
2-ETHYLTOLUENE	611-14-3	Methanol (Purge & Trap Grade)	S-1984
3-ETHYLTOLUENE	620-14-4	Methanol (Purge & Trap Grade)	S-1987
4-ETHYLTOLUENE	622-96-8	Methanol (Purge & Trap Grade)	S-1990
FAMPHUR	52-85-7	Methanol	S-1995
FARNESENE	502-61-4	Methanol (Purge & Trap Grade)	S-1989
FENAMIPHOS SULFONE	31972-44-8	Acetone	S-1996
FENAMIPHOS SULFOXIDE	31972-43-7	Acetone	S-1998
FENARIMOL	60168-88-9	Methanol (Purge & Trap Grade)	S-1997
FENBUCONAZOLE	114369-43-6	Methanol (Purge & Trap Grade)	S-3985
FENBUTATIN-OXIDE	13356-08-6	Acetone	S-1999
FENCHLORPHOS	299-84-3	Methanol	S-2000
FENITROTHION	122-14-5	Acetone	S-2001
FENOXAPROP-ETHYL	66441-23-4	Methanol	S-2002
FENOXYCARB	72490-01-8	Methanol	S-5463
FENPROPATRIN	39515-41-8	Methanol (Purge & Trap Grade)	S-4246
FENPROPIDIN	67306-00-7	Methanol (Purge & Trap Grade)	S-2004
FENPROPIIMORPH	67564-91-4	Methanol (Purge & Trap Grade)	S-2003
FENTHION	55-38-9	Acetone	S-2010
FENTHION SULFOXIDE	3761-41-9	Acetone	S-4316
FENURON	101-42-8	Methanol	S-2011
FIPRONIL	120068-37-3	Methanol (Purge & Trap Grade)	S-4004
FIPRONIL SULFONE	120068-36-2	Methanol	S-4699
FLAMPROP-ISOPROPYL	52756-22-6	Methanol (Purge & Trap Grade)	S-4269
FLAMPROP-METHYL	52756-25-9	Methanol (Purge & Trap Grade)	S-4263
FLUAZIFOP	69335-91-7	Methanol (Purge & Trap Grade)	S-2015
FLUAZIFOP-BUTYL	69806-50-4	Acetone	S-2020
FLUAZINAM	79622-59-6	Acetone	S-2021
FLUCLORALIN	33245-39-5	Methanol (Purge & Trap Grade)	S-2025
FLUCOFURON	370-50-3	Methanol	S-5131
FLUDIOXONIL	131341-86-1	Methanol (Purge & Trap Grade)	S-2061
FLUMETRALIN	62924-70-3	Methanol (Purge & Trap Grade)	S-4180
FLUMIOXAZIN	103361-09-7	Acetonitrile	S-5193
FLUOMETURON	2164-17-2	Methanol	S-2026
FLUORANTHENE	206-44-0	Methylene Chloride	S-2030
FLUORANTHENE-D ₁₀	93951-69-0	Methanol (Purge & Trap Grade)	S-4111
FLUORENE	86-73-7	Methylene Chloride	S-2035
FLUORENE-D ₁₀	86-73-7	Methanol (Purge & Trap Grade)	S-2036

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
FLUORENONE	486-25-9	Methanol (Purge & Trap Grade)	S-4332
FLUORESCIN	2321-07-5	Methanol (Purge & Trap Grade)	S-2037
4-FLUOROANILINE	371-40-4	Methanol (Purge & Trap Grade)	S-4048
FLUOROBENZENE	462-06-6	Methanol (Purge & Trap Grade)	S-2040
4-FLUOROBENZOIC ACID	456-22-4	Methanol (Purge & Trap Grade)	S-2042
2-FLUOROBIPHENYL	321-60-8	Methanol	S-2045
FLUOROCHLORIDONE	61213-25-0	Methanol (Purge & Trap Grade)	S-4277
FLUORODIFEN	15457-05-3	Methanol (Purge & Trap Grade)	S-4260
1-FLUORONAPHTHALENE	321-38-0	Methanol (Purge & Trap Grade)	S-2047
2-FLUORONAPHTHALENE	N/A	Methanol (Purge & Trap Grade)	S-4308
2-FLUOROPHENOL	367-12-4	Methanol (Purge & Trap Grade)	S-2050
3-FLUOROPHENOL	372-20-3	Methanol (Purge & Trap Grade)	S-2051
4-FLUOROPHENOL	371-41-5	Methanol (Purge & Trap Grade)	S-2055
2-FLUOROTOLUENE	95-52-3	Methanol (Purge & Trap Grade)	S-4159
FLUOROTRICHLOROMETHANE	75-69-4	Methanol (Purge & Trap Grade)	S-3620A
FLUOROXYPYR	69377-81-7	Methanol (Purge & Trap Grade)	S-3954
FLUOROXYPYR-1-METHYLHEPTYLESTER	81406-37-3	Methanol (Purge & Trap Grade)	S-3955
FLUTOLANIL	66332-96-5	Methanol (Purge & Trap Grade)	S-2059
FLUTRIAFOL	76674-21-0	Methanol (Purge & Trap Grade)	S-2058
FOLICUR	107534-96-3	Methanol	S-2056
FOLPET	133-07-3	Methanol	S-2057
FORMALDEHYDE	50-00-0	distilled water	S-2060
FORMAMIDE	75-12-7	Methanol (Purge & Trap Grade)	S-2062
FORMANILIDE	103-70-8	Methanol (Purge & Trap Grade)	S-2065
FORMETANATE HYDROCHLORIDE	23422-53-9	Methanol	S-2066
FORMIC ACID	64-18-6	distilled water	S-2067
4-FORMYLMORPHOLINE	4394-85-8	Methanol (Purge & Trap Grade)	S-2068
FOSAMINE AMMONIUM	25954-13-6	Methanol (Purge & Trap Grade)	S-2070
FRUCTOSE	57-48-7	HPLC H2O	S-4189
FRUCTOSE	57-48-7	HPLC H2O	S-4189-W
FUEL OIL #4	68476-31-3	Methanol (Purge & Trap Grade)	S-2073
FUEL OIL #6	68553-00-4	Methanol (Purge & Trap Grade)	S-2071
FUMARIC ACID	110-17-8	Methanol (Purge & Trap Grade)	S-2074
2-FURALDEHYDE	98-01-1	Methanol (Purge & Trap Grade)	S-2075
FURAN	110-00-9	Methanol (Purge & Trap Grade)	S-2080
FURATHIOCARB	65907-30-4	Methanol	S-5464
FURFURYL ALCOHOL	98-00-0	Methanol (Purge & Trap Grade)	S-2079
D-GALACTOSAMINE HYDROCHLORIDE	1772-03-8	Methanol (Purge & Trap Grade)	S-2081
GALACTOSAN	644-76-8	Methanol	S-5522
GAMMA-BHC	58-89-9	Methanol (Purge & Trap Grade)	S-485
GAMMA-BUTYROLACETONE	96-48-0	Methanol (Purge & Trap Grade)	S-701
GAMMA-CHLORDANE	5103-74-2	Methanol	S-775
ALPHA-D-GLUCOSE	492-62-6	Methanol (Purge & Trap Grade)	S-2086
GLUPHOSINATE AMMONIUM	77182-82-8	Methanol (Purge & Trap Grade)	S-2083
GLUTARIC ACID	110-94-1	Methanol (Purge & Trap Grade)	S-4166
GLUTARIC DIALDEHYDE	111-30-8	distilled water	S-3854
GLYCEROL	56-81-5	Methanol (Purge & Trap Grade)	S-4192
GLYCEROL 2-PHOSPHATE DI-NA SALT HYDRATE	NA	Methanol (Purge & Trap Grade)	S-2084
GLYCEROL PROPOXYLATE TRIACRYLATE	52408-84-1	Methanol (Purge & Trap Grade)	S-4103
GLYCIDOL	556-52-5	Methanol (Purge & Trap Grade)	S-2087
GLYCOLIC ACID	79-14-1	Methanol (Purge & Trap Grade)	S-2088
GLYOXAL	107-22-2	Methanol (Purge & Trap Grade)	S-3967
GLYPHOSATE	1071-83-6	Meth P&T 10%Water 90%	S-3092
N-HENEICOSANE	629-94-7	Methanol (Purge & Trap Grade)	S-2090
N-HENTRIACONTANE	630-04-6	Methanol (Purge & Trap Grade)	S-2095

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
HEPTACHLOR	76-44-8	Methanol	S-2100
HEPTACHLOR EPOXIDE (ISOMER B)	1024-57-3	Methanol (Purge & Trap Grade)	S-2105
HEPTACHLOR EPOXIDE (ISOMER A)	28044-83-9	Methanol (Purge & Trap Grade)	S-2106
HEPTACHLOR-2,3-EXO-EPOXIDE	1024-57-3	Methanol (Purge & Trap Grade)	S-2110
N-HEPTACOSANE	593-49-7	Methanol (Purge & Trap Grade)	S-2115
N-HEPTADECANE	629-78-7	Methanol (Purge & Trap Grade)	S-2120
HEPTYL ALDEHYDE	111-71-7	Methanol (Purge & Trap Grade)	S-2121
N-HEPTANE	142-82-5	Methanol (Purge & Trap Grade)	S-2125
N-HEPTANE	142-82-5	Methylene Chloride	S-2125-MC
N-HEPTANE-D ₁₆	142-82-5	Methanol (Purge & Trap Grade)	S-2126
1-HEPTANOL	111-70-6	Methanol (Purge & Trap Grade)	S-2130
2-HEPTANONE	110-43-0	Methanol (Purge & Trap Grade)	S-2131
3-HEPTANONE	106-35-4	Methanol (Purge & Trap Grade)	S-4233
1-HEPTENE	592-76-7	Methanol (Purge & Trap Grade)	S-2135
HEPTENOPHOS	23560-59-0	Methanol (Purge & Trap Grade)	S-4261
HEPTONIC ACID	111-14-8	Methanol (Purge & Trap Grade)	S-2137
HEXACHLORO BENZENE	118-74-1	Benzene	S-2140
HEXACHLOROBUTADIENE	87-68-3	Methanol (Purge & Trap Grade)	S-2145
HEXACHLOROCYCLOPENTADIENE	77-47-4	Methanol (Purge & Trap Grade)	S-2150
HEXACHLOROETHANE	67-72-1	Methanol (Purge & Trap Grade)	S-2155
HEXACHLOROPHENE	70-30-4	Methylene Chloride	S-2160
HEXACHLOROPROPENE	1888-71-7	Methanol (Purge & Trap Grade)	S-2165
HEXA CONAZOLE	79983-71-4	Methanol	S-5465
N-HEXACONTANE	7667-80-3	p-xylene	S-2166
N-HEXACOSANE	630-01-3	Methylene Chloride	S-2170
N-HEXADECANE	544-76-3	Methylene Chloride	S-2175
1-HEXADECANOL	36653-82-4	Methanol (Purge & Trap Grade)	S-3941
HEXADECENE-1	629-73-2	Methylene Chloride	S-2180
1,4-HEXADIENE	592-45-0	Methanol (Purge & Trap Grade)	S-2177
1,5-HEXADIENE	592-42-7	Methanol (Purge & Trap Grade)	S-2178
1,1,1,3,3,3-HEXAFLUORO-2-METHYL-2-PROPANOL	1515-14-6	Methanol (Purge & Trap Grade)	S-3913
1,1,1,3,3,3-HEXAFLUORO-2-PROPANOL	920-66-1	Methanol (Purge & Trap Grade)	S-3911
HEXAFLUOROBENZENE	392-56-3	Methanol (Purge & Trap Grade)	S-2182
HEXAMETHYLBENZENE	87-85-4	Methanol (Purge & Trap Grade)	S-2181
HEXAMETHYLPHOSPHORAMIDE	680-31-9	Methanol (Purge & Trap Grade)	S-2185
2,6,10,15,19,23-HEXAMETHYLTETRACOSANE	111-01-3	Hexane	S-4170
HEXANAL	66-25-1	Methanol (Purge & Trap Grade)	S-2187
N-HEXANE	110-54-3	Methanol (Purge & Trap Grade)	S-2190
N-HEXANE-D ₁₄	21666-38-6	Methanol (Purge & Trap Grade)	S-2191
1,6-HEXANEDIOL DIACRYLATE	13048-33-4	Methanol (Purge & Trap Grade)	S-4105
1,6-HEXANEDIOL	629-11-8	Methanol (Purge & Trap Grade)	S-2195
2,3-HEXANEDIONE	3848-24-6	Methanol (Purge & Trap Grade)	S-4143
HEXANENITRILE	628-73-9	Methanol (Purge & Trap Grade)	S-4237
HEXANOIC ACID	142-62-1	distilled water	S-2197
2-HEXANOL	626-93-7	Methanol	S-5492
3-HEXANOL	623-37-0	Methanol	S-5491
2-HEXANONE	591-78-6	Methanol (Purge & Trap Grade)	S-2200
3-HEXANONE	589-38-8	Methanol (Purge & Trap Grade)	S-4236
HEXAOXACYCLO-OCTADECANE	17455-13-9	Methanol (Purge & Trap Grade)	S-2205
HEXAPENTACONTANE	7719-82-6	Methanol (Purge & Trap Grade)	S-4208
N-HEXATRICONTANE	630-06-8	p-xylene	S-2210
1,3,5-HEXATRIENE	2235-12-3	Methanol (Purge & Trap Grade)	S-4119
HEXENE-1	592-41-6	Methanol (Purge & Trap Grade)	S-2225
CIS-2-HEXENE	7688-21-3	Methanol (Purge & Trap Grade)	S-2215
TRANS-2-HEXENE	4050-45-7	Methanol (Purge & Trap Grade)	S-2220

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
HEXYL 2-ETHYLHEXYL PHTHALATE	75673-16-4	Methanol (Purge & Trap Grade)	S-4158
HEXYL ALCOHOL	111-27-3	Methanol (Purge & Trap Grade)	S-2230
2-HEXYLOXYETHANOL	112-25-4	Methylene Chloride	S-2226
HMX	2691-41-0	Acetonitrile	S-2229
HYDRAZINE	302-01-2	Methanol (Purge & Trap Grade)	S-2231
HYDRAZOBENZENE	122-66-7	Methanol (Purge & Trap Grade)	S-2232
HYDROGEN SULFIDE	7783-06-4	Methanol	S-3987
HYDROQUINONE	123-31-9	Methanol (Purge & Trap Grade)	S-2235
2-HYDROXY ATRAZINE	2163-68-0	Dimethyl Sulfoxide	S-2236
4-HYDROXY-2-MERCAPTO-6-METHYLPYRIMIDINE	56-04-2	Methanol (Purge & Trap Grade)	S-2242C
4-HYDROXY-2-MERCAPTO-6-PROPYLPYRIMIDINE	51-52-5	Methanol (Purge & Trap Grade)	S-2242
4-HYDROXY-4-METHYL-2-PENTANONE	123-42-2	Methanol (Purge & Trap Grade)	S-2241
P-HYDROXYBENZOIC ACID, FREE ACID	99-96-7	Methanol (Purge & Trap Grade)	S-2239
P-HYDROXYBENZOIC ACID METHYL ESTER	99-76-3	Methanol (Purge & Trap Grade)	S-3889
3-HYDROXYCARBOFURAN	16655-82-6	Acetonitrile	S-2240
5-(HYDROXYMETHYL) FURFURAL	67-47-0	Methanol (Purge & Trap Grade)	S-2227
2-HYDROXYPROPIONITRILE	78-97-7	Methanol (Purge & Trap Grade)	S-2344
IMAZALIL	14933	Methanol (Purge & Trap Grade)	S-2346
IMAZAPYR	81334-34-1	Methanol	S-3966
IMAZAQUIN	81335-37-7	Methanol (Purge & Trap Grade)	S-2243
IMAZETHAPYR	81335-77-5	Methanol	S-2244
IMAZILIL	73790-28-0	Methanol (Purge & Trap Grade)	S-2246
IMIDACLOPRID	138261-41-3	Acetone	S-2247
IMIDAN	732-11-6	Methanol	S-2245
INDAN	496-11-7	Methanol (Purge & Trap Grade)	S-2249
INDENE	95-13-6	Methylene Chloride	S-2250
INDENO(1,2,3-CD)PYRENE	193-39-5	Methylene Chloride/Benzene (50:50)	S-2255
INDOLE	120-72-9	Methanol (Purge & Trap Grade)	S-2260
IODOFENPHOS	18181-70-9	Methanol (Purge & Trap Grade)	S-2265
IODOMETHANE	74-88-4	Methanol (Purge & Trap Grade)	S-2270
IODOSULFURON-METHYL-SODIUM	144550-36-7	Methanol	S-4908
IOXYNIL METHYL ESTER	N/A	Methanol (Purge & Trap Grade)	S-1554A
IPRODIONE	36734-19-7	Isooctane	S-2272
ISAZOPHOS	42509-80-8	Methanol (Purge & Trap Grade)	S-4164
ISOAMYL ACETATE	123-92-2	Methanol (Purge & Trap Grade)	S-4036
ISOAMYLBENZENE	2049-94-7	Methanol (Purge & Trap Grade)	S-2273
ISOBUTYL ACETATE	110-19-0	Methanol (Purge & Trap Grade)	S-2274
ISOBUTYL ALCOHOL	78-83-1	Methanol (Purge & Trap Grade)	S-2585A
ISOBUTYL ISOBUTYRATE	97-85-8	Methanol (Purge & Trap Grade)	S-2275
ISOBUTYLBENZENE	538-93-2	Methanol (Purge & Trap Grade)	S-2276
ISO-BUTYLCYCLOHEXANE	1678-98-4	Methanol (Purge & Trap Grade)	S-686
ISOBUTYRALDEHYDE	78-84-2	Methanol (Purge & Trap Grade)	S-2280
ISOBUTYRIC ACID	79-31-2	distilled water	S-2282
ISODRIN	465-73-6	Methanol	S-2285
ISOENPHOS	25311-71-1	Methanol (Purge & Trap Grade)	S-2290
ISOCTYL ALCOHOL	26952-21-6	Methanol (Purge & Trap Grade)	S-2292
ISOPHORONE	78-59-1	Methanol (Purge & Trap Grade)	S-2295
ISOPRENE	78-79-5	Methanol (Purge & Trap Grade)	S-2300
ISOPROCARB	2631-40-5	Methanol	S-4253
ISOPROPALIN	33820-53-0	Methanol (Purge & Trap Grade)	S-2304
ISOPROPYL ACETATE	108-21-4	Methanol (Purge & Trap Grade)	S-2305
ISOPROPYL-1,1,1,3,3,3- D6 -ALCOHOL	3976-29-2	Methanol (Purge & Trap Grade)	S-3935
ISOPROPYL ETHER	108-20-3	Methanol (Purge & Trap Grade)	S-2310
ISOPROPYLBENZENE	98-82-8	Methanol (Purge & Trap Grade)	S-2315
2-ISOPROPYLPHENOL	88-69-7	Methanol (Purge & Trap Grade)	S-4293

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
3-ISOPROPYLPHENOL	618-45-1	Methanol (Purge & Trap Grade)	S-2317
4-ISOPROPYLPHENOL	99-89-8	Methanol (Purge And Trap Grade)	S-5514
3-ISOPROPYLPHENYL 3-ISOPROPYLPHENYL N-METHYLCARBAMATE	N/A	Methanol	S-1002
P-ISOPROPYLTOLUENE	99-87-6	Methanol (Purge & Trap Grade)	S-2320
2-ISOPROPYLTOLUENE	527-84-4	Methanol (Purge & Trap Grade)	S-2319
3-ISOPROPYLTOLUENE	535-77-3	Methanol (Purge & Trap Grade)	S-2318
ISOPROTURON	34123-59-6	Methanol	S-3945
ISOQUINOLINE	119-65-3	Methanol (Purge & Trap Grade)	S-2325
ISOSAFROLE	120-58-1	Methanol (Purge & Trap Grade)	S-2330
ISOSTEARIC ACID	2724-58-5	Methanol (Purge & Trap Grade)	S-4314
ISOVALERALDEHYDE	590-86-3	Methanol (Purge & Trap Grade)	S-2331
ISOVALERIC ACID	503-74-2	distilled water	S-2332
IVERMECTIN	70288-86-7	Acetone	S-5457
JP-8 FUEL	N/A	Methanol (Purge & Trap Grade)	S-2333
KELTHANE	115-32-2	Methanol	S-2335
KEPONE	143-50-0	Methanol	S-2340
KEROSENE	8008-20-6	Hexane	S-2341-500
KEROSENE	8008-20-6	Methylene Chloride	S-2341
L(-)-FENCHONE	7787-20-4	Methanol (Purge & Trap Grade)	S-5091
LACTIC ACID	50-21-5	Methanol (Purge & Trap Grade)	S-2342
(+)- LACTIC ACID	79-33-4	Distilled Water	S-5129
LAMBDA-CYHALOTHRIN	91465-08-6	Toluene	S-1044
LEPTOPHOS OXON	25006-32-0	Methanol (Purge & Trap Grade)	S-2348
LEVOGLUCOSAN	498-07-7	Methanol	S-5520
LIDOCAINE	137-58-6	Methanol	S-2347
LIMONENE	5989-27-5	Methanol (Purge & Trap Grade)	S-4021
LINALOOL	78-70-6	Methanol	S-5133
LINOLEIC ACID	60-33-3	Methanol (Purge & Trap Grade)	S-3990
LINOLENIC ACID	463-40-1	Methanol (Purge & Trap Grade)	S-3991
LINURON	330-55-2	Acetone	S-2350
LONTREL (CLOPYRALID)	1702-17-6	Methanol (Purge & Trap Grade)	S-2354
LYSINE	56-87-1	Methanol (Purge & Trap Grade)	S-4298
MALAOXON	1634-78-2	Methanol	S-2356
MALATHION	121-75-5	Methanol	S-2355
MALEIC ANHYDRIDE	108-31-6	Methanol (Purge & Trap Grade)	S-2357
MALEIC HYDRAZIDE	123-33-1	Methanol (Purge & Trap Grade)	S-2360
MALIC ACID	636-61-3	Methanol (Purge & Trap Grade)	S-4168
MALONIC ACID	141-82-2	Methanol (Purge & Trap Grade)	S-2361
MALONONITRILE	109-77-3	Methanol (Purge & Trap Grade)	S-3896
MALTOSE	6363-53-7	Methanol (Purge & Trap Grade)	S-4188
D-MANNOSAMINE HYDROCHLORIDE	5505-63-5	Methanol (Purge & Trap Grade)	S-2363
MANNOSAN	14168-65-1	Methanol	S-5521
MCPA METHYL ESTER	2436-73-9	Methanol	S-956
MCPB	94-81-5	Methanol (Purge & Trap Grade)	S-2364
MCPB METHYL ESTER	N/A	Methanol (Purge & Trap Grade)	S-2364A
MECOPROP	93-65-2	Methanol	S-2365
2-MERCAPTO-1-METHYLIMIDAZOLE	60-56-0	Methanol (Purge & Trap Grade)	S-2367
2-MERCAPTOBENZOTHAZOLE	149-30-4	Methanol (Purge & Trap Grade)	S-2366
MESOSULFURON-METHYL	208465-21-8	Methanol	S-4909
MESTRANOL	72-33-3	Methanol (Purge & Trap Grade)	S-2369
METALAXYL-M	70630-17-0	Acetonitrile	S-5511
METALDEHYDE	108-62-3	Methanol	S-5027
METALDEHYDE	108-62-3	Acetone	S-5027-ACE
METALDEHYDE	108-62-3	Acetone	S-5027-100ACE

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
METHACRYLONITRILE	126-98-7	Methanol (Purge & Trap Grade)	S-2375
METHAMIDOPHOS	10265-92-6	Acetone	S-2377
METHANE	74-82-8	Methanol (Purge & Trap Grade)	S-2379
METHANE	74-82-8	deionized water	S-2379-W
METHANESULFONIC ACID	75-75-2	Methanol (Purge & Trap Grade)	S-2378
METHANETHIOL	74-93-1	Methanol (Purge & Trap Grade)	S-2433
METHANOL	67-56-1	distilled water	S-2380
METHAPYRILENE HCL	135-23-9	Methanol (Purge & Trap Grade)	S-2450
METHIDATHION	950-37-8	Methanol	S-2384
METHIOCARB	2032-65-7	Acetonitrile	S-2385
2-METHYLPENTANE	107-83-5	Methanol (Purge & Trap Grade)	S-2390
METHOMYL	16752-77-5	Acetonitrile	S-2395
METHOPRENE	40596-69-8	Methanol	S-2396
METHOPROTRYNE	841-06-5	Methanol (Purge & Trap Grade)	S-4264
1-METHOXY-2-PROPANOL	107-98-2	Methanol (Purge & Trap Grade)	S-2412
2-METHOXY-4-METHYLPHENOL	93-51-6	Methanol (Purge & Trap Grade)	S-985
2-METHOXY-5-METHYLANILINE	120-71-8	Methanol (Purge & Trap Grade)	S-2415
2-METHOXY-5-NITROANILINE	99-59-2	Methanol (Purge & Trap Grade)	S-2420
METHOXYCHLOR	72-43-5	Methanol	S-2397
o,p'-METHOXYCHLOR	72-43-5	Methanol (Purge & Trap Grade)	S-2400
p,p'-METHOXYCHLOR	72-43-5	Methanol (Purge & Trap Grade)	S-2405
2-METHOXYETHANOL	109-86-4	Methanol (Purge & Trap Grade)	S-2407
2-METHOXYETHANOL	109-86-4	distilled water	S-2407-W
2-METHOXYETHYL ETHER	111-96-6	Methanol (Purge & Trap Grade)	S-3908
2-METHOXYPHENOL (GUAIACOL)	90-05-1	Methanol (Purge & Trap Grade)	S-986
3-METHOXYPHENOL	150-76-5	Methanol (Purge & Trap Grade)	S-4110
3-METHOXYPROPIONITRILE	110-67-8	Methanol (Purge & Trap Grade)	S-2410
3-METHOXYPROPYLAMINE	5332-73-0	Methanol (Purge & Trap Grade)	S-2416
METHYLCYCLOPENTANE	96-37-7	Methanol (Purge & Trap Grade)	S-2422
METHYL 2,3-DIBROMOPROPIONATE	600-05-5	Methanol (Purge & Trap Grade)	S-3895A
METHYL ACETATE	79-20-9	Methanol (Purge & Trap Grade)	S-3893
METHYL ACRYLATE	96-33-3	Methanol (Purge & Trap Grade)	S-2424
METHYL ALCOHOL-D ₃	1849-29-2	distilled water	S-2381
METHYL ARACHIDATE	1120-28-1	Methanol	S-4215
AZINPHOS-METHYL	86-50-0	Acetone	S-2085
METHYL BEHENATE	929-77-1	Methanol	S-4216
METHYL BROMODICHLOROACETATE	N/A	Methanol (Purge & Trap Grade)	S-4043
2-METHYL BUTANEDIOL	N/A	Methanol (Purge & Trap Grade)	S-2411
METHYL CAPROATE	106-70-7	Methanol	S-4220
METHYL CAPRYLATE	111-11-5	Methanol	S-4649
METHYL CHLORODIBROMOACETATE	N/A	Methyl-tert-Butyl Ether	S-4044
METHYL Cis-9-HEXADECENOATE	1120-25-8	Methanol	S-5526
METHYL Cis-13-DOCOSENOATE	1120-34-9	Methanol	S-5529
METHYL Cis-15-TETRACOSENOATE	2733-88-2	Methanol	S-5530
METHYL DECANOATE	110-42-9	Methanol	S-4217
METHYL DACTHAL	1861-32-1	Methanol	S-1065
METHYL DACTHAL METHYL ESTER	N/A	Methanol (Purge & Trap Grade)	S-1066
METHYL DECANOATE	110-42-9	Methanol	S-4217
METHYL DISULFIDE	624-92-0	Methanol (Purge & Trap Grade)	S-2599
METHYL ETHER (GAS)	115-10-6	Methanol (Purge & Trap Grade)	S-2428
METHYL GAMMA-LINOLENATE	16326-32-2	Methanol	S-5528
METHYL HEPTADECANOATE	1731-92-6	Methanol	S-4657
METHYL HEPTANOATE	106-73-0	Methanol	S-4648
METHYL HEXANOATE	106-70-7	Methanol (Purge & Trap Grade)	S-4220
METHYL HYDRAZINE	60-34-4	Methanol (Purge & Trap Grade)	S-4199

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
METHYL ISOCYANATE	624-83-9	Hexane	S-2431
METHYL LAURATE	111-82-0	Methanol	S-4652
METHYL LINOLEATE	112-63-0	Methanol	S-4219
METHYL LINOLENATE	301-00-8	Methanol (Purge & Trap Grade)	S-4222
METHYL MALONIC ACID	516-05-2	Methanol (Purge & Trap Grade)	S-2432
METHYL METHACRYLATE	80-62-6	Methanol (Purge & Trap Grade)	S-2435
METHYL METHANESULFONATE	66-27-3	Methanol (Purge & Trap Grade)	S-2440
METHYL MYRISTATE	124-10-7	Methanol	S-4654
METHYL NONADECANOATE	1731-94-8	Methanol	S-4659
METHYL NONANOATE	1731-84-6	Methanol	S-4650
METHYL OLEATE	112-62-9	Methanol (Purge & Trap Grade)	S-4223
METHYL PENTADECANOATE	7162-64-1	Methanol	S-4655
METHYL PALMITATE	112-39-0	Methanol	S-4656
METHYL PARATHION	298-00-0	Methanol	S-2445
METHYL RICINOLEATE	141-24-2	Methanol	S-5527
METHYL STEARATE	112-61-8	Methanol	S-2453
METHYL TRIDECANOATE	1731-88-0	Methanol	S-4653
METHYL UNDECANOATE	1731-86-8	Methanol	S-4651
2-METHYLPHENANTHRENE	2531-84-2	Methanol (Purge & Trap Grade)	S-3999
METHYL SALICYLATE	119-36-8	Methanol (Purge & Trap Grade)	S-2458
METHYL STEARATE	112-61-8	Methanol	S-2453
METHYL SULFIDE	75-18-3	Methanol (Purge & Trap Grade)	S-2454
METHYL TETRACOSANOATE	2442-49-1	Methanol (Purge & Trap Grade)	S-4225
METHYL TRIBROMOACETATE	N/A	Methanol (Purge & Trap Grade)	S-4045
METHYL VINYL KETONE	78-94-4	Methanol (Purge & Trap Grade)	S-2611
METHYL YELLOW	60-11-7	Methanol (Purge & Trap Grade)	S-3856
4-METHYL-1,3-DIOXANE	1120-97-4	Methanol (Purge & Trap Grade)	S-2583
2-METHYL-1,3-DIOXOLANE	497-26-7	Methanol (Purge & Trap Grade)	S-2580
4-METHYL-1,3-DIOXOLANE	1072-47-5	Methanol (Purge & Trap Grade)	S-2581
2-METHYL-1,4-PENTANEDIOL	N/A	Methanol (Purge & Trap Grade)	S-2594
2-METHYL-1,5-PENTANEDIOL	N/A	Methanol (Purge & Trap Grade)	S-2601
3-METHYL-1-BUTANOL	123-51-3	Methanol (Purge & Trap Grade)	S-2579
3-METHYL-1-BUTENE	563-45-1	Methanol (Purge & Trap Grade)	S-4165
1-METHYL-1-CYCLOPENTENE	693-89-0	Methanol (Purge & Trap Grade)	S-689
2-METHYL-1-PHENYL-2-PROPANOL	100-86-7	Methanol (Purge & Trap Grade)	S-4031
1-METHYL-1-PROPANETHIOL	513-53-1	Methanol (Purge & Trap Grade)	S-691
2-METHYL-1-PROPANETHIOL	513-44-0	Methanol (Purge & Trap Grade)	S-2587
2-METHYL-1-PROPANOL	78-83-1	Methanol (Purge & Trap Grade)	S-2585
METHYL-2,3-DIBROMOPROPIONATE	2905-69-3	Methanol (Purge & Trap Grade)	S-2597
2-METHYL-2,4-PENTANEDIOL	107-41-5	Methanol (Purge & Trap Grade)	S-2595
METHYL-2-BROMOPROPIONATE	57885-43-5	Methyl-tert-Butyl Ether	S-2598
2-METHYL-1-BUTANOL	137-32-6	Methanol (Purge & Trap Grade)	S-4238
3-METHYL-2-BUTANONE	563-80-4	Methanol (Purge & Trap Grade)	S-2604
2-METHYL-2-BUTENE	513-35-9	Methanol (Purge & Trap Grade)	S-4039
5-METHYL-2-HEXANONE	110-12-3	Methanol	S-2606
4-METHYL-2-PENTANOL	108-11-2	Methanol (Purge & Trap Grade)	S-2596
4-METHYL-2-PENTANONE	108-10-1	Methanol (Purge & Trap Grade)	S-2600
2-METHYL-2-PENTENAL	623-36-9	Methanol (Purge & Trap Grade)	S-2603
3-METHYL-2-PENTENE	922-61-2	Methanol (Purge & Trap Grade)	S-3910
TRANS-3-METHYL-2-PENTENE	616-12-6	Methanol (Purge & Trap Grade)	S-2446
2-METHYL-2-PROPANETHIOL	75-66-1	Methanol (Purge & Trap Grade)	S-2586
2-METHYL-2-PROPANOL	75-65-0	Methanol (Purge & Trap Grade)	S-2602
1-METHYL-2-PROPYLBENZENE	1074-17-5	Methanol (Purge & Trap Grade)	S-2588
1-METHYL-2-PYRROLIDINONE	872-50-4	Methanol (Purge & Trap Grade)	S-2590
3-METHYL-3-BUTEN-OL	763-32-6	Methanol (Purge & Trap Grade)	S-2418

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-METHYL-3-BUTYN-2-OL	115-19-5	Methanol (Purge & Trap Grade)	S-2605
METHYL-3-METHOXYPROPIONATE	3852-09-3	Methanol (Purge & Trap Grade)	S-3857
2-METHYL-4,6-BIS([OCTYLTHIO]METHYL) PHENOL [IRGANOX 1520]	110553-27-0	Methanol (Purge & Trap Grade)	S-3902
1-METHYL-4-PROPYLBENZENE	1074-55-1	Methanol (Purge & Trap Grade)	S-2589
2-METHYL-5-NITROANILINE	99-55-8	Methanol (Purge & Trap Grade)	S-2610
9-METHYLACRIDINE	611-64-3	Methanol (Purge & Trap Grade)	S-2456
METHYLAMINE	74-89-5	Methanol (Purge & Trap Grade)	S-2457
METHYLAMINE HYDROCHLORIDE	593-51-1	Methanol (Purge & Trap Grade)	S-2457A
N-METHYLANILINE	100-61-8	Methanol (Purge & Trap Grade)	S-2459
2-METHYLANTHRACENE	613-12-7	Methanol (Purge & Trap Grade)	S-2460
3-METHYLBENZENTHIOL	108-40-7	Methanol (Purge & Trap Grade)	S-2413
4-METHYLBENZENTHIOL	106-45-6	Methanol (Purge & Trap Grade)	S-2414
2-METHYLBENZOFURAN	4265-25-2	Methanol (Purge & Trap Grade)	S-2461
METHYLBENZYL ALCOHOL	98-85-1	Methanol (Purge & Trap Grade)	S-4176
METHYL-BROMOACETATE	96-32-2	Methanol (Purge & Trap Grade)	S-521
METHYL-BROMOCHLOROACETATE	N/A	Methanol (Purge & Trap Grade)	S-530A
2-METHYLBUTANE	78-78-4	Methanol (Purge & Trap Grade)	S-2462
2-METHYLBUTANE	78-78-4	Methanol (Purge & Trap Grade)	S-2464
(S)-(-)-2-METHYL-BUTANOL	1565-80-6	Methanol (Purge & Trap Grade)	S-3958
METHYL-CHLOROACETATE	96-34-4	Methyl-tert-Butyl Ether	S-796
3-METHYLCHOLANTHRENE	56-49-5	Methylene Chloride	S-2465
4-METHYLCHRYSENE	3351-30-2	Methylene Chloride	S-2425
6-METHYLCHRYSENE	1705-85-7	Methylene Chloride	S-2426
METHYLCYCLOHEXANE	108-87-2	Methanol (Purge & Trap Grade)	S-2470
2-METHYLCYCLOHEXANOL ACETATE (c&t)	54714-33-9	Methanol (Purge & Trap Grade)	S-2471
METHYLCYCLOPENTADIENE	26472-00-4	Methanol (Purge & Trap Grade)	S-3915
METHYLCYCLOPENTANE	96-37-7	Methanol (Purge & Trap Grade)	S-2475
3-METHYLCYCLOPENTENE	1120-62-3	Methanol (Purge & Trap Grade)	S-3972
METHYL-DIBROMOACETATE	N/A	Methanol (Purge & Trap Grade)	S-1221
METHYL-DICHLOROACETATE	116-54-1	Methanol (Purge & Trap Grade)	S-1285A
METHYLENE CHLORIDE	75-09-2	Methanol (Purge & Trap Grade)	S-2480
METHYLENE CHLORIDE-D ₂	75-09-2	Methanol (Purge & Trap Grade)	S-2481
METHYLENE DI-P-PHENYL DIISOCYANATE	101-68-8	Acetonitrile	S-2487
4,4'-METHYLENEBIS(2-CHLOROANILINE)	101-14-4	Methanol (Purge & Trap Grade)	S-2485
HEXACHLOROPHENE METHYL ESTER	100965-64-8	Methanol (Purge & Trap Grade)	S-2161
4,4'-METHYLENEDIANILINE	101-77-9	Methanol (Purge & Trap Grade)	S-2486
1-(3,4-METHYLENEDIOXYPHENYL) PROPANE	94-58-6	Methanol (Purge & Trap Grade)	S-2582
2-METHYLFLUORANTHENE	33543-31-6	Methanol (Purge & Trap Grade)	S-4101
1-METHYLFLUORENE	1730-37-6	Methanol (Purge & Trap Grade)	S-2490
METHYLFORMATE	107-31-3	Methanol (Purge & Trap Grade)	S-2495
2-METHYLFURAN	534-22-5	Methanol (Purge & Trap Grade)	S-2500
3-METHYLFURAN	930-27-8	Methanol (Purge & Trap Grade)	S-2501
5-METHYLFURFURAL	620-02-0	Methanol (Purge & Trap Grade)	S-2607
METHYLGLYOXAL	78-98-8	Methanol (Purge & Trap Grade)	S-3968
2-METHYLHEPTANE	592-27-8	Methanol (Purge & Trap Grade)	S-2505
3-METHYLHEPTANE	589-81-1	Methanol (Purge & Trap Grade)	S-2430
2-METHYLHEXANE	591-76-4	Methanol (Purge & Trap Grade)	S-2510
3-METHYLHEXANE	589-34-4	Methanol (Purge & Trap Grade)	S-2515
3-METHYLINDOLE	83-34-1	Methanol (Purge & Trap Grade)	S-2516
N-METHYLMORPHOLINE	109-02-4	Methanol (Purge & Trap Grade)	S-2519
1-METHYLNAPHTHALENE	90-12-0	Methanol (Purge & Trap Grade)	S-2520
2-METHYLNAPHTHALENE	91-57-6	Methanol (Purge & Trap Grade)	S-2525
2-METHYLNAPHTHALENE	91-57-6	Methylene Chloride	S-2525-MC
2-METHYLPENTANE	107-83-5	Methanol (Purge & Trap Grade)	S-2527
3-METHYLPENTANE	96-14-0	Methanol (Purge & Trap Grade)	S-2530

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1-METHYLPHENANTHRENE	832-69-9	Methanol (Purge & Trap Grade)	S-2535
1-METHYLPHENANTHRENE	832-69-9	Methylene Chloride	S-2535-MC
2-METHYLPHENOL	95-48-7	Methanol (Purge & Trap Grade)	S-2545
3-METHYLPHENOL	108-39-4	Methanol	S-2540
4-METHYLPHENOL	106-44-5	Methanol (Purge & Trap Grade)	S-2550
2-METHYLPROPANE	75-28-5	Methanol (Purge & Trap Grade)	S-2555
2-METHYLPROPENE	115-11-7	Methanol (Purge & Trap Grade)	S-2556
1-METHYLPYRENE	2381-71-7	Methylene Chloride	S-3858
2-METHYLSTYRENE	611-15-4	Methanol (Purge & Trap Grade)	S-2561
3-METHYLSTYRENE	222-44	Methanol (Purge & Trap Grade)	S-2562
4-METHYLSTYRENE	622-97-9	Methanol (Purge & Trap Grade)	S-2563
ALPHA-METHYLSTYRENE	98-83-9	Methanol (Purge & Trap Grade)	S-2560
N-METHYLSUCCINIMIDE	1121-07-9	Methanol (Purge & Trap Grade)	S-2567
METHYL SULFOXIDE	67-68-5	Methanol (Purge & Trap Grade)	S-2565
METHYL-TERT-BUTYL ETHER	1634-04-4	Methanol (Purge & Trap Grade)	S-2455
2-METHYLTETRAHYDROFURAN	96-47-9	Methanol (Purge & Trap Grade)	S-2570
3-METHYL TETRAHYDROFURAN	13423-15-9	Methanol (Purge & Trap Grade)	S-2571
4-METHYLTHIAZOLE	693-95-8	Methanol (Purge & Trap Grade)	S-2575
2-METHYLTHIOPHENE	554-14-3	Methanol (Purge & Trap Grade)	S-3982
3-METHYLTHIOPHENE	616-44-4	Methanol (Purge & Trap Grade)	S-2576
METHYL ARACHIDATE	1120-28-1	Methanol	S-4215
METHYL BEHENATE	929-77-1	Methanol	S-4662
METHYL TRICOSANOATE	2433-97-8	Methanol	S-4663
METHYL LIGNOCERATE	2442-49-1	Methanol	S-4664
METHYL ELAIDATE	2462-84-2	Methanol	S-4218
METHYL LINOLEATE	112-63-0	Methanol	S-4219
METHYL LINOLELAIDATE	2566-97-4	Methanol	S-4221
METHYL LINOLENATE	301-00-8	Methanol	S-4222
METHYL OLEATE	112-62-9	Methanol	S-4223
METHYL-TRICHLOROACETATE	598-99-2	Methanol (Purge & Trap Grade)	S-3576
4-METHYLVALERIC ACID	646-07-1	Methanol (Purge & Trap Grade)	S-2284
METOBROMURON	3060-89-7	Acetonitrile	S-2574
METOLACHLOR	51218-45-2	Methanol	S-2615
S-METOLACHLOR	87392-12-9	Acetonitrile	S-5203
METOLCARB	1129-41-5	Methanol	S-2617
METOXURON	19937-59-8	Methanol (Purge & Trap Grade)	S-3997
METRIBUZIN	21087-64-9	Methanol	S-2620
METSULFURON METHYL	74223-64-6	Acetone	S-2621
MEVINPHOS	7786-34-7	Methanol (Purge & Trap Grade)	S-2625
MEXACARBATE	315-18-4	Methanol (Purge & Trap Grade)	S-4265
MGK 264 (A=81% B=19%)	113-48-4	Methanol (Purge & Trap Grade)	S-2627
MGK 326	136-45-8	Methanol (Purge & Trap Grade)	S-2628
MILITARY FUEL STANDARD	N/A	Methanol (Purge & Trap Grade)	S-3859
MINERAL OIL	8042-47-5	Methylene Chloride	S-2630
MINERAL SPIRITS	64475-85-0	Methanol (Purge & Trap Grade)	S-3918
MIREX	2385-85-5	Hexane:Toluene (50:50)	S-2635
MOLINATE	2212-67-1	Methanol	S-2640
MONO-N-HEPTYLTIN TRICHLORIDE	59344-47-7	Ethanol	S-5517-ETOH
MONOCROTOPHOS	6923-22-4	Acetone	S-2645
MONOLINURON	1746-81-2	Acetonitrile	S-2642
MONOMETHYL TETRACHLOROTEREPTHALATE	N/A	Methylene Chloride	S-1068
MONOSTEARIN	123-94-4	Methanol	S-4646
MONURON	150-68-5	Methanol	S-2647
MORPHOLINE	110-91-8	Methanol (Purge & Trap Grade)	S-2648
M-XYLENEDIAMINE	1477-55-0	Methanol	S-4321

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
MYRISTIC ACID	544-63-8	Methanol (Purge & Trap Grade)	S-4230
N,N-DIETHYLANILINE	91-66-7	Methanol (Purge & Trap Grade)	S-4038
N,N-DIMETHYLTHIOFORMAMIDE	758-16-7	Methylene Chloride	S-3971
NAPHTHA	8030-30-6	Methylene Chloride	S-3861
NAPHTHA	64741-41-9	Methanol (Purge & Trap Grade)	S-3861A
NAPHTHALENE	91-20-3	Methanol	S-2655
NAPHTHALENE-D ₈	1146-65-2	Methanol (Purge & Trap Grade)	S-2660
1-NAPHTHOL	90-15-3	Acetonitrile	S-2665
2-NAPHTHOL	135-19-3	Acetonitrile	S-2666
1,4-NAPHTHOQUINONE	130-15-4	Methanol (Purge & Trap Grade)	S-2670
NEBURON	555-37-3	Methanol	S-2671
NEOPENYL CHLORIDE	753-89-9	Methanol (Purge & Trap Grade)	S-2675
N-HEPTATRIACONTANE	7194-84-5	Methanol (Purge & Trap Grade)	S-4113
NICOTINAMIDE	98-92-0	Methanol (Purge & Trap Grade)	S-4016
NICOTINE	54-11-5	Methanol	S-2680
NITRALIN	4726-14-1	Methanol (Purge & Trap Grade)	S-4289
NITRAPYRIN	1929-82-4	Methanol (Purge & Trap Grade)	S-4018
NITRAPYRIN	1929-82-4	Methanol (Purge & Trap Grade)	S-4266
NITRLOTRIACETIC ACID	139-13-9	Methanol (Purge & Trap Grade)	S-4096
5-NITROACENAPHTHENE	602-87-9	Methanol (Purge & Trap Grade)	S-2685
2-NITROANILINE	88-74-4	Methanol (Purge & Trap Grade)	S-2690
3-NITROANILINE	99-09-2	Methanol (Purge & Trap Grade)	S-2695
4-NITROANILINE	100-01-6	Methanol (Purge & Trap Grade)	S-2700
2-NITROANISOLE	91-23-6	Methanol (Purge & Trap Grade)	S-2702
NITROBENZENE	98-95-3	Methanol (Purge & Trap Grade)	S-2705
NITROBENZENE-D ₅	4165-60-0	Methanol (Purge & Trap Grade)	S-2710
4-NITROBIPHENYL	92-93-3	Methanol (Purge & Trap Grade)	S-2715
3-NITRODIPHENYL	2113-58-8	Methanol (Purge & Trap Grade)	S-2714
2-NITRODIPHENYLAMINE	119-75-5	Methanol (Purge & Trap Grade)	S-2717
4-NITRODIPHENYLAMINE	836-30-6	Methanol (Purge & Trap Grade)	S-2716
NITROFEN	1836-75-5	Methanol (Purge & Trap Grade)	S-2720
4-NITRO-M-CRESOL	2581-34-2	Methanol (Purge & Trap Grade)	S-2713
NITROMETHANE	75-52-5	Methanol (Purge & Trap Grade)	S-2722
2-NITRO-M-XYLENE	81-20-9	Methanol (Purge & Trap Grade)	S-2760
5-NITRO-O-TOLUIDINE	99-55-8	Methanol (Purge & Trap Grade)	S-3862
3-NITROPHENOL	554-84-7	Methanol (Purge & Trap Grade)	S-2728
4-NITROPHENOL METHYL ESTER	100-17-4	Methanol (Purge & Trap Grade)	S-2731
2-NITROPHENOL	88-75-5	Methanol (Purge & Trap Grade)	S-2725
4-NITROPHENOL	100-02-7	Methanol (Purge & Trap Grade)	S-2730
4-NITROPHENOL-METHYL ESTER	100-17-4	Methanol	S-2729
1-NITROPROPANE	108-03-2	Methanol (Purge & Trap Grade)	S-2736
2-NITROPROPANE	79-46-9	Methanol (Purge & Trap Grade)	S-2732
1-NITROPYRENE	5522-43-0	Methanol (Purge & Trap Grade)	S-2737
4-NITROQUINOLINE-N-OXIDE	56-57-5	Methylene Chloride	S-2735
NITROSOBENZENE	586-46-9	Methanol (Purge & Trap Grade)	S-2740
N-NITROSODIETHYLAMINE	55-18-5	Methanol (Purge & Trap Grade)	S-2810
N-NITROSODIETHYLAMINE	55-18-5	Acetone	S-2810-AC
N-NITROSODIMETHYLAMINE	62-75-9	Methanol (Purge & Trap Grade)	S-2815
N-NITROSODIMETHYLAMINE	62-75-9	Acetone	S-2815-AC
N-NITROSODI-N-BUTYLAMINE	924-16-3	Methanol	S-2825
N-NITROSODI-N-BUTYLAMINE	924-16-3	Acetone	S-2825-AC
N-NITROSODI-N-PROPYLAMINE	621-64-7	Methylene Chloride	S-2835
N-NITROSODI-N-PROPYLAMINE	621-64-7	Acetone	S-2835-AC
4-NITROSODIPHENYLAMINE	156-10-5	Methanol (Purge & Trap Grade)	S-2745
N-NITROSODIPHENYLAMINE	86-30-6	Methylene Chloride	S-2820

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
N-NITROSODIPHENYLAMINE	86-30-6	Acetone	S-2820-AC
N-NITROSOMETHYLETHYLAMINE	10595-95-6	Methanol (Purge & Trap Grade)	S-2830
N-NITROSOMETHYLETHYLAMINE	10595-95-6	Acetone	S-2830-AC
N-NITROSOMORPHOLINE	59-89-2	Methanol (Purge & Trap Grade)	S-2749
N-NITROSOMORPHOLINE	59-89-2	Acetone	S-2749-AC
N'-NITROSONORNICOTINE	53759-22-1	Methanol (Purge & Trap Grade)	S-2751
N-NITROSOPIPERIDINE	100-75-4	Methanol (Purge & Trap Grade)	S-2750
N-NITROSOPIPERIDINE	100-75-4	Methanol (Purge & Trap Grade)	S-2750A
N-NITROSOPIPERIDINE	100-75-4	Acetone	S-2750-AC
1-NITROSOPYRROLIDINE	930-55-2	Methanol (Purge & Trap Grade)	S-2755
NITROTHAL ISOPROPYL	10552-74-6	Methanol (Purge & Trap Grade)	S-4291
2-NITROTOLUENE	88-72-2	Methanol (Purge & Trap Grade)	S-2756
3-NITROTOLUENE	99-08-1	Methanol (Purge & Trap Grade)	S-2757
4-NITROTOLUENE	99-99-0	Methanol (Purge & Trap Grade)	S-2758
N-METHYLDIETHANOLAMINE	105-59-9	Methanol (Purge & Trap Grade)	S-2484
N-METHYLFORMAMIDE	123-39-7	Methanol (Purge & Trap Grade)	S-5004
N-NITROSODIETHANOLAMINE	1116-54-7	Methanol (Purge & Trap Grade)	S-2811
N-NITROSODIISOPROPYLAMINE	601-77-4	Methanol (Purge & Trap Grade)	S-3939
N-NITROSOPROLINE	7519-36-0	Methanol (Purge & Trap Grade)	S-2752
4-(METHYLNITROSAMINO)-1-(3-PYRIDYL)-1-BUTANONE	64091-91-4	Methanol (Purge & Trap Grade)	S-2526
N-NONADECENE	18435-45-5	Methanol (Purge & Trap Grade)	S-4210
N-NONATRIACONTANE	7194-86-7	Methanol (Purge & Trap Grade)	S-4313
CIS-NONACHLOR	5103-73-1	Methanol (Purge & Trap Grade)	S-2765
NONAFLUORO-1-BUTANESULFONIC ACID POTASSIUM SALT	29420-49-3	Methanol	S-5316
TRANS-NONACHLOR	39765-80-5	Methanol (Purge & Trap Grade)	S-2770
N-NONACOSANE	630-03-5	Methanol (Purge & Trap Grade)	S-2775
N-NONADECANE	629-92-5	Methylene Chloride	S-2780
N-NONANE	111-84-2	Methanol (Purge & Trap Grade)	S-2785
N-NONANE	111-84-2	Methylene Chloride	S-2785-MC
1-NONANOL	143-08-8	Methanol (Purge & Trap Grade)	S-2790
NONYL ALDEHYDE	124-19-6	Methanol (Purge & Trap Grade)	S-2794
NONYLPHENOL	25154-52-3	Methylene Chloride	S-2795
NONYLPHENOL	84852-15-3	Methanol (Purge & Trap Grade)	S-2795A
4-N-NONYLPHENOL	104-40-5	Methanol	S-5074
NORFLURAZON	27314-13-2	Acetone	S-2800
6-N-PROPYL-2-THIOURACIL	51-52-5	Methanol (Purge & Trap Grade)	S-5000
2-N-PROPYLPHENOL	644-35-9	Methanol (Purge & Trap Grade)	S-4301
OCTACHLOROSTYRENE	29082-74-4	Toluene	S-2840-TOL
N-OCTACOSANE	630-02-4	Methylene Chloride	S-2845
N-OCTADECANE	593-45-3	Methanol (Purge & Trap Grade)	S-2850
1-OCTADECANOL	112-92-5	Methanol (Purge & Trap Grade)	S-3942
OCTADECENE-1	112-88-9	Methanol (Purge & Trap Grade)	S-2855
2,2',3,3',5,5',6,6'-OCTAFLUOROBIPHENYL	3883-86-1	Methanol (Purge & Trap Grade)	S-2860
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	Methanol (Purge & Trap Grade)	S-2865
OCTAMETHYLPYROPHOSPHORAMIDE	152-16-9	Acetone	S-3265
N-OCTANE	111-65-9	Methanol (Purge & Trap Grade)	S-2870
OCTANOIC ACID	124-07-2	Methanol (Purge & Trap Grade)	S-4114
1-OCTANOL	111-87-5	Methanol (Purge & Trap Grade)	S-2875
2-OCTANOL	4128-31-8	Methanol (Purge & Trap Grade)	S-2880
3-OCTANONE	113-13-7	Methanol (Purge & Trap Grade)	S-4234
2-OCTANONE	106-68-3	Methanol (Purge & Trap Grade)	S-2885
4-OCTANONE	589-63-9	Methanol (Purge & Trap Grade)	S-2871
N-OCTATRIACONTANE	7194-85-6	Methanol (Purge & Trap Grade)	S-2886
TRANS-2-OCTEN-1-OL	18409-17-1	Methanol (Purge & Trap Grade)	S-2891
OCTENE-1	111-66-0	Methanol (Purge & Trap Grade)	S-2890

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
OCTAFLUOROTOLUENE	434-64-0	Methanol (Purge & Trap Grade)	S-2861
OCTYL ALDEHYDE	124-13-0	Methanol (Purge & Trap Grade)	S-2892
DI-N-OCTYL PHTHALATE	117-84-0	Methanol (Purge & Trap Grade)	S-1775
4-OCTYLPHENOL	1806-26-4	Methanol (Purge & Trap Grade)	S-4177
4-TERT-OCTYLPHENOL	140-66-9	Methanol	S-4379
OLEIC ACID	112-80-1	Methanol (Purge & Trap Grade)	S-3992
OMETHOATE	1113-02-6	Methanol	S-3864
OMITE	2312-35-8	Methanol	S-2895
OOO-TRIETHYLPHOSPHOROTHIOATE	126-68-1	Methanol	S-3705
ORYZALIN	19044-88-3	Methanol (Purge & Trap Grade)	S-2900
OVEX	80-33-1	Methanol (Purge & Trap Grade)	S-2901
OXADIAZON	19666-30-9	Acetone	S-2912
OXADIXYL	77732-09-3	Methanol (Purge & Trap Grade)	S-2903
OXALACETIC ACID	328-42-7	Methanol (Purge & Trap Grade)	S-2902
OXALIC ACID	144-62-7	Methanol (Purge & Trap Grade)	S-2904
OXAMYL	23135-22-0	Acetonitrile	S-2905
1,1-OXYBISOCTANE	629-82-3	Methanol	S-5135
OXYCARBOXIN	5259-88-1	Acetone	S-4249
OXYCHLORDANE	27304-13-8	Methanol	S-2910
OXYCHLORDANE	27304-13-8	Toluene	S-2910-TOL
OXYFLURFEN	42874-03-3	Acetone	S-2911
PALMITIC ACID	57-10-3	Methanol (Purge & Trap Grade)	S-3993
PALMITOLEATE ACID	373-49-9	Methanol (Purge & Trap Grade)	S-4231
PARALDEHYDE	123-63-7	Methanol (Purge & Trap Grade)	S-2913
PARAOXON	311-45-5	Methanol (Purge & Trap Grade)	S-2921
PARAQUAT DICHLORIDE TETRAHYDRATE	1910-42-5	Methanol (Purge & Trap Grade)	S-2915
PARATHION	56-38-2	Methanol	S-2920
PEBULATE	1114-71-2	Methanol	S-2925
PENCONAZOLE	66246-88-6	Methanol (Purge & Trap Grade)	S-4267
PENCYURON	66063-05-6	Acetonitrile	S-5171
2,3,4,5,6-PENTABROMOETHYL BENZENE	85-22-3	Methanol	S-4974
PENTABROMOPHENYL ETHER	1163-19-5	Methanol (Purge & Trap Grade)	S-2926
2',3',4',5',5'-PENTACHLORO-2-BIPHENYLOL	N/A	Methanol (Purge & Trap Grade)	S-2938
2,3,4,5,6-PENTACHLOROANISOLE	1825-21-4	Methanol	S-2930
PENTACHLOROBENZENE	608-93-5	Methanol (Purge & Trap Grade)	S-2935
PENTACHLOROETHANE	76-01-7	Methanol (Purge & Trap Grade)	S-2940
PENTACHLORONITROBENZENE	82-68-8	Methanol	S-2945
PENTACHLOROPHENOL	87-86-5	Methanol	S-2950
PENTACHLOROPHENOL-13 C6	85380-74-1	Methanol (Purge & Trap Grade)	S-4202
PENTACHLOROPHENYL SULFIDE	1825-19-0	Methanol	S-550
2,3,4,5,6-PENTACHLOROTOLUENE	877-11-2	Methylene Chloride	S-2952
N-PENTACONTANE	6596-40-3	Carbon disulfide & Pentane & Methylene Chloride	S-2953
N-PENTACOSANE	629-99-2	Methylene Chloride	S-2955
N-PENTADECANE	629-62-9	Methanol (Purge & Trap Grade)	S-2960
N-PENTADECANE	629-62-9	Methylene Chloride	S-2960-MC
1,3-PENTADIENE (PIPERYLENE)	504-60-9	Methanol (Purge & Trap Grade)	S-3914
2,3-PENTANEDIONE	600-14-6	Methanol (Purge & Trap Grade)	S-2966
PENTAERYTHRITOL TETRAACRYLATE	4986-89-4	Methanol (Purge & Trap Grade)	S-4109
PENTAFLUOROBENZENE	363-72-4	Methanol (Purge & Trap Grade)	S-2970
PENTAFLUOROPHENOL	771-61-9	Methanol (Purge & Trap Grade)	S-4047
PENTAFLUOROPHENYLHYDRAZINE	828-73-9	Methanol (Purge & Trap Grade)	S-2972
PENTAMETHYLBENZENE	700-12-9	Methanol (Purge & Trap Grade)	S-2973
1,4-PENTANEDIOL	626-95-9	Methanol (Purge & Trap Grade)	S-2965
1,5-PENTANEDIOL	111-29-5	Methanol (Purge & Trap Grade)	S-2974
PENTANEDIONE	367-57-7	Methanol (Purge & Trap Grade)	S-4295

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
N-PENTANE	109-66-0	Methanol (Purge & Trap Grade)	S-2975
1-PENTANETHIOL	110-66-7	Methanol (Purge & Trap Grade)	S-3981
1-PENTANOL	71-41-0	Methanol (Purge & Trap Grade)	S-2980
2-PENTANOL	6032-29-7	Methanol (Purge & Trap Grade)	S-2985
3-PENTANOL	584-02-1	Methanol (Purge & Trap Grade)	S-2987
2-PENTANONE	107-87-9	Methanol (Purge & Trap Grade)	S-2986
3-PENTANONE	96-22-0	Methanol (Purge & Trap Grade)	S-3932
N-PENTATRIACONTANE	630-07-9	Hexane	S-2990
1-PENTENE	109-67-1	Methanol (Purge & Trap Grade)	S-2995
PENTYL ACETATE	628-63-7	Methanol (Purge & Trap Grade)	S-2976
TERT-PENTYLBENZENE	2049-95-8	Methanol (Purge & Trap Grade)	S-676
PERFLUOROTRIBUTYLAMINE	311-89-7	Methanol (Purge & Trap Grade)	S-2997
PERMETHRIN (t=58%;c=41%)	52645-53-1	Acetone	S-3000
CIS-PERMETHRIN	54774-45-7	Methanol (Purge & Trap Grade)	S-3001
PERTHANE	72-56-0	Methanol (Purge & Trap Grade)	S-3002
PERYLENE	198-55-0	Methylene Chloride	S-3005
PERYLENE-D ₁₂	1520-96-3	Methylene Chloride	S-3010
PHENAMIPHOS	22224-92-6	Methanol	S-3014
PHENANTHRENE	85-01-8	Methylene Chloride	S-3015
PHENANTHRENE-D ₁₀	1517-22-2	Methylene Chloride	S-3020
PHENANTHRIDINE	229-87-8	Methanol (Purge & Trap Grade)	S-3025
PHENOL	108-95-2	Methanol (Purge & Trap Grade)	S-3030
PHENOL	108-95-2	distilled water	S-3030-W
PHENOL-D5	4165-62-2	Methylene Chloride	S-4195-MC
PHENOL-D6	13127-88-3	Methanol (Purge & Trap Grade)	S-3035
PHENOTHIAZINE	92-84-2	Methanol (Purge & Trap Grade)	S-3040
D-(CIS-TRANS)-PHENOTHRIN	26002-80-2	Acetone	S-3041
2-PHENOXYETHANOL	122-99-6	Methanol (Purge & Trap Grade)	S-3045
PHENTHOATE	2597-03-7	Methanol (Purge & Trap Grade)	S-4250
PHENYL ACETATE	122-79-2	Methanol (Purge & Trap Grade)	S-3046
PHENYL ETHER	101-84-8	Methanol (Purge & Trap Grade)	S-3055
2-PHENYL-2-PROPANOL	617-94-7	Methanol (Purge & Trap Grade)	S-3076
1-PHENYL-2-THIOUREA	103-85-5	Methanol (Purge & Trap Grade)	S-3077
PHENYLACETALDEHYDE	122-78-1	Methanol (Purge & Trap Grade)	S-3062
PHENYLACETYLENE	536-74-3	Methanol (Purge & Trap Grade)	S-3866
PHENYLARSONIC ACID	98-05-5	Methanol (Purge & Trap Grade)	S-3989
4-PHENYLAZOANILINE	60-09-3	Methanol (Purge & Trap Grade)	S-3065
PHENYLBORIC ACID	98-80-6	Methanol (Purge & Trap Grade)	S-3050
4-PHENYLCYCLOHEXENE	4994-16-5	Methanol	S-5137
1-PHENYLDODECANE	123-01-3	Methanol (Purge & Trap Grade)	S-3933
1,2-PHENYLENE DIAMINE	95-54-5	Methanol	S-3071
P-PHENYLENEDIAMINE	106-50-3	Methanol (Purge & Trap Grade)	S-3070
1-PHENYLHEPTANE	1078-71-3	Methanol (Purge & Trap Grade)	S-3051
1-PHENYLHEXANE	1077-16-3	Methanol (Purge & Trap Grade)	S-3052
1-PHENYLNONANE	1081-77-2	Methanol (Purge & Trap Grade)	S-3054
1-PHENYLOCTANE	2189-60-8	Methanol (Purge & Trap Grade)	S-3053
2-PHENYLPHENOL	90-43-7	Methanol (Purge & Trap Grade)	S-3075
4-PHENYLPHENOL	92-69-3	Methanol (Purge & Trap Grade)	S-3060
1-PHENYLTRIDECANE	123-02-4	Methanol (Purge & Trap Grade)	S-3934
PHORATE	298-02-2	Methanol	S-3080
PHORATE OXON	2600-69-3	Methanol (Purge & Trap Grade)	S-4181
PHORATE SULFONE	2588-04-7	Methanol (Purge & Trap Grade)	S-4256
PHOSALONE	2310-17-0	Methanol	S-3085
PHOSMET OXON	3735-33-9	Methanol (Purge & Trap Grade)	S-4182
PHOSPHAMIDON	13171-21-6	Methanol (Purge & Trap Grade)	S-3090

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
PHthalic ACID	88-99-3	Methanol (Purge & Trap Grade)	S-3095
PHthalic ACID DIISOBUTYL ESTER	84-69-5	Methanol (Purge & Trap Grade)	S-3869
PHthalic ACID DI-N-AMYL ESTER	131-18-0	Methanol (Purge & Trap Grade)	S-3868
PHthalic ACID DINONYL ESTER	84-76-4	Methanol (Purge & Trap Grade)	S-3870
PHthalic ANHYDRIDE	85-44-9	Methanol	S-3100
PHYTANE	638-36-8	Methylene Chloride	S-3105
PICENE	213-46-7	Methanol (Purge & Trap Grade)	S-3923
PICLORAM	1918-02-1	Methanol	S-3110
2-PICOLINE	109-06-8	Methanol	S-3115
3-PICOLINE	108-99-6	Methanol (Purge & Trap Grade)	S-4015
4-PICOLINE	108-89-4	Methanol (Purge & Trap Grade)	S-4014
3-PICOLYL CHLORIDE HYDROCHLORIDE	6959-48-4	Methanol (Purge & Trap Grade)	S-3116
PICOXYSTROBIN	117428-22-5	Methanol	S-5467
PICRAMIC ACID	831-52-7	Methanol	S-3113
PICRIC ACID	88-89-1	Methanol	S-5306
PIPERAZINE	110-85-0	Methanol (Purge & Trap Grade)	S-3114
PIPERONYL BUTOXIDE	51-03-6	Methanol (Purge & Trap Grade)	S-3117
PIRIMICARB	23103-98-2	Methanol	S-3118
PIRIMIPHOS-METHYL	29232-93-7	Methanol (Purge & Trap Grade)	S-3119
PIRIMIPHOS-ETHYL	23505-41-1	Methanol (Purge & Trap Grade)	S-3120
P-MENTHA-1,5-DIENE	99-83-2	Methanol (Purge & Trap Grade)	S-4173
POLY(PROPYLENE GLYCOL) - 1000	25322-69-4	Methanol (Purge & Trap Grade)	S-3131
POLYETHYLENE GLYCOL - 1000	25322-68-3	Methanol (Purge & Trap Grade)	S-3129
POLYETHYLENE GLYCOL - 200	25322-68-3	Methanol (Purge & Trap Grade)	S-3126
POLYETHYLENE GLYCOL - 400	25322-68-3	Methanol (Purge & Trap Grade)	S-3127
POLYETHYLENE GLYCOL - 600	25322-68-3	Methanol (Purge & Trap Grade)	S-3128
POTASSIUM ACETATE	127-08-2	Methanol (Purge & Trap Grade)	S-5001
POTASSIUM CYANIDE	151-50-8	Methanol (Purge & Trap Grade)	S-3136
POTASSIUM CYANIDE 13C-15N	74889-51-3	Methanol (Purge & Trap Grade)	S-4112
POTASSIUM HYDROXIDE	1310-58-3	Methanol (Purge & Trap Grade)	S-3123
PROCHLORAZ	67747-09-5	Methanol (Purge & Trap Grade)	S-4268
PROCYMIDON	32809-16-8	Methanol (Purge & Trap Grade)	S-3871
PROFENOFOS	41198-08-7	Methanol (Purge & Trap Grade)	S-3134
PROFLURALIN	26399-36-0	Methanol (Purge & Trap Grade)	S-3132
PROMECARB	2631-37-0	Methanol	S-3133
PROMETON	1610-18-0	Acetone	S-3130
PROMETRYNE	7287-19-6	Methanol (Purge & Trap Grade)	S-3135
PROPACHLOR	1918-16-7	Acetone	S-3140
PROPANE	74-98-6	Methanol (Purge & Trap Grade)	S-3145
1,2-PROPANEDIOL	57-55-6	Methanol (Purge & Trap Grade)	S-3147
1-PROPANETHIOL	107-03-9	Methanol (Purge & Trap Grade)	S-3152
2-PROPANETHIOL	75-33-2	Methanol (Purge & Trap Grade)	S-3151
PROPANIL	709-98-8	Methanol (Purge & Trap Grade)	S-3155
1-PROPANOL	71-23-8	Methanol (Purge & Trap Grade)	S-3160
2-PROPANOL	67-63-0	Methanol (Purge & Trap Grade)	S-3165
2-PROPANOL	67-63-0	Methanol (Purge & Trap Grade)	S-3167
PROPARGYL ALCOHOL	107-19-7	Methanol (Purge & Trap Grade)	S-3169
PROPABINE	139-40-2	Methanol	S-3170
PROPENE	115-07-1	Methanol (Purge & Trap Grade)	S-3175
PROPHAM	122-42-9	Methanol	S-3180
PROPAMOCARB	24579-73-5	Methanol	S-5468
PROPAMOCARD HCL	25606-41-1	Methanol	S-4690
PROPHOS	13194-48-4	Acetone	S-3185
BETA-PROIOLACTONE	57-57-8	Methanol (Purge & Trap Grade)	S-3187
PROPIONALDEHYDE	123-38-6	Methanol (Purge & Trap Grade)	S-3190

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
PROPIONIC ACID	79-09-4	Distilled Water	S-3192
PROPIONIC ACID N-BUTYL ESTER	590-01-2	Methanol	S-5310
PROPIONITRILE	107-12-0	Methanol (Purge & Trap Grade)	S-3195
BAYGON (PROPOXUR)	114-26-1	Methanol	S-3200
PROPYL ACETATE	109-60-4	Methanol (Purge & Trap Grade)	S-3204
PROPYL DISULFIDE	629-19-6	Methanol (Purge & Trap Grade)	S-3201
PROPYL ETHER	111-43-3	Methanol (Purge & Trap Grade)	S-3909
PROPYL PARABEN	94-13-3	Methanol (Purge & Trap Grade)	S-3202
PROPYL SULFIDE	111-47-7	Methanol (Purge & Trap Grade)	S-3203
PROPYL ALCOHOL-1,1-D2	N/A	Methanol (Purge & Trap Grade)	S-3161
PROPYLAMINE	107-10-8	Methanol (Purge & Trap Grade)	S-3205
N-PROPYLBENZENE	103-65-1	Methanol (Purge & Trap Grade)	S-3210
N-PROPYLBUTYLNITROSAMINE	25413-64-3	Methanol (Purge & Trap Grade)	S-3940
PROPYLENE DICHLORIDE	78-87-5	Methanol (Purge & Trap Grade)	S-3211
PROPYLENE GLYCOL	57-55-6	Methanol (Purge & Trap Grade)	S-3212
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-6	Methanol (Purge & Trap Grade)	S-3213
PROPYLENE OXIDE	75-56-9	Methanol (Purge & Trap Grade)	S-3214
PROPYLENE OXIDE	75-56-9	Heptane	S-3214-H
N-PROPYLPARABEN	94-13-3	Methanol (Purge & Trap Grade)	S-3202A
PROPYZAMIDE	23950-58-5	Methanol (Purge & Trap Grade)	S-3220
PROSULFOCARB	52888-80-9	Methanol	S-3223
PROWL (PENDIMETHALIN)	40487-42-1	Methanol (Purge & Trap Grade)	S-3230
(+)- PULEGONE	89-82-7	Methanol	S-5136
PYRACLOSTROBIN	175013-18-0	Methanol	S-4968
PYRAZON	1698-60-8	Methanol (Purge & Trap Grade)	S-786
PYRAZOPHOS	13457-18-6	Methanol (Purge & Trap Grade)	S-3234
PYRENE	129-00-0	Methylene Chloride	S-3235
PYRENE-D ₁₀	1718-52-1	Methanol (Purge & Trap Grade)	S-3236
PYRETHRINS (MIX OF ISOMERS)	8003-34-7	Methanol	S-5506
PYRETHRUM EXTRACT OR PYRETHRIN II	8003-34-7	Methanol (Purge & Trap Grade)	S-3872A
PYRIDINE	110-86-1	Methanol (Purge & Trap Grade)	S-3240
PYRIDINE-D ₅	7291-22-7	Methanol (Purge & Trap Grade)	S-3937
PYRIMETHANIL	53112-28-0	Methanol	S-5225
PYRIPROXIFEN	95737-68-1	Acetonitrile	S-4969
PYRUVIC ACID	127-17-3	Methanol (Purge & Trap Grade)	S-3242
PYRUVIC ALDEHYDE	78-98-8	Methanol (Purge & Trap Grade)	S-3243
QUINALPHOS	13593-03-8	Acetone	S-3246
QUINCLORAC	84087-01-4	Methanol (Purge & Trap Grade)	S-3950
QUININE SULFATE MONOHYDRATE	N/A	Methanol (Purge & Trap Grade)	S-3904
QUINOLINE	91-22-5	Methanol (Purge & Trap Grade)	S-3245
QUINOLINE D ₇	34071-94-8	Methanol	S-4310
QUINOMETHIONATE	2439-01-2	Methanol (Purge & Trap Grade)	S-3247
QUIZALOFOP	76578-12-6	Methanol (Purge & Trap Grade)	S-3988
QUIZALOFOP-P-ETHYL	100646-51-3	Acetonitrile	S-5037
RDX	121-82-4	Methanol	S-3251
REGULAR UNLEADED GAS-87OCTANE	N/A	Methanol (Purge & Trap Grade)	S-3873
RESERPINE	50-55-5	Methanol (Purge & Trap Grade)	S-3249
RESMETHRIN	10453-86-8	Acetone	S-3252
RESORCINOL	108-46-3	Methanol (Purge & Trap Grade)	S-3250
RIBITOL(ANDONITOL)	488-81-3	Methanol (Purge & Trap Grade)	S-4190
ROTENONE	83-79-4	Methanol (Purge & Trap Grade)	S-3248
SAFROLE	94-59-7	Methanol (Purge & Trap Grade)	S-3255
SAFROTIN	31218-83-4	Methanol (Purge & Trap Grade)	S-3260
SANMARTON	51630-58-1	Acetone	S-3261
SEBUTHYLAZINE	7286-69-3	Methanol (Purge & Trap Grade)	S-4003

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
SECBUMETON	26259-45-0	Methanol (Purge & Trap Grade)	S-4270
SEC-BUTYL SCRYLATE	8/5/2998	Methanol	S-5312
SETHOXYDIM	74051-80-2	Acetone	S-3266
SIDURON	1982-49-6	Methanol	S-3279
SILVEX	93-72-1	Methyl-tert-Butyl Ether	S-3660
SILVEX	93-72-1	Methanol (Purge & Trap Grade)	S-3660-MEO
2,4,5 TP (SILVEX)	93-72-1	Methanol (Purge & Trap Grade)	S-3275
SILVEX METHYL ESTER	4841-20-7	Methanol (Purge & Trap Grade)	S-3270
SILVEX METHYL ESTER	4841-20-7	Hexane	S-3270-H
SIMAZINE	122-34-9	Acetone	S-3280
SIMETRYN	1041-70-6	Methanol (Purge & Trap Grade)	S-3285
SODIUM BENZOATE	532-32-1	Methanol (Purge & Trap Grade)	S-3286
SODIUM CHLORATE	7775-09-9	Methanol (Purge & Trap Grade)	S-3281
SODIUM CITRATE DIHYDRATE	6132-04-3	Methanol (Purge & Trap Grade)	S-3288
SONAR/FLOURIDONE	59756-60-4	Methanol (Purge & Trap Grade)	S-3290
SPIROXAMINE	118134-30-8	Methanol	S-5469
STEARIC ACID	57-11-4	Methanol (Purge & Trap Grade)	S-3299
STRYCHNINE	57-24-9	Methanol	S-3295
STYRENE	100-42-5	Methanol (Purge & Trap Grade)	S-3300
STYRENE-7,8-OXIDE	96-09-3	Methanol (Purge & Trap Grade)	S-5103
TRANS-BETA-METHYLSTYRENE	873-66-5	Methanol (Purge & Trap Grade)	S-2564
SUCCINIC ACID	110-15-6	Methanol (Purge & Trap Grade)	S-3301
SUCROSE	57-50-1	Methanol (Purge & Trap Grade)	S-3308
SUCROSE	57-50-1	HPLC H2O	S-3308-W
SULCOFURON-SODIUM MONOHYDRATE	3567-25-7	Methanol	S-5132
SULFIDE (FROM SODIUM SULFIDE NONAHYDRATE)	1313-84-4	Methanol (Purge & Trap Grade)	S-3294
SULFIDE (FROM SODIUM SULFIDE NONAHYDRATE)	1313-84-4	Distilled Water	S-3294
SULFOMETUROMETHYL	74222-97-2	Methanol (Purge & Trap Grade)	S-3302
TETRAETHYLDITHIO PYROPHOSPHATE/SULFOTEPP	3689-24-5	Methanol	S-3455
SULFUR	7704-34-9	Methylene Chloride	S-3875
SULFUR (FROM N-BUTYL SULFIDE)	7704-34-9	Methanol (Purge & Trap Grade)	S-3875A
SULFUR HEXAFLUORIDE (GAS)	2551-62-4	Methanol (Purge & Trap Grade)	S-4000
SULFUR HEXAFLUORIDE (GAS)	2551-62-4	ethylene glycol	S-4000-EG
SULPROFOS	35400-43-2	Methanol (Purge & Trap Grade)	S-3305
SUPER UNLEADED GASOLINE 92 OCTANE	N/A	Methanol (Purge & Trap Grade)	S-3917
SYSTHANE	88671-89-0	Acetone	S-3306
2,4,5-T METHYL ESTER	1928-36-6	Methanol	S-3664
TAU-FLUVALINATE	102851-06-9	Acetone	S-4161
TCMTB	21564-17-0	Methanol (Purge & Trap Grade)	S-3359
TEBUPENPYRAD	119168-77-3	Methanol	S-5226
TEBUPIRIMPHOS	96182-53-5	Acetone	S-4317
TEBUTHIURON	34014-18-1	Acetone	S-3310
TEFLUBENZURON	83121-18-0	Acetone	S-5458
TEFLUTHRIN	79538-32-2	Methanol (Purge & Trap Grade)	S-4281
TEPP	107-49-3	Methanol	S-3315
TERBACIL	5902-51-2	Methanol (Purge & Trap Grade)	S-3320
TERBUFOS	13071-79-9	Methanol	S-3325
TERBUMETON	33693-04-8	Methanol (Purge & Trap Grade)	S-4292
TERBUTHYLAZINE	5915-41-3	Methanol	S-3330
TERBUTRYNE	886-50-0	Methanol (Purge & Trap Grade)	S-3335
P-TERPHENYL-D ₁₄	1718-51-0	Methylene Chloride	S-3355
P-TERPHENYL-D ₁₄	1718-51-0	Acetone	S-3355-A
M-TERPHENYL	92-06-8	Methanol (Purge & Trap Grade)	S-3340
O-TERPHENYL	84-15-1	Methanol	S-3345
P-TERPHENYL	92-94-4	Methylene Chloride	S-3350

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
A-TERPINEOL	10482-56-1	Methylene Chloride	S-3356
A-TERPINEOL	10482-56-1	Methanol (Purge & Trap Grade)	S-3356-MEOH
TERRAZOLE	2593-15-9	Methanol (Purge & Trap Grade)	S-3360
1-TERT-BUTOXY-2-ETHOXYETHANE	51422-54-9	Methanol (Purge & Trap Grade)	S-629
5-TERT-BUTYL-2,4,6-TRINITRO-M-XYLENE	000081-15-2	Methanol (Purge & Trap Grade)	S-3761
4-TERT-BUTYL-2,6-DIMETHYL-3,5-DINITROACETOPHENONE	81-14-1	Methanol (Purge & Trap Grade)	S-652
TETRABROMO BISPHENOL A	79-94-7	Methanol (Purge & Trap Grade)	S-4311
1,2,4,5-TETRABROMOBENZENE	636-28-2	Methanol (Purge & Trap Grade)	S-3367
1,1,2,2-TETRABROMOETHANE	79-27-6	Methanol (Purge & Trap Grade)	S-4100
TETRABUTYLAMMOIUM HYDROGEN SULFATE	32503-27-8	Methanol (Purge & Trap Grade)	S-3876
1,2,4,5-TETRACHLORO-3-NITROBENZENE	117-18-0	Methanol (Purge & Trap Grade)	S-3415
3,3',5,5'-TETRACHLORO-4,4'-BIPHENYLDIOL	N/A	Methanol (Purge & Trap Grade)	S-3387
2',3',4',5'-TETRACHLORO-4-BIPHENYLOL	N/A	Methanol (Purge & Trap Grade)	S-3384
1,2,3,4-TETRACHLOROBENZENE	634-66-2	Methanol (Purge & Trap Grade)	S-3370
1,2,3,5-TETRACHLOROBENZENE	634-90-2	Methanol (Purge & Trap Grade)	S-3375
1,2,4,5-TETRACHLOROBENZENE	95-94-3	Methanol (Purge & Trap Grade)	S-3380
2,2',5,5'-TETRACHLOROBIPHENYL	35693-99-3	Hexane	S-9052
1,1,1,2-TETRACHLOROETHANE	630-20-6	Methanol (Purge & Trap Grade)	S-3385
1,1,1,2-TETRACHLOROETHANE	630-20-6	Methanol (Purge & Trap Grade)	S-3385-100
1,1,2,2-TETRACHLOROETHANE	79-34-5	Methanol (Purge & Trap Grade)	S-3390
TETRACHLOROETHENE	127-18-4	Methanol (Purge & Trap Grade)	S-3395
2,4,5,6-TETRACHLORO-M-XYLENE	877-09-8	Acetone	S-3420
TETRACHLOROTEREPHTHALATE-MEO	2163-79-0	Methanol (Purge & Trap Grade)	S-1067A
2,3,4,5-TETRACHLOROPHENOL	4901-51-3	Methanol (Purge & Trap Grade)	S-3400
2,3,4,6-TETRACHLOROPHENOL	58-90-2	Methanol	S-3405
2,3,5,6-TETRACHLOROPHENOL	935-95-5	Methanol	S-3410
2,3,4,6-TETRACHLOROANISOLE	53452-81-6	Methanol	S-3405B
TETRACHLOROTEREPHTHALATE	2136-79-0	Acetone	S-1067
TETRACHLORVINPHOS	961-11-5	Acetone	S-3425
N-TETRACONTANE	4181-95-7	Hexane	S-3430
N-TETRACOSANE-D ₃₀	16416-32-3	Methanol (Purge & Trap Grade)	S-3436
N-TETRACOSANE	646-31-1	1,1,2-Trichlorotrifluoroethane	S-3435
N-TETRADECANE	629-59-4	Methylene Chloride	S-3440
1-TETRADECANOL	112-72-1	Methanol (Purge & Trap Grade)	S-3943
TETRADECENE-1	1120-36-1	Methanol (Purge & Trap Grade)	S-3445
TETRADIFON	116-29-0	Methanol (Purge & Trap Grade)	S-3450
TETRAETHYL ORTHOSILICATE	78-10-4	Methanol (Purge & Trap Grade)	S-3456
TETRAETHYLENE GLYCOL	112-60-7	Methanol (Purge & Trap Grade)	S-3457
TETRAHYDROFURAN	109-99-9	Methanol (Purge & Trap Grade)	S-3460
TETRAHYDROFURAN-D ₈	1693-74-9	Methanol (Purge & Trap Grade)	S-3461
1,2,3,4-TETRAHYDRONAPHTHALENE	119-64-2	Methanol (Purge & Trap Grade)	S-3464
TETRAHYDROPYRAN	142-68-7	Methanol (Purge & Trap Grade)	S-3465
TETRAHYDROTHIOPHENE	110-01-0	Methanol (Purge & Trap Grade)	S-3470
TETRAMETHRIN	7696-12-0	Methanol (Purge & Trap Grade)	S-4251
TETRAMETHYLAMMONIUM HYDROXIDE	75-59-2	Methanol (Purge & Trap Grade)	S-3476
1,2,3,4-TETRAMETHYLBENZENE	488-23-3	Methanol (Purge & Trap Grade)	S-3472
1,2,3,5-TETRAMETHYLBENZENE	527-53-7	Methanol (Purge & Trap Grade)	S-3473
1,2,4,5-TETRAMETHYLBENZENE	95-93-2	Methanol (Purge & Trap Grade)	S-3475
TETRAMETHYLENE SULFONE	126-33-0	Methanol (Purge & Trap Grade)	S-3877
2,6,11,15-TETRAMETHYLHEXADECANE	504-44-9	Methanol (Purge & Trap Grade)	S-3477
2,6,10,14-TETRAMETHYLPENTADECANE	1921-70-6	Methylene Chloride	S-3125
TETRAPROPYLENE GLYCOL	25657-08-3	Methanol (Purge & Trap Grade)	S-3471
TETRASUL	2227-13-6	Methanol (Purge & Trap Grade)	S-4252
N-TETRATETRACONTANE	7098-22-8	Methylene Chloride	S-3480
N-TETRATRIACONTANE	14167-59-0	Methylene Chloride	S-3485

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
TETRYL	479-45-8	Methanol	S-3478
THIABENDAZOLE	148-79-8	Isooctane	S-3490
THIAMETHOXAM	153719-23-4	Acetonitrile	S-5173
THIAZOLIDINE	504-78-9	Methanol	S-3489
THIDIAZURON	51707-55-2	Methanol (Purge & Trap Grade)	S-3978
THIOACETAMIDE	62-55-5	Methanol	S-3491
THIODICARB	59669-26-0	Methanol (Purge & Trap Grade)	S-3493
THIODIGLYCOL	111-48-8	Methanol (Purge & Trap Grade)	S-4010
THIODIGLYCOL-C13	N/A	Methanol (Purge & Trap Grade)	S-4011
THIOFANOX	39196-18-4	Methanol (Purge & Trap Grade)	S-3492
THIOPHANATE-METHYL	23564-05-8	Methanol	S-3494
THIOPHENE	110-02-1	Methanol (Purge & Trap Grade)	S-3496
THIOPHENOL	108-98-5	Methanol (Purge & Trap Grade)	S-3495
2-THIOURACIL	141-90-2	Methanol (Purge & Trap Grade)	S-3497
THIOUREA	62-56-6	Methanol (Purge & Trap Grade)	S-4299
THIRAM	137-26-8	Methanol	S-3499
PROPIONAZOLE (Tilt)	60207-90-1	Acetone	S-3186
TNT	118-96-7	Methanol	S-3501
TOKUTHIOM/PROTHIOPHOS	34643-46-4	Acetone	S-3225
O-TOLIDINE	119-93-7	Methanol (Purge & Trap Grade)	S-3500
P-TOLIDINE	106-49-0	Methanol (Purge & Trap Grade)	S-3525-5K
M-TOLUALDEHYDE	620-23-5	Methanol (Purge & Trap Grade)	S-3514
O-TOLUALDEHYDE	529-20-4	Methanol (Purge & Trap Grade)	S-3346
P-TOLUALDEHYDE	104-87-0	Methanol (Purge & Trap Grade)	S-3524
TOLUENE	108-88-3	Methanol (Purge & Trap Grade)	S-3505
TOLUENE-D ₈	2037-26-5	Methanol (Purge & Trap Grade)	S-3510
O-TOLUIDINE HYDROCHLORIDE	636-21-5	Methanol (Purge & Trap Grade)	S-3526
M-TOLUIDINE	108-44-1	Methanol (Purge & Trap Grade)	S-3515
O-TOLUIDINE	95-53-4	Methanol (Purge & Trap Grade)	S-3520
P-TOLUIDINE	106-49-0	Methanol (Purge & Trap Grade)	S-3525-5K
TOLYENE-2,4-DIISOCYANATE	584-84-9	Methanol (Purge & Trap Grade)	S-3530
TOLYFLUAMID	731-27-1	Methanol (Purge & Trap Grade)	S-3531
TOTAL ORGANIC HALIDE	N/A	Methanol (Purge & Trap Grade)	S-3534
TOTAL XYLENES	1330-20-7	Methanol (Purge & Trap Grade)	S-3845A
TOXAPHENE	8001-35-2	Hexane	S-3535
TOXAPHENE	8001-35-2	Methanol	S-3535-M
TRALKOXYDIM	87820-88-0	Methanol	S-5470
TRANS-2-BUTENE	624-64-6	Methanol (Purge & Trap Grade)	S-4175
TRANS-2-DECEN-1-OL	18409-18-2	Methanol (Purge & Trap Grade)	S-4148
TRANS-2-DECENAL	3913-71-1	Methanol (Purge & Trap Grade)	S-4163
TRANS-2-NONENAL	15829-56-6	Methanol (Purge & Trap Grade)	S-4149
TRANS-2-PENTENE	646-04-8	Methanol (Purge & Trap Grade)	S-4257
TRANS-2-UNDECENAL	53448-07-0	Methanol (Purge & Trap Grade)	S-4162
TRANS-CARBOXYLATE	38410-80-9	Acetone	S-4315
TRANSFORMER OIL	N/A	Methanol (Purge & Trap Grade)	S-3878
TRIS(2,3-DIBROMOPROPYL)PHOSPHATE	126-72-7	Methylene Chloride	S-3773
TRI(PROPYLENE GLYCOL)DIACRYLATE	42978-66-5	Methanol (Purge & Trap Grade)	S-4104
N-TRIACONTANE	638-68-6	Methylene Chloride	S-3540
TRIADIMEFON	43121-43-3	Methanol (Purge & Trap Grade)	S-3545
TRI-ALLATE	2303-17-5	Methanol	S-3550
TRIAZOPHOS	24017-47-8	Methanol	S-4160
TRIBROMOACETIC ACID	75-96-7	Methanol (Purge & Trap Grade)	S-3879
2,4,6-TRIBROMOANISOLE	607-99-8	Methanol (Purge & Trap Grade)	S-4309
1,3,5-TRIBROMOBENZENE	626-39-1	Methanol (Purge & Trap Grade)	S-3552
2,4,6-TRIBROMOPHENOL	118-79-6	Methanol (Purge & Trap Grade)	S-3555

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
TRIBUTYL PHOSPHATE	126-73-8	Methanol (Purge & Trap Grade)	S-3560
TRIBUTYLtin CHLORIDE	1461-22-9	Acetone	S-4638
TRIBUTYLAMINE	102-82-9	Methanol (Purge & Trap Grade)	S-3556
S.S.S.-TRIBUTYLPHOSPHOROTRITHIOATE	78-48-8	Methanol (Purge & Trap Grade)	S-3564
TRIBUTYLPHOSPHORO-TRITHIOITE	150-50-5	Acetone	S-3565
TRICHLORONATE	327-98-0	Acetone	S-3570
3,5,6-TRICHLORO-2-PYRIDINYLOXYACETIC ACID, N-BUTOXYETHYL ESTER (TRICLOPYR)	55335-06-3	Methanol (Purge & Trap Grade)	S-3677
TRICHLOROACETIC ACID	76-03-9	Methyl-tert-Butyl Ether	S-3575
1,1,1-TRICHLOROACETONE	918-00-3	Methanol (Purge & Trap Grade)	S-3577
TRICHLOROACETONITRILE	545-06-2	Methanol (Purge & Trap Grade)	S-3579
2,3,5-TRICHLOROANISOL	N/A	Methanol	S-3581
2,3,6-TRICHLOROANISOL	50375-10-5	Methanol	S-3582
3,4,5-TRICHLOROANISOL	NA	Methanol	S-3583
2,3,4-TRICHLOROANISOLE	54135-80-7	Methanol	S-3584
2,4,5-TRICHLOROANISOLE	6130-75-2	Methanol	S-3578
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2,4,5-TRICHLOROTOLUENE	6639-30-1	Methanol (Purge & Trap Grade)	S-3670
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TRICLOPYR	55335-06-3	Methanol	S-3680
N-TRICOSANE	638-67-5	Methylene Chloride	S-3685
TRICRESYL PHOSPHATE	1330-78-5	Methanol (Purge & Trap Grade)	S-3880
TRICYCLOHEXYLTIN HYDROXIDE	13121-70-5	Methanol (Purge & Trap Grade)	S-3687
N-TRIDECANE	629-50-5	Methylene Chloride	S-3690
TRIDECAPFLUOROHXEXANE-1-SULFONIC ACID POTASSIUM SALT	3871-99-6	Methanol	S-5317
TRITIAZINE	1912-26-1	Methanol (Purge & Trap Grade)	S-3949
TRITIAZINE	1921-26-1	Methanol (Purge & Trap Grade)	S-4203
TRITHANOLAMINE	102-71-6	Methanol (Purge & Trap Grade)	S-3695

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1,1,1-TRIETHOXYETHANE	78-39-7	Methanol (Purge & Trap Grade)	S-3697
TRIETHYL PHOSPHATE	78-40-0	Methanol (Purge & Trap Grade)	S-3700
TRIETHYLAMINE	121-44-8	Methanol (Purge & Trap Grade)	S-3702
TRIETHYLENE GLYCOL	112-27-6	Methanol (Purge & Trap Grade)	S-3703
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	Methanol (Purge & Trap Grade)	S-3704
TRIFLUOROACETOPHENONE	434-45-7	Methanol (Purge & Trap Grade)	S-4306
1,2,3-TRIFLUOROBENZENE	1489-53-8	Methanol (Purge & Trap Grade)	S-4294
TRIFLUOROMETHANE	75-46-7	Methanol (Purge & Trap Grade)	S-4120
3-(TRIFLUOROMETHYL)BENZENAMINE	98-16-8	Acetone	S-4319
A,A,A-TRIFLUOROTOLUENE	98-08-8	Methanol (Purge & Trap Grade)	S-3710
TRIFLURALIN	1582-09-8	Methanol	S-3715
TRIFLUSULFURON-METHYL	126535-15-7	Methanol (Purge & Trap Grade)	S-3929
2,4,4-TRIMETHYL-1-PENTANOL	16325-63-6	Methanol (Purge & Trap Grade)	S-3745
2,4,4-TRIMETHYL-1-PENTENE	107-39-1	Methanol (Purge & Trap Grade)	S-3750
2,3,4-TRIMETHYL-2-PENTENE	565-77-5	Methanol (Purge & Trap Grade)	S-3752
2,4,4-TRIMETHYL-2-PENTENE	107-40-4	Methanol (Purge & Trap Grade)	S-3755
TRIMETHYLAMINE	75-50-3	Methanol (Purge & Trap Grade)	S-3716
2,4,5-TRIMETHYLANILINE	137-17-7	Methanol (Purge & Trap Grade)	S-3718
1,2,3-TRIMETHYLBENZENE	526-73-8	Methanol (Purge & Trap Grade)	S-3717
1,2,4-TRIMETHYLBENZENE	95-63-6	Methanol (Purge & Trap Grade)	S-3720
1,3,5-TRIMETHYLBENZENE	108-67-8	Methanol (Purge & Trap Grade)	S-3725
2,2,3-TRIMETHYLBUTANE	464-06-2	Methanol (Purge & Trap Grade)	S-3882
1,1,3-TRIMETHYLCYCLOHEXANE	3073-66-3	Methanol (Purge & Trap Grade)	S-3723
1,1,2-TRIMETHYLCYCLOPENTANE	4259-00-1	Methanol (Purge & Trap Grade)	S-3726
1,1,3-TRIMETHYLCYCLOPENTANE	4516-69-2	Methanol (Purge & Trap Grade)	S-3727
TRANS-1,CIS-2,3-TRIMETHYLCYCLOPENTANE	20348-72-5	Methanol (Purge & Trap Grade)	S-3724
2,3,5-TRIMETHYLNAPHTHALENE	2245-38-7	Methanol (Purge & Trap Grade)	S-3728
2,3,6-TRIMETHYLPHENOL	2416-94-6	Methanol	S-4764
3,4,5-TRIMETHYLPHENOL	527-54-8	Methanol	S-4763
2,3,5-TRIMETHYLNAPHTHALENE	2245-38-7	Methylene Chloride	S-3728-MC
2,3,6-TRIMETHYLNAPHTHALENE	829-26-5	Methanol (Purge & Trap Grade)	S-3729
TRIMETHYLOPROPANE ETHOXYLATE TRIACRYLATE	28961-43-5	Methanol (Purge & Trap Grade)	S-4106
TRIMETHYLOPROPANE PROPOXYLATE TRIACRYLATE	53879-54-2	Methanol (Purge & Trap Grade)	S-4107
TRIMETHYLOPROPANE TRIACRYLATE	15625-89-5	Methanol (Purge & Trap Grade)	S-4108
2,2,4-TRIMETHYLPENTANE	540-84-1	Methanol (Purge & Trap Grade)	S-3730
2,3,4-TRIMETHYLPENTANE	565-75-3	Methanol (Purge & Trap Grade)	S-4258
2,3,5-TRIMETHYLPHENOL	697-82-5	Methanol (Purge & Trap Grade)	S-3733
2,4,6-TRIMETHYLPHENOL	527-60-6	Methanol (Purge & Trap Grade)	S-3735
TRIMETHYLPHOSPHATE	512-56-1	Methanol (Purge & Trap Grade)	S-3740
1,3,5-TRINITROBENZENE	99-35-4	Methanol (Purge & Trap Grade)	S-3760
1,3,5-TRINITROBENZENE	99-35-4	Acetone	S-3760-AC
TRIPHENYL PHOSPHATE	115-86-6	Methanol (Purge & Trap Grade)	S-3765
TRIPHENYLENE	217-59-4	Methylene Chloride	S-3764
TRIPROPYLENE GLYCOL	24800-44-0	Methanol (Purge & Trap Grade)	S-3766
TRIS(HYDROXYMETHYL) AMINOMETHANE	77-86-1	Methanol (Purge & Trap Grade)	S-4307
TRIS(NONYLPHENYL)PHOSPHITE	26523-78-4	Methanol (Purge & Trap Grade)	S-3498
2,4,6-Tri-TERT-BUTYLPHENOL	732-26-3	Methanol (Purge & Trap Grade)	S-4037
TRITOLYL PHOSPHATE	1330-78-5	Methanol (Purge & Trap Grade)	S-3770
N-TRITRIACONTANE	630-05-7	Methanol (Purge & Trap Grade)	S-3775
TURPINE	N/A	Methanol (Purge & Trap Grade)	S-3883
N-UNDECANE	1120-21-4	Methanol (Purge & Trap Grade)	S-3780
1-UNDECANOL	112-42-5	Methanol (Purge & Trap Grade)	S-3781
URACIL	66-22-8	Methanol (Purge & Trap Grade)	S-3782
URETHANE	51-79-6	Methanol (Purge & Trap Grade)	S-1926
UROX	140-41-0	Acetone	S-3786

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
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VALERIC ACID	109-52-4	distilled water	S-3787
VALERONITRILE	110-59-8	Methanol (Purge & Trap Grade)	S-4239
VANILLIN	121-33-5	Methanol (Purge & Trap Grade)	S-3884
VELPAR	51235-04-2	Methanol	S-3790
VERNOLATE	1929-77-7	Methanol	S-3795
VERNOLATE	1929-77-7	Methanol (Purge & Trap Grade)	S-3795-MEO
VINCLOZOLIN	50471-44-8	Methanol	S-3796
VINYL ACETATE	108-05-4	Methanol (Purge & Trap Grade)	S-3800
VINYL BROMIDE	593-60-2	Methanol (Purge & Trap Grade)	S-4049
VINYL CHLORIDE	75-01-4	Methanol (Purge & Trap Grade)	S-3805
4-VINYL-1-CYCLOHEXENE	100-40-3	Methanol (Purge & Trap Grade)	S-3813
5-VINYL-2-NORBORNENE	3048-64-4	Methanol (Purge & Trap Grade)	S-4041
1-VINYL-2-PYRROLIDINONE	88-12-0	Methanol (Purge & Trap Grade)	S-3809
VINYLTOLUENE	25013-15-4	Methanol (Purge & Trap Grade)	S-3810
VITAMIN C	50-81-7	Methanol (Purge & Trap Grade)	S-4034
VITAMIN D ₃	67-97-0	Methanol (Purge & Trap Grade)	S-3815
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O-XYLENE-D ₁₀	93-47-6	Methanol (Purge & Trap Grade)	S-3836
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M-XYLENE	108-38-3	Methanol (Purge & Trap Grade)	S-3830
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