

SPEX CertiPrep®



이레텍 코리아

경기도 수원시 영통구 영통로 127, 701호

기술영업부 이형석 팀장

010-3276-0883

031-203-0883

hyeongsuk.lee@eraetech.kr

www.labsystem.co.kr



LABSYSTEM
분석기기 · 실험기자재 전문

Brand name : 랩시스템



2014-2015

ORGANIC

CERTIFIED REFERENCE MATERIALS

Our Mission:

SPEX Organics is Committed to Serving the Chromatography Community One Peak at a Time™ with Certified Reference Materials designed to meet all of your analytical needs. With our dedication to quality and our drive to innovate with passion we are consistently striving to manufacture products which will meet or exceed the requirements set by the newest instrumentation and regulatory concerns. Our team of highly trained chemists work to provide 100% customer satisfaction.



Welcome

SPEX CertiPrep is celebrating 60 years of support to the scientific community! Since 1954 we have grown into the industry's most passionate and reliable manufacturer of Certified Reference Materials and Calibration Standards for the Analytical Spectroscopy and Chromatography communities.

We are pleased to share with you the **60th Anniversary 2014-2015 SPEX CertiPrep Certified Reference Materials** catalog. This flipbook style catalog includes our Organic Certified Reference Materials on one side and our Inorganic Certified Reference Materials on the other.

Our primary focus is to provide Organic and Inorganic CRMs of the highest quality and superior customer support. The Organic Standards are manufactured for GC, GC-MS, HPLC, LC-MS, and other analytical instrumentation. The Inorganic Standards are manufactured for AA, ICP, ICP-MS, IC, XRF, and other analytical instrumentation.

SPEX CertiPrep's certification by UL-DQS for ISO 9001 and accreditation by A2LA under ISO 17025 and ISO Guide 34 is the most comprehensive in the industry, and encompasses all our manufactured products.

Our Organic product line offers quick turnaround time based on your individual needs. We specialize in manufacturing Custom Standards but offer many new Organic products in this catalog including:

- **LC-MS Single and Multi-Element Standards**
- **LC-MS Daily Checks**
- **Phthalates in Polyvinyl (PVC) Standards**
- **QuEChERS Kits and Internal Standards**
- **UCMR3**
- **USP<467>**
- **NJDEP Extractable Petroleum Hydrocarbon Method**

Our heritage is our passion for science and dedication to the analytical community. We produce only the highest quality standards, and offer the best and most reliable customer support in the industry.

We look forward to working with you in the years to come.

Sincerely,



Yvonne Cangelosi
President



**60 Years of Manufacturing Quality Products
and Supporting the Scientific Community**

Organic Certified Reference Materials

TABLE OF CONTENTS

Introduction

Ordering Information and Technical Support	3
Custom Standards & Packaging.	4
Quality - Calibrate with Confidence®.	5
Certificate of Analysis.	6
SPEX CertiPrep Ltd./ SPEX SamplePrep Overview	7

Section 1.

Single-Component Organic Standards

Single-Component Organic Standards	9
HPLC/LC-MS Single-Component Organic Standards	44

Section 2.

Volatiles:

Single & Multi-Component Standards for GC & GC-MS

Method 502	50
Method 504	53
Method 524	53
Method 551	56
Method 601	57
Method 602	58
Method 603	58
Method 624	59
Method 8011	60
Method 8015	60
Method 8021	61
Method 8260	63
"Long List" Appendix IX Compounds for 8260B	66
CLP Series –Volatiles	66
TCLP Volatiles Standards	69
Specialty Volatiles Application Standards	69

Section 3.

Semivolatiles:

Single & Multi-Component Standards for GC, GC-MS, LC & LC-MS

Method 506	72
Method 525	72
Method 535	74
Method 550	75
Method 552	75

Method 604	77
Method 605	77
Method 606	78
Method 612	78
Method 625	79
Method 8041	83
Method 8061	84
Method 8100	85
Method 8121	86
Method 8270	86
Method 8270C	88
"Long List" Appendix IX Compounds	91
Method 8310	94
CLP Series-Semivolatiles	95
Specific Analyte Mixes	97
Low Concentration SOW Semivolatile Calibration Standards.	98
Method 1311-TCLP	101

Section 4.

LC & LC-MS:

Singles & Multi-Component Standards

Introduction	103
HPLC/LC-MS Single Component Organic Standards	104
Daily Checks.	108
Liquid Chromatography Pesticide Residue Standards	108

Section 5.

Pesticides, PCBs, Herbicides

Introduction	113
Method 505	114
Method 507	115
Method 508	116
Method 515	118
Method 531	119
Method 547	120
Method 548	120
Method 549	121
Method 608	121
Method 614	122
Method 615	123
Method 619	123
Method 622	124
Method 8081	124
Method 8082	125
Method 8141	127
Method 8151	128

CLP Series-Pesticide Standards	129
TCLP Semivolatile Standards	132
PCB Congeners	133
Liquid Chromatography Pesticide Residue Standards	136

Section 6.

Consumer Safety

Wine Standards	141
Pharmaceutical Residual Solvent Standards	143
Phthalates in Polyethylene QC Standards.	146
Phthalates in Polyvinyl	147
Acetaldehyde	147
Plastic Additives	148
QuEChERS Kits.	149
QuEChERS Standards	150
ShaQer	152

Section 7.

Petroleum, Petrochemical & BioDiesel Standards

Introduction	155
Petrochemical & LUST Standards.	156
NJDEP Extractable Petroleum Hydrocarbon Method.	161
Biodiesel Standards Designed for ASTM D6584 & EN14105	162
ASTM	164
UOP Methods.	166

Section 8.

QC Samples

Introduction	169
Ready-to-Use Wastewater	170
Water Pollution.	171
Water Supply	177

Section 9.

International Standards

Introduction	183
QuEChERS Kits.	184
Netherlands	184
Spain.	185
Brazil.	185

Part # Index.	189
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Ordering Information & Technical Support



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hyeongsuk.lee@eraetech.kr
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TERMS & CONDITIONS:

GENERAL CONDITIONS – Payment terms are Net 30 days to rated organizations or payment can be made by credit card. Orders are shipped FCA Metuchen, New Jersey, and are shipped in accordance with IATA or DOT regulations. All freight charges are prepaid and added to the invoice unless otherwise specified by your order.

RETURN AND/OR EXCHANGE – Contact the Sales Department for a Return Authorization Number and instructions before shipping. Unauthorized returns will be refused. Transportation is the responsibility of the customer; all materials must be packed, marked, labeled, and shipped in accordance with regulations governing transportation of hazardous materials, if applicable. Credit for returned merchandise will be issued only if goods are unopened, resalable, and received within 30 days of the original invoice date. Returned items are subject to a 25% restocking charge.

LIMITED LIABILITY – Purchaser's sole and exclusive remedy for damages and Seller's sole and exclusive liability for damages from any cause whatsoever, including alleged negligence, is limited to the refund of the purchase price of the product or replacement of the product at Seller's election. In no event shall Seller be liable for direct, indirect, incidental or consequential damages, including lost profits.

EXPORT ORDERS – SPEX CertiPrep maintains authorized dealers in many countries around the world. Please visit www.spexcertiprep.com for a complete list of international dealers.

PRECAUTIONS – SPEX CertiPrep products are not for any cosmetic, drug, or household application. Our acceptance of a purchase order is with the assumption that products will be used only by qualified individuals who are trained in appropriate procedures. On our clients must rest the entire burden of safe storage, handling, and application of all products ordered from this catalog. We assume requisitioners to be competent, safety-conscious professionals.



Custom Standards & Packaging

We specialize in evaluating what compounds work well together and the solvents needed to keep the standard stable. Simply choose the Organic products you need by filling out the online order form at www.spexcertiprep.com/customorganics

Standards are available for LC, LC-MS, GC or GC-MS

- We offer customs in 1 mL ampules up to 1 L bottles
- Each product is analyzed using state of the art instrumentation
- We stock a comprehensive supply of starting materials for fast manufacture as well as certified solutions ready to ship
- All standards come with a comprehensive Certificate of Analysis and MSDS

OO/PV

OPERATIONAL QUALIFICATION AND PERFORMANCE VERIFICATION PROGRAM

To help you comply with your OO/PV 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 own materials. 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.

We manufacture and/or package your standards in our ISO-9001 facility. SPEX Certiprep is also accredited by A2LA as complying with the requirements of ISO/IEC 17025 and ISO/IEC Guide 34. 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 1 L bottles
- Over 4,000 organic products available
- All solvents available: Acetonitrile to Xylene
- Extensive experience in biological matrices including urine and blood

BENEFITS

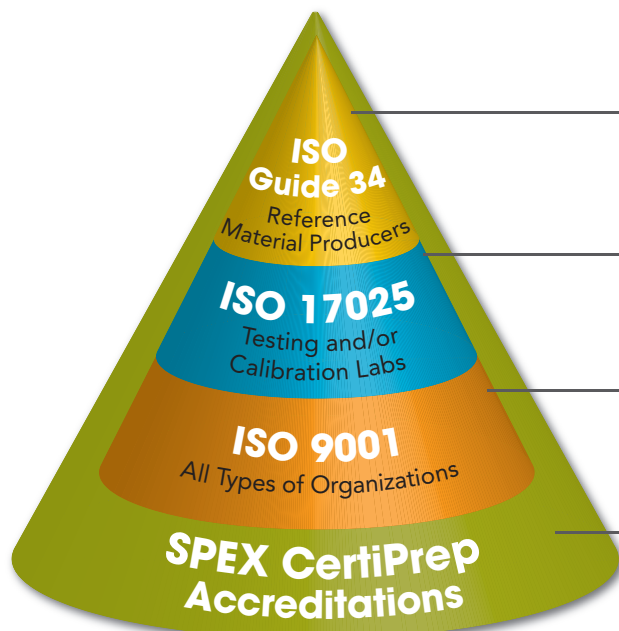
- Complete 1-year supply of standards with SAME LOT #
- Bar coding for easy tracking of standards within lab
- Filling process tracked for guaranteed homogeneity
- Lot-to-lot consistency for seamless use through the years
- Mistake-proof instructions included for easy transition between different users

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.

Quality

Calibrate with Confidence®



Level 3 – Accredited by the A2LA as an ISO/IEC Guide 34:2000 Certified **Inorganic and Organic** Reference Material Producer

Level 2 – Accredited by the A2LA as an ISO/IEC 17025:2005 Certified Chemical Testing Laboratory

Level 1 – Certified by UL DQS as an ISO 9001:2000 facility for our Quality Management System

Your Science is Our Passion® We have the **most comprehensive scope** in the industry!

Reference Materials of the Highest Quality - How Can We Prove It?

To ensure the validity of results from today's high-performance instrumentation, SPEX CertiPrep has developed an extensive line of the highest quality chemical reference materials. How can we prove it? The International Standard Organization (ISO) has established a set of guidelines designed to define common business practices, increase responsibility, and ensure clarity and full disclosure in the industry. As depicted in the diagram above, there are three levels of ISO certification that are most relevant for reference material manufacturers – ISO 9001, ISO 17025 and ISO Guide 34.

Each level has its own set of internationally recognized criteria against which companies are formally measured. Moving toward the top of the cone, each level is more difficult to achieve and fewer companies are able to meet the required criteria. SPEX CertiPrep is proud to be accredited for all three. By taking the extra step of choosing to demonstrate our competence and comply with these standards, we are continuously proving that our tests and calibration results are technically competent and our products truly are of the highest quality.

Three Levels of ISO Accreditation in Short and What They Mean to Our Customers

ISO 9001

- Open to all Types of Organizations
- Written Procedures
- Documented Complaints

Customer Satisfaction

ISO 17025

- Specifically for Organizations Carrying Out Testing and/or Calibrations
- Competent at Quality Related Tests
- Consistent Manufacturing

Technically Sound Products

ISO Guide 34

- Specifically for Reference Material Producers
- Validate Methods to Prove Accuracy
- Report Uncertainty and Sources of Error

Traceable & Accurate Reference Materials

Every accredited manufacturer of Certified Reference Materials supplies a certificate of analysis with their product. ISO Guide 31 for ISO Guide 34 outlines the information required for a Certificate of Analysis. In order to comply with the ISO standard, an accredited CRM manufacturer must supply more than a dozen informational and analytical values such as certifying bodies, material descriptions, intended use, instructions for use, homogeneity, stability, certified values and their uncertainties and traceability. Not all COAs are alike. SPEX CertiPrep® has been supplying some of the most comprehensive certificates of analysis in the CRM industry for years. Our certificates are easy to read and have all the information an analyst would need to use our standards. We have highlighted why our certificate is one of the best and what you should look for in a certificate of analysis.



SPEXertificate®
Certificate of Reference Material

Catalog Number: S-2455
Description: Methyl-tert-butyl ether
Matrix: Methanol (Purge & Trap Grade)

Lot No. C1120210014
Ship Date: 1-14-2014
Expiration Date: 1-13-2017

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:	CAS #	Labeled	Purity	Certified	Uncertainty
Compound Methyl-tert-butyl ether	1634-04-4	1000 µg/mL	99.7%	1000 µg/mL	± 36 µg/mL

Final Solution Verification: Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Final solution calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NIST Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-14-2014

Certifying Officer: [Signature]
Quality Officer: [Signature]

SPEX CertiPrep is accredited by A2LA for Organic and Inorganic Certified Reference Materials as complying with the requirements of ISO/IEC 17025 and ISO/IEC Guide 34 with the most comprehensive scope in the industry.

Includes factors associated with manufacturing process as well as homogeneity and stability.

Compound purity taken into account when determining certified concentration.

Purity of starting material verified in our laboratory.

Instrument verification on all standards

Traceable to NIST

Signed by SPEX CertiPrep®'s Vice President of Manufacturing and Quality Officer.

SPEX CertiPrep Ltd.

SPEX CertiPrep Ltd. is the European subsidiary of SPEX CertiPrep. It is responsible for the sales, marketing and distribution of SPEX CertiPrep's Inorganic and Organic Certified Reference Materials and SPEX SamplePrep products throughout the UK, Ireland and Europe. We are also proud to be the exclusive suppliers of ERA PT Schemes in the UK. We strive to be your single source supplier of certified reference materials.

Our dedicated sales team is prepared to assist you with all of your CRM needs and this is supported by a large, specialized network of local distributors representing most European countries. We maintain a considerable stock in our UK based headquarters, which ensures a timely delivery throughout this territory. SPEX CertiPrep Ltd. makes all of the arrangements to import the products into the EU, and they are packaged and labeled according to international regulations. Our trusted network of carriers is experienced in the handling of both non-hazardous and hazardous materials and we are capable of shipping to all European countries.

SPEX CertiPrep Ltd. also supplies the full range of SPEX SamplePrep products. This includes laboratory mills, presses, XRF accessories and the Katanax® Automated Fusion Machines. Our experienced sales staff and network of local distributors are available to provide product demonstrations and test grind and/or fuse samples. We are able to offer a complete sample preparation solution suited to your application.

SPEX SamplePrep

Just as calibration standards can limit the success of any analysis, data can be useless if the sample being analyzed is not representative of the whole or is poorly prepared. SPEX SamplePrep's expertise and products can help analysts achieve accurate and consistent results by assuring reliable, reproducible samples. The SPEX SamplePrep Handbook of Sample Preparation and Handling is well known as a primary source of helpful advice for the preparation of samples. Among the topics covered are grinding and pelletizing, fusion fluxing, and controlling contamination.

Sample Preparation products include mills, presses, dies, XRF liquid cells, XRF window films, automated fusion fluxers, and a selection of sample binders and grinding aids to simplify the sample preparation process. These products are used throughout the world in industrial, academic, research and government laboratories. The uses cover many different fields of spectroscopy (XRF, ICP, ICP-MS, AA, IR) and their applications range from genetic research, forensics, geology, medicine, immuno-assay to agriculture. Copies of the Handbook may be obtained by contacting

Single-Component Organic Standards

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 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
Abietic acid	514-10-3	Methyl-tert-Butyl Ether	S-4355
L-Abrine	526-31-8	Methanol	S-4644
Acarol (Bromopropylate)	18181-80-1	Methanol	S-103
Acenaphthene	83-32-9	Methylene Chloride	S-105
Acenaphthene	83-32-9	Acetonitrile	S-105-ACN
Acenaphthene-d10	15067-26-2	Methanol	S-110
Acenaphthylene	208-96-8	Methylene Chloride	S-115
Acenaphthylene-d8	93951-97-4	Methylene Chloride	S-116
Acephate	30560-19-1	Methanol	S-120
Acephate	30560-19-1	Acetone	S-120-AC
Acequinocyl-hydroxy	57960-31-3	Isooctane:Toluene	S-6415-IST
Acetal	105-57-7	Methanol	S-4755
Acetaldehyde	75-07-0	Methanol	S-125
Acetaldehyde	75-07-0	Deionized Water	S-125-5K
Acetaldehyde	75-07-0	Deionized Water	S-125-W1.8
Acetaldehyde-2,4-DNPH	1019-57-4	Methanol	S-5756
Acetaldehyde dimethyl acetal	534-15-6	Methanol	S-1570A
2-Acetaminofluorene	53-96-3	Methanol	S-130
Acetaminophen	103-90-2	Methanol	S-4539
Acetamiprid	135410-20-7	Methanol	S-4677
Acetanilide	103-84-4	Methanol	S-132
Acetic Acid	64-19-7	Methanol	S-133
Acetic Acid	64-19-7	Deionized Water	S-133-W10K
Acetic Acid, sodium salt	127-09-3	Deionized Water	S-134
Acetic Anhydride	108-24-7	Methyl-tert-Butyl Ether	S-4028
Acetochlor	34256-82-1	Methanol	S-135
Acetochlor	34256-82-1	Acetonitrile	S-135-ACN
Acetochlor ESA	187022-11-3	Acetonitrile	S-4630
Acetochlor OA	194992-44-4	Acetonitrile	S-4631
Acetoin	513-86-0	Ethanol	S-136

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Acetol	116-09-6	Methanol	S-138
Acetone	67-64-1	Methanol	S-140
Acetone	67-64-1	Deionized Water	S-140-W
Acetone-2,4-DNPH	1567-89-1	Methanol	S-5757
Acetone-d6	666-52-4	Methanol	S-141
Acetonitrile	75-05-8	Methanol	S-145
Acetonitrile-d3	2206-26-0	Methanol	S-146
p-Acetophenetidine	62-44-2	Methylene Chloride	S-150
Acetophenone	98-86-2	Methanol	S-155
Acetovanillone	498-02-2	Methanol	S-156
1-Acetoxy-2-methoxyethane	110-49-6	Methanol	S-157
1-Acetyl-2-thiourea	591-08-2	Methanol	S-160
Acetyl Chloride	75-36-5	Nonane	S-4697
Acetylene	74-86-2	Methanol	S-158
2-Acetylfuran	1192-62-7	Methanol	S-161
1-Acetylpyrene	3264-21-9	Methanol	S-159
Acetylsalicylic Acid	50-78-2	Methanol	S-5888
Acifluorfen	50594-66-6	Methanol	S-167
Acifluorfen methyl ester	50594-67-7	Methanol	S-167A
Alconifen	74070-46-5	Methanol	S-5154
cis-Aconitic acid	585-84-2	HPLC Water	S-5080
trans-Aconitic acid	4023-65-8	HPLC Water	S-5081
Acridine	260-94-6	Methanol	S-170
Acrolein	107-02-8	Methanol	S-175
Acrolein	107-02-8	Deionized Water	S-175-W
Acrolein-2,4-DNPH	888-54-0	Methanol	S-5758
Acrylamide	79-06-1	Methanol	S-177
Acrylamide	79-06-1	Deionized 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	S-180

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Acrylonitrile	107-13-1	Deionized Water	S-180-W
Adipic acid	124-04-9	Deionized Water	S-4167
Adiponitrile	111-69-3	Methanol	S-5932
Alachlor	15972-60-8	Methanol	S-185
Alachlor ESA	140939-15-7	Acetonitrile	S-4633
Alachlor OA	171262-17-2	Acetonitrile	S-4632
Aldicarb	116-06-3	Acetonitrile	S-190
Aldicarb	116-06-3	Methanol	S-190-METH
Aldicarb sulfone	1646-88-4	Acetone	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	S-4240
Allidochlor	93-71-0	Methanol	S-4241
Alloocimene	673-84-7	Methanol	S-5699
Allyl alcohol	107-18-6	Methanol	S-207
Allyl chloride	107-05-1	Methanol	S-210
Allyl Isothiocyanate	57-06-7	Methanol	S-4881
Aluminum phosphide	20859-73-8	Acetone	S-212
Ambrettolide	123-69-3	Methanol	S-651
Ametryne	834-12-8	Methanol	S-215
2-Amino-4,6-dinitrotoluene	35572-78-2	Methanol	S-221
2-Amino-N-isopropylbenzamide	30391-89-0	Methanol	S-4184
3-Amino-9-ethylcarbazole	132-32-1	Methanol	S-0226
4-Amino-2,6-dinitrotoluene	19406-51-0	Methanol	S-226
2-Aminoanthraquinone	117-79-3	MeCl ₂ :Benzene: Tetrahydrofuran	S-220
o-Aminoazotoluene	97-56-3	Methanol	S-4476
2-Aminobenzothiazole	136-95-8	Methanol	S-4769
3-Aminobiphenyl	2243-47-2	Ethyl Acetate	S-6160
4-Aminobiphenyl	92-67-1	Methanol	S-225
4-Aminobiphenyl-d9	344298-96-0	Ethyl Acetate	S-6144
Aminocarb	2032-59-9	Methanol	S-4280
2-(2-Aminoethoxy)ethanol	929-06-6	Methanol	S-224
Aminoethyl piperazine	140-31-8	Methanol	S-4364
Aminoethylethanolamine	111-41-1	Methanol	S-4365
Aminomethyl phosphonic acid	1066-51-9	Deionized Water	S-4006
1-Aminonaphthalene	134-32-7	Methanol	S-230
1-Aminonaphthalene-d7	78832-53-8	Methanol	S-6146
2-Aminonaphthalene	91-59-8	Methanol	S-235
2-Aminonaphthalene-d7	93951-94-1	Ethyl Acetate	S-6145
4-Aminophenylether	101-80-4	Methanol	S-240
4-Aminoquinaldine	6628-04-2	Methanol	S-5721
Aminotriazole	61-82-5	Acetone	S-245

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Amitraz	33089-61-1	Methanol	S-246
Ammonium acetate	631-61-8	Methanol	S-5494
Ammonium formate	540-69-2	Methanol	S-5166
Ammonium persulfate	7727-54-0	Methanol	S-250
Amyl acetate (isomers of pentyl acetate and 2-pentyl acetate)	628-63-7	Methanol	S-255
tert-Amyl alcohol	75-85-4	Methanol	S-260
Tert-Amyl ethyl ether	919-94-8	Methanol	S-4459
tert-Amyl methyl ether	994-05-8	Methanol	S-265
Amylbenzene	538-68-1	Methanol	S-256
4-tert-Amylphenol	80-46-6	Methanol	S-270
Anabasine	13078-04-1	Methanol	S-6361
5-alpha-Androstan-17-beta-ol-3-one	521-18-6	Methanol	S-6182
5-alpha-Androstane	438-22-2	Methanol	S-211
4-Androstene-3,17-dione	63-05-8	Methanol	S-4434
cis-Androsterone	53-41-8	Methanol	S-5072
Anilazine	101-05-3	Methanol	S-275
Anilazine	101-05-3	Acetone	S-275-AC
Aniline	62-53-3	Methanol	S-280
Anilofos	64249-01-0	Acetonitrile	S-6100
o-Anisidine	90-04-0	Methanol	S-285
Anisole	100-66-3	Methanol	S-288
Anthanthrene	191-26-4	Methylene Chloride	S-4739
Anthracene	120-12-7	Methylene Chloride	S-290
Anthracene-d10	1719-06-8	Methylene Chloride	S-291
Anthracene-d10	1719-06-8	Acetonitrile	S-291-ACN
Anthraquinone	84-65-1	MeOH:Acetone 50:50	S-295
Apomyoglobin	9008-45-1	Acetonitrile	S-5471
D-Arabinitol	488-82-4	Methanol	S-5523
Aramite	140-57-8	Methanol	S-305
Arsenal	81510-83-0	Methanol	S-307
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	S-330
Aroclor 1254	11097-69-1	Methanol	S-335
Aroclor 1254	11097-69-1	Isooctane	S-335-ISOOCT
Aroclor 1260	11096-82-5	Methanol	S-340
Aroclor 1262	37324-23-5	Hexane	S-345
Aroclor 1268	11100-14-4	Hexane	S-350
Arsenal	N/A	Methanol	S-4566
Asana (Esfenvalerate)	66230-04-4	Acetone	S-0351
Asana (Esfenvalerate)	66230-04-4	Methanol	S-351

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Aspon	3244-90-4	Methanol	S-355
Asulam	3337-71-1	Methanol	S-4201
Atenolol	29122-68-7	Methanol	S-5609
Atraton	1610-17-9	Methanol	S-360
Atrazine	1912-24-9	Acetone	S-365
Atrazine desethyl	6190-65-4	Methanol	S-1145
Atrazine desisopropyl	1007-28-9	Methanol	S-1135
Azadirachtin	11141-17-6	Acetonitrile	S-6124
Azamethiphos	35575-96-3	Acetonitrile	S-5621-ACN
Azamethiphos	35575-96-3	Methylene Chloride	S-5621-MC
Azinphos-ethyl	2642-71-9	Acetone	S-366
Azinphos-methyl	86-50-0	Acetone	S-2085
Azinphos methyl oxon	961-22-8	Acetonitrile	S-5775-ACN
Azithromycin	83905-01-5	Methanol	S-5882
Azobenzene	103-33-3	Methanol	S-370
Azoxystrobin	131860-33-8	Methanol	S-3984
Azoxystrobin	131860-33-8	Acetone	S-3984-AC
Azulene	274-51-4	Methanol	S-372
Barban	101-27-9	Methanol	S-375
Baygon (Propoxur)	114-26-1	Methanol	S-3200
Baygon (Propoxur)	114-26-1	Acetone	S-3200-AC
Baygon (Propoxur)	114-26-1	Acetonitrile	S-3200-ACN
Baytan (Triadimenol)	55219-65-3	Methanol	S-3996
Baythroid	68359-37-5	Methanol	S-376
Baythroid	68359-37-5	Acetone	S-376-AC
Beam	41814-78-2	Methanol	S-377
Benalaxyl	71626-11-4	Methanol	S-4262
Benazolin	3813-05-6	Methanol	S-3956
Bendiocarb	22781-23-3	Methanol	S-379
Benfluralin	1861-40-1	Methanol	S-380
Benfuracarb	82560-54-1	Acetone	S-4678
Benodanil	15310-01-7	Methanol	S-4242
Benodanil	15310-01-7	Methanol	S-4283
Benomyl	17804-35-2	Acetonitrile	S-385-ACN
Benoxacor	98730-04-2	Acetonitrile	S-5510
Bensulide	741-58-2	Methanol	S-390
Bentazon	25057-89-0	Methyl-tert-Butyl Ether	S-395
Bentazon methyl ester	25057-89-0	Methanol	S-396
Bentazon methyl ester	25057-89-0	Methanol	S-396A
Benthiocarb	28249-77-6	Methanol	S-400
Benthiocarb	28249-77-6	Acetone	S-400-AC
Benz(a)anthracene	56-55-3	Methylene Chloride	S-425
Benz(b)anthracene	92-24-0	Toluene	S-426
Benzaldehyde	100-52-7	Methanol	S-402

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Benzalkonium Chloride	63449-41-2	Methanol	S-5115
Benzene	71-43-2	Methanol	S-405
Benzene-d6	1076-43-3	Methanol	S-0406
Benzidine	92-87-5	Methanol	S-410
Benzidine	92-87-5	Methylene Chloride	S-410-MECL
Benzo(a)anthracene-d12	1718-53-2	Methanol	S-4759
Benzo(a)fluorene	238-84-6	Methanol	S-3921
Benzo(a)pyrene	50-32-8	Methylene Chloride	S-430
Benzo(a)pyrene-d12	63466-71-7	Methylene Chloride	S-431
Benzo(b)fluoranthene	205-99-2	Methylene Chloride	S-435
Benzo(b)Naphtho(2,1-d)Thiophene	239-35-0	Methylene Chloride	S-4876
Benzo(b)thiophene	95-15-8	Methanol	S-437
Benzo(c)cinnoline	230-17-1	Methanol	S-438
Benzo(c)phenanthrene	195-19-7	Methylene Chloride	S-439
Benzo(e)pyrene	192-97-2	Methylene Chloride	S-440
Benzo(e)pyrene-d12	205440-82-0	Methanol	S-4971
Benzo(g,h,i)perylene	191-24-2	Methylene Chloride	S-445
Benzo(g,h,i)perylene-d12	93951-66-7	Acetone	S-446
Benzo(j)fluoranthene	205-82-3	Methylene Chloride	S-450
Benzo(k)fluoranthene	207-08-9	Methylene Chloride	S-455
Benzocaine	94-09-7	Methanol	S-411
2,3-Benzofluorene	243-17-4	Methanol	S-3920
2,3-Benzofuran	271-89-6	Methanol	S-412
Benzoic acid	65-85-0	Methylene Chloride	S-415
Benzonitrile	100-47-0	Methanol	S-417
Benzophenone	119-61-9	Methylene Chloride	S-418
1,4-Benzoquinone	106-51-4	Methanol	S-420
1,4-Benzoquinone dioxime	105-11-3	Methylene Chloride:Acetone	S-421
Benzothiazole	95-16-9	Methanol	S-422
Benzotriazole	95-14-7	Methanol	S-4121
Benzoyl peroxide	94-36-0	Methanol	S-461
Benzoyl chloride	98-88-4	Methanol	S-459
Benzoylformic acid	611-73-4	Acetonitrile	S-5222
Benzoylprop-ethyl	22212-55-1	Methanol	S-4271
Benzosulfuron methyl	83055-99-6	Acetone	S-467
2-Benzyl-4-Chlorophenol	120-32-1	Methylene Chloride	S-466
Benzyl-2,3,4,5,6-d5 Alcohol	68661-10-9	Methanol	S-3936
Benzyl acetate	140-11-4	Methanol	S-6410
Benzyl alcohol	100-51-6	Methanol	S-460
Benzyl benzoate	120-51-4	Methanol	S-462
Benzyl benzoate	120-51-4	Cyclohexane	S-462-CYC
Benzyl bromide	100-39-0	Methanol	S-4312
Benzyl chloride	100-44-7	Methanol	S-465

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Benzyl chloride	100-44-7	Carbon Disulfide	S-465-CS2
Benzyl ether	103-50-4	Methanol	S-463
Benzyl mercaptan	100-53-8	Methanol	S-5669
Bezafibrate	41859-67-0	Methanol	S-5879
alpha-BHC	319-84-6	Methanol	S-470
alpha-BHC-d6 (alpha-1,2,3,4,5,6-Hexachlorocyclohexane-d6)	86194-41-4	Methanol	S-490
beta-BHC	319-85-7	Methanol	S-475
delta-BHC	319-86-8	Methanol	S-480
gamma-BHC	58-89-9	Methanol	S-485
Bifenazate	149877-41-8	Acetonitrile	S-6082
Bifenox	42576-02-3	Methanol	S-495
Bifenthrin	82657-04-3	Acetone	S-494
Bifenthrin	82657-04-3	Acetonitrile	S-494-ACN
Binapacryl	485-31-4	Methanol	S-4837
Bioallethrin	28057-48-9	Methanol	S-496
Biodiesel (B-100)	67784-80-9	Methanol	S-4874
Bioresmethrin (3% cis - 96% trans)	28434-01-7	Methanol	S-4462
Biphenyl	92-52-4	Methylene Chloride	S-500
2-Biphenylol	N/A	Methanol	S-4559
2,2'-Biquinoline	119-91-5	Methanol	S-505
Bisabolene	495-62-5	Methanol	S-502
Bisphenol A	80-05-7	Acetone	S-509
Bisphenol A	80-05-7	Methylene Chloride	S-509-MC
Bisphenol A diglycidyl ether	1675-54-3	Acetonitrile	S-511
Bisphenol F diglycidyl ether	2095-03-6	Acetonitrile	S-507
Bisphenol S	80-09-1	Methanol	S-5871
3-Bis(1-isocyanato-1-methylethyl benzene	2778-42-9	Methylene Chloride	S-6632
Bitertanol (mix of isomers)	55179-31-2	Acetone	S-4679
Bladex	21725-46-2	Methanol	S-510
Borneol	507-70-0	Methanol	S-4570
(+)-Borneol	464-43-7	Methanol	S-5093
Boron trichloride	10294-34-5	Methylene Chloride	S-516
Boron trifluoride	373-57-9	Methanol	S-517
Boscalid	188425-85-6	Methanol	S-4815
Bradykinin acetate salt	6846-03-3	Acetonitrile	S-5694
Bromacil	314-40-9	Methanol	S-515
Bromacil	314-40-9	Acetonitrile	S-515-ACN
1-Bromo-2-chloroethane	107-04-0	Methanol	S-587
1-Bromo-2-ethylbenzene	1973-22-4	Methanol	S-589
1-Bromo-2-nitrobenzene	577-19-5	Methanol	S-590
1-Bromo-3-chloropropane	109-70-6	Methanol	S-4743
1-Bromo-4-ethylbenzene	1585-07-5	Methanol	S-592

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1-Bromo-4-fluorobenzene	460-00-4	Methanol	S-593
2-Bromo-1-chloropropane	3017-95-6	Methanol	S-580
2-Bromo-4'-chloroacetophenone	536-38-9	Methanol	S-5098
4-Bromo-1-butene	5162-44-7	Methanol	S-4797
4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	672-99-1	Methanol	S-591
a-Bromo-2,3,4,5,6-pentafluorotoluene (PFBBR)	1765-40-8	Methanol	S-585
Bromoacetic acid	79-08-3	Methyl-tert-Butyl Ether	S-520
2-Bromoacetophenone	70-11-1	Methanol	S-5095
3'-Bromoacetophenone	2142-63-4	Methanol	S-524
Bromobenzene	108-86-1	Methanol	S-525
Bromochloroacetic acid	5589-96-8	Methyl-tert-Butyl Ether	S-530
2-Bromochlorobenzene	694-80-4	Methanol	S-533
3-Bromochlorobenzene	108-37-2	Methanol	S-531
4-Bromochlorobenzene	106-39-8	Methanol	S-534
Bromochloromethane	74-97-5	Methanol	S-535
Bromocyclen	1715-40-8	Acetone	S-5917
Bromodichloroacetic acid	71133-14-7	Methyl-tert-Butyl Ether	S-536
Bromodichloromethane	75-27-4	Methanol	S-542
4-Bromodiphenyl ether	101-55-3	Methanol	S-545
Bromoethane	74-96-4	Methanol	S-547
2-Bromoethanol	540-51-2	Methanol	S-5097
4-Bromofluorobenzene	460-00-4	Methanol	S-550
Bromoform	75-25-2	Methanol	S-555
Bromomethane	74-83-9	Methanol	S-560
Bromomethane	74-83-9	N,N-Dimethylformamide	S-560-DMF
Bromomethyl methyl ether	13057-17-5	Methanol	S-5096
2-Bromonaphthalene	580-13-2	Methanol	S-559
Bromopentafluorobenzene	344-04-7	Methanol	S-561
3-Bromophenol	591-20-8	Methanol	S-6044
4-Bromophenol	106-41-2	Methanol	S-4290
Bromophenol blue	115-39-9	Methanol	S-562
Bromophos-ethyl	4824-78-6	Methanol	S-565
Bromophos-methyl	2104-96-3	Methanol	S-570
Bromophos-methyl	2104-96-3	Acetone	S-570-AC
1-Bromopropane	106-94-5	Methanol	S-6048
2-Bromopropionic acid	598-72-1	Methanol	S-572
3-Bromopropionic acid	590-92-1	Methanol	S-574
3-Bromopropylamine hydrobromide	5003-71-4	Methanol	S-4886
Bromoxynil	1689-84-5	Methanol	S-575
Bromoxynil Octanoic acid ester	1689-99-2	Methanol	S-577
2-Bromphenol	95-56-7	Methanol	S-5146
Bucine	357-57-3	Acetonitrile	S-594

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Bupirimate	41483-43-6	Methanol	S-4272	tert-Butyl ethyl ether	637-92-3	Methanol	S-645
Buprofezin	69327-76-0	Toluene	S-4254	Butyl formate	592-28-7	Methanol	S-647
Butachlor	23184-66-9	Methanol	S-595	tert-Butyl formate	762-75-4	Methanol	S-646
1,3-Butadiene	106-99-0	Methanol	S-1260	Butyl glycidyl ether	2426-08-6	Methanol	S-5328
1,3-Butadiene diepoxide-(+/-)	1464-53-5	Methanol	S-602	N-Butyl isocyanate	111-36-4	Acetone	S-4883-AC
n-Butane	106-97-8	Methanol	S-605	t-Butyl isocyanate	1609-86-5	Methanol	S-4947
1,2-Butanediol	584-03-2	Methanol	S-5801	Butyl methacrylate	97-88-1	Methanol	S-4542
1,3-Butanediol	107-88-0	Methanol	S-607	tert-Butyl methyl-d3 ether	29366-08-3	Methanol	S-2455C
1,4-Butanediol	110-63-4	Methanol	S-5060	tert-Butyl methyl ether	1634-04-4	Methanol	S-650
2,3-Butanediol	513-85-9	Methanol	S-4193	Butylamine	109-73-9	Methanol	S-657
2,3-Butanedione	431-03-8	Methanol	S-609	tert-Butylamine	75-64-9	Methanol	S-3366
1-Butanethiol	109-79-5	Methanol	S-608	Butylate	2008-41-5	Methanol	S-660
(S)-1,2,4-Butanetriol	42890-76-6	Pyridine	S-4389	Butylated hydroxyanisole	25013-16-5	Methanol	S-662
1-Butanol	71-36-3	Methanol	S-610	n-Butylbenzene	104-51-8	Methanol	S-665
2-Butanol	78-92-2	Methanol	S-615	sec-Butylbenzene	135-98-8	Methanol	S-670
2-Butanone	78-93-3	Methanol	S-620	tert-Butylbenzene	98-06-6	Methanol	S-675
2-Butanone-2,4-DNPH	958-60-1	Methanol	S-5761	N-Butylbenzenesulfonamide	3622-84-2	Methanol	S-677
1-Butene	106-98-9	Methanol	S-621	Butylbenzyl phthalate	85-68-7	Methylene Chloride	S-680-MECL
2-Butene-1,4-diol	110-64-5	Methanol	S-625	4-tert-Butylcatechol	98-29-3	Methanol	S-685
cis-2-Butene	590-18-1	Methanol	S-622	N-Butylcyclohexane	1678-93-9	Carbon Disulfide	S-6359-CS2
trans-2-Butene	624-64-6	Methanol	S-4175	sec-Butylcyclohexane	7058-01-7	Methanol	S-687
2-Butene (mixture of cis & trans)	107-01-7	Methanol	S-4445	tert-Butylhydroquinone	1948-33-0	Acetone	S-648
1-tert-Butoxy-2-ethoxyethane	51422-54-9	Methanol	S-629	Butyl octyl phthalate (Tech Mixture)	84-78-6	Methylene Chloride	S-6636
2-Butoxyethanol	111-76-2	Methanol	S-630	4-tert-Butylphenol	98-54-4	Methanol	S-693
2-Butoxyethyl acetate	112-07-2	Methanol	S-631	N-Butyltin trichloride	1118-46-3	Methanol	S-4636
Tris-(2-Butoxyethyl)phosphate	78-51-3	Methanol	S-4671	4-tert-Butyltoluene	98-51-1	Methanol	S-695
Bis(2-n-Butoxyethyl)phthalate	117-83-9	Methanol	S-4671	Butyraldehyde	123-72-8	Methanol	S-700
Bis(2-n-Butoxyethyl)phthalate	117-83-9	Methylene Chloride	S-4152-MC	Butyraldehyde-2,4-DNPH	1527-98-6	Methanol	S-5762
Butralin	32629-47-9	Methanol	S-4273	Butyric acid	107-92-6	Deionized Water	S-702
2-tert-butyl-4-methylphenol	2409-55-4	Methanol	S-5062	a,Butyrolactone	96-48-0	Methanol	S-3885
4-tert-Butyl-2,6-dimethyl-3,5-dinitroacetophenone	81-14-1	Methanol	S-652	gamma-Butyrolactone	96-48-0	Methanol	S-701
5-tert-Butyl-2,4,6-trinitro-m-xylene	81-15-2	Methanol	S-3761	Butyronitrile	109-74-0	Methanol	S-4088
Butyl-4-hydroxybenzoate	94-26-8	Methanol	S-5123	C.I. Basic Blue 26	2580-56-5	Methanol	S-5937
Butyl acetate	123-86-4	Methanol	S-635	C.I. Basic Blue 4	6786-83-0	Methanol	S-5939
Tert-butyl acetate	540-88-5	Methanol	S-5601	C.I. Basic Violet 3	548-62-9	Methanol	S-5938
Butyl acrylate	141-32-2	Methanol	S-655	Cadusafos	95465-99-9	Acetonitrile	S-4826
sec-Butyl acrylate	2998-08-5	Methanol	S-5312	Caffeine	58-08-2	Methanol	S-705
tert-Butyl alcohol	75-65-0	Methanol	S-3365	Caffeine	58-08-2	Deionized Water	S-705-W
tert-Butyl alcohol-d10	53001-22-2	Methanol	S-654	Caffeine-D9	77238-85-8	Methanol	S-5493
Butyl carbitol	112-34-5	Methanol	S-5536	Calcium chloride	10043-52-4	Methanol	S-707
Butyl carbitol acetate	124-17-4	Methanol	S-640	(+)-Camphene	5794-03-6	Methanol	S-710
Butyl ether	142-96-1	Methanol	S-5134	Camphor	76-22-2	Methanol	S-3925
				dl-10-Camphorsulfonic acid	5872-08-2	Methanol	S-711

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
e-Caprolactam	105-60-2	Methanol	S-712
Captafol	2425-06-1	Acetone	S-715
Captafol	2425-06-1	Acetone	S-715-AC
Captafol	2425-06-1	Acetonitrile	S-715-ACN
Captan	133-06-2	Acetone	S-720
Carbamazepine	298-46-4	Methanol	S-4747
Carbaryl	63-25-2	Acetonitrile	S-725
Carbazole	86-74-8	Methylene Chloride	S-730
Carbendazim	10605-21-7	Methanol	S-733-ACN
Carbetamide	16118-49-3	Methanol	S-4274
Carbitol	111-90-0	Methanol	S-735
Carbofuran	1563-66-2	Methanol	S-740
Carbofuranphenol	17781-16-7	Methanol	S-4346
Carbon disulfide	75-15-0	Methanol	S-745
Carbon from dextrose	50-99-7	Methanol	S-5544
Carbon sucrose	57-50-1	Deionized Water	S-3308C
Carbon tetrachloride	56-23-5	Methanol	S-750
Carbophenothion	786-19-6	Methanol	S-755
Carbophenothion	786-19-6	Acetone	S-755-AC
Carbosulfan	55285-14-8	Methanol	S-742
Carboxin	5234-68-4	Acetone	S-760
Carboxin	5234-68-4	Acetonitrile	S-760-ACN
trans-Carboxylate	38410-80-9	Acetone	S-4315
3-Carene	13466-78-9	Methanol	S-4171
Carfentrazone-Ethyl	128639-02-1	Acetonitrile	S-5040
Carvone	6485-40-1	Methanol	S-5731
trans-Caryophyllene	87-44-5	Methanol	S-5690
Catechol	120-80-9	Methanol	S-761
alpha-Cedrene	469-61-4	Methanol	S-5691
Cellobiose	528-50-7	Methanol	S-4511
Cellulose nitrate	9004-70-0	HPLC Water	S-4548
Cesium hydrogencarbonate	29703-01-3	Methanol	S-5476
Cesium iodide	7789-17-5	Methanol	S-5474
Chalcone	94-41-7	Methanol	S-764
Chloramben	133-90-4	Methanol	S-765
Chloramben methyl ester	7286-84-2	Methanol	S-766
Chloramphenicol	56-75-7	Methanol	S-4032
Chlorbenside	103-17-3	Methanol	S-767
Chlorbenside-sulfone	7082-99-7	Isooctane:Toluene	S-6414-IST
Chlorbenside-sulfone	7082-99-7	Ethyl Acetate	S-6414-EA
Chlorbenside-sulfoxide	7047-28-1	Acetonitrile	S-6421
Chlorbenside-sulfoxide	7047-28-1	Ethyl Acetate	S-6421-EA
Chlorbromuron	13360-45-7	Methanol	S-4275
Chlorbromuron	13360-45-7	Acetonitrile	S-769

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Chlorbufam	1967-16-4	Methanol	S-4276
alpha-Chlordane	5103-71-9	Methanol	S-770
Chlordane	57-74-9	Hexane	S-780
gamma-Chlordane	5103-74-2	Methanol	S-775
trans-Chlordene	3734-48-3	Methanol	S-782
Chlordiamino-S-Triazine	3397-62-4	Methanol	S-5065
Chlordimeform	6164-98-3	Methanol	S-783
Chlorendic acid	115-28-6	Methanol	S-4302
Chlorethoxyphos	54593-83-8	Methanol	S-5754
Chlorethoxyphos	54593-83-8	Acetonitrile	S-5754-ACN
Chlorfenapyr	122453-73-0	Acetonitrile	S-4961
Chlorfenprop-methyl	14437-17-3	Methanol	S-6393
Chlorfenvinfos	470-90-6	Acetone	S-785
Chlorfluazuron	71422-67-8	Methanol	S-4017
Chlorflurecol-methyl ester	2536-31-4	Methanol	S-4623
Chlorimuron-ethyl	90982-32-4	Acetone	S-3927
Chlormephos	24934-91-6	Methanol	S-787
Chlormequat chloride	999-81-5	Methanol	S-4838
1-Chloro-1,1-difluoroethane	75-68-3	Methanol	S-4297
1-Chloro-2,4-difluorobenzene	1435-44-5	Methanol	S-839
1-Chloro-2,4-dinitrobenzene	97-00-7	Methanol	S-844
1-Chloro-2-fluorobenzene	348-51-6	Methanol	S-935
1-Chloro-2-methylpropane	513-36-0	Methanol	S-936
1-Chloro-2-nitrobenzene	88-73-3	Methanol	S-948
1-Chloro-2-propanol (Contains 2-Chloro-1-propanol)	127-00-4	Propylene Dichloride	S-908
1-Chloro-3-fluorobenzene	625-98-9	Methanol	S-944
1-Chloro-4-fluorobenzene	352-33-0	Methanol	S-950
1-Chloro-4-nitrobenzene	100-00-5	Methanol	S-951
2-Chloro-1,1,1-trifluoroethane	75-88-7	Methanol	S-958
2-Chloro-1,3-butadiene	126-99-8	Methanol	S-930
2-Chloro-2,6-diethylacetanilide	6967-29-9	Acetone	S-4318
2-Chloro-4-methylphenol	6640-27-3	Methanol	S-5075
2-Chloro-4-nitrotoluene	121-86-8	Methanol	S-498
2-Chloro-5-(trifluoromethyl) aniline	121-50-6	Methanol	S-953
2-Chloro-5-methylphenol	615-74-7	Methanol	S-946
2-Chloro-5-nitrotoluene	13290-74-9	Methanol	S-4982
2-Chloro-5-trifluoromethylpyridine	52334-81-3	Methanol	S-4046
2-Chloro-6-methylphenol	87-64-9	Methanol	S-6151
2-chloro-6-nitrotoluene	83-42-1	Methanol	S-4983
3-Chloro-1,2-propanediol	96-24-2	Methanol	S-896
3-Chloro-2-methylaniline	87-60-5	Methanol	S-940
3-Chloro-2-methylpropene	563-47-3	Methanol	S-942
3-Chloro-4-methylphenol	615-62-3	Methanol	S-5076

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
4-Chloro-1,2-phenylenediamine	95-83-0	Acetonitrile	S-954	3-Chlorocatechol	4018-65-9	Methanol	S-3903
4-Chloro-1,3-phenylenediamine	5131-60-2	Acetone	S-907	Chlorodibromoacetic acid	5278-95-5	Methyl-tert-Butyl Ether	S-3892
4-Chloro-2-methylaniline	95-69-2	Methanol	S-4472	Chlorodifluoromethane	75-45-6	Methanol	S-840
4-Chloro-2-methylphenol	1570-64-5	Methanol	S-3979	Chloroethane	75-00-3	Methanol	S-845
4-Chloro-2-nitrotoluene	89-59-8	Acetone	S-4984	2-Chloroethanol	107-07-3	Methanol	S-847
4-Chloro-3,5-dimethylphenol	88-04-0	Methanol	S-943	1,2-bis(2-Chloroethoxy)ethane	112-26-5	Methanol	S-849
4-Chloro-3-methylphenol	59-50-7	Methanol	S-945	Bis[2-(2-chloroethoxy)ethyl] ether	638-56-2	Methanol	S-4958
4-Chloro-3-nitrobenzotrifluoride	121-17-5	Methanol	S-947	bis(2-Chloroethoxy)methane	111-91-1	Methanol	S-850
4-Chloro-3-nitrotoluene	89-60-1	Methanol	S-4985	2-chloroethyl ethyl sulfide	693-07-2	Methanol	S-4948
4-Chloro-o-toloxycetic acid	94-74-6	Methanol	S-955	2-chloroethyl vinyl ether	110-75-8	Methanol	S-855
4-Chloro-o-toloxycetic acid methyl ester	N/A	Methanol	S-4551	bis(2-Chloroethyl)ether	111-44-4	Methanol	S-860
5-Chloro-2-methylaniline	95-79-4	Methanol	S-0941	Tris(2-chloroethyl)phosphate	115-96-8	Methanol	S-4359
Bis(2-chloro-1-methylethyl) ether	108-60-1	Methylene Chloride	S-870	Chloroform	67-66-3	Methanol	S-865
Chloroacetaldehyde	107-20-0	Methanol	S-792	Chloroform-d1	865-49-6	Methanol	S-866
Chloroacetic acid	79-11-8	Methyl-tert-Butyl Ether	S-795	1-Chlorohexane	544-10-5	Methanol	S-869
Chloroacetone	78-95-5	Methanol	S-4882	Chlorohydroquinone	615-67-8	Methanol	S-3894
Chloroacetonitrile	107-14-2	Methanol	S-797	Chloromethane	74-87-3	Methanol	S-875
2'-Chloroacetophenone	2142-68-9	Methanol	S-798	Chloromethyl methyl ether	107-30-2	Methanol	S-877
2-Chloroacetophenone	532-27-4	Methanol	S-794	bis(Chloromethyl) ether	542-88-1	Isooctane	S-880
3'-Chloroacetophenone	99-02-5	Methanol	S-799	1-Chloronaphthalene	90-13-1	Methanol	S-885
4'-Chloroacetophenone	99-91-2	Methanol	S-801	2-Chloronaphthalene	91-58-7	Methanol	S-890
2-Chloroacrylonitrile	920-37-6	Methanol	S-3912	Chloroneb	2675-77-6	Methanol	S-790
2-Chloroallyldiethyldithiocarbamate	95-06-7	Methanol	S-800	3-Chloronitrobenzene	121-73-3	Methanol	S-949
2-Chloroallyldiethyldithiocarbamate	95-06-7	Acetone	S-800-AC	1-Chlorooctadecane	3386-33-2	Methylene Chloride	S-893
2-Chloroaniline	95-51-2	Methanol	S-802	Chloropentafluoroethane	76-15-3	Methanol	S-4819
3-Chloroaniline	108-42-9	Methanol	S-803	2-Chlorophenol	95-57-8	Methanol	S-900
4-Chloroaniline (p-Chloroaniline)	106-47-8	Methanol	S-805	2-Chlorophenol-3,4,5,6-d4	93951-73-6	Methanol	S-905
2-Chloroanisole	766-51-8	Methanol	S-5143	3-Chlorophenol	108-43-0	Methanol	S-901
3-Chloroanisole	2845-89-8	Methanol	S-5144	4-Chlorophenol	106-48-9	Methanol	S-906
4-Chloroanisole	623-12-1	Methanol	S-5145	2-(4-Chlorophenoxy)-2-methylpropionic acid	882-09-7	Methanol	S-5654
o-Chlorobenzaldehyde	89-98-5	Methanol	S-804	2-(3-Chlorophenoxy)propionic acid	101-10-0	Methanol	S-4441
Chlorobenzene	108-90-7	Methanol	S-810	p-Chlorophenoxyacetic acid	122-88-3	Methanol	S-4440
Chlorobenzene-d5	3114-55-4	Methanol	S-815	4-Chlorophenyl-phenyl ether	7005-72-3	Methanol	S-910
Chlorobenzilate	510-15-6	Methanol	S-820	4-Chlorophenyl methyl sulfone	98-57-7	Acetone	S-916
m-Chlorobenzoic acid	535-80-8	Methanol	S-825	2,2-Bis(4-chlorophenyl)-1,1-dichloroethylene	72-55-9	Methanol	S-508
o-Chlorobenzoic acid	118-91-2	Methanol	S-830	3-(4-chlorophenyl)-1-methyl urea	5352-88-5	Methanol	S-5063
p-Chlorobenzoic acid	74-11-3	Methanol	S-835	Chloropicrin	76-06-2	Methanol	S-911
4-Chlorobenzotrifluoride	98-56-6	Methanol	S-836	Chloroprene	126-99-8	Methanol	S-930A
a-Chlorobenzylidenemalononitrile	18270-61-6	Methylene Chloride	S-819	1-Chloropropane	540-54-5	Methanol	S-4493
2-Chlorobiphenyl	2051-60-7	Methylene Chloride	S-837	2-Chloropropane	75-29-6	Methanol	S-912
3-Chlorobiphenyl	2051-61-8	Methylene Chloride	S-841	1-Chloropropene	590-21-6	Methanol	S-909
4-Chlorobiphenyl	2051-62-9	Methylene Chloride	S-821	2-Chloropropene	557-98-2	Methanol	S-895
1-Chlorobutane	109-69-3	Methanol	S-838	3-Chloropropionitrile	542-76-7	Methanol	S-3846

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-Chloropyridine	109-09-1	Methanol	S-3860
3-Chloropyridine	626-60-8	Methanol	S-913
4-Chloropyridine HCl	7379-35-3	Methanol	S-914
Chlorosulfuron	64902-72-3	Methanol	S-4995
Chlorothalonil	1897-45-6	Methanol	S-915
Chlorothalonil	1897-45-6	Acetone	S-915-AC
Chlorothalonil	1897-45-6	Acetonitrile	S-915-ACN
2-Chlorotoluene	95-49-8	Methanol	S-920
3-Chlorotoluene	108-41-8	Methanol	S-923
4-Chlorotoluene	106-43-4	Methanol	S-925
Chlorotoluron	15545-48-9	Methanol	S-3947
Chlorotrifluoroethene	79-38-9	Methanol	S-4840
Chlorotrifluoromethane	75-72-9	Methanol	S-4206
Chloroxuron	1982-47-4	Methanol	S-3311
Chlorpropham	101-21-3	Methanol	S-960
Chlorpropham	101-21-3	Acetonitrile	S-960-ACN
Chlorpropylate	5836-10-2	Methanol	S-963
Chlorpyrifos	2921-88-2	Methanol	S-965
Chlorpyrifos	2921-88-2	Acetone	S-965-A
Chlorpyrifos-methyl	5598-13-0	Methanol	S-966
Chlorpyrifos-methyl	5598-13-0	Acetone	S-966-AC
Chlorpyrifos-methyl	5598-13-0	Acetonitrile	S-966-ACN
Chlorpyrifos oxon	5598-15-2	Acetone	S-968
Chlorthiamide	1918-13-4	Methanol	S-4278
Chlorthion	500-28-7	Methanol	S-4243
Chlorthion	500-28-7	Ethyl Acetate	S-4243-EA
Chlorthiophos	60238-56-4	Methanol	S-967
Chlozolate	84332-86-5	Acetonitrile	S-4286
Cholesterol	57-88-5	Methanol	S-4702
Chrysene	218-01-9	Methylene Chloride	S-970
Chrysene-d12	1719-03-5	Methylene Chloride	S-975
trans-Cinnamaldehyde	14371-10-9	Methanol	S-979
cis-1,2,3,6-Tetrahydrophthalimide	27813-21-4	Ethyl Acetate	S-6431-EA
Citraconic anhydride	616-02-4	Acetone	S-5767
Citric acid	77-92-9	Methanol	S-976
Citronellol	106-22-9	Methanol	S-4868
Clarithromycin	81103-11-9	Methanol	S-5877
Clethodim	99129-21-2	HPLC Acetonitrile	S-6083
Clodinafop-propargyl ester	105512-06-9	Acetonitrile	S-6039
Clofentezine	74115-24-5	Methanol	S-5772
Clofentezine	74115-24-5	Acetonitrile	S-5772-ACN
Clomazone	81777-89-1	Acetone	S-762
Cloransulam-methyl	147150-35-4	Acetonitrile	S-5009
Command	81777-89-1	Methanol	S-762A

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Coprostan-3-ol	360-68-9	Methanol	S-4670
Corn oil	8001-30-7	Acetone	S-978
Coronene	191-07-1	Methylene Chloride	S-3919
Coronene	191-07-1	Toluene	S-3919-TOL
Cotinine	486-56-6	Methanol	S-4327
Coumaphos	56-72-4	Acetone	S-980
Coumarin	91-64-5	Methanol	S-5061
Creosol	1319-77-3	Methanol	S-987
Creosote	8021-39-4	Methylene Chloride	S-3847
Crotonaldehyde-(predom. trans)	123-73-9	Deionized Water	S-990
Crotonaldehyde-2,4-DNPH	1527-96-4	Methanol	S-5760
Crotonaldehyde (mix. cis & trans)	4170-30-3	Methanol	S-4879
Crotonitrile	4786-20-3	Methanol	S-992
Crotoxypfos	7700-17-6	Methanol	S-995
Crotoxypfos	7700-17-6	Acetone	S-995-AC
18-Crown-6-ether	17455-13-9	Methanol	S-1000
Crufomate	299-86-5	Hexane	S-4287-HEX
4-Cumylphenol	599-64-4	Methanol	S-4673
Cyanofenphos	13067-93-1	Acetonitrile	S-5958
Cyanogen bromide	506-68-3	Methanol	S-5643
Cyanophos	2636-26-2	Methanol	S-1006
2-Cyanopyridine	100-70-9	Methanol	S-4007
3-Cyanopyridine	100-54-9	Methanol	S-4008
4-Cyanopyridine	100-48-1	Methanol	S-4009
Cycloate	1134-23-2	Methanol	S-1010
b-Cyclocitral	432-25-7	Methanol	S-4427
Cyclohexane	110-82-7	Methanol	S-1015
1,2-Cyclohexane dicarboxylic acid, di-isononyl ester	474919-59-0	Methanol	S-5104
1,2-Cyclohexane dicarboxylic anhydride, predominantly cis	85-42-7	Methanol	S-6045
Cyclohexanol	108-93-0	Methanol	S-1020
Cyclohexanone	108-94-1	Methanol	S-1025
Cyclohexene	110-83-8	Methanol	S-1030
Cyclohexene oxide	286-20-4	Methanol	S-1028
Cyclohexyl isocyanate	3173-53-3	Methylene Chloride	S-6633
2-Cyclohexyl-4,6-dinitrophenol	131-89-5	Methylene Chloride	S-1029
Cyclohexyl Methylphosphonic Acid	1932-60-1	Methanol	S-4496
Cyclohexyl(dimethoxy)methylsilane	17865-32-6	Methanol	S-4741
Cyclohexylamine	108-91-8	Methanol	S-1027
1,5-Cyclooctadiene	111-78-4	Methanol	S-1031
Cyclopenta(c,d)pyrene	27208-37-3	Methylene Chloride	S-4875
4H-Cyclopenta[def]phenanthrene	203-64-5	Methanol	S-1035
Cyclopentane	287-92-3	Methanol	S-1032
Cyclopentanone	120-92-3	Methanol	S-1042

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Cyclopentene	142-29-0	Methanol	S-1040
Cyclopropyl methyl ketone	765-43-5	Acetonitrile	S-6400
gamma-Cyhalothrin	76703-62-3	Acetonitrile	S-6376
Cymoxanil	57966-95-7	Methanol	S-3926
alpha-Cypermethrin	67375-30-8	Methanol	S-5908
Cypermethrin	52315-07-8	Acetone	S-1041
Cypermethrin	52315-07-8	Acetonitrile	S-1041-ACN
Cypermethrin	52315-07-8	Hexane	S-1041-H
zeta-Cypermethrin	52315-07-8	Ethanol	S-6401
D-trans-Cyphenothrin (mix of isomers)	39515-40-7	Methanol	S-4463
Cyprazine	22936-86-3	Methanol	S-4244
Cyproconazole (mix of isomers)	94361-06-5	Methanol	S-4863
Cyprodinil	121552-61-2	Methanol	S-4622
Cyromazine	66215-27-8	Methanol	S-4255
2,4-D butoxyethyl ester	1923-73-3	Methanol	S-1046
2,4-D Butyl ester	94-80-4	Methanol	S-4864
2,4-D ethyl ester	533-23-3	Methanol	S-4865
2,4-D Isobutyl ester	1713-15-1	Methanol	S-4869
2,4-D Isopropyl amine salt	5742-17-6	Methyl-tert-Butyl Ether	S-1047
2,4-D Isopropyl ester	94-11-1	Methanol	S-4867
2,4-D methyl ester	1928-38-7	Methanol	S-1050
Dacthal monoacid	887-54-7	Acetonitrile	S-4385
Dalapon	75-99-0	Methanol	S-1055
Dalapon methyl ester	17640-02-7	Methanol	S-1055A
Danofloxacin	112398-08-0	Methanol	S-4575
Dazomet	533-74-4	Methanol	S-4680
2,4-DB	94-82-6	Methyl-tert-Butyl Ether	S-1060
2,4-DB methyl ester	18625-12-2	Methanol	S-1061
o,p'-DDD	53-19-0	Methanol	S-1070
p,p'-DDD	72-54-8	Methanol	S-1075
p,p'-DDD	72-54-8	Acetone	S-1075-AC
4,4'-DDE-D4	93952-19-3	Methanol	S-5615
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	S-1086
4,4'-DDT-D8	93952-18-2	Methylene Chloride	S-1096
o,p'-DDT	789-02-6	Methanol	S-1090
p,p'-DDT	50-29-3	Methanol	S-1095
p,p'-DDT	50-29-3	Acetonitrile	S-1095-ACN
Decabromodiphenyl ether	1163-19-5	Toluene	S-5656
Decachlorobiphenyl	2051-24-3	Hexane	S-1100
Decachlorobiphenyl	2051-24-3	Toluene	S-1100-TOL
Decafluorobenzophenone	853-39-4	Methanol	S-4185

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Decafluorobiphenyl	434-90-2	Methanol	S-1103
cis-Decahydronaphthalene	493-01-6	Methanol	S-1105
trans-decahydronaphthalene	493-02-7	Methanol	S-1106
Decamethylcyclopentasiloxane	541-02-6	Methanol	S-1110
Decamethyltetrasiloxane	141-62-8	Methanol	S-5943
n-Decane	124-18-5	Methylene Chloride	S-1112
n-Decane	124-18-5	Methanol	S-1112-MEOH
n-Decane	124-18-5	Methylene Chloride	S-1115
Decanoic acid	334-48-5	Methylene Chloride	S-1122
Decanophenone	6048-82-4	Methanol	S-5724
trans-2-decen-1-ol	18409-18-2	Methanol	S-4148
trans-2-decenal	3913-81-1	Methanol	S-4163
Decene-1	872-05-9	Methylene Chloride	S-1120
Decyl alcohol	112-30-1	Methanol	S-1125
Decyl aldehyde	112-31-2	Methanol	S-1126
DEF	78-48-8	Methanol	S-1130
DEF	78-48-8	Acetone	S-1130-AC
Dehydroabiatic acid	1740-19-3	Methyl-tert-Butyl Ether	S-4356
Dehydronifedipine	67035-22-7	Methanol	S-5066
Deltamethrin	52918-63-5	Methanol	S-3977
Deltamethrin	52918-63-5	Acetone	S-3977-AC
Deltamethrin	52918-63-5	Hexane	S-3977-H
Demeton-S sulfone	2496-91-5	Acetone	S-5774-AC
Demeton-S sulfone	2496-91-5	Acetonitrile	S-5774-ACN
Demeton O	8065-48-3	Methanol	S-4020
Demeton O	8065-48-3	Acetonitrile	S-4020-ACN
Demeton O+S	8065-48-3	Methanol	S-1140
Demeton S	126-75-0	Acetone	S-1141
Demeton S	126-75-0	Acetonitrile	S-1141-ACN
Desmetryn	1014-69-3	Methanol	S-1146
Devrinol	15299-99-7	Methanol	S-1150
Dexamethasone	50-02-2	Methanol	S-4608
Dextrin	9004-53-9	HPLC Water	S-4860
Dextrin (from Corn, Type 1)	9004-53-9	Deionized Water	S-5130
Dextrose anhydrous	50-99-7	Methanol	S-5005
2,4-Di-tert-amylphenol	120-95-6	Methanol	S-1780
2,6-Di-tert-butyl-4-methylphenol	128-37-0	Methanol	S-1785
2,6-Di-tert-butylphenol	128-39-2	Methanol	S-4338
3,5-Di-tert-butyl-4-hydroxyhydrocinnamate [Irganox 1076]	2082-79-3	Methanol	S-3900
Di-allate (mix of isomers)	2303-16-4	Acetone	S-1155
Di-iso-octyl phthalate	27554-26-3	Methanol	S-5738
Di-n-butyl phthalate	84-74-2	Methanol	S-1770
Di-n-butylamine	111-92-2	Acetonitrile	S-5696

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Di-n-decyl phthalate	84-77-5	Methanol	S-4933
Di-n-heptyltin dichloride	74340-12-8	Ethanol	S-5518-ETOH
Di-n-hexyl phthalate	84-75-3	Methanol	S-4155
Di-n-hexyl phthalate	84-75-3	Hexane	S-4155-H
Di-n-hexyl phthalate	84-75-3	Methylene Chloride	S-4155-MC
Di-n-octyl phthalate	117-84-0	Methanol	S-1775
di-sodium hydrogen phosphate dihydrate	10028-24-7	Methanol	S-4547
Di(ethylene glycol) diethyl ether	112-36-7	Methanol	S-3907
Di(ethylene glycol)ethyl ether	111-90-0	Methanol	S-3849
Di(ethylene glycol)methyl ether	111-77-3	Methanol	S-5121
Diacrylic acid	24615-84-7	Methanol	S-5050
Dialifos	10311-84-9	Methanol	S-4288
Dialifos	10311-84-9	Acetone	S-4288-AC
Diallyl phthalate	131-17-9	Methanol	S-4931
2,4-Diamino-6-phenyl-1,3,5-triazine (Benzoguanamine)	91-76-9	Methanol	S-4856
4,6-Diamino-2-hydroxy-1,3,5-triazine (Ammeline)	645-92-1	0.01N NaOH	S-4808
1,4-Diaminobutane	110-60-1	Methanol	S-1158
4,4'-Diaminodiphenylmethane	101-77-9	Methanol	S-1156
1,5-Diaminonaphthalene	2243-62-1	Methanol	S-5682
1,5-Diaminopentane	462-94-2	Methanol	S-1159
2,4-Diaminotoluene	95-80-7	Methanol	S-1160
2,6-Diaminotoluene	823-40-5	Methanol	S-1162
3,4-Diaminotoluene	496-72-0	Methanol	S-1165
Diamyl phthalate	131-18-0	Methanol	S-4157
Diazald	80-11-5	Methanol	S-1170
Diazinon	333-41-5	Acetone	S-1175
Diazinon-D10	100155-47-3	Methanol	S-4204
Diazinon-O-analog	962-58-3	Acetone	S-1176
Dibenz(a,c)anthracene	215-58-7	Methylene Chloride	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,i)acridine	224-42-0	Methylene Chloride	S-1207
1,2,5,6-Dibenzanthracene	53-70-3	Methanol	S-1177
Dibenzo(a,e)pyrene	192-65-4	Methylene Chloride:Benzen (50:50)	S-1200
Dibenzo(a,h)anthracene-d14	13250-98-1	Methylene Chloride	S-4762
Dibenzo(a,h)pyrene	189-64-0	Methylene Chloride:Benzen (50:50)	S-1190
13H-Dibenzo(a,i)carbazole	239-64-5	Methanol	S-1192
Dibenzo(a,i)pyrene	189-55-9	Methylene Chloride:Benzen (50:50)	S-1195
Dibenzo(a,l)pyrene	191-30-0	Methylene Chloride	S-1196
7H-Dibenzo(c,g)carbazole	194-59-2	Methylene Chloride	S-1197

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1,2:7,8-Dibenzocarbazole	239-64-5	Methanol	S-1198
Dibenzofuran	132-64-9	Methanol	S-1180
Dibenzothiophene	132-65-0	Methanol	S-1185
Dibenzyl phthalate	523-31-9	Methylene Chloride	S-1186
Dibrom (naled)	300-76-5	Methylene Chloride	S-2650
Dibrom (naled)	300-76-5	Ethyl Acetate	S-2650-EA
1,2-Dibromo-3-chloropropane	96-12-8	Methanol	S-1255
1,3-Dibromo-1-propene (cis & trans)	627-15-6	Methanol	S-4035
1,3-Dibromo-2-propanol	96-21-9	Methanol	S-1252
Dibromoacetic acid	631-64-1	Methyl-tert-Butyl Ether	S-1220
Dibromoacetonitrile	3252-43-5	Methanol	S-1225
1,4-Dibromobenzene	106-37-6	Methanol	S-1227
1,4-Dibromobenzene-d4	4165-56-4	Methanol	S-1226
2,5-Dibromobenzoic acid	610-71-9	Methanol	S-1331
4,4'-Dibromobenzophenone	3988-03-2	Acetonitrile	S-6378
4,4'-Dibromobiphenyl	92-86-4	Acetone	S-1228
4,4'-Dibromobiphenyl	92-86-4	Methanol	S-1228-MEOH
Dibromochloromethane	124-48-1	Methanol	S-1230
1,2-Dibromoethane	106-93-4	Methanol	S-1235
1,2-Dibromoethene (mixture of cis & trans)	540-49-8	Methanol	S-4744
Dibromofluoromethane	1868-53-7	Methanol	S-1240
Dibromomethane	74-95-3	Methanol	S-1245
4,4'-Dibromooctafluorobiphenyl	10386-84-2	Methyl-tert-Butyl Ether	S-1250
2,4-Dibromophenol	615-58-7	Methanol	S-5148
2,6-Dibromophenol	608-33-3	Methanol	S-5147
1,2-Dibromopropane	78-75-1	Methanol	S-4146
1,3-Dibromopropane	109-64-8	Methanol	S-1249
2,3-Dibromopropionamide	15102-42-8	Methanol	S-4804
2,3-Dibromopropionic acid	600-05-5	Methyl-tert-Butyl Ether	S-3895
Tris(2,3-dibromopropyl)phosphate	126-72-7	Methylene Chloride	S-3773
2,5-Dibromotoluene	615-59-8	Methanol	S-1251
Dibutyl butyl-phosphonate	78-46-6	Methanol	S-4198
Dibutyl chlorendate	1770-80-5	Methanol	S-1265
Dibutyl sulfide	544-40-1	Methanol	S-1266
Dibutyl phosphate	N/A	Methanol	S-4558
Dibutyltin dichloride	683-18-1	Methanol	S-4637
Dicamba	1918-00-9	Methanol	S-1270
Dicamba methyl ester	6597-78-0	Methanol	S-1270A
Dicapry phthalates	131-15-7	Methanol	S-4932
Dichlobenil	1194-65-6	Methanol	S-1271
Dichlofluanid	1085-98-9	Methylene Chloride	S-1277
Dichlone	117-80-6	Methanol	S-1275
Dichlorfenthion	97-17-6	Methanol	S-1280

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Dichlormid	37764-25-3	Methanol	S-3994
1,1-Dichloro-1-fluoroethane (Freon 141)	1717-00-6	Methanol	S-1480
1,1-Dichloro-2,2-bis (4-chlorophenyl-d4)ethane	93952-20-6	Isooctane	S-5620
1,1-Dichloro-2,2-diethoxyethane	619-33-0	Methanol	S-4873
1,2-Dichloro-1,1-difluoroethane	1649-08-7	Methanol	S-1477
1,3-Dichloro-2-propanol	96-23-1	Methanol	S-1492
1,4-Dichloro-2-butene (mix of cis & trans)	764-41-0	Methanol	S-1485
2,2-Dichloro-1,1,1-trifluoroethane	306-83-2	Methanol	S-1476
2,3-Dichloro-1-propanol	616-23-9	Methanol	S-1482
2,3-Dichloro-1-propene	78-88-6	Methanol	S-1458
3,4-Dichloro-1-butene	760-23-6	Methanol	S-1478
4,6-Dichloro-2-(methylthio) pyrimidine	6299-25-8	Methanol	S-5590
cis-1,4-Dichloro-2-butene	1476-11-5	Methanol	S-3887
trans-1,4-Dichloro-2-butene	110-57-6	Methanol	S-1490
Dichloroacetic acid	79-43-6	Methyl-tert-Butyl Ether	S-1285
1,1-Dichloroacetone	513-88-2	Methanol	S-1286
Dichloroacetonitrile	3018-12-0	Methanol	S-1287
2,3-Dichloroaniline	608-27-5	Methanol	S-1284
2,5-Dichloroaniline	95-82-9	Methylene Chloride	S-1289
3,4-Dichloroaniline	95-76-1	Methanol	S-3851
3,5-Dichloroaniline	626-43-7	Methanol	S-4178
9,10-Dichloroanthracene	605-48-1	Methanol:Methylene Chloride (1:1)	S-1288
2,6-Dichlorobenzamide	2008-58-4	Methanol	S-5593
1,2-Dichlorobenzene	95-50-1	Methanol	S-1290
1,2-Dichlorobenzene-d4	2199-69-1	Methanol	S-1305
1,3-Dichlorobenzene	541-73-1	Methanol	S-1295
1,4-Dichlorobenzene	106-46-7	Methanol	S-1300
1,4-Dichlorobenzene-d4	3855-82-1	Methanol	S-1310
3,3'-Dichlorobenzidine	91-94-1	Methanol	S-1315
3,5-Dichlorobenzoic acid	51-36-5	Methanol	S-1317
2,3-Dichlorobenzoic acid	50-45-3	Methanol	S-1320
2,4-Dichlorobenzoic acid	50-84-0	Methanol	S-1325
2,5-Dichlorobenzoic acid	50-79-3	Methanol	S-1330
2,6-Dichlorobenzoic acid	50-30-6	Methanol	S-1335
3,4-Dichlorobenzoic acid	51-44-5	Acetone	S-1340
3,5-Dichlorobenzoic acid	51-36-5	Methanol	S-1345
3,5-Dichlorobenzoic acid methyl ester	2905-67-1	Methanol	S-1346
4,4'-Dichlorobenzophenone	90-98-2	Acetone	S-1318
3,4-Dichlorobenzotrifluoride	328-84-7	Methanol	S-1347
2,2'-Dichlorobiphenyl	13029-08-8	Methanol	S-1353

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,3'-Dichlorobiphenyl	25569-80-6	Methanol	S-842
2,3-Dichlorobiphenyl	16605-91-7	Methanol	S-1349
2,4'-Dichlorobiphenyl	34883-43-7	Methanol	S-843
3,5-Dichlorobiphenyl	34883-41-5	Methanol	S-1350
4,4'-Dichlorobiphenyl	2050-68-2	Methanol	S-1355
1,2-Dichlorobutane	616-21-7	Methanol	S-1359
1,3-Dichlorobutane	1190-22-3	Methanol	S-1360
1,4-Dichlorobutane	110-56-5	Methanol	S-1365
2,3-Dichlorobutane	7581-97-7	Methanol	S-1351
3,4-Dichlorocatechol	3978-67-4	Methanol	S-1367
Dichlorodifluoromethane	75-71-8	Methanol	S-1370
1,1-Dichloroethane	75-34-3	Methanol	S-1375
1,2-Dichloroethane	107-06-2	Methanol	S-1380
1,2-Dichloroethane-d4	17060-07-0	Methanol	S-1385
1,1-Dichloroethene	75-35-4	Methanol	S-1390
cis-1,2-Dichloroethene	156-59-2	Methanol	S-1394
trans-1,2-Dichloroethene	156-60-5	Methanol	S-1400
Dichlorofluoromethane	75-43-4	Methanol	S-1405
Tris(dichloroisopropyl)phosphate	13674-87-8	Methanol	S-4381
Dichlorophen	97-23-4	Acetone	S-1407
2,3-Dichlorophenol	576-24-9	Methanol	S-1406
2,4-Dichlorophenol	120-83-2	Methanol	S-1410
2,5-Dichlorophenol	583-78-8	Methanol	S-1412
2,6-Dichlorophenol	87-65-0	Methanol	S-1415
3,4-Dichlorophenol	95-77-2	Methanol	S-1416
3,5-Dichlorophenol	591-35-5	Methanol	S-1417
3,4-Dichlorophenoxyacetic acid	588-22-7	Methanol	S-4438
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	Methanol	S-1045
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	Acetone	S-1045-AC
2,4-Dichlorophenyl acetic acid methyl ester (DCAA Methyl Ester)	55954-23-9	Methanol	S-1421
2,4-Dichlorophenylacetic acid	19719-28-9	Acetone	S-1420
1,1-Dichloropropane	78-99-9	Methanol	S-1429
1,2-Dichloropropane	78-87-5	Methanol	S-1430
1,3-Dichloropropane	142-28-9	Methanol	S-1435
2,2-Dichloropropane	594-20-7	Methanol	S-1440
1,1-Dichloropropanone	513-88-2	Methanol	S-1445
1,1-Dichloropropene	563-58-6	Methanol	S-1450
1,3-Dichloropropene	542-75-6	Methanol	S-1457A
cis-1,3-Dichloropropene	10061-01-5	Methanol	S-1460
trans-1,3-Dichloropropene	10061-02-6	Methanol	S-1465
1,3-Dichloropropene (Mixture of isomers)	542-75-6	Methanol	S-1455

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
3,4-Dichloropropionanilide	709-98-8	Methanol	S-1468
2,3-Dichloropropionic acid	565-64-0	Methanol	S-4305
2,6-Dichloropyridine	2402-78-0	Methanol	S-1469
3,6-Dichloropyridazine	141-30-0	Acetone	S-5594
Dichlorostearic acid	5829-48-1	Acetonitrile	S-4564
1,2-Dichlorotetrafluoroethane	76-14-2	Methanol	S-1470
2,4-Dichlorotoluene	95-73-8	Methanol	S-1473
3,4-Dichlorotoluene	95-75-0	Methanol	S-1474
a,a-Dichlorotoluene	98-87-3	Methanol	S-1472
1,2-Dichlorotrifluoroethane	354-23-4	Methanol	S-1479
2,3-Dichlorophenoxyacetic acid	2976-74-1	Acetone	S-4647
Dichlorprop	120-36-5	Methyl-tert-Butyl Ether	S-1425
Dichlorprop methyl ester	57153-17-0	Methanol	S-1426
Dichlorvos	62-73-7	Methanol	S-1475
Diclofop methyl	51338-27-3	Methanol	S-1495
Dicloran	99-30-9	Methanol	S-1497
Dicloran	99-30-9	Acetone	S-1497-AC
Dicrotophos	141-66-2	Methanol	S-1500
Dicyclohexyl phthalate	84-61-7	Methanol	S-4151
Dicyclohexylamine	101-83-7	Methanol	S-4616
Dicyclopentadiene	77-73-6	Methanol	S-1505
Dieldrin	60-57-1	Methanol	S-1510
Dienochlor	2227-17-0	Methanol	S-5242
Diesel Fuel	68476-34-6	Methanol	S-1511
Diesel Fuel 50% Weathered	N/A	Acetone	S-4841
Diethanolamine	111-42-2	Methanol	S-1528
Diethofencarb	87130-20-9	Methanol	S-4830
1,2-Diethoxyethane	629-14-1	Methanol	S-1513
N,N-Diethyl-m-toluamide	134-62-3	Methanol	S-1127
Diethyl Malonate	105-53-3	Methanol	S-3938
Diethyl phthalate	84-66-2	Methanol	S-1515
Diethyl sulfate	64-67-5	Methanol	S-1520
Diethylamine	109-89-7	Methanol	S-1522
2,6-Diethylaniline	579-66-8	Methanol	S-1605
N,N-Diethylaniline	91-66-7	Methanol	S-4038
1,2-Diethylbenzene	135-01-3	Methanol	S-1524
1,3-Diethylbenzene	141-93-5	Methanol	S-1512
1,3-Diethylbenzene	141-93-5	Methanol	S-1523
1,4-Diethylbenzene	105-05-5	Methanol	S-1525
Diethylene glycol	111-46-6	Methanol	S-3848
Diethyleneglycol dibenzoate	120-55-8	Methanol	S-4207
Diethylenetriamine	111-40-0	Methanol	S-4366
N,N-Diethylethanolamine	100-37-8	Methanol	S-1529
Diethylstilbestrol	56-53-1	Methanol	S-1530

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Difenoconazole	119446-68-3	Methanol	S-3995
Difenzoquat methyl sulfate	43222-48-6	Methanol	S-1535
Diflubenzuron	35367-38-5	Methanol	S-1537
Diflufenican	83164-33-4	Methanol	S-1538
1,2-Difluorobenzene	367-11-3	Methanol	S-1539
1,4-Difluorobenzene	540-36-3	Methanol	S-1540
2,2'-Difluorobiphenyl	388-82-9	Methanol	S-1542
4,4'-Difluorobiphenyl	398-23-2	Methanol	S-1541
1,2-Difluorotetrachloroethane	76-12-0	Methanol	S-1544
2,4-Difluorotoluene	452-76-6	Methanol	S-1543
Digoxin	20830-75-5	Acetonitrile	S-5695
3,4-Dihydro-2H-pyran	110-87-2	Methanol	S-1552
9,10-Dihydroanthracene	613-31-0	Methylene Chloride	S-5765
2,3-Dihydrofuran	1191-99-7	Methanol	S-1545
2,5-Dihydrofuran	1708-29-8	Methanol	S-1550
3,5-Diiodo-4-hydroxybenzonitrile	1689-83-4	Methanol	S-1554
Diiodomethane	75-11-6	Methanol	S-1555
Diisobutyl ketone	108-83-8	Methanol	S-4945
Diisobutyl phthalate	84-89-5	Methanol	S-4150
1,5-Diisocyanatonaphthalene	3173-72-6	Methylene Chloride	S-6635
1,6-Diisocyanatohexane	822-06-0	Methylene Chloride	S-1561
Diisodecyl phthalate	26761-40-0	Methanol	S-4464
Diisoheptyl phthalate	71888-89-6	Methylene Chloride	S-1553
Diisoheptyl phthalate	71888-89-6	Hexane	S-1553-H
Diisononyl phthalate (Branched)	68515-48-0	Acetone	S-1559
Diisononyl phthalate (Unbranched)	28553-12-0	Acetone	S-5701
Diisopentylphthalate (DIPP)	605-50-5	Hexane	S-6148-H
1,3-Diisopropenylbenzene	3748-13-8	Methanol	S-1557
Diisopropyl ether	108-20-3	Methanol	S-4852
1,3-Diisopropylbenzene	99-62-7	Methanol	S-6370
1,4-Diisopropylbenzene	100-18-5	Methanol	S-1558
2,6-Diisopropyl-naphthalene	24157-81-1	Methanol	S-1556
Diltiazem	33286-22-5	Methanol	S-4536
Dimefox	115-26-4	Methanol	S-4681
Dimefox	115-26-4	Acetonitrile	S-4681-ACN
Dimefuron	34205-21-5	Methanol	S-4617
3,4-Dimercaptotoluene	496-74-2	Methanol	S-4701
Dimethachlor	50563-36-5	Methanol	S-4282
Dimethachlor ESA	N/A	Acetonitrile	S-4629
Dimethenamid	87674-68-8	Acetone	S-3944
Dimethipin	55290-64-7	HPLC Water	S-4831
Dimethoate	60-51-5	Methanol	S-1560
Dimethomorph	110488-70-5	Acetone	S-3970

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
3,3'-Dimethoxybenzidine	119-90-4	Methanol	S-1565	2,2-Dimethylbutane	75-83-2	Methanol	S-1614
1,1-Dimethoxyethane	534-15-6	Methanol	S-1570	2,3-Dimethylbutane	79-29-8	Methanol	S-1615
1,2-Dimethoxyethane	110-71-4	Methanol	S-1572	1,1-Dimethylcyclohexane	590-66-9	Methanol	S-1609
Dimethoxyethyl phthalate	117-82-8	Methanol	S-1575	cis-1,4-Dimethylcyclohexane	624-29-3	Methanol	S-1613
Dimethoxymethane	109-87-5	Methanol	S-1580	trans-1,3-Dimethylcyclohexane	2207-03-6	Methanol	S-1612
3,5-Dimethoxytoluene	4179-19-5	Methanol	S-5677	1,1-Dimethylcyclopentane	1638-26-2	Methanol	S-1616
cis-1,3-Dimethylcyclohexane	638-04-0	Methanol	S-1611	1,3-Dimethylcyclopentane	2453-00-1	Methanol	S-1617
1,2-Dimethyl-3-ethylbenzene	933-98-2	Methanol	S-1622	cis-1,2-Dimethylcyclopentane	1192-18-3	Methanol	S-3886
1,2-Dimethyl-4-ethylbenzene	934-80-5	Methanol	S-1621	trans-1,3-Dimethylcyclopentane	1759-58-6	Methanol	S-3891
1,3-Dimethyl-4-ethylbenzene	874-41-9	Methanol	S-1619	4,6-Dimethyldibenzothiophene	1207-12-1	Acetonitrile	S-6055
1,3-Dimethyl-5-ethylbenzene	934-74-7	Methanol	S-1618	N,N-Dimethylethanolamine	108-01-0	Methanol	S-2807
1,4-Dimethyl-2-ethylbenzene	1758-88-9	Methanol	S-1623	Dimethylformamide	68-12-2	Methanol	S-1620
2,3-Dimethyl-2,3-dinitrobutane	3964-18-9	Methanol	S-4235	N,N-Dimethylformamide	68-12-2	Methanol	S-3897
3,3-Dimethyl-1-butanol	624-95-3	Methanol	S-5951	2,5-Dimethylfuran	625-86-5	Methanol	S-3916
4,4-Dimethyl-2-pentanone	590-50-1	Methanol	S-1657	2,3-Dimethylheptane	3074-71-3	Methanol	S-4457
4,4-Dimethyl-2-pentene	762-63-0	Methanol	S-3974	2,4-Dimethylhexane	589-43-5	Methanol	S-1624
Dimethyl-p-nitrophenylphosphate	950-35-6	Methanol	S-1669	2,5-Dimethylhexane	592-13-2	Methanol	S-1625
Dimethyl-p-nitrophenylphosphate	950-35-6	Methanol	S-2444	1,1-Dimethylhydrazine	57-14-7	Methanol	S-1627
Dimethyl endothal	88941-22-4	Methanol	S-4304	1,1-Dimethylhydrazine	57-14-7	Methanol	S-1629
Dimethyl Fumarate	624-49-7	Methanol	S-4870	1,2-Dimethylnaphthalene	573-98-8	Methanol	S-1630
2,4-Dimethyl hexane	589-43-5	Methanol	S-1585	1,3-Dimethylnaphthalene	575-41-7	Methanol	S-1631
Dimethyl isophthalate	1459-93-4	Methanol	S-1594	1,3-Dimethylnaphthalene	575-41-7	Methylene Chloride	S-1631-MC
Dimethyl methylphosphonate	756-79-6	Methanol	S-4553	1,5-Dimethylnaphthalene	571-61-9	Methanol	S-1634
Dimethyl phthalate	131-11-3	Methanol	S-1590	1,6-Dimethylnaphthalene	575-43-9	Methanol	S-1635
Dimethyl sulfate	77-81-1	Methanol	S-1592	1,8-Dimethylnaphthalene	569-41-5	Methanol	S-1636
Dimethyl sulfate	77-81-1	Methanol	S-4884	2,3-Dimethylnaphthalene	581-40-8	Methanol	S-1639
Dimethyl sulfoxide-d ₆	2206-27-1	Methanol	S-2566	2,6-Dimethylnaphthalene	581-42-0	Methanol	S-1640
Dimethyl terephthalate	120-61-6	Methanol	S-1595	2,7-Dimethylnaphthalene	582-16-1	Methanol	S-1641
Dimethyl trisulfide	3658-80-8	Methanol	S-4371	Dimethylnaphthalene (mix of isomers)	28804-88-8	Methanol	S-1637
N,N-Dimethylacetamide	127-19-5	Methanol	S-1597	2,2-Dimethylpentane	590-35-2	Methanol	S-1645
Dimethylamine	124-40-3	Methanol	S-1599	2,3-Dimethylpentane	565-59-3	Methanol	S-1650
2-(Dimethylamino)ethyl Methacrylate	2867-47-2	Methanol	S-5120	2,4-Dimethylpentane	108-08-7	Methanol	S-1655
3-(Dimethylamino)propylamine	109-55-7	Methanol	S-1583	3,3-Dimethylpentane	562-49-2	Methanol	S-1656
p-Dimethylaminoazobenzene	60-11-7	Methanol	S-1600	3,6-Dimethylphenanthrene	1576-67-6	Methanol	S-4002
Bis(N,N-dimethylaminoethyl)ether	3033-62-3	Methanol	S-4420	2,3-Dimethylphenol	526-75-0	Methanol	S-1659
4-Dimethylaminopyridine	1122-58-3	Methanol	S-4013	2,4-Dimethylphenol	105-67-9	Methanol	S-1660
2,4-Dimethylaniline	95-68-1	Methanol	S-2806	2,5-Dimethylphenol	95-87-4	Acetone	S-1661
2,6-Dimethylaniline	87-62-7	Methanol	S-4510	2,6-Dimethylphenol	576-26-1	Methanol	S-1662
N,N-Dimethylaniline	121-69-7	Methanol	S-2805	3,4-Dimethylphenol	95-65-8	Methanol	S-1664
9,10-Dimethylanthracene	781-43-1	Methylene Chloride	S-3924	3,5-Dimethylphenol	108-68-9	Methanol	S-1665
7,12-Dimethylbenz(a)anthracene	57-97-6	Methylene Chloride: Benzene (50:50)	S-1610	1,1-Bis(3,4-dimethylphenyl)ethane	1742-14-9	Methanol	S-852
2,5-Dimethylbenzaldehyde	5779-94-2	Methanol	S-1607	Dimethylpolysiloxane	9016-00-6	Methylene Chloride	S-1667

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Dimethylpolysiloxane	9016-00-6	Methanol	S-3853
2,5-Dimethyltetrahydrofuran (mixture of cis & trans)	1003-38-9	Methanol	S-1668
N,N-Dimethylthioformamide	758-16-7	Methanol	S-3971
2,5-Dimethylthiophene	638-02-8	Methanol	S-1666
1,7-Dimethylxanthine	611-59-6	Methanol	S-5067
Dinitramine	29091-05-2	Acetone	S-4052
4,6-Dinitro-2-methylphenol	534-52-1	Methylene Chloride	S-1700
2,6-Dinitroaniline	606-22-4	Methanol	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	S-1680
2,5-Dinitrophenol	329-71-5	Methanol	S-3980
2,6-Dinitrophenol	573-56-8	Methanol	S-1681
1,3-Dinitroquinone	99-65-0	Methanol	S-1685
2,3-Dinitrotoluene	602-01-7	Methanol	S-1689
2,4-Dinitrotoluene	121-14-2	Methanol	S-1690
2,6-Dinitrotoluene	606-20-2	Methanol	S-1695
3,4-Dinitrotoluene	610-39-9	Acetonitrile	S-1696
Dinobuton	973-21-7	Ethyl Acetate	S-6422-EA
Dinocap	39300-45-3	Methanol	S-1705
Dinonyl phthalate	84-76-4	Methanol	S-4153
Dinoseb	88-85-7	Methanol	S-1710
Dinoseb methyl ester	6099-79-2	Methanol	S-1710A
Dinotefuran	165252-70-0	Methanol	S-5780
Dinotefuran	165252-70-0	Acetonitrile	S-5780-ACN
Diocetyl isophthalate	4654-18-6	Methanol	S-4937
Diocetyl sebacate	122-62-3	Methanol	S-1712
Diocetyl dichloride	3542-36-7	Methanol	S-4641
Diolein	25637-84-7	Methanol	S-4387
Dioxacarb	6988-21-2	Methanol	S-4054
1,4-Dioxane	123-91-1	Methanol	S-1715
1,4-Dioxane-d8	17647-74-4	Methanol	S-1716
Dioxathion	78-34-2	Methanol	S-1720
Dioxathion	78-34-2	Ethyl Acetate	S-1720-EA
Dioxepane	505-65-7	Methanol	S-1721
1,3-Dioxolane	646-06-0	Methanol	S-1725
Dioxydemeton-S-methyl	17040-19-6	Methanol	S-3969
Diphenamid	957-51-7	Acetone	S-1730
Diphenhydramine	147-24-0	Methanol	S-4538
Diphenyl isophthalate	744-45-6	Methanol	S-4449
Diphenyl mercury	587-85-9	Methanol	S-1735
Diphenyl phthalate	84-62-8	Methanol	S-4448

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Diphenylamine	122-39-4	Methanol	S-1740
Diphenylamine	122-39-4	Acetonitrile	S-1740-ACN
9,10-Diphenylanthracene	1499-10-1	Methanol	S-4033
5,5-Diphenylhydantoin	57-41-0	Methanol	S-1745
1,2-Diphenylhydrazine	122-66-7	Methanol	S-1750
1,1-Diphenylhydrazine HCl	530-47-2	Methanol	S-1747
Diphenyltin dichloride	1135-99-5	Methanol	S-4979
Dipropetryn	4147-51-7	Methanol	S-1753
Dipropyl phthalate	131-16-8	Methanol	S-4491
Dipropylene glycol	25265-71-8	Methanol	S-1751
Dipropylene glycol methyl ether	34590-94-8	Methanol	S-4174
Diquat dibromide monohydrate	6385-62-2	Methanol	S-1752
Disperse Blue 1	2475-45-8	HPLC Water	S-4845
Disperse Blue 124	61951-51-7	HPLC Water	S-4848
Disperse Blue 35	12222-75-2	HPLC Water	S-4846
Disperse Orange 3	730-40-5	HPLC Water	S-4849
Disperse Orange 37	12223-33-5	HPLC Water	S-4850
Disperse Red 1	2872-52-8	HPLC Water	S-4861
Disperse Yellow 3	2832-40-8	HPLC Water	S-4862
Disulfoton	298-04-4	Methanol	S-1755
Disulfoton sulfone	2497-06-5	Acetone	S-1756-AC
Disulfoton sulfoxide	2497-07-6	Acetone	S-1757
Disulfoton sulfoxide	2497-07-6	Acetone	S-1757-AC
Disulfoton sulfoxide	2497-07-6	Acetonitrile	S-1757-ACN
Ditalimfos	5131-24-8	Methanol	S-4827
1,4-Dithiane	505-29-3	Methanol	S-5102
Dithiopyr	97886-45-8	Methanol	S-4939
Ditridecyl phthalate	119-06-2	Methanol	S-4929
Diundecyl phthalate	3648-20-2	Methanol	S-4930
Diuron	330-54-1	Methanol	S-1760
Divinylbenzene	1321-74-0	Methanol	S-1765
DMSA	4710-17-2	Ethyl Acetate	S-6423-EA
n-Docosane	629-97-0	Methylene Chloride	S-1790
Dodecamethylcyclohexasiloxane	540-97-6	Methanol	S-5679
Dodecamethylpentasiloxane	141-63-9	Methanol	S-5944
n-Dodecane	112-40-3	Methylene Chloride	S-1795
n-Dodecane	112-40-3	Methanol	S-1795-MEOH
1-Dodecanol	112-53-8	Methanol	S-1800
Dodecene-1	112-41-4	Methylene Chloride	S-1805
Dodecyl sulfate, sodium salt	151-21-3	Methanol	S-4030
Dodine	2439-10-3	Methanol	S-1807
Dodine	2439-10-3	Acetonitrile:Methanol	S-1807-ACN
n-Dotetracontane	7098-20-6	Carbon Disulfide	S-1809

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
n-Dotetracontane	7098-20-6	Hexane	S-1809-H	Eserine Salicylate	57-64-7	Methanol	S-3103
n-Dotetracontane	7098-20-6	Heptane	S-1809-HEPT	17-alpha-estradiol	57-91-0	Methanol	S-5068
n-Dotriacontane	544-85-4	Methylene Chloride	S-1810	17-beta-estradiol	50-28-2	Methanol	S-5070
DP3	1109-28-0	HPLC Water	S-5490	Estriol	50-27-1	Methanol	S-5541
DP4	9004-53-9	HPLC Water	S-5488	Estrone	53-16-7	Methanol	S-5073
Dyfonate (Fonofos)	944-22-9	Methanol	S-1815	Etaconazole	60207-93-4	Methanol	S-4285
Dylox	52-68-6	Acetone	S-1816	Ethalfuralin	55283-68-6	Methanol	S-1875
E85 (15Gas/85ETOH)	N/A	Methanol	S-4330	Ethametsulfuron-methyl	97780-06-8	Methanol	S-4996
E90 (90Gas/10ETOH)	N/A	Methanol	S-4331	Ethane	74-84-0	Methanol	S-1880
Edifenphos	17109-49-8	Methanol	S-4284	Ethanethiol	75-08-1	Methanol	S-1881
n-Eicosane	112-95-8	Methylene Chloride	S-1820	Ethanol	64-17-5	Methanol	S-1885
1-Eicosene	3452-07-1	Methanol	S-1821	Ethanol	64-17-5	Deionized Water	S-1885-W
Emamectin	119791-41-2	Acetone	S-5507	Ethanolamine	141-43-5	Ethanol	S-1890
Emamectin	119791-41-2	Acetonitrile	S-5507-ACN	Ethene (Ethylene)	74-85-1	Methanol	S-1895
Endosulfan	115-29-7	Methanol	S-1824	Ethephon	16672-87-0	Methanol	S-4682
Endosulfan ether	3369-52-6	Methanol	S-4179	Ethephon	16672-87-0	Acetonitrile	S-4682-ACN
Endosulfan I	959-98-8	Methanol	S-1825	Ether	60-29-7	Methanol	S-1900
Endosulfan I	959-98-8	Acetone	S-1825-AC	Ethiofencarb	29973-13-5	Methanol	S-4683
Endosulfan I	959-98-8	Acetonitrile	S-1825-ACN	Ethion	563-12-2	Methanol	S-1905
Endosulfan II	33213-65-9	Methanol	S-1830	Ethion	563-12-2	Acetone	S-1905-AC
Endosulfan II	33213-65-9	Acetonitrile	S-1830-ACN	Ethion monoxon	17356-42-2	Acetonitrile	S-5776-ACN
Endosulfan sulfate	1031-07-8	Methanol	S-1835	Ethirimol	23947-60-6	Methanol	S-4976
Endosulfan sulfate	1031-07-8	Acetonitrile	S-1835-ACN	Ethofumesate	26225-79-6	Methanol	S-3959
Endosulfan sulfate	1031-07-8	Toluene	S-1835-TOL	2-Ethoxyethanol	110-80-5	Methanol	S-1910
Endothal	145-73-3	Methanol	S-1840	2-[2-(2-Ethoxyethoxy)ethoxy] ethanol	112-50-5	Methanol	S-5661
Endothal-PFPH	N/A	Methanol	S-1841	2-Ethoxyethyl acetate	111-15-9	Methanol	S-1912
Endothall dimethyl ester	3215-51-8	Methanol	S-1842	Bis(2-ethoxyethyl)phthalate	605-54-9	Methanol	S-4550
Endrin	72-20-8	Methanol	S-1845	Ethoxyquin	91-53-2	Methanol	S-1913
Endrin aldehyde	7421-93-4	Methanol	S-1850	1-Ethyl-1-methylcyclohexane	4926-90-3	Methanol	S-1974
Endrin ketone	53494-70-5	Methanol	S-1855	2-Ethyl-1-hexanol	104-76-7	Methanol	S-4147
Enrofloxacin	93106-60-6	Methanol	S-4580	2-Ethyl-2-hexenal	645-62-5	Methanol	S-4851
Epichlorhydrin	106-89-8	Methanol	S-1860	2-Ethyl-4-methyl-1,3-dioxolane (2-EMD) isomer	4359-46-0	Methanol	S-5789
EPN	2104-64-5	Methanol	S-1865	2-Ethyl-5,5-dimethyl-1,3-dioxane (2-EDD)	768-58-1	Methanol	S-5785
EPN	2104-64-5	Acetone	S-1865-AC	2-Ethyl-6-Methylaniline	24549-06-2	Acetone	S-4169
Epoxiconazole	133855-98-8	Methanol	S-4923	2-Ethyl-Fenchol	18368-91-7	Ethanol	S-4952
1,2-Epoxybutane	106-88-7	Methanol	S-1867	4-Ethyl-2-methoxyphenol	2785-89-9	Methanol	S-4183
Tris(2,3-Epoxypropyl)isocyanurate	2451-62-9	Methanol	S-5930	Ethyl-2-cyanoacrylate	7085-85-0	Methanol	S-5232
Tris(2,3-Epoxypropyl)isocyanurate	2451-62-9	Methylene Chloride	S-5930-MC	Ethyl 4-hydroxybenzoate	120-47-8	Methanol	S-1928
EPTC	759-94-4	Methanol	S-1870	Ethyl acetate	141-78-6	Methanol	S-1920
Equilin	474-86-2	Methanol	S-5542	Ethyl acetate-1,2,-13C2	84508-45-2	Methanol	S-1921
Erucylamide	112-84-5	Methanol	S-3960	Ethyl acrylate	140-88-5	Methanol	S-4541
Erythritol	149-32-6	Methanol	S-4191	Ethyl alcohol-d5	1859-08-1	Methanol	S-1886
Erythromycin	114-07-8	Methanol	S-1871				
Eserine	57-47-6	Methanol	S-3102				

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Ethyl butanoate	105-54-4	Methanol	S-4329	1-Ethyl-naphthalene	1127-76-0	Methanol	S-4001
Ethyl disulfide	110-81-6	Methanol	S-3196	2-Ethyl-naphthalene	939-27-5	Methanol	S-1980
Ethyl formate	109-94-4	Methanol	S-4279	3-Ethylpentane	617-78-7	Methanol	S-1982
Ethyl hexanoate	123-66-0	Methanol	S-5480	2-Ethylphenol	90-00-6	Methanol	S-1983
Ethyl lactate	687-47-8	Methanol	S-1973	3-Ethylphenol	620-17-7	Methanol	S-4300
Ethyl methacrylate	97-63-2	Methanol	S-1975	4-Ethylphenol	123-07-9	Methanol	S-1985
Ethyl methanesulfonate	62-50-0	Methanol	S-1930	4-Ethylphenol-2,3,5,6-d ₄ , OD	340256-40-8	Methanol	S-6156
Ethyl methyl sulfide	624-89-5	Methanol	S-1976	2-Ethylthiophene	872-55-9	Methanol	S-1986
Ethyl methylphosphonic acid	1832-53-7	Methanol	S-4497	Ethylthiourea	625-53-6	Methanol	S-5084
Ethyl octanoate	106-32-1	Methanol	S-5479	2-Ethyltoluene	611-14-3	Methanol	S-1984
Ethyl parathion	56-38-2	Methanol	S-1935	3-Ethyltoluene	620-14-4	Methanol	S-1987
Ethyl propionate	105-37-3	Methanol	S-4328	4-Ethyltoluene	622-96-8	Methanol	S-1990
Ethyl salicylate	118-61-6	Methanol	S-5668	17- α -ethynylestradiol	57-63-6	Methanol	S-5069
Ethyl sulfide	352-93-2	Methanol	S-1521	Etofenprox	80844-07-1	Acetonitrile	S-6104
Ethyl thiocyanate	542-90-5	Methanol	S-4350	Etiozole	153233-91-1	Acetonitrile	S-5670
Ethyl trifluoroacetate	383-63-1	Methanol	S-3957	Etrifos	38260-54-7	Methanol	S-4245
Ethyl valerate	539-82-2	Ethanol	S-6408	Etrifos	38260-54-7	Acetonitrile	S-4245-ACN
Ethylamine	75-04-7	Methanol	S-1938	Etrifos	38260-54-7	Methanol	S-4245-MEOH
N-Ethylaniline	103-69-5	Methanol	S-1937	Eucalyptol	470-82-6	Methanol	S-4352
Ethylbenzene	100-41-4	Methanol	S-1940	Ezetimibe	13222-33-1	Methanol	S-5898
Ethylbenzene-d ₁₀	25837-05-2	Methanol	S-1941	Famoxadone	131807-57-3	Acetone	S-5462
Ethylbenzene-ethyl-d ₅	NA	Methanol	S-1924	Famphur	52-85-7	Methanol	S-1995
Ethylbenzoate	93-89-0	Methanol	S-1945	Farnesene	502-61-4	Methanol	S-1989
Ethylcyclohexane	1678-91-7	Methanol	S-1950	Fenamidone	161326-34-7	Methanol	S-4966
Ethylcyclopentane	1640-89-7	Methanol	S-1951	Fenamidone	161326-34-7	Acetonitrile	S-4966-ACN
N-Ethyl-diethanolamine	139-87-7	Methanol	S-4703	Fenamiphos sulfone	31972-44-8	Acetone	S-1996
Ethylene glycol	107-21-1	Methanol	S-1952	Fenamiphos sulfoxide	31972-43-7	Acetone	S-1998
Ethylene glycol dimethacrylate	97-90-5	Methanol	S-1954	Fenarimol	60168-88-9	Methanol	S-1997
Ethylene oxide	75-21-8	Methanol	S-1960	Fenbuconazole	114369-43-6	Methanol	S-3985
Ethylene oxide	75-21-8	Isopropanol	S-1960-IPA	Fenbutatin-oxide	13356-08-6	Acetone	S-1999
Ethylenediamine	107-15-3	Methanol	S-1961	Fenchlorphos	299-84-3	Methanol	S-2000
Ethyleneimine	151-56-4	Methanol	S-1955	Fenchone	1195-79-5	Methanol	S-4569
Ethylenethiourea	96-45-7	Methanol	S-1962	L(-)-fenchone	7787-20-4	Methanol	S-5091
2-Ethylhexanoic acid	149-57-5	Methanol	S-1927	Fenhexamid	126833-17-8	Methanol	S-4962
2-Ethylhexyl acrylate	103-11-7	Methanol	S-6399	Fenhexamid	126833-17-8	Acetonitrile	S-4962-ACN
bis-(2-Ethylhexyl)adipate	103-23-1	Methanol	S-1965	Fenitrothion	122-14-5	Acetone	S-2001
Bis(2-ethylhexyl)hexahydrophthalate	84-71-9	Methanol	S-4927	Fenofibrate	49562-28-9	Methanol	S-5899
Bis(2-ethylhexyl)isophthalate	137-89-3	Methanol	S-4928	Fenoxaprop	95617-09-7	Methanol	S-4733
bis(2-Ethylhexyl)phthalate	117-81-7	Methanol	S-1970	Fenoxaprop-ethyl	66441-23-4	Methanol	S-2002
Bis-(2-ethylhexyl)terephthalate	6422-86-2	Methanol	S-5459	Fenoxycarb	72490-01-8	Methanol	S-5463
4,6-O-Ethylidene- α -D-glucose	13224-99-2	Methanol	S-4102	Fenpropathrin	64257-84-7	Methanol	S-4246
5-Ethylidene-2-norbornene	16219-75-3	Methanol	S-1972	Fenpropathrin	39515-41-8	Methanol	S-5781
Ethylidene diacetate	542-10-9	Methanol	S-4742	Fenpropathrin	39515-41-8	Acetonitrile	S-5781-ACN

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Fenpropidin	67306-00-7	Methanol	S-2004
Fenpropimorph	67564-91-4	Methanol	S-2003
Fenpyroximate	111812-58-9	Acetone	S-5804
Fenson	80-38-6	Methanol	S-4247
Fensulfothion	115-90-2	Acetone	S-2005
Fensulfothion	115-90-2	Acetone	S-2005-AC
Fenthion	55-38-9	Acetone	S-2010
Fenthion sulfoxide	3761-41-9	Acetone	S-4316
Fenthion sulfoxide	3761-41-9	Acetonitrile	S-4316-ACN
Fentin hydroxide(Super Tin)	76-87-9	Methanol	S-2009
Fenuron	101-42-8	Methanol	S-2011
Fexofenadine	83799-24-0	Methanol	S-5900
Fipronil	120068-37-3	Methanol	S-4004
Fipronil	120068-37-3	Acetone	S-4004-AC
Fipronil desulfinyl	205650-65-3	Acetonitrile	S-6377-ACN
Fipronil desulfinyl	205650-65-3	Ethyl Acetate	S-6377-EA
Fipronil sulfone	120068-36-2	Methanol	S-4699
Flamprop-isopropyl	52756-22-6	Methanol	S-4269
Flamprop-methyl	52756-25-9	Methanol	S-4263
Flamprop-M-isopropyl	57973-67-8	Methanol	S-4437
Flamprop-M-methyl	63729-98-6	Acetonitrile	S-6038
Fonicamid	158062-67-0	Acetonitrile	S-6084
Fluazifop	69335-91-7	Methanol	S-2015
Fluazifop-p-butyl	79241-46-6	Acetone	S-2020
Fluazinam	79622-59-6	Acetone	S-2021
Flubendiamide	272451-65-7	Methanol	S-5773
Flubendiamide	272451-65-7	Acetonitrile	S-5773-ACN
Flubenzimin	37893-02-0	Acetonitrile	S-6385
Fluchloralin	33245-39-5	Methanol	S-2025
Flucofuron	370-50-3	Methanol	S-5131
Flucythrinate	70124-77-5	Acetonitrile	S-5996
Flucythrinate (Mix of Isomer)	70124-77-5	Acetone	S-4684
Fludioxonil	131341-86-1	Methanol	S-2061
Flufenacet	142459-58-3	Methanol	S-4906
Flufenacet	142459-58-3	Acetonitrile	S-4906-ACN
Flumequine	42835-25-6	Methanol	S-4590
Flumethrin	69770-45-2	Acetone	S-4752
Flumetralin	62924-70-3	Methanol	S-4180
Flumetsulam	98967-40-9	Methanol	S-5064
Flumioxazin	103361-09-7	Acetonitrile	S-5193
Fluometuron	2164-17-2	Methanol	S-2026
Fluoranthene	206-44-0	Methylene Chloride	S-2030
Fluoranthene-d10	93951-69-0	Methanol	S-4111
Fluorene	86-73-7	Methylene Chloride	S-2035

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Fluorene-d10	81103-79-9	Methanol	S-2036
Fluorenone	486-25-9	Methanol	S-4332
Fluorescein	2321-07-5	Methanol	S-2037
4-Fluoroaniline	371-40-4	Methanol	S-4048
Fluorobenzene	462-06-6	Methanol	S-2040
Fluorobenzene	462-06-6	Isooctane	S-2040-ISO
4-Fluorobenzoic acid	456-22-4	Methanol	S-2042
2-Fluorobiphenyl	321-60-8	Methanol	S-2045
4-Fluorobiphenyl	324-74-3	Methanol	S-4954
Fluorodifen	15457-05-3	Methanol	S-4260
Fluoroglycofen-ethyl	77501-90-7	Ethyl Acetate	S-6418-EA
Fluoromethyl 1,1,1,3,3,3-hexafluoroisopropyl ether	28523-86-6	Methanol	S-5105
1-Fluoronaphthalene	321-38-0	Methanol	S-2047
2-Fluorophenol	367-12-4	Methanol	S-2050
3-Fluorophenol	372-20-3	Methanol	S-2051
4-Fluorophenol	371-41-5	Methanol	S-2055
Fluoxastrobin	361377-29-9	Acetonitrile	S-6020
Fluoxetine	56296-78-7	Methanol	S-5884
Fluquinconazole	136426-54-5	Acetonitrile	S-6103
Fluquinconazole	136426-54-5	Acetonitrile	S-6103-ACN
Flurochloridone	61213-25-0	Methanol	S-4277
Fluroxypyr	69377-81-7	Methanol	S-3954
Fluroxypyr-1-methylheptylester	81406-37-3	Methanol	S-3955
Flurtamone	96525-23-4	Methanol	S-4907
Flusilazole	85509-19-9	Methanol	S-4832
Flutolanil	66332-96-5	Methanol	S-2059
Flutriafol	76674-21-0	Methanol	S-2058
Flutriafol	76674-21-0	Acetonitrile	S-2058-ACN
tau-Fluvalinate	102851-06-9	Acetone	S-4161
tau-Fluvalinate	102851-06-9	Acetonitrile	S-4161-ACN
Folicur	107534-96-3	Methanol	S-2056
Folpet	133-07-3	Methanol	S-2057
Folpet	133-07-3	Acetone	S-2057-AC
Fomesafen	72178-02-0	Acetonitrile	S-4975
Foramsulfuron	173159-57-4	Methanol	S-5011
Formaldehyde	50-00-0	Deionized Water	S-2060
Formaldehyde-2,4-DNPH	1081-15-8	Deionized Water	S-5755
Formamide	75-12-7	Methanol	S-2062
Formanilide	103-70-8	Methanol	S-2065
Formetanate hydrochloride	23422-53-9	Methanol	S-2066
Formetanate hydrochloride	23422-53-9	Acetonitrile	S-2066-ACN
Formic acid	64-18-6	Deionized Water	S-2067
Formothion	2540-82-1	Acetonitrile	S-4685-ACN

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
4-Formylmorpholine	4394-85-8	Methanol	S-2068
Fosamine ammonium	25954-13-6	Methanol	S-2070
Fructose	57-48-7	Methanol	S-4189
Fructose	57-48-7	HPLC Water	S-4189-W
Fumaric acid	110-17-8	Methanol	S-2074
2-Furaldehyde	98-01-1	Methanol	S-2075
2-Furaldehyde	98-01-1	Water: Acetonitrile	S-2075-ACNDI
Furan	110-00-9	Methanol	S-2080
3-Furanmethanol	4412-91-3	Methanol	S-5680
Furathiocarb	65907-30-4	Methanol	S-5464
Furfuryl alcohol	98-00-0	Methanol	S-2079
D-Galactosamine hydrochloride	1772-03-8	Methanol	S-2081
Galactosan	644-76-8	Methanol	S-5522
Gallic acid	5995-86-8	Methanol	S-5657
Gasoline	8006-61-9	Methanol	S-4019
Gemfibrozil	25812-30-0	Methanol	S-5881
Geraniol	106-24-1	Methanol	S-4866
D-Glucosamine hydrochloride	66-84-2	Methanol	S-2082
alpha-D-Glucose (Dextrose)	492-62-6	Methanol	S-2086
alpha-D-Glucose (Dextrose)	492-62-6	HPLC Water	S-2086-W
Gluphosinate ammonium	77182-82-8	Methanol	S-2083
Glutaric acid	110-94-1	Deionized Water	S-4166
Glutaric dialdehyde	111-30-8	Deionized Water	S-3854
Glyburide	10238-21-8	Methanol	S-5902
Glycerol	56-81-5	Methanol	S-4192
Glycerol 2-phosphate di-Na salt hydrate	819-83-0	Methanol	S-2084
Glycerol Propoxylate Triacrylate	52408-84-1	Methanol	S-4103
Glycidol	556-52-5	Methanol	S-2087
Glycidyl phenyl ether	122-60-1	Methanol	S-5138
Glycolic Acid	79-14-1	Methanol	S-2088
Glyoxal	107-22-2	Deionized Water	S-3967
Glyphosate	1071-83-6	Water: Methanol	S-3092
Guaiol	489-86-1	Methanol	S-5698
n-Heneicosane	629-94-7	Methanol	S-2090
n-Hentriacontane	630-04-6	Methylene Chloride	S-2095
Heptachlor	76-44-8	Methanol	S-2100
Heptachlor	76-44-8	Acetone	S-2100-AC
Heptachlor	76-44-8	Hexane	S-2100-HEX
Heptachlor epoxide	1024-57-3	Methanol	S-2110
Heptachlor epoxide (Isomer A)	28044-83-9	Methanol	S-2106
Heptachlor epoxide (Isomer B)	1024-57-3	Methanol	S-2105
Heptachlor epoxide (Isomer B)	1024-57-3	Acetone	S-2105-AC
2,2',3,3',4,4',6-Heptachlorobiphenyl	52663-71-5	Methanol	S-2107

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	Methanol	S-9180
n-Heptacosane	593-49-7	Methylene Chloride	S-2115
n-Heptadecane	629-78-7	Methanol	S-2120
1-Heptadecanol	1454-85-9	Methanol	S-5770
1-Heptadecene	6765-39-5	Methanol	S-4731
trans-trans-2,4-Heptadienal (contains 10% cis)	4313-03-5	Methanol	S-5164
n-Heptane	142-82-5	Methanol	S-2125
n-Heptane-d16	142-82-5	Methanol	S-2126
Heptanoic acid	111-14-8	Methanol	S-2137
1-Heptanol	111-70-6	Methanol	S-2130
2-Heptanone	110-43-0	Methanol	S-2131
3-Heptanone	106-35-4	Methanol	S-4233
4-Heptanone	123-19-3	Methanol	S-4853
n-Heptatriacontane	7194-84-5	Methanol	S-4113
1-Heptene	592-76-7	Methanol	S-2135
Heptenophos	23560-59-0	Methanol	S-4261
Heptyl aldehyde	111-71-7	Methanol	S-2121
2-N-Heptylfuran	3777-71-7	Methanol	S-5624
Mono-n-heptyltin trichloride	59344-47-7	Ethanol	S-5517-ETOH
Hexabromobenzene	87-82-1	Toluene	S-5728
Hexachlorobenzene	118-74-1	Benzene	S-2140
Hexachlorobenzene- ¹³ C6	N/A	Methanol	S-5614
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	Methanol	S-9138
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	Methanol	S-9153
2,2',4,4',5,6'-Hexachlorobiphenyl	60145-22-4	Methanol	S-2142
Hexachlorobutadiene	87-68-3	Methanol	S-2145
1,2,3,4,5,6-Hexachlorocyclohexane(alpha)	319-84-6	Methanol	S-2147
Hexachlorocyclopentadiene	77-47-4	Methanol	S-2150
Hexachloroethane	67-72-1	Methanol	S-2155
Hexachlorophene	70-30-4	Methylene Chloride	S-2160
Hexachlorophene methyl ester	100965-64-8	Methanol	S-2161
Hexachloropropene	1888-71-7	Methanol	S-2165
Hexaconazole	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	S-3941
Hexadecene-1	629-73-2	Methylene Chloride	S-2180
1,4-Hexadiene	592-45-0	Methanol	S-2177
1,5-Hexadiene	592-42-7	Methanol	S-2178
1,1,1,3,3,3-Hexafluoro-2-methyl-2-propanol	1515-14-6	Methanol	S-3913
1,1,1,3,3,3-Hexafluoro-2-propanol	920-66-1	Methanol	S-2207

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1,1,1,3,3,3-Hexafluoro-2-propanol	920-66-1	Methanol	S-3911
Hexafluorobenzene	392-56-3	Methanol	S-2182
Hexahydrohexamethyl cyclopentabenzopyran	1222-05-5	Methanol	S-5545
Hexamethylbenzene	87-85-4	Methanol	S-2181
Hexamethylcyclotrisiloxane	541-05-9	Hexane	S-4334
Hexamethyldisiloxane	107-46-0	Methanol	S-4456
Hexamethylphosphoramide	680-31-9	Methanol	S-2185
2,6,10,15,19,23-Hexamethyltetracosane	111-01-3	Hexane	S-4170
Hexanal	66-25-1	Methanol	S-2187
n-Hexane	110-54-3	Methanol	S-2190
n-Hexane-d14	21666-38-6	Methanol	S-2191
1,6-Hexanediol	629-11-8	Methanol	S-2195
1,6-Hexanediol diacrylate	13048-33-4	Methanol	S-4105
2,3-Hexanedione	3848-24-6	Methanol	S-4143
Hexanenitrile	628-73-9	Methanol	S-4237
Hexanoic acid	142-62-1	Deionized 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	S-2200
3-Hexanone	589-38-8	Methanol	S-4236
Hexaoxacyclo-octadecane	17455-13-9	Methanol	S-2205
n-Hexatricontane	630-06-8	p-xylene	S-2210
cis-2-Hexene	7688-21-3	Methanol	S-2215
Hexene-1	592-41-6	Methanol	S-2225
trans-2-Hexene	4050-45-7	Methanol	S-2220
Hexyl 2-ethylhexyl phthalate	75673-16-4	Methanol	S-4158
Hexyl alcohol	111-27-3	Methanol	S-2230
Hexylcyclohexane	4292-75-5	Methanol	S-4458
2-Hexyloxyethanol	112-25-4	Methylene Chloride	S-2226
Hexythiazox	78587-05-0	Acetone	S-5270
Hippuric acid	495-69-2	HPLC Acetonitrile	S-5217
HMX	2691-41-0	Acetonitrile:Methanol	S-2229
Holmium oxide	12055-62-8	HPLC Water	S-4895
alpha-Humulene	6753-98-6	Methanol	S-5692
Hydrazine	302-01-2	Deionized Water	S-2231
Hydrazobenzene	122-66-7	Methanol	S-2232
Hydrogen bromide	10035-10-6	Methanol	S-2238
Hydrogen sulfide	7783-06-4	Methanol	S-3987
Hydroquinone	123-31-9	Methanol	S-2235
4-Hydroxy-2-mercapto-6-propylpyrimidine	51-52-5	Methanol	S-2242
4-Hydroxy-3-NitroPhenylAcetic acid	10463-20-4	Methanol	S-4805
4-Hydroxy-4-methyl-2-pentanone	123-42-2	Methanol	S-2241

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-Hydroxy atrazine	2163-68-0	Dimethyl Sulfoxide	S-2236
p-Hydroxybenzoic acid	99-96-7	Methyl-tert-Butyl Ether	S-2239
p-Hydroxybenzoic acid methyl ester	99-76-3	Methanol	S-3889
2-Hydroxybenzothiazole	934-34-9	Methanol	S-4772
3-Hydroxycarbofuran	16655-82-6	Acetonitrile	S-2240
3-Hydroxycarbofuran	16655-82-6	Methanol	S-2240-MEOH
2-Hydroxyethyl methacrylate	868-77-9	Methanol	S-5329
2,2-Bis-(hydroxymethyl)-propionic acid	4767-63-7	Methanol	S-4029
Tris(hydroxymethyl) aminomethane	77-86-1	Methanol	S-4307
5-(hydroxymethyl) Furfural	67-47-0	Methanol	S-2227
Bis(4-hydroxyphenyl)-methane	620-92-8	Methanol	S-512
B-Hydroxypropionic acid	503-66-2	Methanol	S-4197
2-Hydroxypropionitrile	78-97-7	Methanol	S-2344
8-Hydroxyquinoline	148-24-3	Methanol	S-3953
Hydroxyzine	2192-20-3	Methanol	S-5903
Ibuprofen	15687-27-1	Methanol	S-5580
Igepal CA 630	9036-19-5	Methanol	S-5114
Imazalil	35554-44-0	Methanol	S-2346
Imazalil	35554-44-0	Acetonitrile	S-2346-ACN
Imazamethabenz-methyl	81405-85-8	Methanol	S-4732
Imazamox	114311-32-9	Methanol	S-4782
Imazapyr	81334-34-1	Methanol	S-3966
Imazaquin	81335-37-7	Methanol	S-2243
Imazethapyr	81335-77-5	Methanol	S-2244
Imazilil	73790-28-0	Methanol	S-2246
Imidacloprid	138261-41-3	Acetone	S-2247
Imidan	732-11-6	Methanol	S-2245
Imipramine	113-52-0	Methanol	S-5611
Imiprothrin	72963-72-5	Acetonitrile	S-5782-ACN
Indan	496-11-7	Methanol	S-2249
Indene	95-13-6	Methylene Chloride	S-2250
Indeno(1,2,3-c,d)pyrene	193-39-5	Methylene Chloride: Benzene	S-2255
Indole	120-72-9	Methanol	S-2260
Indomethacin	53-86-1	Methanol	S-5587
Indoxacarb	173584-44-6	Acetone	S-4963
Iodoacetic acid	64-69-7	HPLC Water	S-4972
Iodofenphos	18181-70-9	Methanol	S-2265
Iodomethane	74-88-4	Methanol	S-2270
Iodosulfuron-methyl-sodium	144550-36-7	Methanol	S-4908
Ioxnil methyl ether	N/A	Methanol	S-1554A
Iprobenfos	26087-47-8	Acetonitrile	S-6088
Iprodione	36734-19-7	Isooctane	S-2272
Iprodione	36734-19-7	Acetonitrile	S-2272-ACN

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Iprovalicarb	140923-17-7	Acetonitrile	S-6029
Iprovalicarb	140923-17-7	Methanol	S-6029-MEOH
Irgarol 1051	28159-98-0	Methanol	S-4910
Isazophos	42509-80-8	Methanol	S-4164
iso-Butylcyclohexane	1678-98-4	Methanol	S-686
Isoamyl acetate	123-92-2	Methanol	S-4036
Isoamylbenzene	2049-94-7	Methanol	S-2273
2-Isobutyl-3-methoxypyrazine	24683-00-9	Methanol	S-6051
Isobutyl acetate	110-19-0	Methanol	S-2274
Isobutyl hydrogen methylphosphonate	1604-38-2	Methanol	S-4498
Isobutyl isobutyrate	97-85-8	Methanol	S-2275
6-Isobutyl quinoline	1333-58-0	Methanol	S-4950
Isobutylbenzene	538-93-2	Methanol	S-2276
Isobutyraldehyde	78-84-2	Methanol	S-2280
Isobutyric acid	79-31-2	Deionized Water	S-2282
Isodrin	465-73-6	Methanol	S-2285
Isofenphos	25311-71-1	Methanol	S-2290
Isofenphos-methyl	99675-03-3	Methanol	S-5998
Isoflurane	26675-46-7	Methanol	S-4320
Isomaltose	499-40-1	Methanol	S-5858
Isooctyl alcohol	26952-21-6	Methanol	S-2292
2,4-D-isooctyl ester	25168-26-7	Methanol	S-4986
Isopentyl pentyl phthalate	776297-69-9	Methylene Chloride	S-6109
Isopentyl pentyl phthalate	776297-69-9	Hexane	S-6109-H
Isophorone	78-59-1	Methanol	S-2295
Isophorone diisocyanate	4098-71-9	Methylene Chloride	S-6631
Isophosphamide (Ifosfamide)	3778-73-2	Methanol	S-5890
Isopimaric acid	5835-26-7	Methanol	S-4357
Isoprene	78-79-5	Methanol	S-2300
Isoprocab	2631-40-5	Methanol	S-4253
Isopropalin	33820-53-0	Methanol	S-2304
Isopropanol (2-Propanol, Isopropyl alcohol)	67-63-0	Methanol	S-2585B
2-isopropyl-3-methoxypyrazine	25773-40-4	Methanol	S-6050
Isopropyl-1,1,1,3,3,3-d6-Alcohol	3976-29-2	Methanol	S-3935
Isopropyl-4,4'-dichlorobenzilate	5836-10-2	Methanol	S-4552
Isopropyl acetate	108-21-4	Methanol	S-2305
Isopropyl cellosolve	109-59-1	Methanol	S-5735
Isopropyl ether	108-20-3	Methanol	S-2310
Isopropyl Isocyanate	1795-48-8	Methanol	S-4946
Isopropyl methylphosphonic acid	1832-54-8	Methanol	S-4494
Isopropyl sulfide	625-80-9	Methanol	S-4370
Isopropylamine branched alkylbenzene	68649-00-3	Methanol	S-5109

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Isopropylbenzene	98-82-8	Methanol	S-2315
2-Isopropylphenol	88-69-7	Methanol	S-4293
3-Isopropylphenol	618-45-1	Methanol	S-2317
4-Isopropylphenol	99-89-8	Methanol	S-5514
2-Isopropyltoluene	527-84-4	Methanol	S-2319
3-Isopropyltoluene	535-77-3	Methanol	S-2318
p-Isopropyltoluene	99-87-6	Methanol	S-2320
Isoproturon	34123-59-6	Methanol	S-3945
Isoquinoline	119-65-3	Methanol	S-2325
Isosafrole	120-58-1	Methanol	S-2330
Isovaleraldehyde	590-86-3	Methanol	S-2331
Isovaleric acid	503-74-2	Deionized Water	S-2332
Isoxathion	18854-01-8	Acetonitrile	S-6094
Ivermectin	70288-86-7	Acetone	S-5457
JP-4	8008-20-6	Methanol	S-4042
Kelthane 1.5%o,p'-95%p,p'	115-32-2	Methanol	S-2335
Kepone	143-50-0	Methanol	S-2340
Kerosene	8008-20-6	Methylene Chloride	S-2341
3-Keto-carbofuran	16709-30-1	Methanol	S-6129
Kresoxim-methyl	143390-89-0	Methanol	S-4833
L(+)-Lactic acid	79-33-4	Deionized Water	S-2342
Lactose	64044-51-5	HPLC Water	S-4516
lambda-cyhalothrin	91465-08-6	Toluene	S-1044
lambda-cyhalothrin	91465-08-6	Acetone	S-1044-AC
Leptophos	21609-90-5	Methanol	S-2345
Leptophos oxon	25006-32-0	Methanol	S-2348
Levoglucosan	498-07-7	Methanol	S-5520
Lidocaine	137-58-6	Methanol	S-2347
(R)-(+)-Limonene	5989-27-5	Methanol	S-4021
(S)-(-)-Limonene	5989-54-8	Ethanol	S-6409
Linalool	78-70-6	Methanol	S-5133
Linoleic acid	60-33-3	Methyl-tert-Butyl Ether	S-3990
Linolenic acid	463-40-1	Methyl-tert-Butyl Ether	S-3991
Linuron	330-55-2	Acetone	S-2350
Lontrel (Clopyralid)	1702-17-6	Methanol	S-2354
Lysine	56-87-1	Methanol	S-4298
Malaoxon	1634-78-2	Methanol	S-2356
Malathion	121-75-5	Methanol	S-2355
Malathion	121-75-5	Acetone	S-2355-AC
Maleic acid	110-16-7	Deionized Water	S-5622
Maleic anhydride	108-31-6	Methanol	S-2357
Maleic hydrazide	123-33-1	Methanol	S-2360
L-Malic acid	97-67-6	Acetonitrile	S-5647
Malic acid	636-61-3	Methanol	S-4168

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Malonic acid	141-82-2	Methanol	S-2361	Methanethiol	74-93-1	Deionized Water	S-2433-W
Malononitrile	109-77-3	Methanol	S-3896	Methanol	67-56-1	Deionized Water	S-2380
Maltitol	585-88-6	HPLC Water	S-4348	Methapyrilene HCl	135-23-9	Methanol	S-2450
Maltose	6363-53-7	Methanol	S-4188	Methidathion	950-37-8	Methanol	S-2384
Maltotriose	1109-28-0	HPLC Water	S-4859	Methiocarb	2032-65-7	Acetonitrile	S-2385
Mandelic acid	90-64-2	HPLC Acetonitrile	S-5221	Methiocarb-sulfone	2179-25-1	Methanol	S-4790
Mannitol	69-65-8	Methanol	S-4349	Methiocarb sulfoxide	2635-10-1	Methanol	S-4791
D-Mannosamine HCl	5505-63-5	Methanol	S-2363	Methional	3268-49-3	Methanol	S-4821
Mannosan	14168-65-1	Methanol	S-5521	2-Methylpentane	107-83-5	Methanol	S-2390
MCPA-butoxyethyl ester	19480-43-4	Acetonitrile	S-6374	Methocarbamol	532-03-6	Methanol	S-5906
MCPA	94-74-6	Methanol	S-4565	Methomyl	16752-77-5	Acetonitrile	S-2395
MCPA methyl ester	2436-73-9	Methanol	S-956	Methomyl	16752-77-5	Methanol	S-2395-MEOH
MCPB	94-81-5	Methanol	S-2364	Methoprene	40596-69-8	Methanol	S-2396
MCPB methyl Ester	57153-18-1	Methanol	S-2364A	Methoprene	40596-69-8	Acetonitrile	S-2396-ACN
MCPP methyl ester	23844-56-6	Methyl-tert-Butyl Ether	S-2365B	Methoprotryne	841-06-5	Methanol	S-4264
Mecarbam	2595-54-2	Methanol	S-4847	1-Methoxy-2-propanol	107-98-2	Methanol	S-2412
Mecoprop	7085-19-0	Methanol	S-2365	2-Methoxy-4-methylphenol	93-51-6	Methanol	S-985
p-Mentha-1,5-diene	99-83-2	Methanol	S-4173	2-Methoxy-4-methylphenol-3,5,6-d3,OD	20189-08-6	Methanol	S-4746
Menthol	2216-51-5	Methanol	S-4669	2-Methoxy-4-vinylphenol	7786-61-0	Methanol	S-4694
2-Mercapto-1-methylimidazole	60-56-0	Methanol	S-2367	2-Methoxy-5-methylaniline	120-71-8	Methanol	S-2415
2-Mercaptobenzothiazole	149-30-4	Methanol	S-2366	2-Methoxy-5-nitroaniline	99-59-2	Methanol	S-2420
2-Mercaptoethanol	60-24-2	Methanol	S-5535	2-Methoxy-d3-phenol	74495-69-5	Methanol	S-4745
8-Mercaptomenthone (mixture of isomers)	38462-22-5	Methanol	S-4824	4-Methoxy-m-phenylenediamine	615-05-4	Methanol	S-4473
Mesityl oxide	141-79-7	Methanol	S-2368	Methoxychlor	72-43-5	Methanol	S-2397
Mesosulfuron-methyl	208465-21-8	Methanol	S-4909	Methoxychlor	72-43-5	Acetonitrile	S-2397-ACN
Mestranol	72-33-3	Methanol	S-2369	o,p'-Methoxychlor	30667-99-3	Methanol	S-2400
Metalaxyl	57837-19-1	Acetone	S-2369A	p,p'-Methoxychlor	72-43-5	Methanol	S-2405
Metalaxyl-M	70630-17-0	Acetonitrile	S-5511	2-Methoxyethanol	109-86-4	Methanol	S-2407
Metaldehyde	108-62-3	Methanol	S-5027	2-Methoxyethanol	109-86-4	Methanol	S-2409
Metamitron	41394-05-2	Methanol	S-3946	Bis(2-methoxyethyl)phthalate	117-82-8	Methanol	S-4156
Metasystox I (TM)	919-86-8	Methanol	S-4205	Bis(2-methoxyethyl)phthalate	117-82-8	Hexane	S-4156-H
Metaxalone	1665-48-1	Methanol	S-5904	2-Methoxyethyl ether	111-96-6	Methanol	S-3908
Metazachlor	67129-08-2	Methanol	S-2372	Methoxyfenozide	161050-58-4	HPLC Acetonitrile	S-6033
Metformin	657-24-9	Methanol	S-5905	Methoxyfenozide	161050-58-4	Methanol	S-6033-MEOH
Methabenzthiazuron	18691-97-9	Acetone	S-3948	4-Methoxyphenol	150-76-5	Methanol	S-4110
Methacrifos	62610-77-9	Acetone	S-5619	2-Methoxyphenol	90-05-1	Methanol	S-986
Methacrolein	78-85-3	Methanol	S-2370	3-Methoxypropionitrile	110-67-8	Methanol	S-2410
Methacrylic acid	79-41-4	Acetonitrile	S-5235	3-Methoxypropylamine	5332-73-0	Methanol	S-2416
Methacrylonitrile	126-98-7	Methanol	S-2375	(S)-(-)-2-Methyl-butanol	1565-80-6	Methanol	S-3958
Methamidophos	10265-92-6	Acetone	S-2377	1-Methyl-1-cyclopentene	693-89-0	Methanol	S-689
Methane	74-82-8	Methanol	S-2379	1-Methyl-1-propanethiol	513-53-1	Methanol	S-691
Methanesulfonic acid	75-75-2	Methanol	S-2378	1-Methyl-2-propylbenzene	1074-17-5	Methanol	S-2588
Methanethiol	74-93-1	Methanol	S-2433	1-Methyl-2-pyrrolidinone	872-50-4	Methanol	S-2590

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1-Methyl-4-propylbenzene	1074-55-1	Methanol	S-2589
1-Methyl-cyclohexane	591-49-1	Methanol	S-4740
2-Methyl-1,3-dioxolane	497-26-7	Methanol	S-2580
2-Methyl-1-butanol	137-32-6	Methanol	S-4238
2-Methyl-1-heptene	15870-10-7	Isooctane:Toluene	S-6413-IST
2-Methyl-1-hexene	6094-02-6	Isooctane:Toluene	S-6412-IST
2-Methyl-1-pentene	763-29-1	Methanol	S-4887
2-Methyl-1-phenyl-2-propanol	100-86-7	Methanol	S-4031
2-Methyl-1-propanethiol	513-44-0	Methanol	S-2587
2-methyl-1-propanol	78-83-1	Methanol	S-2585
2-Methyl-2,4-pentanediol	107-41-5	Methanol	S-2595
2-Methyl-2-Butene	513-35-9	Methanol	S-4039
2-Methyl-2-pentenal	623-36-9	Methanol	S-2603
2-Methyl-2-propanethiol	75-66-1	Methanol	S-2586
2-Methyl-2-propanol	75-65-0	Methanol	S-2602
2-Methyl-3-buten-2-ol	115-18-4	Methanol	S-5697
2-Methyl-3-butyne-2-ol	115-19-5	Methanol	S-2605
2-Methyl-4,6-bis((octylthio)methyl)phenol [Irganox 1520]	110553-27-0	Methanol	S-3902
2-Methyl-4-isothiazoline-3-one	2682-20-4	Methanol	S-4466
2-Methyl-5-nitroaniline	99-55-8	Methanol	S-2610
3-Methyl-1-butanol	123-51-3	Methanol	S-2579
3-Methyl-1-Butene	563-45-1	Methanol	S-4165
3-Methyl-2-butanol	598-75-4	Methanol	S-5092
3-Methyl-2-butanone	563-80-4	Methanol	S-2604
3-Methyl-2-pentene	922-61-2	Methanol	S-3910
3-Methyl-3-buten-ol	763-32-6	Methanol	S-2418
4-Methyl-1,3-dioxane	1120-97-4	Methanol	S-2583
4-Methyl-1,3-dioxolane	1072-47-5	Methanol	S-2581
4-Methyl-2-hexanone	105-42-0	Methanol	S-5631
4-Methyl-2-pentanol	108-11-2	Methanol	S-2596
4-Methyl-2-pentanone	108-10-1	Methanol	S-2600
5-Methyl-1H-benzotriazole	136-85-6	Methanol	S-4380
5-Methyl-2-hexanone	110-12-3	Methanol	S-2606
6-Methyl-2-heptanone	928-68-7	Methanol	S-5632
Bis(4-methyl-2-pentyl)phthalate	146-50-9	Methanol	S-4154
Methyl-2,3-dibromopropionate	2905-69-3	Methanol	S-2597
Methyl-2-bromopropionate	57885-43-5	Methyl-tert-Butyl Ether	S-2598
Methyl-3-methoxypropionate	3852-09-3	Methanol	S-3857
Methyl-tert-butyl ether	1634-04-4	Methanol	S-2455
Trans-2-Methyl-2-butenal	497-03-0	Methanol	S-5633
trans-3-Methyl-2-pentene	616-12-6	Methanol	S-2446
Methyl-2,3-dibromopropionate	1729-67-5	Methanol	S-3895A
Methyl acetate	79-20-9	Methanol	S-3893

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Methyl acrylate	96-33-3	Methanol	S-2424
Methyl alcohol-d3	1849-29-2	Deionized Water	S-2381
Methyl arachidate	1120-28-1	Methanol	S-4215
Methyl behenate	929-77-1	Methanol	S-4662
Methyl behenate	929-77-1	Hexane	S-4662-H
Methyl bromoacetate	96-32-2	Methanol	S-521
Methyl bromochloroacetate	20428-74-4	Methanol	S-530A
Methyl bromodichloroacetate	20428-76-6	Methanol	S-4043
2-Methyl butanediol	N/A	Methanol	S-2411
Methyl caproate	106-70-7	Methanol	S-4220
Methyl caprylate	111-11-5	Methanol	S-4649
Methyl chloroacetate	96-34-4	Methanol	S-795A
Methyl chloroacetate	96-34-4	Methyl-tert-Butyl Ether	S-796
Methyl chlorocarbonate	79-22-1	Nonane	S-4698
Methyl chlorodibromoacetate	20428-75-5	Methyl-tert-Butyl Ether	S-4044
Methyl cis-13-docosenoate	1120-34-9	Methanol	S-5529
Methyl cis-15-tetracosenoate	2733-88-2	Methanol	S-5530
Methyl cis-9-hexadecenoate	1120-25-8	Methanol	S-5526
Methyl dacthal	1861-32-1	Methanol	S-1065
Methyl dacthal	1861-32-1	Acetone	S-1065-AC
Methyl dacthal	1861-32-1	Acetonitrile	S-1065-ACN
Methyl decanoate	110-42-9	Methanol	S-4217
Methyl decanoate	110-42-9	Hexane	S-4217-H
Methyl dibromoacetate	6482-26-4	Methanol	S-1221
Methyl dichloroacetate	116-54-1	Methanol	S-1285A
Methyl disulfide	624-92-0	Methanol	S-2599
Methyl ether	115-10-6	Methanol	S-2428
Methyl ethyl ketone peroxide	1338-23-4	Methanol	S-4343
Methyl eugenol	93-15-2	Methanol	S-5686
Methyl gamma-linolenate	16326-32-2	Methanol	S-5528
Methyl heptadecanoate	1731-92-6	Methanol	S-4657
Methyl heptadecanoate	1731-92-6	Hexane	S-4657-H
Methyl heptanoate	106-73-0	Methanol	S-4648
Methyl hydrazine	60-34-4	Methanol	S-4199
Methyl isocyanate	624-83-9	Hexane	S-2431
Methyl laurate	111-82-0	Methanol	S-4652
Methyl lignocerate	2442-49-1	Methanol	S-4664
Methyl lignocerate	2442-49-1	Hexane	S-4664-H
Methyl linoleate	112-63-0	Methanol	S-4219
Methyl linolenate	301-00-8	Methanol	S-4222
Methyl malonic acid	516-05-2	Methanol	S-2432
Methyl methacrylate	80-62-6	Methanol	S-2435
Methyl methanesulfonate	66-27-3	Methanol	S-2440

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Methyl myristate	124-10-7	Hexane	S-4654-H
Methyl nonadecanoate	1731-94-8	Methanol	S-4659
Methyl nonanoate	1731-84-6	Methanol	S-4650
Methyl oleate	112-62-9	Methanol	S-4223
Methyl orange	547-58-0	Methanol	S-4461
Methyl palmitate	112-39-0	Methanol	S-4656
Methyl parathion	298-00-0	Methanol	S-2445
Methyl parathion	298-00-0	Acetone	S-2445-AC
Methyl parathion	298-00-0	Acetonitrile	S-2445-ACN
Methyl pentadecanoate	7162-64-1	Methanol	S-4655
1-Methyl-1-pentene	691-37-2	Isooctane:Toluene	S-4888-IST
Methyl ricinoleate	141-24-2	Methanol	S-5527
Methyl salicylate	119-36-8	Methanol	S-2458
Methyl stearate	112-61-8	Methanol	S-2453
Methyl stearate	112-61-8	Methanol	S-4658
Methyl stearate	112-61-8	Hexane	S-4658-H
Methyl sulfide	75-18-3	Methanol	S-2454
Methyl sulfoxide	67-68-5	Methanol	S-2565
Methyl tetracosanoate	2442-49-1	Methanol	S-4225
3-Methyl tetrahydrofuran	13423-15-9	Methanol	S-2571
Methyl thioacetate	1534-08-3	Methanol	S-4822
Methyl thiocyanate	556-64-9	Methanol	S-4351
Methyl tribromoacetate	3222-05-7	Methanol	S-4045
Methyl trichloroacetate	598-99-2	Methanol	S-3576
Methyl tricosanoate	2433-97-8	Methanol	S-4663
Methyl tricosanoate	2433-97-8	Hexane	S-4663-H
Methyl tridecanoate	1731-88-0	Methanol	S-4653
Methyl undecanoate	1731-86-8	Methanol	S-4651
Methyl undecanoate	1731-86-8	Hexane	S-4651-H
Methyl vinyl ketone	78-94-4	Methanol	S-2611
Methyl yellow	60-11-7	Methanol	S-3856
N-Methylacetamide	79-16-3	Methanol	S-6047
9-Methylacridine	611-64-3	Methanol	S-2456
Methylamine	74-89-5	Methanol	S-2457
Methylamine hydrochloride	593-51-1	Methanol	S-2457A
N-Methylaniline	100-61-8	Methanol	S-2459
3-Methylanisole	100-84-5	Methanol	S-5676
4-Methylanisole	104-93-8	Methanol	S-5675
2-Methylantracene	613-12-7	Methanol	S-2460
4-Methylbenzenethiol	106-45-6	Methanol	S-2414
3-Methylbenzenethiol	108-40-7	Methanol	S-2413
7-Methylbenzo[a]pyrene	63041-77-0	Methylene Chloride	S-6053
2-Methylbenzofuran	4265-25-2	Methanol	S-2461
Methylbenzyl alcohol	98-85-1	Methanol	S-4176

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-Methylbutane	78-78-4	Methanol	S-2462
2-Methylbutane	78-78-4	Methanol	S-2464
3-Methylcholanthrene	56-49-5	Methylene Chloride	S-2465
5-Methylchrysene	3697-24-3	Methylene Chloride	S-4811
6-Methylchrysene	1705-85-7	Methylene Chloride	S-2426
Methylcyclohexane	108-87-2	Methanol	S-2470
2-Methylcyclohexanol acetate (c&t)	54714-33-9	Methanol	S-2471
Methylcyclopentadiene	26472-00-4	Methanol	S-3915
Methylcyclopentane	96-37-7	Methanol	S-2422
Methylcyclopentane	96-37-7	Methanol	S-2475
3-Methylcyclopentene	1120-62-3	Methanol	S-3972
2-Methyldecane	6975-98-0	Methanol	S-4813
3-Methyldecane	13151-34-3	Methanol	S-4814
4-Methyldibenzothiophene	7372-88-5	Methylene Chloride	S-6052
N-Methyldiethanolamine	105-59-9	Methanol	S-2484
Methyldiethoxysilane	2031-62-1	Methanol	S-5612
4,4'-Methylene-bis(2-methylaniline)	838-88-0	Methanol	S-4474
4,4'-Methylene bis(o-chloroaniline)	101-14-4	Methanol	S-4556
Methylene chloride	75-09-2	Methanol	S-2480
Methylene chloride-d2	1665-00-5	Methanol	S-2481
Methylene di-p-phenyl diisocyanate	101-68-8	Acetone	S-2487
4,4'-Methylenebis(2-chloroaniline)	101-14-4	Methanol	S-2485
4,4'-Methylenebis (N,N-dimethylaniline)	101-61-1	Methanol	S-5941
4,4'-Methylenedianiline	101-77-9	Methanol	S-2486
1-Methylfluorene	1730-37-6	Methanol	S-2490
n-Methylformamide	123-39-7	Methanol	S-5004
Methylformate	107-31-3	Methanol	S-2495
2-Methylfuran	534-22-5	Methanol	S-2500
3-Methylfuran	930-27-8	Methanol	S-2501
5-Methylfurfural	620-02-0	Methanol	S-2607
Methylglyoxal	78-98-8	Methanol	S-3968
2-Methylheptane	592-27-8	Methanol	S-2505
3-Methylheptane	589-81-1	Methanol	S-2430
Methylhexahydrophthalic anhydride	25550-51-0	Methanol	S-6125
2-Methylhexane	591-76-4	Methanol	S-2510
3-Methylhexane	589-34-4	Methanol	S-2515
2-Methylhippuric acid	42013-20-7	Acetonitrile	S-5218
3-Methylhippuric acid	27115-49-7	Acetonitrile	S-5219
4-Methylhippuric acid	27115-50-0	Acetonitrile	S-5220
3-Methylindole	83-34-1	Methanol	S-2516
n-Methylmorpholine	109-02-4	Methanol	S-2519
1-Methylnaphthalene	90-12-0	Methanol	S-2520
2-Methylnaphthalene	91-57-6	Methanol	S-2525

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2-Methylnaphthalene-d10	7297-45-2	Methanol	S-4443
4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanone	64091-91-4	Methanol	S-2526
4-Methylnonane	17301-94-9	Methanol	S-4818
2-Methylpentane	107-83-5	Methanol	S-2527
3-Methylpentane	96-14-0	Methanol	S-2530
1-Methylphenanthrene	832-69-9	Methanol	S-2535
2-Methylphenanthrene	2531-84-2	Methanol	S-3999
2-Methylphenol	95-48-7	Methanol	S-2545
3-Methylphenol	108-39-4	Methanol	S-2540
4-Methylphenol	106-44-5	Methanol	S-2550
2-Methylpropane	75-28-5	Methanol	S-2555
2-Methylpropene	115-11-7	Methanol	S-2556
1-Methylpyrene	2381-71-7	Methylene Chloride	S-3858
2-Methylstyrene	611-15-4	Methanol	S-2561
3-Methylstyrene	100-80-1	Methanol	S-2562
4-Methylstyrene	622-97-9	Methanol	S-2563
alpha-Methylstyrene	98-83-9	Methanol	S-2560
trans-beta-Methylstyrene	873-66-5	Methanol	S-2564
n-Methylsuccinimide	1121-07-9	Methanol	S-2567
2-Methyltetrahydrofuran	96-47-9	Methanol	S-2570
2-Methyltetrahydropyran	10141-72-7	Methanol	S-5124
2-Methylthianaphthene	1195-14-8	Methanol	S-5750
4-Methylthiazole	693-95-8	Methanol	S-2575
2-Methylthiobenzothiazole	615-22-5	Methanol	S-4770
2-Methylthiophene	554-14-3	Methanol	S-3982
3-Methylthiophene	616-44-4	Methanol	S-2576
4-Methylvaleric acid	646-07-1	Methanol	S-2284
Metiram	9006-42-2	Methanol	S-4687
Metobromuron	3060-89-7	Acetonitrile	S-2574
Metolachlor	51218-45-2	Methanol	S-2615
S-Metolachlor	87392-12-9	Acetonitrile	S-5203
S-Metolachlor	87392-12-9	Acetone	S-5203-AC
Metolachlor ESA (sodium salt)	947601-85-6	Acetonitrile	S-4634
Metolachlor OA	152019-73-3	Acetonitrile	S-4635
Metolcarb	1129-41-5	Methanol	S-2617
Metoxuron	19937-59-8	Methanol	S-3997
Metribuzin	21087-64-9	Methanol	S-2620
Metronidazole	443-48-1	Methanol	S-5570
Metsulfuron methyl	74223-64-6	Acetone	S-2621
Metsulfuron methyl	74223-64-6	Methanol	S-3928
Mevinphos	7786-34-7	Methanol	S-2625
Mexacarbate	315-18-4	Methanol	S-4265
MGK 264 (a=81% b=19%)	113-48-4	Methanol	S-2627

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
MGK 326	136-45-8	Methanol	S-2628
Michler's ketone	90-94-8	Methanol	S-5940
Military fuel standard	N/A	Methanol	S-3859
Mineral oil	8042-47-5	Methylene Chloride	S-2630
Mineral oil type A	68476-34-6	Acetone	S-5125
Mineral oil type B	N/A	Acetone	S-5126
Mineral spirits	64475-85-0	Methanol	S-3918
Mirex	2385-85-5	Hexane:Toluene	S-2635
Mirex	2385-85-5	Acetonitrile	S-2635-ACN
Molinate	2212-67-1	Methanol	S-2640
Monceren	66063-05-6	Acetonitrile	S-4555
Mono propylene glycol	57-55-6	Methanol	S-2646
Monocrotophos	6923-22-4	Acetone	S-2645
Monocrotophos	6923-22-4	Acetone	S-2645-AC
Monolein	111-03-5	Methanol	S-4386
Monolinuron	1746-81-2	Acetonitrile	S-2642
Monomethyl tetrachloroterephthalate	887-54-7	Methylene Chloride	S-1068
Monopalmitin	542-44-9	Methanol	S-4645
Monostearin	123-94-4	Pyridine	S-4646
Monothiono TEPP	645-78-3	Acetonitrile	S-6373
Monuron	150-68-5	Methanol	S-2647
Morpholine	110-91-8	Methanol	S-2648
Motor oil composite	N/A	Acetone	S-4468
Motor oil composite (5W30,10W30,10W40,20W50)	N/A	Acetone	S-5149
Motor oil, SAE 10W	N/A	Methanol	S-3931
Motor oil, SAE 20W	N/A	Methylene Chloride	S-2653
Motor oil, SAE 30W	N/A	Methanol	S-2649
Motor oil, SAE 40W	N/A	Methanol	S-2651
Motor oil, SAE 50W	N/A	Methanol	S-2652
10W30 Motor oil	N/A	Acetone	S-4509
trans,trans-Muconic acid	3588-17-8	HPLC Water	S-5223
Myosmine	532-12-7	Methanol	S-6363
beta-Myrcene	123-35-3	Hexane	S-2654
Myristic acid	544-63-8	Methanol	S-4230
Naphtha	8030-30-6	Methylene Chloride	S-3861
Naphtha	64741-41-9	Methanol	S-3861A
Naphthalene	91-20-3	Methanol	S-2655
Naphthalene-d8	1146-65-2	Methanol	S-2660
Naphthalene-d8	1146-65-2	Acetonitrile	S-2660-ACN
1-Naphthol	90-15-3	Acetonitrile	S-2665
2-Naphthol	135-19-3	Methanol	S-2666
1,4-Naphthoquinone	130-15-4	Methanol	S-2670

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
1-Naphthyl isocyanate	86-84-0	Methylene Chloride	S-6634	N-Nitrosodi-n-propylamine	621-64-7	Methylene Chloride	S-2835
Naproxen	22204-53-1	Methanol	S-5880	N-Nitrosodiethanolamine	1116-54-7	Methanol	S-2811
Neburon	555-37-3	Methanol	S-2671	N-Nitrosodiethylamine	55-18-5	Methanol	S-2810
Neoabietic acid	471-77-2	Methanol	S-4358	N-Nitrosodiisopropylamine	601-77-4	Methanol	S-3939
Neopentyl chloride	753-89-9	Methanol	S-2675	N-Nitrosodimethylamine	62-75-9	Methanol	S-2815
Nicarbazin	330-95-0	Acetonitrile	S-4599	4-Nitrosodiphenylamine	156-10-5	Methanol	S-2745
Nicosulfuron	111991-09-4	Methanol	S-4993	N-Nitrosodiphenylamine	86-30-6	Methylene Chloride	S-2820
Nicotinamide	98-92-0	Methanol	S-4016	N-Nitrosomethylethylamine	10595-95-6	Methanol	S-2830
Nicotine	54-11-5	Methanol	S-2680	N-Nitrosomorpholine	59-89-2	Methanol	S-2749
Nitralin	4726-14-1	Methanol	S-4289	N'-Nitrosozonornicotine	53759-22-1	Methanol	S-2751
Nitrapyrin	1929-82-4	Methanol	S-4018	N'-Nitrosozonornicotine (NNN)	80508-23-2	Methanol	S-5726
Nitrapyrin	1929-82-4	Methanol	S-4266	N-Nitrosopiperidine	100-75-4	Methanol	S-2750
Nitriilotriacetic acid	139-13-9	Methanol	S-4096	N-Nitrosopiperidine	100-75-4	Methanol	S-2750A
2-Nitro-m-xylene	81-20-9	Methanol	S-2760	N-Nitrosoproline	7519-36-0	Methanol	S-2752
4-Nitro-m-cresol	2581-34-2	Methanol	S-2713	1-Nitrosopyrrolidine	930-55-2	Methanol	S-2755
5-Nitro-o-toluidine	99-55-8	Methanol	S-3862	Nitrothal isopropyl	10552-74-6	Methanol	S-4291
5-Nitroacenaphthene	602-87-9	Methanol	S-2685	2-Nitrotoluene	88-72-2	Methanol	S-2756
2-Nitroaniline	88-74-4	Methanol	S-2690	3-Nitrotoluene	99-08-1	Methanol	S-2757
3-Nitroaniline	99-09-2	Methanol	S-2695	4-Nitrotoluene	99-99-0	Methanol	S-2758
4-Nitroaniline	100-01-6	Methanol	S-2700	cis-Nonachlor	5103-73-1	Methanol	S-2765
2-Nitroanisole	91-23-6	Methanol	S-2702	trans-Nonachlor	39765-80-5	Methanol	S-2770
Nitrobenzene	98-95-3	Methanol	S-2705	n-Nonacosane	630-03-5	Methanol	S-2775
Nitrobenzene-d5	4165-60-0	Methanol	S-2710	n-Nonadecane	629-92-5	Methylene Chloride	S-2780
4-Nitrobiphenyl	92-93-3	Methanol	S-2715	1-Nonadecene	18435-45-5	Methanol	S-4210
3-Nitrodiphenyl	2113-58-8	Methanol	S-2714	(E,Z)-2,6-Nonadienal (contains 90% cis and 10% trans)	557-48-2	Methanol	S-5163
2-Nitrodiphenylamine	119-75-5	Methanol	S-2717	Nonafluoro-1-butanefulfonic acid potassium salt	29420-49-3	Methanol	S-5316
4-Nitrodiphenylamine	836-30-6	Methanol	S-2716	Nonafluorobutane-1-sulfonic acid	375-73-5	Methanol	S-5713
Nitrofen	1836-75-5	Methanol	S-2720	n-Nonane	111-84-2	Methanol	S-2785
Nitrofen	1836-75-5	Acetone	S-2720-AC	1-Nonanol	143-08-8	Methanol	S-2790
Nitrogen (from Pyridine)	110-86-1	Methanol	S-2721C	2-Nonanone	821-55-6	Methanol	S-5094
Nitromethane	75-52-5	Methanol	S-2722	n-Nonatriacontane	7194-86-7	Methanol	S-4313
2-Nitrophenol	88-75-5	Methanol	S-2725	trans-2-Nonenal	18829-56-6	Methanol	S-4149
3-Nitrophenol	554-84-7	Methanol	S-2728	1-Nonene	124-11-8	Isooctane:Toluene	S-4211-IST
4-Nitrophenol	100-02-7	Methanol	S-2730	Nonyl aldehyde	124-19-6	Methanol	S-2794
4-Nitrophenol-methyl ester	N/A	Methanol	S-2729	4-n-Nonylphenol	104-40-5	Methanol	S-5074
4-Nitrophenol methyl ester	100-17-4	Methanol	S-2731	Nonylphenol	25154-52-3	Methylene Chloride	S-2795
1-Nitropropane	108-03-2	Methanol	S-2736	4-Nonylphenol (branched)	84852-15-3	Methanol	S-2795A
2-Nitropropane	79-46-9	Methanol	S-2732	Tris(nonylphenyl)phosphite	26523-78-4	Methylene Chloride	S-3498
1-Nitropyrene	5522-43-0	Methanol	S-2737	Norethindrone	68-22-4	Methanol	S-5071
4-Nitroquinoline-N-oxide	56-57-5	Methylene Chloride	S-2735	Norflurazon	27314-13-2	Acetone	S-2800
N-Nitrosoanabasine	37620-20-5	Methanol	S-2733	Norflurazon desmethyl	23576-24-1	Acetonitrile	S-5778-ACN
N-Nitrosoanatabine	71267-22-6	Methanol	S-2734	Nuarimol	63284-71-9	Methanol	S-4248
Nitrosobenzene	586-46-9	Methanol	S-2740				
N-Nitrosodi-n-butylamine	924-16-3	Methanol	S-2825				

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	Methanol	S-2837
Octachloronaphthalene	2234-13-1	Methylene Chloride:Hexane	S-4200
Octachlorostyrene	29082-74-4	Methylene Chloride	S-2840
Octachlorostyrene	29082-74-4	Toluene	S-2840-TOL
n-Octacosane	630-02-4	Methylene Chloride	S-2845
cis-9,trans-11-Octadecadienoic acid methyl ester	N/A	Methanol	S-5525
n-Octadecane	593-45-3	Methanol	S-2850
1-Octadecanol	112-92-5	Methanol	S-3942
Octadecene-1	112-88-9	Methanol	S-2855
2,2',3,3',5,5',6,6'-Octafluorobiphenyl	3883-86-1	Methanol	S-2860
Octafluoronaphthalene	313-72-4	Acetone	S-3863
Octafluorotoluene	434-64-0	Methanol	S-2861
Octamethylcyclotetrasiloxane	556-67-2	Methanol	S-2865
Octamethylpyrophosphoramidate	152-16-9	Acetone	S-3265
Octamethyltrisiloxane	107-51-7	Methanol	S-5942
n-Octane	111-65-9	Methanol	S-2870
Octanethiol	111-88-6	Methanol	S-4880
Octanoic acid	124-07-2	Methyl-tert-Butyl Ether	S-4114
1-Octanol	111-87-5	Methanol	S-2875
2-Octanol	4128-31-8	Methanol	S-2880
3-Octanol	20296-29-1	Methanol	S-5090
2-Octanone	113-13-7	Methanol	S-4234
3-Octanone	106-68-3	Methanol	S-2885
n-Octatriacontane	7194-85-6	Methanol	S-2886
trans-2-Octen-1-ol	18409-17-1	Methanol	S-2891
Octene-1	111-66-0	Methanol	S-2890
Octyl aldehyde	124-13-0	Methanol	S-2892
4-Octylphenol	1806-26-4	Methanol	S-4177
4-tert-Octylphenol	140-66-9	Methanol	S-4379
mono-Octyltin trichloride	3091-25-6	Methanol	S-4640
Ofurace	58810-48-3	Methanol	S-5286
Oleamide	301-02-0	Methanol	S-4621
Oleic acid	112-80-1	Methanol	S-3992
Omethoate	1113-02-6	Methanol	S-3864
Omethoate	1113-02-6	Ethyl Acetate	S-3864-EA
Omite	2312-35-8	Acetone	S-2895
Omite	2312-35-8	Acetonitrile	S-2895-ACN
Oryzalin	19044-88-3	Methanol	S-2900
Ovex	80-33-1	Methanol	S-2901
Oxadiargyl	39807-15-3	Methanol	S-5934
Oxadiazon	19666-30-9	Acetone	S-2912

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Oxadixyl	77732-09-3	Methanol	S-2903
Oxalacetic acid	328-42-7	Methanol	S-2902
Oxalic acid	144-62-7	Methanol	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
Oxychlorane	27304-13-8	Methanol	S-2910
Oxychlorane	27304-13-8	Toluene	S-2910-TOL
Oxydemeton-methyl	301-12-2	Acetonitrile	S-4828-ACN
Oxyfluorfen	42874-03-3	Acetone	S-2911
Oxyfluorfen	42874-03-3	Acetonitrile	S-2911-ACN
Paclobutrazol	76738-62-0	Acetone	S-4345
Palmitic acid	57-10-3	Methyl-tert-Butyl Ether	S-3993
Palmitoleic acid	373-49-9	Methanol	S-4231
D-Panose	33401-87-5	Methanol	S-5859
Paraformaldehyde	30525-89-4	Methanol	S-5512
Paraldehyde	123-63-7	Methanol	S-2913
Paraoxon	311-45-5	Acetone	S-2914
Paraoxon	311-45-5	Acetone	S-2921
Paraquat dichloride tetrahydrate	1910-42-5	Methanol	S-2915
Parathion	56-38-2	Methanol	S-2920
Pebulate	1114-71-2	Methanol	S-2925
Pefluorotridecanoic acid	72629-94-8	Methanol	S-5795
Penconazole	66246-88-6	Methanol	S-4267
Pencyuron	66063-05-6	Acetonitrile	S-5171
Pentabromophenyl ether	1163-19-5	Methanol	S-2926
2',3',4',5,5'-pentachloro-2-biphenylol	67651-36-9	Methanol	S-2938
Pentachloroaniline	527-20-8	Acetone	S-4783
2,3,4,5,6-Pentachloroanisole	1825-21-4	Methanol	S-2930
Pentachlorobenzene	608-93-5	Methanol	S-2935
Pentachlorobenzene	608-93-5	Acetone	S-2935-AC
2,2',3',4,6-Pentachlorobiphenyl	60233-25-2	Methanol	S-2937
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	Hexane	S-9101
Pentachloroethane	76-01-7	Methanol	S-2940
Pentachloronitrobenzene	82-68-8	Methanol	S-2945
Pentachlorophenol	87-86-5	Methanol	S-2950
Pentachlorophenol- ¹³ C ₆	85380-74-1	Methanol	S-4202
Pentachlorophenol methyl ester	1825-21-4	Methanol	S-2950A
Pentachlorophenyl acetate	1441-02-7	Methanol	S-5638
Pentachlorophenyl Sulfide	1825-19-0	Methanol	S-5505
2,3,4,5,6,-Pentachlorotoluene	877-11-2	Methylene Chloride	S-2952
n-Pentacontane	6596-40-3	CS ₂ & Pentane & Methylene Chloride	S-2953

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
n-Pentacosane	629-99-2	Methylene Chloride	S-2955	Perfluoropentanoic acid	2706-90-3	HPLC Water	S-5051
n-Pentadecane	629-62-9	Methanol	S-2960	Perfluorotetradecanoic acid	376-06-7	Methanol	S-5058
1-Pentadecanol	629-76-5	Methanol	S-5769	Perfluorotributylamine	311-89-7	Methanol	S-2997
1,3-Pentadiene (Piperylene)	504-60-9	Methanol	S-3914	Perfluoroundecanoic acid	2058-94-8	HPLC Water	S-5056
Pentaerythritol tetraacrylate	4986-89-4	Methanol	S-4109	cis-Permethrin	61949-76-6	Methanol	S-3001
Pentafluorobenzene	363-72-4	Methanol	S-2970	cis-Permethrin	61949-76-6	Acetone	S-3001-AC
Pentafluorophenol	771-61-9	Methanol	S-4047	trans-Permethrin	51877-74-8	Methanol	S-3003
Bis(pentafluorophenyl) phenylphosphine	5074-71-5	Methanol	S-1105	trans-Permethrin	51877-74-8	Acetone	S-3003-AC
Pentafluorophenylhydrazine	828-73-9	Methanol	S-2972	Permethrin (c=27%;t=72%)	52645-53-1	Acetone	S-3000
Pentamethylbenzene	700-12-9	Methanol	S-2973	trans-Permethrin (isomeric mix)	61949-77-7	Acetone	S-5732
Pentamethyldiethylenetriamine	3030-47-5	Methanol	S-4363	Perylene	198-55-0	Methylene Chloride	S-3005
1,5-Pentamethylenetetrazole	54-95-5	Acetone	S-5685	Perylene-d12	1520-96-3	Methylene Chloride	S-3010
n-Pentane	109-66-0	Methanol	S-2975	Petro-diesel	68334-30-5	Methanol	S-5704
1,2-Pentanediol	5343-92-0	Methanol	S-4953	Phenamiphos	22224-92-6	Methanol	S-3014
1,4-Pentanediol	626-95-9	Methanol	S-2965	Phenanthrene	85-01-8	Methylene Chloride	S-3015
1,5-Pentanediol	111-29-5	Methanol	S-2974	Phenanthrene-d10	1517-22-2	Methylene Chloride	S-3020
2,3-Pentanedione	600-14-6	Methanol	S-2966	Phenanthridine	229-87-8	Methanol	S-3025
2,4-Pentanedione	123-54-6	Methanol	S-4295	Phenanthridine	229-87-8	Methanol	S-3027
1-Pentanethiol	110-66-7	Methanol	S-3981	Phenol	108-95-2	Methanol	S-3030
1-Pentanol	71-41-0	Methanol	S-2980	Phenol	108-95-2	Deionized Water	S-3030-W
2-Pentanol	6032-29-7	Methanol	S-2985	Phenol-d5	4165-62-2	Methanol	S-4195
3-Pentanol	584-02-1	Methanol	S-2987	Phenol-d6	13127-88-3	Methanol	S-3035
2-Pentanone	107-87-9	Methanol	S-2986	p-Phenolsulfonic acid	1333-39-7	Methanol	S-3036
3-Pentanone	96-22-0	Methanol	S-3932	Phenothiazine	92-84-2	MMethanol	S-3040
n-Pentatriacontane	630-07-9	Hexane	S-2990	d-(cis-trans)-Phenothrin	26002-80-2	Acetone	S-3041
1-Pentene	109-67-1	Methanol	S-2995	Phenoxyacetic acid	122-59-8	Methanol	S-4934
cis-2-Pentene	627-20-3	Methanol	S-4259	3-Phenoxybenzoic acid	3739-38-6	Hexane:Methylene Chloride	S-5946-H
trans-2-Pentene	646-04-8	Methanol	S-4257	4-Phenoxybutyric acid	6303-58-8	Methanol	S-4926
2-Pentylfuran	3777-69-3	Methanol	S-5623	2-Phenoxyethanol	122-99-6	Methanol	S-3045
Pentyl acetate	628-63-7	Methanol	S-2976	2-Phenoxypropionic acid	940-31-8	Methanol	S-4925
tert-Pentylbenzene	2049-95-8	Methanol	S-676	3-Phenoxypropionic acid	7170-38-9	Methanol	S-5720
Pentylcyclohexane	38792-89-1	Methanol	S-4816	Phentermine HCL	1197-21-3	Methanol	S-3898
Perchloric acid	7601-90-3	Methanol	S-4903	Phenthoate	2597-03-7	Methanol	S-4250
Perfluoro-1-decane sulfonate	13419-61-9	Methanol	S-5841	1-Phenyl-2-thiourea	103-85-5	Methanol	S-3077
Perfluorodecanoic acid	335-76-2	HPLC Water	S-5055	2-Phenyl-2-propanol	617-94-7	Methanol	S-3076
Perfluorododecanoic acid	307-55-1	HPLC Water	S-5057	Phenyl acetate	122-79-2	Methanol	S-3046
Perfluoroheptanoic acid	375-85-9	Methanol	S-5053	Phenyl ether	101-84-8	Methanol	S-3055
Perfluorohexadecanoic acid	67905-19-5	Methanol	S-5796	Phenyl Isocyanate	103-71-9	Methylene Chloride	S-4504
Perfluorohexanoic acid	307-24-4	HPLC Water	S-5052	Phenyl Isothiocyanate	103-72-0	Methanol	S-4505
Perfluorononanoic acid	375-95-1	Methanol	S-5054	Phenyl tin trichloride	1124-19-2	Methanol	S-4978
Perfluorooctadecanoic acid	16517-11-6	Methanol	S-5797	Phenylacetaldehyde	122-78-1	Methanol	S-3062
Perfluorooctanesulfonic acid	1763-23-1	Methanol	S-5059	Phenylacetylene	536-74-3	Methanol	S-3866
Perfluorooctanoic acid	335-67-1	Methanol	S-4460-MEOH	Phenylarsonic acid	98-05-5	Methanol	S-3989

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
4-Phenylazoaniline	60-09-3	Methanol	S-3065
4-Phenylazophenol	1689-82-3	Methanol	S-4549
Phenylboric acid	98-80-6	Methanol	S-3050
4-Phenylcyclohexene	4994-16-5	Methanol	S-5137
1-Phenyldodecane	123-01-3	Methanol	S-3933
1,2-Phenylene diamine	95-54-5	Methanol	S-3071
1,3-Phenylenediamine	108-45-2	Methanol	S-3072
p-Phenylenediamine	106-50-3	Methanol	S-3070
1-Phenylheptane	1078-71-3	Methanol	S-3051
1-Phenylhexane	1077-16-3	Methanol	S-3052
1-Phenylnonane	1081-77-2	Methanol	S-3054
1-Phenyloctane	2189-60-8	Methanol	S-3053
2-Phenylphenol	90-43-7	Methanol	S-3075
2-Phenylphenol	90-43-7	Acetonitrile	S-3075-ACN
4-Phenylphenol	92-69-3	Methanol	S-3060
1-Phenyltridecane	123-02-4	Methanol	S-3934
Phorate	298-02-2	Methanol	S-3080
Phorate	298-02-2	Acetone	S-3080-AC
Phorate oxon	2600-69-3	Toluene	S-4181
Phorate oxon (NM)	2600-69-3	Acetonitrile	S-5784-ACN
Phorate sulfone	2588-04-7	Methanol	S-4256
Phorate sulfoxide	2588-04-7	Methanol	S-5777
Phorate sulfoxide	2588-04-7	Acetone	S-5777-AC
Phorate sulfoxide	2588-04-7	Acetonitrile	S-5777-ACN
Phosalone	2310-17-0	Methanol	S-3085
Phosalone	2310-17-0	Acetone	S-3085-AC
Phosphamidon(37.6% E; 62.2% Z)	13171-21-6	Methanol	S-3090
Phosphamidon(37.6% E; 62.2% Z)	13171-21-6	Acetone	S-3090-AC
Phoxim	14816-18-3	Acetonitrile	S-4689
Phthalic acid	88-99-3	Methanol	S-3095
Phthalic acid bis (2-methoxyethyl)ester	117-82-8	Methanol	S-3867
Phthalic acid di-n-amyl ester	131-18-0	Methanol	S-3868
Phthalic acid diisobutyl ester	84-69-5	Methanol	S-3869
Phthalic acid dinonyl ester	84-76-4	Methanol	S-3870
Phthalic acid, n-pentyl-isopentyl ester (mixture of isomers)	84777-06-0	Hexane	S-6147
Phthalic acid, n-pentyl-isopentyl ester (mixture of isomers)	84777-06-0	Hexane	S-6147-H
Phthalic anhydride	85-44-9	Methanol	S-3100
Phthalide	87-41-2	Methanol	S-3101
Phthalimide	85-41-6	Acetone	S-5766
Phytane	638-36-8	Methylene Chloride	S-3105
Picene	213-46-7	Methanol	S-3923
Picloram	1918-02-1	Methanol	S-3110

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Picloram methyl ester	14143-55-6	Methanol	S-3110A
2-Picoline	109-06-8	Methanol	S-3115
3-Picoline	108-99-6	Methanol	S-4015
4-Picoline	108-89-4	Methanol	S-4014
3-Picolyl chloride hydrochloride	6959-48-4	Methanol	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
Pinacolyl methylphosphonic acid	616-52-4	Methanol	S-4495
a-Pinene	80-56-8	Methanol	S-4172
beta-Pinene	127-91-3	Methanol	S-3142
Piperazine	110-85-0	Methanol	S-3114
Piperonyl butoxide	51-03-6	Methanol	S-3117
Pirimicarb	23103-98-2	Methanol	S-3118
Pirimphos-ethyl	23505-41-1	Methanol	S-3120
Pirimphos-methyl	29232-93-7	Methanol	S-3119
Plifenate	21757-82-4	Acetonitrile	S-6420
Plifenate	21757-82-4	Ethyl Acetate	S-6420-EA
Poly(bisphenol A carbonate)	25037-45-0	Methanol	S-5734
Poly(propylene glycol) - 1000	25322-69-4	Methanol	S-3131
Poly(propylene glycol) - 2000	25322-69-4	Methanol	S-3131
Poly(propylene glycol) - 2700	25322-69-4	Methanol	S-5485
Poly(propylene glycol) - 3300	9003-11-6	Methanol	S-5484
Poly(propylene glycol) - 425	25322-69-4	Methanol	S-5486
Polyethylene glycol - 1000	25322-68-3	Methanol	S-3129
Polyethylene glycol - 200	25322-68-3	Methanol	S-3126
Polyethylene glycol - 400	25322-68-3	Methanol	S-3127
Polyethylene glycol - 600	25322-68-3	Methanol	S-3128
Potassium hydroxide	1310-58-3	Methanol	S-3123
Potassium sorbate	24634-61-5	Methanol	S-5786
Potassium sorbate	24634-61-5	HPLC Water	S-5786-HPLC
Prallethrin (mix of isomers)	23031-36-9	Methanol	S-5783
Prallethrin (mix of isomers)	23031-36-9	Acetonitrile	S-5783-ACN
Prochloraz	67747-09-5	Methanol	S-4268
Procymidon	32809-16-8	Methanol	S-3871
Profenofos	41198-08-7	Methanol	S-3134
Profenofos	41198-08-7	Acetone	S-3134-AC
Profluralin	26399-36-0	Methanol	S-3132
Profluralin	26399-36-0	Acetone	S-3132-AC
Profluralin	26399-36-0	Acetonitrile	S-3132-ACN
Progesterone	57-83-0	Methanol	S-5543
Promecarb	2631-37-0	Methanol	S-3133
Prometon	1610-18-0	Acetone	S-3130

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Prometryne	7287-19-6	Methanol	S-3135
Propachlor	1918-16-7	Acetone	S-3140
Propamocarb	24579-73-5	Methanol	S-5468
Propamocarb HCl	25606-41-1	Methanol	S-4690
Propane	74-98-6	Methanol	S-3145
1,2-Propanediol	57-55-6	Methanol	S-3147
1,3-Propanediol	504-63-2	Methanol	S-5187
1-Propanethiol	107-03-9	Methanol	S-3152
2-Propanethiol	75-33-2	Methanol	S-3151
Propanil	709-98-8	Methanol	S-3155
Propanil	709-98-8	Acetone	S-3155-AC
Propanoic acid methyl ester	554-12-1	Methanol	S-5678
1-Propanol	71-23-8	Methanol	S-3160
2-Propanol	67-63-0	Methanol	S-3165
Propargyl alcohol	107-19-7	Methanol	S-3169
Propazine	139-40-2	Methanol	S-3170
Propene	115-07-1	Methanol	S-3175
Propham	122-42-9	Methanol	S-3180
Prophos	13194-48-4	Acetone	S-3185
Propiconazole (tilt)	60207-90-1	Acetone	S-3186
Propineb	12071-83-9	Methanol	S-4691
beta-Propiolactone	57-57-8	Methanol	S-3187
Propionaldehyde	123-38-6	Methanol	S-3190
Propionaldehyde-2,4-DNPH	725-00-8	Methanol	S-5759
Propionic acid	79-09-4	Deionized Water	S-3192
Propionic acid n-butyl ester	590-01-2	Methanol	S-5310
Propionitrile	107-12-0	Methanol	S-3195
Propyl acetate	109-60-4	Methanol	S-3204
Propyl alcohol-1,1-d2	40422-04-6	Methanol	S-3161
Propyl disulfide	629-19-6	Methanol	S-3201
Propyl ether	111-43-3	Methanol	S-3909
Propyl gallate	121-79-9	Methanol	S-5142
Propyl paraben	94-13-3	Methanol	S-3202
Propyl sulfide	111-47-7	Methanol	S-3203
Propylamine	107-10-8	Methanol	S-3205
n-Propylbenzene	103-65-1	Methanol	S-3210
n-Propylbutylnitrosamine	25413-64-3	Methanol	S-3940
Propylene dichloride	78-87-5	Methanol	S-3211
Propylene glycol	57-55-6	Methanol	S-3212
Propylene glycol methyl ether acetate	108-65-6	Methanol	S-3213
Propylene glycol monolaurate	27194-74-7	Methanol	S-4447
Propylene glycol propyl ether	1569-01-3	Methanol	S-4450
Propylene oxide	75-56-9	Methanol	S-3214

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Propylene oxide	75-56-9	Heptane	S-3214-H
2-n-Propylfuran	4229-91-8	Methanol	S-5625
n-Propylparaben	94-13-3	Methanol	S-3202A
2-n-Propylphenol	644-35-9	Methanol	S-4301
Propyzamide	23950-58-5	Methanol	S-3220
Propyzamide	23950-58-5	Acetone	S-3220-AC
Prosulfocarb	52888-80-9	Methanol	S-3223
Prosulfuron	94125-34-5	Methanol	S-4999
Prowl (Pendimethalin)	40487-42-1	Methanol	S-3230
Prowl (Pendimethalin)	40487-42-1	Acetone	S-3230-AC
(+)- Pulegone	89-82-7	Methanol	S-5136
Pymetrozin	123312-89-0	Acetonitrile	S-4967
Pyraclostrobin	175013-18-0	Methanol	S-4968
Pyraflufen-ethyl	129630-19-9	Acetone	S-6024-AC
Pyrazon	1698-60-8	Methanol	S-786
Pyrazophos	13457-18-6	Methanol	S-3234
Pyrene	129-00-0	Methylene Chloride	S-3235
Pyrene-d10	1718-52-1	Methanol	S-3236
Pyrethrins (mix of isomers)	8003-34-7	Methanol	S-5506
Pyrethrins (mix of isomers)	8003-34-7	Acetone	S-5506-AC
Pyrethrins (mix of isomers)	8003-34-7	Acetonitrile	S-5506-ACN
Pyrethrins (mix of isomers)	8003-34-7	Isooctane	S-5506-ISO
Pyrethrum analytical stds.	121-21-1	Methanol	S-3872
Pyrethrum extract or pyrethrin II	8003-34-7	Methanol	S-3872A
Pyridaben	96489-71-3	Methanol	S-5779
Pyridaben	96489-71-3	Acetone	S-5779-AC
Pyridaben	96489-71-3	Acetonitrile	S-5779-ACN
Pyridine	110-86-1	Methanol	S-3240
Pyridine-d5	7291-22-7	Methanol	S-3937
Pyrifenox	88283-41-4	Methanol	S-5291
Pyrimethanil	53112-28-0	Methanol	S-5225
Pyriproxifen	95737-68-1	Acetonitrile	S-4969
Pyruvic acid	127-17-3	Deionized Water	S-3242
Pyruvic aldehyde	78-98-8	Methanol	S-3243
Quinalphos	13593-03-8	Acetone	S-3246
Quindlorac	84087-01-4	Methanol	S-3950
Quinine sulfate monohydrate	6119-70-6	Methanol	S-3904
Quinmerac	90717-03-6	Methanol	S-4938
Quinoline	91-22-5	Methanol	S-3245
Quinoline	91-22-5	Methylene Chloride	S-3245-MC
Quinoline d7	34071-94-8	Methanol	S-4310
Quinomethionate	2439-01-2	Methanol	S-3247
Quizalofop	76578-12-6	Methanol	S-3988

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Quizalofop-ethyl	76578-14-8	Acetonitrile	S-5293	Sorbic acid	110-44-1	Methyl-tert-Butyl Ether	S-5749
Quizalofop-p-ethyl	100646-51-3	Acetonitrile	S-5037	Sorbitol	50-70-4	Methanol	S-4347
RDX	121-82-4	Acetonitrile:Methanol	S-3251	Spinosad	131929-60-7	Methanol	S-5672
Regular unleaded gas-87octane	86290-81-5	Methanol	S-3873	Spirotetramat	203313-25-1	Acetonitrile	S-5873
Renin	20845-02-7	Acetonitrile	S-5472	Spiroxamine	118134-30-8	Methanol	S-5469
Reserpine	50-55-5	Methanol:Acetone	S-3249	Stearic acid	57-11-4	Methyl-tert-Butyl Ether	S-3299
Resmethrin	10453-86-8	Acetone	S-3252	Stoddard solvent	8052-41-3	Acetone	S-5165
Resorcinol	108-46-3	Methanol	S-3250	Strobane (TM)	8001-50-1	Methanol	S-4360
Retene	483-65-8	Methanol	S-4436	Strychnine	57-24-9	Methanol	S-3295
Rhodanine	141-84-4	Methanol	S-5565	Styrene	100-42-5	Methanol	S-3300
Ribitol(andonitol)	488-81-3	Methanol	S-4190	Styrene-7,8-Oxide	96-09-3	Methanol	S-5103
Rimsulfuron	122931-48-0	Methanol	S-4834	Succinic acid	110-15-6	Deionized Water	S-3301
Rotenone	83-79-4	Methanol	S-3248	Sucrose	57-50-1	Methanol	S-3308
Rubidium iodide	7790-29-6	HPLC Water	S-4843	Sucrose	57-50-1	HPLC Water	S-3308-W
Safrole	94-59-7	Methanol	S-3255	Sulcofuron-sodium Monohydrate	3567-25-7	Methanol	S-5132
Safrotin	31218-83-4	Methanol	S-3260	Sulcotrione	99105-77-8	Methanol	S-4977
Salicylic acid	69-72-7	Methanol	S-5572	Sulfachloropyridazine	80-32-0	Methanol	S-4600
Sanmarton	51630-58-1	Acetone	S-3261	Sulfadiazine	68-35-9	Methanol	S-4598
Sanmarton	51630-58-1	Acetonitrile	S-3261-ACN	Sulfadimethoxine	122-11-2	Methanol	S-4589
Sebacic acid	111-20-6	Methanol	S-5595	Sulfadimidine	57-68-1	Methanol	S-4587
Sebutylazine	7286-69-3	Methanol	S-4003	Sulfaguandine	57-67-0	Methanol	S-4586
Secbumeton	26259-45-0	Methanol	S-4270	Sulfamerazine	127-79-7	Methanol	S-4596
Sethoxydim	74051-80-2	Acetone	S-3266	Sulfamethoxazole	723-46-6	Methanol	S-4535
Sethoxydim	74051-80-2	Acetonitrile	S-3266-ACN	Sulfometuron-methyl	74222-97-2	Methanol	S-3302
Siduron	1982-49-6	Methanol	S-3279	Sulfosulfuron	141776-32-1	Methanol	S-4997
sigma-Caprolactam	105-60-2	Methanol	S-3890	Sulfur	7704-34-9	Methylene Chloride	S-3875
Silvex	93-72-1	Methyl-tert-Butyl Ether	S-3660	Sulfur (from benzyl mercaptan)	100-53-8	Methanol	S-5669A
Silvex methyl ester	4841-20-7	Methanol	S-3270	Sulfur (from dibenzothiophene)	7704-34-9	Methanol	S-3875B
Simazine	122-34-9	Acetone	S-3280	Sulfur (from thiophene)	7704-34-9	Methanol	S-5478
Simetryn	1041-70-6	Methanol	S-3285	Sulfur dioxide	7446-09-5	Methanol	S-4040
beta-Sitosterol	83-46-5	Methanol	S-4676	Sulfur hexafluoride	2551-62-4	Methanol	S-4000
Sodium alkyl aryl sulfonate	68037-49-0	Methanol	S-5111	Sulfur trioxide	7446-11-9	Methanol	S-3855
Sodium azide	26628-22-8	Methanol	S-5706	Sulprofos	35400-43-2	Methanol	S-3305
Sodium benzoate	532-32-1	Methanol	S-3286	Sulprofos	35400-43-2	Acetone	S-3305-AC
Sodium chlorate	7775-09-9	Methanol	S-3281	Sulprofos-sulfoxide	N/A	Methanol	S-4557
Sodium citrate dihydrate	6132-04-3	Methanol	S-3288	Super unleaded gasoline 92 octane	N/A	Methanol	S-3917
Sodium fluoroacetate	62-74-8	Deionized Water	S-3291	Systhane	88671-89-0	Acetone	S-3306
Sodium Iodide	7681-82-5	HPLC Water	S-4842	2,4,5-T methyl ester	1928-36-6	Methanol	S-3664
Sodium linear alkylbenzene sulfonate	68081-81-2	Methanol	S-5108	L-Tartaric acid	87-69-4	Acetonitrile	S-5644
Sodium sulfide nonahydrate	1313-84-4	Methanol	S-3998	Taurine	107-35-7	HPLC Water	S-5608
Sodium tetraborate decahydrate	1303-96-4	Methanol	S-5201	Taurocholic acid	345909-26-4	Acetonitrile	S-5473
Sodium xylene sulfonate	1300-72-7	Methanol	S-5110	TCMTB	21564-17-0	Methanol	S-3359
Sonar/Flouridone	59756-60-4	Methanol	S-3290	Tebufenpyrad	119168-77-3	Methanol	S-5226

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Tebupirimphos	96182-53-5	Acetone	S-4317	2,3,5,6-Tetrachloroaniline	3481-20-7	Methanol	S-4924
Tebuthiuron	34014-18-1	Acetone	S-3310	2,3,4,6-Tetrachloroanisole	938-22-7	Methanol	S-3405B
Teflubenzuron	83121-18-0	Acetone	S-5458	2,3,5,6-Tetrachloroanisole	6936-40-9	Methanol	S-4465
Tefluthrin	79538-32-2	Methanol	S-4281	1,2,3,4-Tetrachlorobenzene	634-66-2	Methanol	S-3370
Tefluthrin	79538-32-2	Acetone	S-4281-AC	1,2,3,5-Tetrachlorobenzene	634-90-2	Methanol	S-3375
Telodrin (isobenzan)	297-78-9	Methanol	S-5460	1,2,4,5-Tetrachlorobenzene	95-94-3	Methanol	S-3380
TEPP	107-49-3	Methanol	S-3315	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	Methanol	S-3382
Terbacil	5902-51-2	Methanol	S-3320	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	Hexane	S-9052
Terbacil	5902-51-2	Acetone	S-3320-AC	1,1,1,2-Tetrachloroethane	630-20-6	Methanol	S-3385
Terbucarb	1918-11-2	Methanol	S-4344	1,1,2,2-Tetrachloroethane	79-34-5	Methanol	S-3390
Terbufos	13071-79-9	Methanol	S-3325	Tetrachloroethene	127-18-4	Methanol	S-3395
Terbufos sulfone	56070-16-7	Methanol	S-4369	2,3,4,5-Tetrachlorophenol	4901-51-3	Methanol	S-3400
Terbumeton	33693-04-8	Methanol	S-4292	2,3,4,6-Tetrachlorophenol	58-90-2	Methanol	S-3405
Terbutylazine	5915-41-3	Methanol	S-3330	2,3,5,6-Tetrachlorophenol	935-95-5	Methanol	S-3410
Terbutylazine-desethyl	30125-63-4	Acetonitrile	S-5591	Bis(2,3,3,3-tetrachloropropyl) ether (S421)	127-90-2	Methanol	S-5916
Terbutryne	886-50-0	Methanol	S-3335	Tetrachloroterephthalate	2136-79-0	Acetone	S-1067
Tergitol-NP10	127087-87-0	Methanol	S-5790	Tetrachloroterephthalate-MEO	2163-79-0	Methanol	S-1067A
Tergitol-NP7	127087-87-0	Methanol	S-5792	2,3,5,6-Tetrachloroethoxyanisole	68671-90-9	Methanol	S-4940
Tergitol-NP9	127087-87-0	Methanol	S-5791	a,a-2,6-Tetrachlorotoluene	81-19-6	Methanol	S-5209
m-Terphenyl	92-06-8	Methanol	S-3340	Tetrachlorvinphos	961-11-5	Acetone	S-3425
o-Terphenyl	84-15-1	Methanol	S-3345	n-Tetracontane	4181-95-7	Hexane	S-3430
p-Terphenyl	92-94-4	Methylene Chloride	S-3350	n-Tetracosane	646-31-1	1,1,2-Trichlorotrifluoroethane	S-3435
p-Terphenyl-d14	1718-51-0	Methylene Chloride	S-3355	n-Tetracosane-d50	16416-32-3	Methanol	S-3436
alpha-Terpinene	99-86-5	MMethanol	S-5687	n-Tetradecane	629-59-4	Methylene Chloride	S-3440
gamma-Terpinene	99-85-4	Methanol	S-5688	1-Tetradecanol	112-72-1	Methanol	S-3943
4-Terpineol	562-74-3	Methanol	S-5693	Tetradecene-1	1120-36-1	Methanol	S-3445
alpha-Terpineol	98-55-5	Methanol	S-4145	Tetradifon	116-29-0	Methanol	S-3450
Terpinolene	586-62-9	Methanol	S-5689	Tetradifon	116-29-0	Acetone	S-3450-AC
Terrazole	2593-15-9	Methanol	S-3360	Tetraethyl lead	78-10-4	Methanol	S-4871
Terrazole	2593-15-9	Acetonitrile	S-3360-ACN	Tetraethyl orthosilicate	78-10-4	Methanol	S-3456
Tetrabromo bisphenol A	79-94-7	Methanol	S-4311	Tetraethyldithio pyrophosphate/sulfotep	3689-24-5	Methanol	S-3455
1,2,4,5-Tetrabromobenzene	636-28-2	Methanol	S-3367	Tetraethylene glycol	112-60-7	Methanol	S-3457
2,2',5,5'-Tetrabromobiphenyl	59080-37-4	Methanol	S-4144	1,1,1,2-Tetrafluoroethane	811-97-2	Methanol	S-3386
2,2',4,4'-Tetrabromodiphenyl ether	5436-43-1	Methanol	S-4376	Tetrahydrofuran	109-99-9	Methanol	S-3460
1,1,2,2-Tetrabromoethane	79-27-6	Methanol	S-4100	Tetrahydrofuran-d8	1693-74-9	Methanol	S-3461
3',3'',5',5''-Tetrabromophenol-phthalein ethyl ester	1176-74-5	Methanol	S-4296	1,2,3,4-Tetrahydronaphthalene	119-64-2	Methanol	S-3464
Tetrabutylammonium hydrogen sulfate	32503-27-8	Methanol	S-3876	1,2,3,6-Tetrahydrophthalimide	85-40-5	Methanol	S-5771
Tetrabutyltin	1461-25-2	Methanol	S-4639	1,2,3,6-Tetrahydrophthalimide	85-40-5	Acetonitrile	S-5771-ACN
1,2,4,5-Tetrachloro-3-nitrobenzene	117-18-0	Methanol	S-3415	Tetrahydropyran	142-68-7	Methanol	S-3465
2',3',4',5'-Tetrachloro-4-biphenylol	67651-34-7	Methanol	S-3384	Tetrahydrothiophene	110-01-0	Methanol	S-3470
2,4,5,6-Tetrachloro-m-xylene	877-09-8	Acetone	S-3420	Tetramethrin	7696-12-0	Methanol	S-4251
3,3',5,5'-Tetrachloro-4,4'-biphenyldiol	13049-13-3	Methanol	S-3387	Tetramethrin	7696-12-0	Acetone	S-4251-AC

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Tetramethyl urea	632-22-4	Methanol	S-4872
Tetramethylammonium hydroxide	75-59-2	Methanol	S-3476
1,2,3,4-Tetramethylbenzene	488-23-3	Methanol	S-3472
1,2,3,5-Tetramethylbenzene	527-53-7	Methanol	S-3473
1,2,4,5-Tetramethylbenzene	95-93-2	Methanol	S-3475
Tetramethylene sulfone	126-33-0	Methanol	S-3877
2,6,11,15-Tetramethylhexadecane	504-44-9	Methanol	S-3477
2,6,10,14-Tetramethylpentadecane	1921-70-6	Methylene Chloride	S-3125
Tetranitromethane	509-14-8	Methanol	S-4858
Tetraphenyltin	595-90-4	Methanol	S-4980
Tetrapropylene glycol	30242-05-8	Methanol	S-3471
Tetrasul	2227-13-6	Methanol	S-4252
n-Tetratetracontane	7098-22-8	Methylene Chloride	S-3480
n-Tetratriacontane	14167-59-0	Methylene Chloride	S-3485
Tetryl	479-45-8	Methanol	S-3478
Theobromine	83-67-0	Acetonitrile	S-5952
Theophylline	58-55-9	Acetonitrile	S-5953
Thiabendazole	148-79-8	Methanol	S-3490
Thiacloprid	111988-49-9	Acetonitrile	S-5723
Thiamethoxam	153719-23-4	Acetonitrile	S-5173
Thiazolidine	504-78-9	Methanol	S-3489
Thidiazuron	51707-55-2	Methanol	S-3978
Thifensulfuron-methyl	79277-27-3	Methanol	S-4994
Thioacetamide	62-55-5	Methanol	S-3491
4,4'-Thiobisbenzeneamine	139-65-1	Methanol	S-4475
Thiodicarb	59669-26-0	Methanol	S-3493
Thiodicarb	59669-26-0	Acetonitrile	S-3493-ACN
Thiodiglycol	111-48-8	Acetonitrile:Methanol	S-4010
Thiofanox	39196-18-4	Methanol	S-3492
Thiometon	640-15-3	Methanol	S-4693
Thionazin-o-analog	7359-55-9	Methanol	S-4786
Thionazin (zinophos)	297-97-2	Methanol	S-3850A
Thionazin (zinophos)	297-97-2	Acetone	S-3850A-AC
Thiophanate-methyl	23564-05-8	Methanol	S-3494
Thiophene	110-02-1	Methanol	S-3496
Thiophenol	108-98-5	Methanol	S-3495
2-Thiouracil	141-90-2	Methanol	S-3497
Thiourea	62-56-6	Methanol	S-4299
Thiram	137-26-8	Methanol	S-3499
Tiocarbazil	36756-79-3	Tetrahydrofuran	S-5918
TNT	118-96-7	Methanol	S-3501
Tokuthion/prothiophos	34643-46-4	Acetone	S-3225
Tolclofos-methyl	57018-04-9	Methanol	S-4835
o-Tolidine	119-93-7	Methylene Chloride	S-3500

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
m-Tolualdehyde	620-23-5	Methanol	S-3514
o-Tolualdehyde	529-20-4	Methanol	S-3346
p-Tolualdehyde	104-87-0	Methanol	S-3524
Toluene	108-88-3	Methanol	S-3505
Toluene-2,4-diisocyanate	584-84-9	Methanol	S-3530
Toluene-d8	2037-26-5	Methanol	S-3510
Toluene-d8	2037-26-5	Isooctane	S-3510-ISO
m-Toluidine	108-44-1	Methanol	S-3515
o-Toluidine	95-53-4	Methanol	S-3520
p-Toluidine	106-49-0	Methanol	S-3525-5K
o-Toluidine HCl	636-21-5	Methanol	S-3526
Tolyfluand	731-27-1	Methanol	S-3531
Tolylene-2,6-diisocyanate	91-08-7	Methylene Chloride	S-5870
Tolytriazole	29385-43-1	Methanol	S-5596
Total xylenes	1330-20-7	Methanol	S-3841
Toxaphene	8001-35-2	Hexane	S-3535
2,4,5 TP (Silvex)	93-72-1	Methanol	S-3275
Tralkoxydim	87820-88-0	Methanol	S-5470
Tralomethrin	66841-25-6	Methanol	S-4965
Tralomethrin	66841-25-6	Acetone	S-4965-AC
Transfluthrin	118712-89-3	Acetonitrile	S-6375
Transformer oil	N/A	Methanol	S-3878
2,4,6-Tri-tert-butylphenol	732-26-3	Methanol	S-4037
Tri-allate	2303-17-5	Methanol	S-3550
Tri-n-propyltin chloride	2279-76-7	Methanol	S-5516
Tri-o-cresyl phosphate	78-30-8	Methanol	S-4361
Tri(Propylene glycol)diacrylate	42978-66-5	Methanol	S-4104
n-Triacontane	638-68-6	Methylene Chloride	S-3540
Triadimefon	43121-43-3	Methanol	S-3545
Triadimefon	43121-43-3	Acetone	S-3545-AC
Triasulfuron	82097-50-5	Methanol	S-5003
S-Triazine	290-87-9	Methanol	S-5793
Triazophos	24017-47-8	Methanol	S-4160
Triazophos	24017-47-8	Acetonitrile	S-4160-ACN
Tribenuron-methyl	101200-48-0	Methanol	S-4998
Tribromoacetic acid	75-96-7	Methanol	S-3879
Tribromoacetic acid	75-96-7	Methyl-tert-Butyl Ether	S-3879-MTBE
2,4,6-Tribromoanisole	607-99-8	Methanol	S-4309
2,4,6-Tribromoanisole-d5	1219795-33-1	Methanol	S-4335
1,3,5-Tribromobenzene	626-39-1	Methanol	S-3552
2,4,6-Tribromophenol-3,5-d2	1219795-42-2	Methanol	S-5718
2,4,6-Tribromophenol	118-79-6	Methanol	S-3555
2,4,6-Tribromophenol Acetate	607-95-4	Hexane	S-6608-HEX
2,4,6-Trichlorophenol Acetate	23399-90-8	Hexane	S-6607-HEX

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Tributyl phosphate	126-73-8	Methanol	S-3560
Tributylamine	102-82-9	Methanol	S-3556
Tributylphosphoro-trithioite	150-50-5	Acetone	S-3565
S,S,S-Tributylphosphorotrithioate	78-48-8	Methanol	S-3564
Tributyltin chloride	1461-22-9	Acetone	S-4638
Tributyltin hydride	688-73-3	Methanol	S-4418
Tricaprin	621-71-6	Methanol	S-4390
1,1,1-Trichloro-2,2,2-trifluoroethane	354-58-5	Methanol	S-4820
1,1,2-Trichloro-1-fluoroethane	811-95-0	Methanol	S-3617
3,5,6-Trichloro-2-pyridinol	6515-38-4	Methanol	S-3666
3,5,6-Trichloro-2-pyridinyloxyacetic acid, n-butoxyethyl ester (Triclopyr)	55335-06-3	Methanol	S-3677
Trichloroacetic acid	76-03-9	Methyl-tert-Butyl Ether	S-3575
1,1,1-Trichloroacetone	918-00-3	Methanol	S-3577
Trichloroacetonitrile	545-06-2	Methanol	S-3579
2,4,5-Trichloroaniline	636-30-6	Acetonitrile	S-5082
2,3,4-Trichloroanisole	54135-80-7	Methanol	S-3584
2,3,5-Trichloroanisole	54135-81-8	Methanol	S-3581
2,3,6-Trichloroanisole	50375-10-5	Methanol	S-3582
2,4,5-Trichloroanisole	6130-75-2	Methanol	S-3578
2,4,6-Trichloroanisole	87-40-1	Methanol	S-3586
2,4,6-Trichloroanisole-d5	352439-08-8	Methanol	S-4336
3,4,5-Trichloroanisole	54135-82-9	Methanol	S-3583
1,2,3-Trichlorobenzene	87-61-6	Methanol	S-3580
1,2,4-Trichlorobenzene	120-82-1	Methanol	S-3585
1,3,5-Trichlorobenzene	108-70-3	Methanol	S-3590
1,3,5-Trichlorobenzene-d3	1198-60-3	Methanol	S-3591
2,3,5-Trichlorobenzoic acid	50-73-7	Methanol	S-3595
2,3,6-Trichlorobenzoic acid	50-31-7	Methanol	S-3965
2,4,5-Trichlorobiphenyl	15862-07-4	Methanol	S-3602
2,4',6-Trichlorobiphenyl	38444-77-4	Methanol	S-3600
1,1,1-Trichloroethane	71-55-6	Methanol	S-3605
1,1,1-Trichloroethane-2,2,2-d3	2747-58-2	Methanol	S-3606
1,1,2-Trichloroethane	79-00-5	Methanol	S-3610
Trichloroethene	79-01-6	Methanol	S-3615
Trichlorofluoromethane	75-69-4	Methanol	S-3620
Trichloronate	327-98-0	Acetone	S-3570
2,3,4-Trichlorophenol	15950-66-0	Methanol	S-3625
2,3,5-Trichlorophenol	933-78-8	Methanol	S-3630
2,3,6-Trichlorophenol	933-75-5	Methanol	S-3635
2,4,5-Trichlorophenol	95-95-4	Methanol	S-3640
2,4,6-Trichlorophenol	88-06-2	Methanol	S-3645
2,4,6-Trichlorophenol-3,5-d2	93951-80-5	Methanol	S-5717
3,4,5-Trichlorophenol	609-19-8	Methanol	S-3647

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
2,4,5-Trichlorophenoxy acetic acid	93-76-5	Methyl-tert-Butyl Ether	S-3655
2,4,5-Trichlorophenoxy acetic acid methyl ester	1928-37-6	Methanol	S-3650
1,2,3-Trichloropropane	96-18-4	Methanol	S-3665
1,2,3-Trichloropropane	96-18-4	Methyl-tert-Butyl Ether	S-3665-MTBE
2,3,6-Trichlorotoluene	2077-46-5	Methanol	S-3930
2,4,5-Trichlorotoluene	6639-30-1	Methanol	S-3670
α,2,6-Trichlorotoluene	2014-83-7	Methanol	S-3672
α,α,α-Trichlorotoluene	98-07-7	Methanol	S-3674
1,1,2-Trichlorotrifluoroethane	76-13-1	Methanol	S-3675
Triclopyr	55335-06-3	Methanol	S-3680
Triclosan	3380-34-5	Methanol	S-4382
n-Tricosane	638-67-5	Methylene Chloride	S-3685
Tricresyl phosphate	1330-78-5	Methanol	S-3880
Tricyclohexyltin chloride	3091-32-5	Methanol	S-4643
Tricyclohexyltin hydroxide	13121-70-5	Methanol	S-3687
Tridecafluorohexane-1-sulfonic acid potassium salt	3871-99-6	Methanol	S-5317
n-Tridecane	629-50-5	Methanol	S-3690
1-Tridecanol	112-70-9	Methanol	S-5768
Trietazine	1912-26-1	Methanol	S-3949
Trietazine	1921-26-1	Acetonitrile	S-3949-ACE
Triethanolamine	102-71-6	Methanol	S-3695
1,1,1-Triethoxyethane	78-39-7	Methanol	S-3697
Triethoxysilane	998-30-1	Methanol	S-5613
Triethyl citrate	77-93-0	Methanol	S-4675
Triethyl phosphate	78-40-0	Methanol	S-3700
Triethylamine	121-44-8	Methanol	S-3702
Triethylene diamine	280-57-9	Methanol	S-4367
Triethylene glycol	112-27-6	Methanol	S-3703
Triethylene glycol dimethacrylate	109-16-0	Methanol	S-3704
Triethylene glycol dimethyl ether	112-49-2	Methanol	S-5315
Triethylene glycol monomethyl ether	112-35-6	Methanol	S-5660
Triethylentetramine	112-24-3	Methanol	S-4368
o,o,o-Triethylphosphorothioate	126-68-1	Methanol	S-3705
Trifloxystrobin	141517-21-7	Acetonitrile	S-4836
Trifloxystrobin	141517-21-7	Acetone	S-4836-AC
Triflumizole	68694-11-1	Methanol	S-4964
Triflumuron	64628-44-0	Acetonitrile	S-5962-ACN
Trifluoroacetic acid	76-05-1	HPLC Water	S-4787
1,2,3-Trifluorobenzene	1489-53-8	Methanol	S-4294
Trifluoromethane	75-46-7	Methanol	S-4120
3-(trifluoromethyl)benzenamine	98-16-8	Acetone	S-4319
a,a,a-Trifluorotoluene	98-08-8	Methanol	S-3710

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Trifluralin	1582-09-8	Methanol	S-3715
Trifluralin	1582-09-8	Acetone	S-3715-AC
Triflurosulfuron-methyl	126535-15-7	Deionized Water	S-3929
Triisopropyl naphthalenesulfonic acid sodium salt	1323-19-9	Methanol	S-3881
2,3,5-Trimethacarb	12407-86-2	Methanol	S-5933
Trimethoprim	738-70-5	Methanol	S-4594
2,4,6-Trimethoxy-1,3,5-triazine	877-89-4	Acetone	S-5592
1,2,4-Trimethyl-5-nitrobenzene	610-91-3	Methanol	S-4377
1,3,5-Trimethyl-2-nitrobenzene	603-71-4	Methanol	S-4378
2,3,4-Trimethyl-2-pentene	565-77-5	Methanol	S-3752
2,4,4-Trimethyl-1-pentanol	16325-63-6	Methanol	S-3745
2,4,4-Trimethyl-1-pentene	107-39-1	Methanol	S-3750
2,4,4-Trimethyl-2-pentene	107-40-4	Methanol	S-3755
Trimethyl phosphate	512-56-1	Methanol	S-3740
Trimethylamine	75-50-3	Methanol	S-3716
Trimethylamine-a,a',a"-tricarboxylic acid	N/A	Methanol	S-4554
2,4,5-Trimethylaniline	137-17-7	Methanol	S-3718
1,2,3-Trimethylbenzene	526-73-8	Methanol	S-3717
1,2,4-Trimethylbenzene	95-63-6	Methanol	S-3720
1,3,5-Trimethylbenzene	108-67-8	Methanol	S-3725
2,2,3-Trimethylbutane	464-06-2	Methanol	S-3882
1,1,3-Trimethylcyclohexane	3073-66-3	Methanol	S-3723
1,1,2-Trimethylcyclopentane	4259-00-1	Methanol	S-3726
1,1,3-Trimethylcyclopentane	4516-69-2	Methanol	S-3727
2,3,5-Trimethylnaphthalene	2245-38-7	Methanol	S-3728
2,3,5-Trimethylnaphthalene	2245-38-7	Methylene Chloride	S-3728-MC
2,3,6-Trimethylnaphthalene	829-26-5	Methanol	S-3729
2,2,7-Trimethyloctane-3,5-dione	69725-37-7	Methanol	S-4812
Trimethylolpropane ethoxylate triacrylate	28961-43-5	Methanol	S-4106
Trimethylolpropane propoxylate triacrylate	53879-54-2	Methanol	S-4107
Trimethylolpropane triacrylate	15625-89-5	Methanol	S-4108
2,2,4-Trimethylpentane	540-84-1	Methanol	S-3730
2,3,4-Trimethylpentane	565-75-3	Methanol	S-4258
2,3,5-Trimethylphenol	697-82-5	Methanol	S-3733
2,3,6-Trimethylphenol	2416-94-6	Methanol	S-4764
2,4,6-Trimethylphenol	527-60-6	Methanol	S-3735
3,4,5-Trimethylphenol	527-54-8	Methanol	S-4763
Bis(trimethylsilyl)trifluoroacetamide 99% w/ 1% TMCS	25561-30-2	Methanol	S-4618
Trinexapac-ethyl	95266-40-3	Methanol	S-4839
1,3,5-Trinitrobenzene	99-35-4	Methanol	S-3760
1,3,5-Trinitrobenzene	99-35-4	Acetone	S-3760-AC

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Trioctyltin chloride	2587-76-0	Methanol	S-5515
Triolein	122-32-7	Methanol	S-4388
Triphenyl phosphate	115-86-6	Methanol	S-3765
Triphenyl phosphorothionate	597-82-0	Methanol	S-6040
Triphenylene	217-59-4	Methylene Chloride	S-3764
Triphenyltin chloride	639-58-7	Methanol	S-4642
Tripropyl phosphate	513-08-6	Hexane	S-5702
Tripropylene glycol	24800-44-0	Methanol	S-3766
Triticonazole	131983-72-7	Methanol	S-4817
Triticonazole	131983-72-7	Acetonitrile	S-4817-ACN
Tritolyl phosphate	1330-78-5	Methanol	S-3770
n-Tritriacontane	630-05-7	Methanol	S-3775
Tropaeolin O indicator	547-57-9	Methanol	S-4507
Tylosin	1405-53-4	Methanol	S-5878
n-Undecane	1120-21-4	Methanol	S-3780
1-Undecanol	112-42-5	Methanol	S-3781
trans-2-Undecenal	53448-07-0	Methanol	S-4162
Uracil	66-22-8	Methanol	S-3782
Urethane	51-79-6	Methanol	S-1926
Urox	140-41-0	Acetone	S-3786
Valeraldehyde	110-62-3	Methanol	S-3788
Valeric acid	109-52-4	Deionized Water	S-3787
Valeronitrile	110-59-8	Methanol	S-4239
Vamidothion	2275-23-2	Methanol	S-4695
Vamidothion	2275-23-2	Acetonitrile	S-4695-ACN
Vamidothion-sulfoxide	20300-00-9	Acetonitrile	S-5931
Vanillin	121-33-5	Methanol	S-3884
Velpar	51235-04-2	Methanol	S-3790
Vernolate	1929-77-7	Methanol	S-3795
Vinclozolin	50471-44-8	Methanol	S-3796
Vinclozolin	50471-44-8	Acetone	S-3796-AC
1-Vinyl-2-pyrrolidinone	88-12-0	Methanol	S-3809
4-Vinyl-1-cyclohexene	100-40-3	Methanol	S-3813
5-Vinyl-2-norbornene	3048-64-4	Methanol	S-4041
Vinyl acetate	108-05-4	Methanol	S-3800
Vinyl bromide	593-60-2	Methanol	S-4049
Vinyl chloride	75-01-4	Methanol	S-3805
4-Vinylphenol	2628-17-3	Methanol	S-4692
2-Vinylpyridine	100-69-6	Methanol	S-5119
Vinyltoluene	25013-15-4	Methanol	S-3810
Vinyltrimethoxysilane	2768-02-7	Methanol	S-5101
Vitamin-A-alcohol	68-26-8	Toluene	S-3820
Vitamin-A-alcohol	68-26-8	Methanol	S-3820-METH
Vitamin C	50-81-7	Methanol	S-4034

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Vitamin D3	67-97-0	Methanol	S-3815
Warfarin	81-81-2	Methanol	S-3825
m-Xylene	108-38-3	Methanol	S-3830
o-Xylene	95-47-6	Methanol	S-3835
o-Xylene-d10	56004-61-6	Methanol	S-3836
p-Xylene	106-42-3	Methanol	S-3840
p-Xylene-d10	41051-88-1	Methanol	S-3839
m&p-Xylenes	NA	Methanol	S-3844
Xylenes (mixed)	1330-20-7	Methanol	S-3845
Zinc sulfate heptahydrate	7446-20-0	Methanol	S-3906
Zineb	12122-67-7	Methanol	S-4696
Zinophos	297-97-2	Methanol	S-3850
Ziram	137-30-4	Methanol	S-3865



HPLC/LC-MS Single-Component Organic Standards

SPEX CertiPrep creates single and multi-component standards suitable for all HPLC detectors. Our standards are created in HPLC and LC-MS grade solvents to reduce potential interference and increase analytical accuracy.

High Performance Liquid Chromatography (HPLC) is a column-based chromatographic technique used to separate components in a mixture for identification and quantification. A pump system passes pressurized mobile phase and sample through a prefilled column containing a packing or sorbent which aids in the separation of component peaks. As each analyte in the mixture interacts with the column material it retards the flow of the analytes within the column.

HPLC can be used for identification and quantification of compounds in a variety of fields from agriculture to medical and manufacturing uses.

A minimal HPLC instrument configuration includes a sampler, pumps, column compartment and a detector. There are a multitude of various detectors commonly in use with a HPLC system including: Refractive Index Detector (RID), UV/Vis Detector, Photodiode Array Detector and Mass Spectrometers. Each of these detectors have their own range of use and sensitivity from the broad range RID detector with its higher detection limits to the powerful and sensitive LC-MS techniques used for extremely low levels of detection.

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Abamectin	71751-41-2	HPLC Acetonitrile	LCS-6014
Abate	3383-96-8	HPLC Acetonitrile	LCS-102
Acarol (Bromopropylate)	18181-80-1	HPLC Acetonitrile	LCS-103-ACN
Acetaldehyde-2,4-DNPH	1019-57-4	HPLC Acetonitrile	LCS-5756
Acetamiprid	135410-20-7	HPLC Acetonitrile	LCS-4677-ACN
Acrinathrin	101007-06-1	HPLC Acetonitrile	LCS-6248
Acrolein-2,4-DNPH	888-54-0	HPLC Acetonitrile	LCS-5758
Aldicarb	116-06-3	HPLC Acetonitrile	LCS-190
Allethrin	584-79-2	HPLC Acetonitrile	LCS-4240
Amidosulfuron	120923-37-7	HPLC Acetonitrile	LCS-6228
Amoxicillin	26787-78-0	HPLC Acetonitrile	LCS-5936
Antipyrine	60-80-0	HPLC Methanol	LCS-5896
Arabinose	147-81-9	HPLC Water	LCS-4513
Azaconazole	60207-31-0	HPLC Acetonitrile	LCS-6276
Azimsulfuron	120162-55-2	HPLC Acetonitrile	LCS-6229
Baygon (Propoxur)	114-26-1	HPLC Acetonitrile	LCS-3200-ACN
Baytan (Triadimenol)	55219-65-3	HPLC Acetonitrile	LCS-3996
Baythroid	68359-37-5	HPLC Acetonitrile	LCS-376
Baythroid	68359-37-5	Acetone	LCS-376-AC
Benalaxyl	71626-11-4	HPLC Acetonitrile	LCS-4262
Bentazon	25057-89-0	HPLC Acetonitrile	LCS-395
Benthiocarb	28249-77-6	Acetone	LCS-400-AC
Benthiocarb	28249-77-6	HPLC Acetonitrile	LCS-400-ACN
Benzalkonium chloride	63449-41-2	LCMS Water	LCS-5115
Benzo(b)fluoranthene	205-99-2	Acetone	LCS-435
Benzotriazole	95-14-7	HPLC Methanol	LCS-4121
gamma-BHC	58-89-9	Acetone	LCS-485-AC
Bifenazate	149877-41-8	HPLC Acetonitrile	LCS-6082
Bifenthrin	82657-04-3	HPLC Acetonitrile	LCS-494-ACN

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Bioallethrin	28057-48-9	Acetone	LCS-496
Bitertanol (mix of isomers)	55179-31-2	HPLC Acetonitrile	LCS-4679
Boscalid	188425-85-6	HPLC Acetonitrile	LCS-4815
Bromfevinfos	33399-00-7	HPLC Methanol	LCS-6043
Bromoxynil	1689-84-5	HPLC Acetonitrile	LCS-575-ACN
Bromuconazole	116255-48-2	Acetone	LCS-6007
Bupirimate	41483-43-6	HPLC Acetonitrile	LCS-4272
Butoxycarboxim	34681-23-7	HPLC Acetonitrile	LCS-6176
Cadusafos	95465-99-9	HPLC Acetonitrile	LCS-4826
Caffeine-d9	77238-85-8	HPLC Methanol	LCS-5493
Carbendazim (100 µg/mL)	10605-21-7	HPLC Methanol	LCS-733
Carboxin	5234-68-4	HPLC Acetonitrile	LCS-760-ACN
Chlorantraniliprole	500008-45-7	HPLC Acetonitrile	LCS-6127
Chlorbromuron	13360-45-7	HPLC Acetonitrile	LCS-769
Chlorflazuron	71422-67-8	HPLC Acetonitrile	LCS-4017
Chlormequat chloride	999-81-5	HPLC Acetonitrile	LCS-4838
Chlorimuron-ethyl	90982-32-4	LCMS Acetonitrile	LCS-3927
Chlorobenzilate	510-15-6	HPLC Acetonitrile	LCS-820-ACN
Chlorosulfuron	64902-72-3	HPLC Acetonitrile	LCS-4995-ACN
Chlorpyrifos oxon	5598-15-2	HPLC Acetonitrile	LCS-968
Chlozolate	84332-86-5	HPLC Acetonitrile	LCS-4286
Cholesterol	57-88-5	HPLC Methanol	LCS-4702
Chromafenozide	143807-66-3	HPLC Acetonitrile	LCS-6205
Cimetidine	51481-61-9	HPLC Methanol	LCS-5897
Cinosulfuron	94593-91-6	HPLC Acetonitrile	LCS-6230
Clethodim	99129-21-2	HPLC Acetonitrile	LCS-6083-ACN
Clindamycin	21462-39-5	HPLC Methanol	LCS-5569
Clofentazine	74115-24-5	HPLC Acetonitrile	LCS-5772
Clothianidin	210880-92-5	HPLC Acetonitrile	LCS-6027

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Clothianidin	210880-92-5	Acetone	LCS-6027-AC
Cyanofenphos	13067-93-1	Acetone	LCS-5958-AC
Cyanophos	2636-26-2	HPLC Acetonitrile	LCS-1006
Cyazofamid	120116-88-3	HPLC Acetonitrile	LCS-6008
Cyclophosphamide	6055-19-2	HPLC Methanol	LCS-5883
Cycloprothrin	63935-38-6	HPLC Acetonitrile	LCS-6292
Cyhalofop-butyl	122008-85-9	HPLC Acetonitrile	LCS-6101
gamma-Cyhalothrin	76703-62-3	Acetone	LCS-6376
zeta-Cypermethrin	52315-07-8	Acetone	LCS-6401
D-trans-Cyphenothrin (mix of isomers)	39515-40-7	Acetone	LCS-4463
Cyproconazole (mix of isomers)	94361-06-5	HPLC Acetonitrile	LCS-4863
Cyprodinil	121552-61-2	HPLC Acetonitrile	LCS-4622
Cyprofuram	69581-33-5	HPLC Acetonitrile	LCS-6206
DEF	78-48-8	Acetone	LCS-1130
Demeton-S Sulfone	2496-91-5	HPLC Acetonitrile	LCS-5774-ACN
Devrinol	15299-99-7	HPLC Acetonitrile	LCS-1150-ACN
Di-allate (mix of isomers)	2303-16-4	Acetone	LCS-1155
2,4-Diaminoanisole sulfate salt hydrate	123333-56-2	HPLC Water	LCS-6157
Dichlorfenthion	97-17-6	Acetone	LCS-1280
Dichlorprop-P	15165-67-0	HPLC Acetonitrile	LCS-6021
Diclobutrazole	75736-33-3	HPLC Acetonitrile	LCS-6056
Diclofenac	15307-79-6	HPLC Methanol	LCS-5886
Dicrotophos	141-66-2	HPLC Acetonitrile	LCS-1500
Dieldrin	60-57-1	Acetone	LCS-1510-AC
Diflubenzuron	35367-38-5	HPLC Acetonitrile	LCS-1537-ACN
3,5-Diiodo-4-hydroxybenzonitrile	1689-83-4	Acetone	LCS-1554
3,5-Diiodo-4-hydroxybenzonitrile	1689-83-4	HPLC Acetonitrile	LCS-1554-ACN
Dimefuron	34205-21-5	HPLC Methanol	LCS-4617
Dimethoate	60-51-5	HPLC Acetonitrile	LCS-1560
Dimethomorph	110488-70-5	HPLC Acetonitrile	LCS-3970-ACN
Dimethyl-p-nitrophenylphosphate	950-35-6	Acetone	LCS-1669
N-2,4-Dimethylphenyl-N'-methylformamidine	33089-74-6	HPLC Acetonitrile	LCS-6279
N-(2,4-Dimethylphenyl)formamide	60397-77-5	HPLC Acetonitrile	LCS-6280
Dimethylvinphos	2274-67-1	HPLC Methanol	LCS-6042
1,7-Dimethylxanthine	611-59-6	HPLC Methanol	LCS-5067
Diniconazole	83657-24-3	HPLC Acetonitrile	LCS-6057
Dioxydemeton-S-methyl	17040-19-6	HPLC Acetonitrile	LCS-3969
Diuron	330-54-1	HPLC Acetonitrile	LCS-1760
DMST	66840-71-9	HPLC Acetonitrile	LCS-6018
Dodine	2439-10-3	HPLC Acetonitrile	LCS-1807-ACN
Doramectin	117704-25-3	HPLC Acetonitrile	LCS-6224
Dylox	52-68-6	Acetone	LCS-1816

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Emamectin	119791-41-2	HPLC Acetonitrile	LCS-5507-ACN
Emamectin-benzoate	155569-91-8	HPLC Acetonitrile	LCS-6293
Empenthrin	54406-48-3	HPLC Acetonitrile	LCS-6293
Endosulfan	115-29-7	Acetone	LCS-1824-AC
Epoxiconazole	133855-98-8	HPLC Acetonitrile	LCS-4923-ACN
Eprinomectin	123997-26-2	HPLC Acetonitrile	LCS-6226
17-alpha-Estradiol	57-91-0	HPLC Methanol	LCS-5068
17-beta-Estradiol	50-28-2	HPLC Methanol	LCS-5070
Ethiofencarb-sulfoxide	53380-22-6	HPLC Acetonitrile	LCS-6184
Ethiofencarb sulfone	53380-23-7	HPLC Acetonitrile	LCS-6183
Ethoxysulfuron	126801-58-9	HPLC Acetonitrile	LCS-6231
2-Ethylhexyl diphenyl phosphate	1241-94-7	HPLC Methanol	LCS-6041
Etofenprox	80844-07-1	HPLC Acetonitrile	LCS-6104
Etoxazole	153233-91-1	HPLC Acetonitrile	LCS-5670
Famoxadone	131807-57-3	HPLC Acetonitrile	LCS-5462
Fenamidone	161326-34-7	HPLC Acetonitrile	LCS-4966
Fenarimol	60168-88-9	HPLC Acetonitrile	LCS-1997
Fenazaquin	120928-09-8	HPLC Acetonitrile	LCS-6019
Fenbutatin-oxide	13356-08-6	Acetone	LCS-1999-AC
Fenbutatin-oxide	13356-08-6	HPLC Acetonitrile	LCS-1999-ACN
Fenbutatin-oxide	13356-08-6	HPLC Methanol	LCS-1999-MEOH
Fenitrothion	122-14-5	Acetone	LCS-2001-AC
Fenpyroximate	111812-58-9	LCMS Acetonitrile	LCS-6387
(E)-Fenpyroximate	134098-61-6	HPLC Acetonitrile	LCS-6179
Fensulfothion-oxon	6552-21-2	HPLC Acetonitrile	LCS-6209
Fensulfothion-oxon-sulfone	6132-17-8	HPLC Acetonitrile	LCS-6210
Fipronil	120068-37-3	HPLC Methanol	LCS-4004
Fipronil	120068-37-3	HPLC Acetonitrile	LCS-4004-ACN
Fluazifop-butyl	69806-50-4	HPLC Methanol	LCS-4905
Flubenzimin	37893-02-0	Acetone	LCS-6385
Fludioxonil	131341-86-1	HPLC Acetonitrile	LCS-2061
Flufenacet	142459-58-3	HPLC Acetonitrile	LCS-4906
Flufenoxuron	101463-69-8	Acetone	LCS-6009
Flufenoxuron	101463-69-8	HPLC Acetonitrile	LCS-6009-ACN
Flumetsulam	98967-40-9	LCMS Acetonitrile	LCS-5064
Flumiclorac-pentyl	87546-18-7	LCMS Acetonitrile	LCS-6416
Fluometuron	2164-17-2	LCMS Acetonitrile	LCS-2026
Fluquinconazole	136426-54-5	Acetone	LCS-6103
Flusilazole	85509-19-9	HPLC Acetonitrile	LCS-4832
tau-Fluvalinate	102851-06-9	HPLC Acetonitrile	LCS-4161-ACN
Folicur	107534-96-3	HPLC Acetonitrile	LCS-2056
Folicur	107534-96-3	Acetone	LCS-2056-AC
Forchlorfenuron	68157-60-8	HPLC Acetonitrile	LCS-6022
Formetanate HCl	23422-53-9	HPLC Acetonitrile	LCS-2066-ACN

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Fosthiazate	98886-44-3	Acetone	LCS-6080	Mesotrione	104206-82-8	HPLC Acetonitrile	LCS-5044
Fructose	57-48-7	HPLC Water	LCS-4189-HPLCW	Metaflumizone	139968-49-3	HPLC Acetonitrile	LCS-6015
Fuberidazole	3878-19-1	HPLC Acetonitrile	LCS-6318	Metalaxyl	57837-19-1	HPLC Acetonitrile	LCS-6334
Furalaxyl	57646-30-7	HPLC Acetonitrile	LCS-6319	Metasystox I (TM)	919-86-8	Acetone	LCS-4205
Furathiocarb	65907-30-4	Acetone	LCS-5464-AC	Metconazole	125116-23-6	Acetone	LCS-6010
Furmecyclox	60568-05-0	HPLC Acetonitrile	LCS-6180	Methiocarb	2032-65-7	HPLC Acetonitrile	LCS-2385
Galactose	59-23-4	HPLC Water	LCS-4512	Methoxyfenozide	161050-58-4	HPLC Acetonitrile	LCS-6033
d-Glucose	921-60-8	HPLC Water	LCS-5539	Metribuzin	21087-64-9	HPLC Acetonitrile	LCS-2620
Glucose	50-99-7	HPLC Acetonitrile	LCS-5489	Monocrotophos	6923-22-4	HPLC Acetonitrile	LCS-2645
Halosulfuron-methyl	100784-20-1	HPLC Acetonitrile	LCS-6232	Moxidectin	113507-06-5	HPLC Acetonitrile	LCS-6198
Haloxypop-methyl	69806-40-2	HPLC Acetonitrile	LCS-6186	Nitenpyram	150824-47-8	HPLC Acetonitrile	LCS-6187
Heptachlor	76-44-8	Acetone	LCS-2100-AC	4-Nitrophenol	100-02-7	Methanol	LCS-2730
Hexaconazole	79983-71-4	HPLC Acetonitrile	LCS-5465	Norflurazon	27314-13-2	HPLC Acetonitrile	LCS-2800-ACN
Hexaflumuron	86479-06-3	HPLC Acetonitrile	LCS-6256	Novaluron	116714-46-6	HPLC Acetonitrile	LCS-6122
Hexythiazox	78587-05-0	Acetone	LCS-6028	Omite	2312-35-8	Acetone	LCS-2895
Hydramethylnon	67485-29-4	HPLC Acetonitrile	LCS-6196	Omite	2312-35-8	HPLC Acetonitrile	LCS-2895-ACN
Hyodeoxycholic acid	83-49-8	HPLC Acetonitrile	LCS-6177	Oxadixyl	77732-09-3	Acetone	LCS-2903-AC
Imazalil	35554-44-0	HPLC Acetonitrile	LCS-2346-ACN	Oxamyl Oxime	30558-43-1	HPLC Acetonitrile	LCS-6123
Imazosulfuron	122548-33-8	HPLC Acetonitrile	LCS-6233	Paclobutrazol	76738-62-0	HPLC Acetonitrile	LCS-4345-ACN
Imibenconazole	86598-92-7	HPLC Acetonitrile	LCS-6107	Pencycuron	66063-05-6	HPLC Acetonitrile	LCS-5171
Imibenconazole	86598-92-7	Acetone	LCS-6107-AC	Pencycuron	66063-05-6	Acetone	LCS-5171-AC
Ipconazole	125225-28-7	HPLC Acetonitrile	LCS-6278	Pentachloronitrobenzene	82-68-8	Acetone	LCS-2945-AC
Iprovalicarb	140923-17-7	Acetone	LCS-6029	Perfluoro-n-octane Sulfonate Sodium (PFOS)	1763-23-1	HPLC Methanol	LCS-4951
Iprovalicarb	140923-17-7	HPLC Acetonitrile	LCS-6029-ACN	Phorate sulfoxide	2588-03-6	Acetone	LCS-5777
Isocarbamid	30979-48-7	HPLC Acetonitrile	LC-6215	Phoxim	14816-18-3	HPLC Acetonitrile	LCS-4689
Isocarbophos	24353-61-5	HPLC Acetonitrile	LCS-6275	Picoxystrobin	117428-22-5	HPLC Acetonitrile	LCS-5467
Isofenphos-methyl	99675-03-3	HPLC Methanol	LCS-5998	Piperonyl butoxide	51-03-6	HPLC Acetonitrile	LCS-3117-ACN
Isoxaben	82558-50-7	HPLC Acetonitrile	LCS-5275	Piperophos	24151-93-7	Acetone	LCS-6099
Isoxaflutole	141112-29-0	HPLC Acetonitrile	LCS-6310	Pirimicarb-desmethyl	30614-22-3	HPLC Acetonitrile	LCS-6023
Kelthane 1.5%o,p'-95%p,p'	115-32-2	Acetone	LCS-2335-AC	Pirimiphos-ethyl	23505-41-1	HPLC Acetonitrile	LCS-3120
3-Keto-carbofuran	16709-30-1	Acetone	LCS-6129	Prallethrin (mix of isomers)	23031-36-9	HPLC Acetonitrile	LCS-5783
Kresoxim-methyl	143390-89-0	HPLC Acetonitrile	LCS-4833	Pretilachlor	51218-49-6	HPLC Acetonitrile	LCS-6092
Linuron	330-55-2	HPLC Acetonitrile	LCS-2350	Procymidone	32809-16-8	HPLC Acetonitrile	LCS-3871-ACN
Lontrel (clopyralid)	1702-17-6	LCMS Acetonitrile	LCS-2354	Profenofos	41198-08-7	HPLC Acetonitrile	LCS-3134-ACN
Lufenuron	103055-07-8	HPLC Acetonitrile	LCS-6181	Propamocarb	24579-73-5	HPLC Acetonitrile	LCS-5468
Maltodextrin	9050-36-6	HPLC Water	LCS-5705	Propaquizafop	111479-05-1	HPLC Acetonitrile	LCS-6034
Mandipropamid	374726-62-2	HPLC Acetonitrile	LCS-6031	Prophos	13194-48-4	HPLC Acetonitrile	LCS-3185
Mannose	3458-28-4	HPLC Water	LCS-4514	Prophos	13194-48-4	Acetone	LCS-3185-AC
Mebendazole	31431-39-7	HPLC Acetonitrile	LCS-4603-ACN	Propiconazole (tilt)	60207-90-1	HPLC Acetonitrile	LCS-3186
Mecarbam	2595-54-2	HPLC Acetonitrile	LCS-4847	Propineb	12071-83-9	Acetone	LCS-4691
D,L-Mecoprop	93-65-2	HPLC Methanol	LCS-6372	Prothioconazole	178928-70-6	HPLC Methanol	LCS-4904
Mepanipyrim	110235-47-7	HPLC Acetonitrile	LCS-6032	Prothioconazole	178928-70-6	HPLC Acetonitrile	LCS-4904-ACN
Mephosfolan	950-10-7	HPLC Acetonitrile	LCS-6288	Prothioconazole-desthio	120983-64-4	HPLC Acetonitrile	LCS-6189
Mepiquat chloride	24307-26-4	HPLC Acetonitrile	LCS-6323				

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Pymetrozin	123312-89-0	HPLC Acetonitrile	LCS-4967	Tebutam	35256-85-0	HPLC Acetonitrile	LCS-6219
Pyraflufen	129630-17-7	LCMS Acetonitrile	LCS-6417	Teflubenzuron	83121-18-0	HPLC Acetonitrile	LCS-5458
Pyraflufen-ethyl	129630-19-9	HPLC Acetonitrile	LCS-6024-ACN	Tepraloxymid	149979-41-9	HPLC Acetonitrile	LCS-6178
Pyrasulfotole	365400-11-9	HPLC Acetonitrile	LCS-5872	Terbufos-sulfoxide	10548-10-4	LCMS Acetonitrile	LCS-6307
Pyridaben	96489-71-3	HPLC Acetonitrile	LCS-5779	1,2,4,5-Tetrachloro-3-nitrobenzene	117-18-0	HPLC Acetonitrile	LCS-3415-ACN
Pyridaphenthion	119-12-0	HPLC Acetonitrile	LCS-4829	Tetrachlorvinphos (Z)	22248-79-9	HPLC Acetonitrile	LCS-6037
Pyrifeno	88283-41-4	Acetone	LCS-5291-AC	Tetraconazole	112281-77-3	Acetone	LCS-6089
Pyrimethanil	53112-28-0	HPLC Acetonitrile	LCS-5225	Thiabendazole	148-79-8	HPLC Acetonitrile	LCS-3490
Pyriproxifen	95737-68-1	Acetone	LCS-4969	Thiacloprid	111988-49-9	Acetone	LCS-6026
Pyriproxifen	95737-68-1	HPLC Acetonitrile	LCS-4969-ACN	Thiamethoxam	153719-23-4	HPLC Acetonitrile	LCS-5173
Pyroxulam	422556-08-9	HPLC Acetonitrile	LCS-5875	Thiodicarb	59669-26-0	HPLC Acetonitrile	LCS-3493-ACN
Quinoxifen	124495-18-7	Acetone	LCS-6059	Thiram	137-26-8	Acetone	LCS-3499-AC
Raffinose	512-69-6	HPLC Water	LCS-4844	Tokuthion/Prothiophos	34643-46-4	HPLC Acetonitrile	LCS-3225-ACN
Reserpine	50-55-5	Methanol: Acetone	LCS-3249	Tolclofos-methyl	57018-04-9	HPLC Acetonitrile	LCS-4835-ACN
Resorcinol	108-46-3	Acetone	LCS-3250-DMF	Toltrazuril	69004-03-1	HPLC Acetonitrile	LCS-5874
Roxithromycin	80214-83-1	HPLC Methanol	LCS-5876	Tolytriazole	29385-43-1	HPLC Acetonitrile	LCS-5596
Safrothin	31218-83-4	Acetone	LCS-3260	Tralkoxydim	87820-88-0	HPLC Acetonitrile	LCS-5470
Salbutamol	18559-94-9	Methanol	LCS-4748	Tralkoxydim	87820-88-0	Acetone	LCS-5470-AC
Sanmarton	51630-58-1	Acetone	LCS-3261-AC	Transluthrin	118712-89-3	Acetone	LCS-6375
Selamectin	165108-07-6	HPLC Acetonitrile	LCS-6227	Triasulfuron	82097-50-5	HPLC Acetonitrile	LCS-5003
Sethoxydim	74051-80-2	HPLC Acetonitrile	LCS-3266-ACN	Tribenuron-methyl	101200-48-0	LCMS Acetonitrile	LCS-4998
Spinetoram	187166-40-1	HPLC Acetonitrile	LCS-6012	Triclosan	3380-34-5	HPLC Methanol	LCS-4382
Spinosad A&D	168316-95-8	HPLC Acetonitrile	LCS-6025	Triflumizole	68694-11-1	HPLC Acetonitrile	LCS-4964
Spirodiclofen	148477-71-8	HPLC Acetonitrile	LCS-5295	Triforine	26644-46-2	HPLC Acetonitrile	LCS-6273
Spiromesifen	283594-90-1	HPLC Acetonitrile	LCS-6035	Triphenyl phosphate	115-86-6	HPLC Acetonitrile	LCS-3765
Sucrose	57-50-1	HPLC Water	LCS-3308-HPLCW	Triphenyl phosphorothionate	597-82-0	HPLC Methanol	LCS-6040
Sulfadimidine	57-68-1	Acetone	LCS-4587	Tris(dichloroisopropyl)phosphate	13674-87-8	HPLC Acetonitrile	LCS-4381-ACN
Sulfentrazone	122836-35-5	Acetone	LCS-6013	Tritosulfuron	142469-14-5	HPLC Acetonitrile	LCS-6234
Sulfentrazone	122836-35-5	LCMS Acetonitrile	LCS-6013-ACN	Velpar	51235-04-2	Acetone	LCS-3790
Systhane	88671-89-0	Acetone	LCS-3306	Xylitol	87-99-0	HPLC Water	LCS-6150
Systhane	88671-89-0	HPLC Acetonitrile	LCS-3306-ACN	Xylose	58-86-6	HPLC Water	LCS-4515
Tebufenozide	112410-23-8	Acetone	LCS-6036	Zinophos	297-97-2	Acetone	LCS-3850
Tebufenpyrad	119168-77-3	HPLC Acetonitrile	LCS-5226	Zoxamide	156052-68-5	HPLC Acetonitrile	LCS-6090

Helpful Hint:

Looking for parts in Methanol?
See pages 9-43.

SECTION 2

Volatiles

Single & Multi-Component Standards
for GC & GC-MS

THE 60 BIG MIX

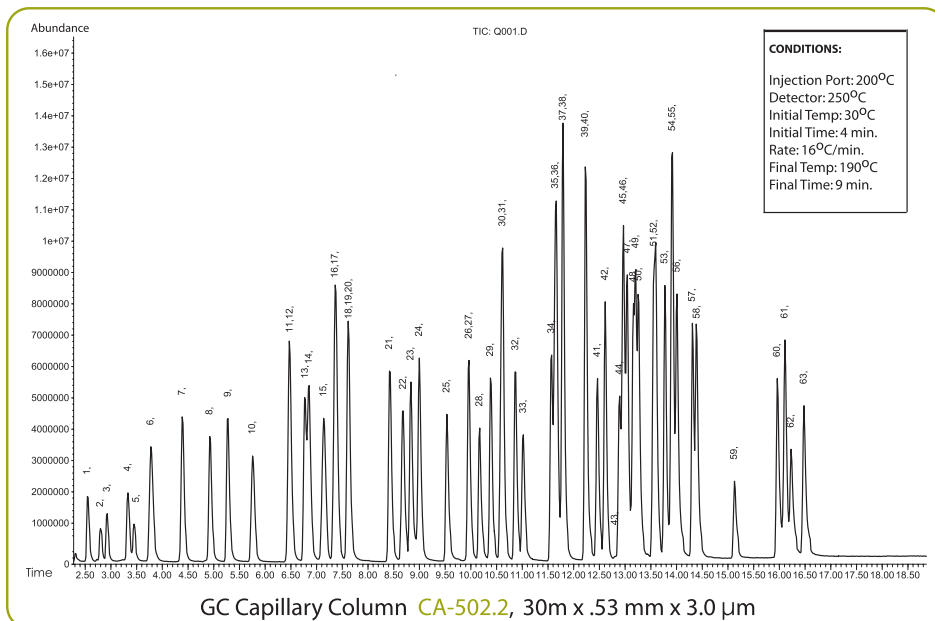
The Most routinely analyzed Volatile Compounds in ONE ampule
All compounds checked on our GC-MS Systems
Highest quality at an affordable price

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



CONDITIONS:

Injection Port: 200°C
Detector: 250°C
Initial Temp: 30°C
Initial Time: 4 min.
Rate: 16°C/min.
Final Temp: 190°C
Final Time: 9 min.

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!

Volatiles

METHOD 502

EPA method 502.1 is a general analytical method for the monitoring of halogenated, portable VOCs in drinking water and raw water sources by GC and a Hall Detector.

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 Methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: 5022-BH

1 mL @ 200 µg/mL in Methanol

Catalog#: 5022-B

Need more helpful hints?

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

- Get immediate answers by using our Live Chat function.
- 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.
- View our webinars on our YouTube channel.

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 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025 and ISO/IEC Guide 34. Our scope is the **most comprehensive** in the industry.



EPA method 502.2 is a general analytical method for the monitoring of halogenated, purgeable VOCs in drinking water and raw water sources by GC megabore capillary column techniques and Hall and Photoionization (PID) Detectors.

"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 Methanol

Catalog#: 60-BIG-MIX

1 mL @ 200 µg/mL in Methanol

Catalog#: 60-BIG-MIX-200

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 60-BIG-MIX-2000

Trihalomethanes

4 Certified Components:

Bromodichloromethane	Chloroform
Bromoform	Dibromochloromethane

1 mL @ 2,000 µg/mL in Methanol

Catalog#: THM-XH

1 mL @ 200 µg/mL in Methanol

Catalog#: THM-X

Internal Standards

1 Certified Component:

1-Chloro-2-fluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-935

2 Certified Components:

2-Bromo-1-chloropropane
Fluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 5022-I

Alternate Internal Standards

1 Certified Component:

2-Bromo-1-chloropropane

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-580

1 Certified Component:

1,4-Dichlorobutane

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-1365

1 Certified Component:

Fluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-2040

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 Methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: 5022-BH

1 mL @ 200 µg/mL in Methanol

Catalog#: 5022-B**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 Methanol

Catalog#: 5242-CH**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 Methanol

Catalog#: 5242-DH**Volatile Organics Combination Mix
Analyte Mixes A, C & D**

Includes all analytes in Mixes A, C and D that also appear on this page.

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 Methanol

Catalog#: 5242-VCX

1 mL @ 200 µg/mL in Methanol

Catalog#: 5242-VCX-200

1 mL @ 2,000 µg/mL in Methanol

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

Catalog#: HICAL-VOC

METHODS 504

EPA method 504 is an analytical method for the monitoring of 1,2-Dibromoethane (EDB), 1,2-Dibromo-3-Chloropropane (DBCP), and 1,2,3-Trichloropropane (123TCP) in Water by Microextraction and either GC-ECD or GC-MS techniques.

Method 504 Analytes

2 Certified Components:

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

1 mL @ 2,000 µg/mL in 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 Methanol

Catalog#: 5041-AH

Did You Know?

On SPEX CertiPrep's website you can search by CAS number or component name on our site search tool and on our Custom Standards Request Form for singles and mixes.

METHOD 524

WITH REVISION 4 COMPOUNDS

EPA Method 524.3 is a GC-MS method for the analysis of purgeable VOCs in finished drinking water. Analytes added to Method 524.3 in Revision 4 are supplied in a 24-component mix.

Method 524.3 Mix A

7 Certified Components:

Bromomethane	Dichlorodifluoromethane
1,3-Butadiene	Trichlorofluoromethane
Chlorodifluoromethane	Vinyl Chloride
Chloromethane	

1mL @ 2,000 µg/mL in Methanol

Catalog#: 5243-G

Method 524.3 Supplemental Mix

8 Certified Components:

1,3-Butadiene	t-Amyl ethyl ether (TAEE)
Chlorodifluoromethane	t-Amyl methyl ether (TAME)
Diisopropyl ether (DIPE)	t-Butyl alcohol (TBA)
Methyl acetate	t-Butyl ethyl ether (ETBE)

1mL @ 2,000 µg/mL in Methanol

Catalog#: 5243-A

UCMR-3

This GC-MS standard (EPA 524.3) covers the seven volatile organic compounds included in the Unregulated Contaminant Monitoring Rule 3 (UCMR3), which requires monitoring of all public drinking water systems with 10,000 or more customers.

Components	Concentration µg/mL
Bromomethane	2000
Chloromethane	2000
1,3-Butadiene	1000
Chlorodifluoromethane	800
Bromochloromethane	600
sec-Butylbenzene	400
1,1-Dichloroethane	300
1,2,3-Trichloropropane	300
n-Propylbenzene	300

Volume: 1 mL

Catalog#: UCMR-3

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 Methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: 5242-CH**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 Methanol

Catalog#: 5242-DH**Volatile Organics Combination Mix
Analyte Mixes A, C & D**

Includes all analytes in Mixes A, C and D that also appear on this page.

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 Methanol

Catalog#: 5242-VCX

1 mL @ 200 µg/mL in Methanol

Catalog#: 5242-VCX-200

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: HICAL-VOC

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

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 Methanol

Catalog#: 5242-R4200

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5242-R4

Fortification Solution

3 Certified Components:

4-Bromofluorobenzene
1,2-Dichlorobenzene-d₄
Fluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 5242-F

GC-MS Tuning Standard (BFB)

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in Methanol

Catalog#: CLPV-TH

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-550

Method 524.3 Mix B

69 Certified Components:

Allyl Chloride	cis-1,3-Dichloropropene
t-Amyl ethyl ether (TAEE)	trans-1,3-Dichloropropene
t-Amyl methyl ether (TAME)	Diethyl Ether
Benzene	Diisopropyl ether (DIPE)
Bromobenzene	Ethylbenzene
Bromochloromethane	Ethyl Methacrylate
Bromodichloromethane	Hexachlorobutadiene
Bromoform	Hexachloroethane
t-Butyl alcohol	Isopropylbenzene
n-Butylbenzene	4-Isopropyltoluene
sec-Butylbenzene	Methyl acetate
tert-Butylbenzene	Methyl-t-butyl Ether
t-Butyl ethyl ether (ETBE)	Methylene Chloride
Carbon Disulfide	Naphthalene
Carbon Tetrachloride	Pentachloroethane
Chlorobenzene	n-Propylbenzene
Chloroform	Styrene
2-Chlorotoluene	1,1,1,2-Tetrachloroethane
4-Chlorotoluene	1,1,2,2-Tetrachloroethane
Dibromochloromethane	Tetrachloroethene
1,2-Dibromo-3-Chloropropane	Tetrahydrofuran
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	Trichlorofluoromethane
1,1-Dichloroethene	1,2,3-Trichloropropane
cis-1,2-Dichloroethene	1,2,4-Trimethylbenzene
trans-1,2-Dichloroethene	1,3,5-Trimethylbenzene
1,2-Dichloropropane	o-Xylene
1,3-Dichloropropane	m-Xylene
2,2-Dichloropropane	p-Xylene
1,1-Dichloropropene	

1mL @ 2,000 µg/mL in Methanol

Catalog#: 5243-VCM

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.**

Internal Standard**1 Certified Component:**

Fluorobenzene

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5242-I**Surrogate Standard****2 Certified Components:**

4-Bromofluorobenzene

1,2-Dichlorobenzene-d₄

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 5242-S**Surrogate****3 Certified Components:**

4-Bromofluorobenzene

1,2-Dichlorobenzene-d₄Methyl-t-butyl-ether-d₃

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5243-S**Internal Standard****3 Certified Components:**Chlorobenzene-d₅

1,4-Difluorobenzene

1,4-Dichlorobenzene-d₄

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5243-I**524.3 IS Singles****1 Certified Component:**

1,4-Difluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-1540**1 Certified Component:**Chlorobenzene-d₅

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-815**1 Certified Component:**1,4-Dichlorobenzene-d₄

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-1310**METHOD 551**

EPA Method 551 is an analytical method for the determination of chlorinated disinfection byproducts, chlorinated solvents and halogenated pesticides & herbicides in drinking water and raw source water using MTBE extraction and GC-ECD techniques.

Chlorinated Disinfection By-Products, Solvents And Trihalomethanes Combination Mix**18 Certified Components:**

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

1 mL @ 2,000 µg/mL in Acetone

Catalog#: 5511-A**Halogenated Pesticides and Herbicides Mix****16 Certified Components:**

Alachlor	Heptachlor epoxide
Atrazine	Hexachlorobenzene
Bromacil	Hexachlorocyclopentadiene
Cyanazine	Lindane (g-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

Bromochloroacetonitrile Single

1 Certified Component:

Bromochloroacetonitrile

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-532

Laboratory Performance Check Solution

7 Certified Components:

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

1 mL in Methyl tert-butyl ether

Catalog#: 5511-PC

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

EPA method 601 is a general analytical method for the monitoring of halogenated VOCs in municipal and industrial wastewater by GC with a Hall detector.

Volatile Organics Combination Mix

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 Methanol

Catalog#: 601-A

Mix B - Purgeable gases

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5022-BH

1 mL @ 200 µg/mL in Methanol

Catalog#: 5022-B

Surrogate/Internal Standard

3 Certified Components:

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

1 mL @ 20,000 µg/mL in Methanol

Catalog#: 601-I

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METHOD 602

EPA method 602 is a general analytical method for the monitoring of halogenated aromatic compounds in municipal and industrial wastewater by GC-PID.

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 Methanol

Catalog#: P-GAS

BTEX Standard

6 Certified Components:

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

1 mL @ 2,000 µg/mL in Methanol

Catalog#: BTEX-H

1 mL @ 200 µg/mL in Methanol

Catalog#: BTEX

Alternate BTEX Standard

6 Certified Components:

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

1 mL in Methanol

Catalog#: BTEX-2-1H

Internal/Surrogate Standard

1 Certified Component:

α,α,α-Trifluorotoluene

1 mL @ 200 µg/mL in Methanol

Catalog#: 602-I

METHOD 603

EPA method 603 is a general analytical method for the separation of Acrolein and Acrylonitrile in municipal and industrial wastewater by GC-FID.

Acrolein and Acrylonitrile in Water

2 Certified Components:

Acrolein

Acrylonitrile

1 mL @ 2,000 µg/mL in DI Water

Catalog#: 603-X

Acrolein is more stable in water.

Acrolein and Acrylonitrile in Methanol Purge & Trap

2 Certified Components:

Acrolein

Acrylonitrile

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 603-XM

Helpful Hint:

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

METHOD 624

EPA method 624 is a general analytical method for the monitoring of VOCs in municipal and industrial wastewater by GC-MS.

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 Methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in Methanol

Catalog#: CLPV-A

Mix B - Purgeable gases

5 Certified Components:

Bromomethane	Trichlorofluoromethane
Chloroethane	Vinyl chloride
Chloromethane	

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 624-BH

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: 624-CH

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: 624-DH

1 mL @ 200 µg/mL in Methanol

Catalog#: 624-D

Volatile Organics Combination Mix Analyte mixes A, C & D

Includes all analytes in Mixes A, C and D that also appear on this page.

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 Methanol

Catalog#: 624-A

Internal Standard

3 Certified Components:

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

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 624-I

Surrogate Standard

3 Certified Components:

4-Bromofluorobenzene
Fluorobenzene
Pentafluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 624-S

624 Alternate Internal/Surrogate Standard Singles

Component @ 1,000 µg/mL:	Matrix	Catalog#
Benzene-d6	Methanol	S-0406
4-Bromofluorobenzene	Methanol	S-550
1,2-Dichloroethane-d4	Methanol	S-1385
1,4-Dichlorobutane	Methanol	S-1365
Ethyl-d5-benzene	Methanol	S-1924
Ethylbenzene-d10	Methanol	S-1941

METHOD 8011

EPA method 8011 is an analytical method for the monitoring of EDB and DBCP in drinking water and ground water by GC-MS.

EDB/DBCP

2 Certified Components:

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

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 504-AH

METHOD 8015

EPA method 8015 is a general analytical method for the monitoring of certain non-halogenated VOCs and SVOCs by GC-FID.

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

New Part # 8015-OX

5 Certified Components:

t-Amyl methyl ether (TAME)	Ethyl tert-butyl ether (ETBE)
t-Butyl alcohol	Methyl tert-butyl ether (MTBE)
Diisopropyl ether (DIPE)	

1mL @ 2,000 µg/mL in Methanol

Catalog#: 8015-OX

Acrolein and Acrylonitrile

2 Certified Components:

Acrolein
Acrylonitrile

1 mL @ 2,000 µg/mL in water

Catalog#: 603-X

8015 Singles

Component @ 1,000 ug/mL:	Matrix	Catalog#
t-Amyl alcohol (TAA)	Methanol	S-260
t-Amyl ethyl ether (TAEE)	Methanol	S-4459
Paraldehyde	Methanol	S-2913
Triethylamine	Methanol	S-3702
Reference Gasoline Range Organics	Methanol	GRO-1000
Reference Diesel Range Organics	Methanol	DRO-1000

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 8021

EPA method 8021 is a general analytical method for the monitoring VOCs by GC megabore capillary column techniques and Hall and Photoionization (PID) Detectors.

8021 Singles

Component @ 1,000 ug/mL:	Matrix	Catalog#
Allyl chloride	Methanol	S-210
Benzyl chloride	Methanol	S-465
Bromoacetone	Methanol	S-522
2-Chloroethanol	Methanol	S-847
2-Chloroethyl vinyl ether	Methanol	S-855
Chloromethyl methyl ether	Methanol	S-877
Chloroprene	Methanol	S-930
Epichlorohydrin	Methanol	S-1860

8021 Surrogate

1 Certified Component:

4-Bromochlorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-534

1 Certified Component:

1,4-Dichlorobutane

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-1365

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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 Methanol

Catalog#: 5242-VCX

1 mL @ 200 µg/mL in Methanol

Catalog#: 5242-VCX-200**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 Methanol

Catalog#: 8020-A**Mix B - Purgeable Gases****6 Certified Components:**

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5022-BH

1 mL @ 200 µg/mL in Methanol

Catalog#: 5022-B**Method 8021B Analytes (Purge & Trap)****4 Certified Components:**

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

1 mL @ 2,000 µg/mL in 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 Methanol

Catalog#: 8021B-XB**Internal Standard****1 Certified Component:** α,α,α -Trifluorotoluene

1 mL @ 200 µg/mL in Methanol

Catalog#: 602-I**Internal Standard****2 Certified Components:**

2-Bromo-1-chloropropane
Fluorobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 5022-I**Surrogate Standard****2 Certified Components:**

Bromochlorobenzene
1,4-Dichlorobutane

1 mL @ 1,000 µg/mL in Methanol

Catalog#: 8021B-S

METHOD 8260

EPA method 8263 is a general analytical method for the monitoring VOCs by GC-MS.

"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 Methanol

Catalog#: 60-BIG-MIX

1 mL @ 200 µg/mL in Methanol

Catalog#: 60-BIG-MIX-200

1 mL @ 2,000 µg/mL in 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 Methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: 5022-BH

1 mL @ 200 µg/mL in Methanol

Catalog#: 5022-B

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 Methanol

Catalog#: 5242-CH

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 Methanol

Catalog#: 5242-DH

Volatile Organics Combination Mix

Contains all analytes in Mixes A, C and D that appear on the previous page.

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 Methanol

Catalog#: 5242-VCX

54 Certified Components:

1 mL @ 200 µg/mL in 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 Methanol

Catalog#: V53-524

"Big-Mix"

Volatile Organics Mix with 76 Certified Components

76 Certified Components:

Acetonitrile	trans-1,3-Dichloropropene
Acrylonitrile	1,4-Dioxane
Allyl chloride	Ether
Benzene	Ethylbenzene
Bromobenzene	Ethyl methacrylate
Bromochloromethane	Hexachlorobutadiene
Bromodichloromethane	Iodomethane
Bromoform	Isopropylbenzene
n-Butylbenzene	p-Isopropyltoluene
sec-Butylbenzene	Methacrylonitrile
tert-Butylbenzene	Methyl acrylate
Carbon disulfide	Methyl methacrylate
Carbon tetrachloride	Methylene chloride
Chlorobenzene	2-Methyl-1-propanol
2-Chloro-1,3-butadiene	Naphthalene
2-Chloroethanol	Nitrobenzene
Chloroform	2-Nitropropane
2-Chlorotoluene	Pentachloroethane
4-Chlorotoluene	Propionitrile
Dibromochloromethane	n-Propylbenzene
1,2-Dibromo-3-chloropropane	Styrene
1,2-Dibromoethane	1,1,1,2-Tetrachloroethane
Dibromomethane	1,1,2,2-Tetrachloroethane
1,2-Dichlorobenzene	Tetrachloroethene
1,3-Dichlorobenzene	Tetrahydrofuran
1,4-Dichlorobenzene	Toluene
cis-1,4-Dichloro-2-butene	1,2,3-Trichlorobenzene
trans-1,4-Dichloro-2-butene	1,2,4-Trichlorobenzene
1,1-Dichloroethane	1,1,1-Trichloroethane
1,2-Dichloroethane	1,1,2-Trichloroethane
1,1-Dichloroethene	Trichloroethene
cis-1,2-Dichloroethene	1,2,3-Trichloropropane
trans-1,2-Dichloroethene	1,1,2-Trichlorotrifluoroethane
1,2-Dichloropropane	1,2,4-Trimethylbenzene
1,3-Dichloropropane	1,3,5-Trimethylbenzene
2,2-Dichloropropane	m-Xylene
1,1-Dichloropropene	o-Xylene
cis-1,3-Dichloropropene	p-Xylene

1mL @ 2,000 µg/mL in Methanol

Catalog#: 8260-BIG-MIX

8260-KET

4 Certified Components:

Acetone	2-Hexanone
2-Butanone	Methyl isobutyl ketone

1 mL @ 5,000 µg/mL in Methanol:DIH₂O (9:1)

Catalog#: 8260-KET

8260 Volatile Organics Combination Mix

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 Methanol

Catalog#: 8240-25

Volatile 3 Matrix Spike

5 Certified Components:

Benzene	Toluene
Chlorobenzene	Trichloroethene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CLPV-MH

GC-MS Tuning Standard (BFB)

1 Certified Component:

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in Methanol

Catalog#: CLPV-TH

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-550

Surrogate Standard

3 Certified Components:

4-Bromofluorobenzene
Dibromofluoromethane
Toluene-d₈

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 8260-S

8240 Surrogate Standard

3 Certified Components:

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

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CLPV-SH

Alternate Four-Component Surrogate Standard

4 Certified Components:

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

1 mL @ 2,000 µg/mL in 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 Methanol

Catalog#: 8260-I

Internal Standard

3 Certified Components:

Chlorobenzene-d₅
1,4-Dichlorobenzene-d₄
Fluorobenzene

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 8260A-I

"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 Methanol

Catalog#: 8260-EH

1 mL @ 200 µg/mL in Methanol

Catalog#: 8260-E

2-Chloroethylvinyl Ether Stock Standard

1 Certified Component:

2-Chloroethylvinyl ether

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-855

1 mL @ 2,000 µg/mL in Methanol

Catalog#: S-855-2K

Vinyl Acetate Stock Standard

1 Certified Component:

Vinyl acetate

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-3800

Combined Stock Standard

2 Certified Components:

2-Chloroethylvinyl ether

Vinyl acetate

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CNVA

Ethylene Oxide Stock Standard

1 Certified Component:

Ethylene oxide

1 mL @ 1,000 µg/mL in 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 Methanol

Catalog#: S-930

1 mL @ 2,000 µg/mL in Methanol

Catalog#: S-930-2K

CLP SERIES - VOLATILES

The US EPA retains analytical services through the Contract Lab Program (CLP). The CLP follows detailed SOPs derived from EPA methods and SW-846. The CLP Volatile Organic Analysis method is an analytical method for the analysis of aqueous or solid samples for VOCs by GC-MS.

SOM 2.0 Volatiles

42 Certified Components:

Benzene	cis-1,3-Dichloropropene
Bromochloromethane	trans-1,3-Dichloropropene
Bromodichloromethane	Dibromochloromethane
Bromoform	Ethylbenzene
Carbon disulfide	Isopropylbenzene
Carbon tetrachloride	Methyl acetate
Chlorobenzene	Methyl tert-butyl ether
Chloroform	Methylcyclohexane
Cyclohexane	Methylene chloride
1,2-Dichlorobenzene	Styrene
1,3-Dichlorobenzene	Tetrachloroethene
1,4-Dichlorobenzene	1,1,2,2-Tetrachloroethane
1,2-Dibromo-3-chloropropane	Toluene
1,2-Dibromoethane	1,2,3-Trichlorobenzene
1,1-Dichloroethane	1,2,4-Trichlorobenzene
1,2-Dichloroethane	1,1,1-Trichloroethane
1,1-Dichloroethene	1,1,2-Trichloroethane
cis-1,2-Dichloroethene	1,1,2-Trichloro-1,2,2-trifluoroethane
trans-1,2-Dichloroethene	m-Xylene
trans-1,3-Dichloropropene	o-Xylene
1,2-Dichloropropane	p-Xylene

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CLPV-SOM2

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 Methanol

Catalog#: CLPV-43CH

Mix B - Purgeable Gases for OLM04.1

6 Certified Components:

Bromomethane	Dichlorodifluoromethane
Chloroethane	Trichlorofluoromethane
Chloromethane	Vinyl chloride

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5022-BH

1 mL @ 200 µg/mL in Methanol

Catalog#: 5022-B

Volatile Organics Combination Standard

CLP Volatiles Mix

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 Methanol

Catalog#: CLPV-32CH

Mix B - Purgeable gases

4 Certified Components:

Bromomethane	Chloromethane
Chloroethane	Vinyl chloride

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CLPV-BH

Helpful Hint:

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

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 Methanol

Catalog#: CLPV-AH

1 mL @ 200 µg/mL in Methanol

Catalog#: CLPV-A**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 Methanol

Catalog#: CLPV-D90H**Volatiles Mix D
for CLP SOW Alternate****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 Methanol

Catalog#: CLPV-DH**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 Methanol

Catalog#: CLPV-041X**2-Chloroethylvinyl Ether Stock Standard****1 Certified Component:**

2-Chloroethylvinyl Ether

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-855**Vinyl Acetate Stock Standard****1 Certified Component:**

Vinyl Acetate

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-3800**Combined Stock Standard****2 Certified Components:**

2-Chloroethylvinyl ether

Vinyl acetate

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CNVA**Volatile Surrogate Standard
(System Monitoring Compounds)****3 Certified Components:**

4-Bromofluorobenzene

1,2-Dichloroethane-d₄Toluene-d₈

1 mL @ 2,500 µg/mL in Methanol

Catalog#: CLPV-SH**Matrix Spike****5 Certified Components:**

Benzene	Trichloroethene
Chlorobenzene	Toluene
1,1-Dichloroethene	

1 mL @ 2,000 µg/mL in Methanol

Catalog#: CLPV-MH**GC-MS Tuning Standard (BFB)****1 Certified Component:**

4-Bromofluorobenzene

1 mL @ 2,500 µg/mL in Methanol

Catalog#: CLPV-TH

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-550

TCLP VOLATILES 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 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 Methanol

Catalog#: TCLP-VA

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 Methanol

Catalog#: TCLP-V

SPECIALTY VOLATILES APPLICATION STANDARDS

Acetaldehyde Standards

Concentration	Volume	Catalog#
1,000 µg/mL in water	1.8 mL	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	Catalog#
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 ext. 444** to discuss your requirements.

Semivolatiles

Single & Multi-Component Standards
for GC, GC-MS, LC & LC-MS



Serving the Chromatography Community, One Peak at a Time.™

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*

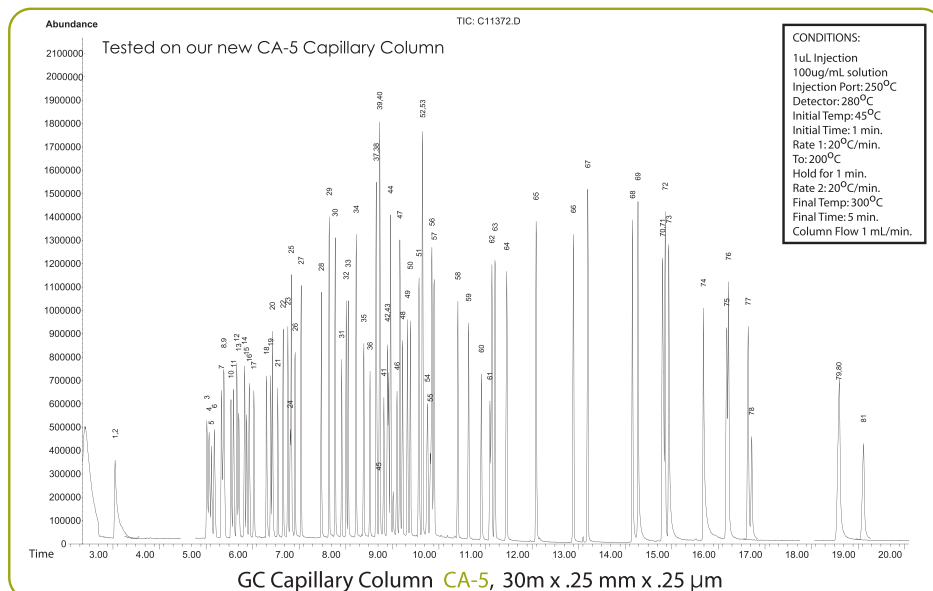
- 1 Pyridine
- 2 n-Nitrosodimethylamine
- 3 Phenol
- 4 Aniline
- 5 bis(2-Chloroethyl)ether
- 6 2-Chlorophenol
- 7 1,3-Dichlorobenzene
- 8 **1,4-Dichlorobenzene-d4 IS[§]**
- 9 1,4-Dichlorobenzene
- 10 Benzyl Alcohol
- 11 1,2-Dichlorobenzene
- 12 2-Methylphenol
- 13 2,2'-oxybis(1-Chloropropane)
- 14 3+4-Methylphenols*
- 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



CONDITIONS:
1µL Injection
100µg/mL solution
Injection Port: 250°C
Detector: 280°C
Initial Temp: 45°C
Initial Time: 1 min.
Rate: 1:20°C/min.
To: 200°C
Hold for 1 min.
Rate: 2:20°C/min.
Final Temp: 300°C
Final Time: 5 min.
Column Flow 1 mL/min.

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-12 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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SPEX CertiPrep®

Semivolatiles

METHOD 506

EPA method 506 is an analytical method for the monitoring of phthalate and adipate esters in drinking water by GC-PID.

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

EPA method 525 is an analytical method for the monitoring of SVOAs in drinking water and raw water sources by GC-MS.

Method 525.3 Mix A

18 Certified Components:

Acetochlor	Nitrofen
Butylated hydroxytoluene (BHT)	Oxyfluorfen
Chlorfenvinphos	Phorate
DEET (N,N Diethylmetatoluamide)	Phosphamidon
Dimethipin	Profenofos
2,4-Dinitrotoluene	Tebuconazole
2,6-Dinitrotoluene	Tetrachlorvinphos
Ethyl parathion	Tribufos
Methyl parathion	Vinclozolin

1mL @ 1,000 µg/mL in Acetone

Catalog#: 5253-A

Method 525.3 PCB Mix

14 Certified Components:

- 2- Chlorobiphenyl (1)
- 4-Chlorobiphenyl (3)
- 2,4'-Dichlorobiphenyl (8)
- 2,2',5-Trichlorobiphenyl (18)
- 2,4,4'-Trichlorobiphenyl (28)
- 2,2',3,5'-Tetrachlorobiphenyl (44)
- 2,2',5,5'-Tetrachlorobiphenyl (52)
- 2,3',4',5-Tetrachlorobiphenyl (70)
- 2,3,3',4',6-Pentachlorobiphenyl (110)
- 2,3',4,4',5-Pentachlorobiphenyl (118)
- 2,2',3,4,4',5'- Hexachlorobiphenyl (138)
- 2,2',3,4',5',6-Hexachlorobiphenyl (149)
- 2,2',4,4',5,5'-Hexachlorobiphenyl (153)
- 2,2',3,4,4',5,5'-Heptachlorobiphenyl (180)

1mL @ 200 µg/mL in Acetone

Catalog#: 5253-PCB

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

Need larger quantities?

Volume discounts are available!
Call us at **1-800-LAB-SPEX**
for more information.

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

Nitrogen-Phosphorous Pesticides Mix D

9 Certified Components:

Fenamiphos	Hexazinone	Terbuthiuron
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 sulfoxide
Disulfoton	Merphos

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

Chlordane 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

Internal Standard**3 Certified Components:**

Acenaphthene-d₁₀
 Chrysene-d₁₂
 Phenanthrene-d₁₀

1 mL @ 500 µg/mL in Acetone

Catalog#: 5252-I

Internal Standard Single**1 Certified Component:**

13C-Pentachlorophenol (IS-4)

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-4202

525.3 Surrogate**3 Certified Components:**

Benzo[a]pyrene-d₁₂
 2-Nitro-m-xylene
 Triphenyl phosphate

1 mL @ 1,000 µg/mL in Acetone

Catalog#: 5253-S

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 535

EPA method 535 is an analytical method for the monitoring of Chloroacetanilide and other Acetamide herbicide degradates in drinking water by SPE followed by LC-MS-MS.

Chloroacetanilide and Acetamide Herbicide Degradates Standard**6 Certified Components:**

Acetochlor ESA	Alachlor OA
Acetochlor OA	Metochlor ESA
Alachlor ESA	Metochlor OA

1 mL @ 500 µg/mL in Methanol

Catalog#: 535-A

1 Certified Component:

Dimethachlor ESA

1 mL @ 500 µg/mL in Methanol

Catalog#: 535-I

1 Certified Component:

Butachlor ESA

1 mL @ 500 µg/mL in Methanol

Catalog#: 535-S

Helpful Hint:

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

METHOD 550

EPA methods 550 and 550.1 are an analytical methods for the monitoring of PAHs in drinking water by HPLC with UV and fluorescence detectors.

PAH Analyte Mix

16 Certified Components:

	$\mu\text{g/mL}$		$\mu\text{g/mL}$
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 $\mu\text{g/mL}$ in Acetonitrile

Catalog#: 550-I

METHOD 552

EPA method 552 is an analytical method for the monitoring of haloacetic acids and phenolic disinfectant byproducts in drinking water by GC-ECD.

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 $\mu\text{g/mL}$ 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 $\mu\text{g/mL}$ in Methyl tert-butyl ether

Catalog#: 552-MEO

Analyte Mix A

7 Certified Components:

	$\mu\text{g/mL}$		$\mu\text{g/mL}$
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

Helpful Hint:

Custom standards? No problem!
Visit our web site to submit your request online:
www.spexcertiprep.com/customorganics.

Method 552.2 Analytes as Free Acids**11 Certified Components:**

	$\mu\text{g/mL}$
Bromochloroacetic acid	400
Bromodichloroacetic acid	400
Chlorodibromoacetic acid	1,000
Dalapon	400
Dibromoacetic acid	200
2,3-Dibromopropionic acid (surrogate)	1,000
Dichloroacetic acid	600
Monobromoacetic acid	400
Monochloroacetic acid	600
Tribromoacetic acid	2,000
Trichloroacetic acid	200

1 mL in Methyl tert-butyl ether

Catalog#: 5522-AS*(same as Method 552.2 Analytes as Free Acids, but without surrogate)***10 Certified Components:**

1 mL in Methyl tert-butyl ether

Catalog#: 5522-A**Methyl Esters****11 Certified Components:**

	$\mu\text{g/mL}$
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 Method 552.2 Analytes as Free Acids, 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 $\mu\text{g/mL}$ in Methyl tert-butyl ether**Catalog#: S-3665****Surrogate Standard****1 Certified Component:**

2-Bromopropionic acid

1 mL @ 1,000 $\mu\text{g/mL}$ in Methyl tert-butyl ether**Catalog#: S-3895****552 Surrogate****1 Certified Component:**

2,3-Dichloropropanoic acid

1 mL @ 1,000 $\mu\text{g/mL}$ in Methyl tert-butyl ether**Catalog#: S-2598**

Did You Know?

On SPEX CertiPrep's website you can search by CAS number or component name on our site search tool and on our Custom Standards Request Form for singles and mixes.

METHOD 604

EPA method 604 is an analytical method for the monitoring of phenols in municipal and industrial wastewater by GC-FID

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

EPA method 605 is an analytical method for the monitoring of benzidines in municipal and industrial wastewater by HPLC and an electrochemical detector.

Analyte 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

Did you Know?

Do you want to have faster access to SPEX CertiPrep products searches?
Wish you could search from our offering of over 5000 products, right from your browser's search or navigation bar?

Add the SPEX CertiPrep Search Provider to your browser and you can simply type your search term into your browser's navigation bar (Internet Explorer 8+ and Google Chrome) or search bar (Firefox) and select SPEX CertiPrep as your search provider. Press enter, and you'll be taken directly to the results page!

METHOD 606

EPA method 606 is an analytical method for the monitoring of phthalate esters in municipal and industrial wastewater by GC-ECD.

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 612

EPA method 612 is an analytical method for the monitoring of chlorinated hydrocarbons in municipal and industrial wastewater by GC-ECD.

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

EPA method 625 is an analytical method for the monitoring of acid and base-neutral extractable fractions in municipal and industrial wastewater by GC-MS.

"Big-Mix" - Base Neutral & Acid Combination Calibration Standard

Semivolatile Organics Mix with 76 Certified Components

76 Certified Components:

Acenaphthene	Di-n-butyl phthalate
Acenaphthylene	Di-n-octyl phthalate
Azobenzene*	bis(2-Ethylhexyl)adipate
Benz(a)anthracene	bis(2-Ethylhexyl)phthalate
Benzo(a)pyrene	Fluoranthene
Benzo(b)fluoranthene	Fluorene
Benzo(g,h,i)perylene	Hexachlorobenzene
Benzo(k)fluoranthene	Hexachlorobutadiene
Benzyl alcohol	Hexachlorocyclopentadiene
4-Bromodiphenyl ether	Hexachloroethane
Butylbenzyl phthalate	Indeno(1,2,3-c,d)pyrene
Carbazole	Isophorone
4-Chloroaniline (p-Chloroaniline)	1-Methylnaphthalene
bis(2-Chloroethoxy)methane	2-Methylnaphthalene
bis(2-Chloroethyl)ether	2-Methylphenol***
bis(2-Chloro-1-methylethyl) ether	3-Methylphenol***
2-Chloronaphthalene	4-Methylphenol
2-Chlorophenol	Naphthalene
4-Chlorophenyl-phenyl ether	2-Nitroaniline
4-Chloro-3-methylphenol	3-Nitroaniline
Chrysene	4-Nitroaniline
Dibenzofuran	Nitrobenzene
Dibenz(a,h)anthracene	2-Nitrophenol
1,2-Dichlorobenzene	4-Nitrophenol
1,3-Dichlorobenzene	Aniline
1,4-Dichlorobenzene	N-Nitrosodimethylamine**
2,4-Dichlorophenol	N-Nitrosodi-n-propylamine
Diethyl phthalate	Anthracene
Dimethyl phthalate	Pentachlorophenol
2,4-Dimethylphenol	Phenanthrene
1,2-Dinitrobenzene	Phenol
1,3-Dinitrobenzene	Pyrene
1,4-Dinitrobenzene	Pyridine
2,4-Dinitrophenol	2,3,4,6-Tetrachlorophenol
2,4-Dinitrotoluene	2,3,5,6-Tetrachlorophenol
2,6-Dinitrotoluene	1,2,4-Trichlorobenzene
4,6-Dinitro-2-methylphenol	2,4,5-Trichlorophenol
Diphenylamine**	2,4,6-Trichlorophenol

*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 - Base Neutral & Acid Combination Calibration Standard

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

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

Catalog#: CLPS-A

Helpful Hint:

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

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**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****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****1 Certified Component:**

3,3'-Dichlorobenzidine

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 625-E**Additional Analytes****2 Certified Components:**

Benidine
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 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 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, 1 mL each in Hexane

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

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

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

Need larger quantities?

Volume discounts are available!
Call us at **1-800-LAB-SPEX**
for more information.

Optional: 625 Base Neutral IS/SS

Component @ 1,000 ug/mL:	Matrix	Catalog#
Anthracene-d10	MeCl ₂	S-291
Benzo(a)anthracene-d12	Methanol	S-4759
4,4'-Dibromobiphenyl	Acetone	S-1228
4,4'-Dibromooctafluorobiphenyl	MTBE	S-1250
Decafluorobiphenyl	Methanol	S-1103
2,2'-Difluorobiphenyl	Methanol	S-1542
4-Fluoroaniline	Methanol	S-4048
1-Fluoronaphthalene	Methanol	S-2047
2-Fluoronaphthalene	Methanol	S-4308
Naphthalene-d8	Methanol	S-2660
Nitrobenzene-d5	Methanol	S-2710
Phenanthrene-d10	MeCl ₂	S-3020
Pyridine-d5	Methanol	S-3937

High Concentration Organic Tinted Indicator Surrogates

4 Certified Components:

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 @ 2,000 µg/mL in Methanol

Catalog#: CLPS-SA5

1 mL @ 10,000 µg/mL in Methanol

Catalog#: CLPS-SAH

625 Acid IS/SS

Component @ 1,000 ug/mL:	Matrix	Catalog#
2-Fluorophenol	Methanol	S-2050
Pentafluorophenol	Methanol	S-4047
Phenol-d5	MeCl ₂	S-4195-MC

Internal Standard

6 Certified Components:

Acenaphthene-d₁₀ Naphthalene-d₈
Chrysene-d₁₂ Perylene-d₁₂
1,4-Dichlorobenzene-d₄ Phenanthrene-d₁₀

1 mL @ 4,000 µg/mL in Methylene chloride:Benzene

Catalog#: CLPS-I

2 mL @ 2,000 µg/mL in Methylene chloride:Benzene

Catalog#: CLPS-I2

Alternate Internal Standard

6 Certified Components:

Acenaphthene-d₁₀ Naphthalene-d₈
Chrysene-d₁₂ Perylene-d₁₂
1,4-Dichlorobenzene-d₄ Phenanthrene-d₁₀

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

Catalog#: CLPS-I90

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

Base/Neutrals Tinted Matrix Spike

7 Certified Components:

1,2,4-Trichlorobenzene	Bromophenol blue
1,4-Dichlorobenzene	N-Nitrosodi-n-propylamine
2,4-Dinitrotoluene	Pyrene
Acenaphthene	

1 mL @ 1,000 µg/mL in Methanol

Catalog#: CLPS-MSB-TI

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

GC-MS Test Mix

2 Certified Components:

DFTPP
Pentachlorophenol

1 mL @ 250 µg/mL in Methylene Chloride

Catalog#: 625-T2

METHOD 8041

EPA method 8041 is a general analytical method for the monitoring of phenols by GC-FID or 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 Singles

Component @ 1,000 ug/mL:	Matrix	Catalog#
2-Chloro-5-methylphenol	Methanol	S-946
4-Chloro-2-methylphenol	Methanol	S-3979
3-Chlorophenol	Methanol	S-901
4-Chlorophenol	Methanol	S-906
2,3-Dichlorophenol	Methanol	S-1406
2,5-Dichlorophenol	Methanol	S-1412
3,4-Dichlorophenol	Methanol	S-1416
3,5-Dichlorophenol	Methanol	S-1417
2,3-Dimethylphenol	Methanol	S-1659
2,5-Dimethylphenol	Acetone	S-1661
2,6-Dimethylphenol	Methanol	S-1662
3,4-Dimethylphenol	Methanol	S-1664
2,5-Dinitrophenol	Methanol	S-3980
3-Nitrophenol	Methanol	S-2728
2,3,4-Trichlorophenol	Methanol	S-3625
2,3,5-Trichlorophenol	Methanol	S-3630
2,3,6-Trichlorophenol	Methanol	S-3635

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.

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****1 Certified Component:**

2,4-Dibromophenol

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-5148**Internal Standard****2 Certified Components:**

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

1 mL @ 1,000 µg/mL in Isopropanol

Catalog#: 8041-I**Internal Standards****1 Certified Component:**

2,5-Dibromotoluene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-1251**1 Certified Component:**

2,2',5,5'-Tetrabromobiphenyl

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-4144**METHOD 8061**

EPA method 8061 is an analytical method for the monitoring of phthalate esters in aqueous and solid samples by GC-MS or GC-ECD.

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 Components:**

Dibenzyl phthalate
Diphenyl isophthalate
Diphenyl phthalate

1 mL @ 500 µg/mL in Hexane

Catalog#: 8060-S**Did You Know?**

SPEX CertiPrep's chemists have decades of experience and are available to answer your questions. Submit your questions to askachemist@spex.com and receive a free gift if we post your question on our website.

Method 8061 Additional Analytes

Component @ 1,000 ug/mL:	Matrix	Catalog#
Bis(2-n-butoxyethyl)phthalate	Methanol	S-4152
Bis(2-ethoxyethyl)phthalate	Methanol	S-4550
Bis(2-methoxyethyl)phthalate	Methanol	S-4156
Bis(4-methyl-2-pentyl)phthalate	Methanol	S-4154
Diamyl phthalate	Methanol	S-4157
Dicyclohexyl phthalate	Methanol	S-4151
Di-n-hexyl phthalate	Methanol	S-4155
Diisobutyl phthalate	Methanol	S-4150
Dinonyl phthalate	Methanol	S-4153
Hexyl 2-ethylhexyl phthalate	Methanol	S-4158

METHOD 8100

EPA method 8100 is an analytical method for the monitoring of PNA hydrocarbons in aqueous and solid samples by GC-FID.

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

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,i)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

Did You Know?

SPEX CertiPrep has many more individual standards that can be seen online at www.spexcertiprep.com

METHOD 8121

EPA method 8121 is an analytical method for the monitoring of chlorinated hydrocarbons in environmental and waste samples by GC-ECD.

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

Method 8121 Chlorinated Hydrocarbons QC Mix

22 Certified Components:

Benzal Chloride	gamma-BHC
Benzotrichloride	delta-BHC
Benzyl Chloride	Hexachlorocyclopentadiene
2-Chloronaphthalene	Hexachloroethane
1,2-Dichlorobenzene	Pentachlorobenzene
1,3-Dichlorobenzene	1,2,3,4-Tetrachlorobenzene
1,4-Dichlorobenzene	1,2,4,5-Tetrachlorobenzene
Hexachlorobenzene	1,2,3,5-Tetrachlorobenzene
Hexachlorobutadiene	1,2,4-Trichlorobenzene
alpha-BHC	1,2,3-Trichlorobenzene
beta-BHC	1,3,5-Trichlorobenzene

1 mL @ 100 µg/mL in Acetone

Catalog#: 8121-B

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 8270

EPA method 8270 is a general analytical method for the monitoring of SVOA in environmental and waste samples by GC-MS.

"Big-Mix" - Base Neutral & Acid Combination Calibration Standard

Semivolatile Organics Mix with 76 Certified Components

76 Certified Components:

Acenaphthene	2,6-Dinitrotoluene
Acenaphthylene	4,6-Dinitro-2-methylphenol
Aniline	Diphenylamine**
Anthracene	Di-n-butyl phthalate
Azobenzene	Di-n-octyl phthalate
*Benz(a)anthracene	bis-(2-Ethylhexyl)adipate
Benzo(a)pyrene	Fluoranthene
Benzo(b)fluoranthene	Fluorene
bis(2-Ethylhexyl)phthalate	Hexachlorobenzene
Benzo(g,h,i)perylene	Hexachlorobutadiene
Benzo(k)fluoranthene	Hexachlorocyclopentadiene
Benzyl alcohol	Hexachloroethane
4-Bromodiphenyl ether	Indeno(1,2,3-c,d)pyrene
Butylbenzyl phthalate	Isophorone
Carbazole	1-Methylnaphthalene
4-Chloroaniline (p-Chloroaniline)	2-Methylnaphthalene
bis(2-Chloroethoxy)methane	2-Methylphenol***
bis(2-Chloroethyl)ether	3-Methylphenol***
bis(2-Chloro-1-methylethyl) ether	4-Methylphenol
2-Chloronaphthalene	Naphthalene
2-Chlorophenol	2-Nitroaniline
4-Chlorophenyl-phenyl ether	3-Nitroaniline
4-Chloro-3-methylphenol	4-Nitroaniline
Chrysene	Nitrobenzene
Dibenzofuran	2-Nitrophenol
Dibenz(a,h)anthracene	4-Nitrophenol
1,2-Dichlorobenzene	N-Nitrosodimethylamine**
1,3-Dichlorobenzene	N-Nitrosodi-n-propylamine
1,4-Dichlorobenzene	Pentachlorophenol
2,4-Dichlorophenol	Phenanthrene
Diethyl phthalate	Phenol
Dimethyl phthalate	Pyrene
2,4-Dimethylphenol	Pyridine
1,2-Dinitrobenzene	2,3,4,6-Tetrachlorophenol
1,3-Dinitrobenzene	2,3,5,6-Tetrachlorophenol
1,4-Dinitrobenzene	1,2,4-Trichlorobenzene
2,4-Dinitrophenol	2,4,5-Trichlorophenol
2,4-Dinitrotoluene	2,4,6-Trichlorophenol

*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 8270 Singles

Component @ 1,000 ug/mL:	Matrix	Catalog#
2-Acetylaminofluorene	Methanol	S-130
1-Acetyl-2-thiourea	Methanol	S-160
2-Aminoanthraquinone	MeCl ₂ : Benzene:THF	S-220
Aminoazobenzene	Methanol	S-3065
3-Amino-9-ethylcarbazole	Methanol	S-0226
Anilazine	Methanol	S-275
o-Anisidine	Methanol	S-285
Aramite	MeCl ₂	S-305
Barban	Methanol	S-375
p-Benzoquinone	Methanol	S-420
Bromoxynil	Methanol	S-575
Carbophenothion	Methanol	S-755
Chlorfenvinphos	Acetone	S-785
5-Chloro-2-methylaniline	Methanol	S-0941
3-(Chloromethyl)pyridine Hydrochloride	Methanol	S-3116
4-Chloro-1, 2-phenylenediamine	Acetonitrile	S-954
4-Chloro-1, 3-phenylenediamine	Acetone	S-907
p-Cresidine	Methanol	S-2415
2-Cyclohexyl-4, 6-dinitro-phenol	MeCl ₂	S-1029
2,4-Diaminotoluene	Methanol	S-1160
Dibenzo(a,e)pyrene	MeCl: Benzene	S-1200
1,2-Dibromo-3-chloropropane	Methanol	S-1255
Dichlone	Methanol	S-1275
Dichlorovos	Methanol	S-1475
Diethylstilbestrol	Methanol	S-1530

Component @ 1,000 ug/mL:	Matrix	Catalog#
Diethyl sulfate	Methanol	S-1520
3,3'-Dimethoxybenzidine	Methanol	S-1565
a,a-Dimethylphenethylamine	Methanol	S-3899
Dinocap	Methanol	S-1705
5,5-Diphenylhydantoin	Methanol	S-1745
Ethyl carbamate	Methanol	S-3785
2-Fluorobiphenyl (surr)	Methanol	S-2045
2-Fluorophenol (surr)	Methanol	S-2050
Hexachlorophene	MeCl ₂	S-2160
Hexamethylphosphoramide	Methanol	S-2185
Hydroquinone	Methanol	S-2235
Kepone	Methanol	S-2340
Leptophos	Methanol	S-2345
Maleic anhydride	Methanol	S-2357
Mestranol	Methanol	S-2369
4,4'-Methylenebis (2-chloroaniline)	Methanol	S-5941
4,4'-Methylenebis (N,N-dimethyl-aniline)	Methanol	S-1661
Mirex	Hexane:Toluene	S-2635
Naled	MeCl ₂	S-2650
Nicotine	Methanol	S-2680
5-Nitroacenaphthene	Methanol	S-2685
5-Nitro-o-anisidine	Methanol	S-2420
4-Nitrobiphenyl	Methanol	S-2715
Nitrofen	Methanol	S-2720
4,4'-Oxydianiline	Methanol	S-240
Phenacetin	MeCl ₂	S-150

METHOD 8270C

"SHORT LIST" ORIGINAL FORMULATIONS

Component @ 1,000 ug/mL:	Matrix	Catalog#
1,4-Phenylenediamine	Methanol	S-3070
Phthalic anhydride	Methanol	S-3100
Propylthiouracil	Methanol	S-2242
Resorcinol	Methanol	S-3250
Strychnine	Methanol	S-3295
Tetrachlorvinphos	Acetone	S-3425
Tetraethyl dithiopyrophosphate	Methanol	S-3455
Tetraethyl pyrophosphate	Methanol	S-3315
Thiophenol (Benzenethiol)	Methanol	S-3495
Toluene diisocyanate	Methanol	S-3530
Trifluralin	Methanol	S-3715
2,4,5-Trimethylaniline	Methanol	S-3718
Trimethyl phosphate	Methanol	S-3740
1,3,5-Trinitrobenzene	Methanol	S-3760
Tris(2,3-dibromopropyl) phosphate	MeCl ₂	S-3773

**BIG-BN-2 - Base Neutral & Acid
Combination Calibration Standard**

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

Did You Know?

On SPEX CertiPrep's website you can search by CAS number or component name on our site search tool and on our Custom Standards Request Form for singles and mixes.

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:

Benidine
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

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

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

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

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

Organochlorine Pesticides**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

**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 µg/mL in Acetone

Catalog#: 8270-IXJ

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 µg/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 µg/mL in Methylene chloride

Catalog#: 8270-AF-C

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	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 MeCl₂:Benzene

Catalog#: 8270-AF-M

Did You Know?

SPEX CertiPrep has a library of YouTube webinars on a variety of interesting subjects such as trace metals in wine, analysis of phthalates and BPA in children's toys, and clean laboratory techniques.

View these videos at

www.spexcertiprep.com/knowledge-base/webinars

"LONG LIST" APPENDIX IX COMPOUNDS - ALTERNATIVE FORMULATIONS

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

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

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 µg/mL in Acetone

Catalog#: 8270-N

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**Decachlorobiphenyl Stock Standard****1 Certified Component:**

Decachlorobiphenyl

1 mL @ 5,000 µg/mL in Toluene

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

Did you Know?

SPEX CertiPrep offers a number of informative Application Notes on our website with topics ranging from "Analysis of Laboratory Water for BPA and Phthalates" to "Analysis of Lipstick for Toxic Elements Using ICP-MS."

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

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

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

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

Base/Neutrals Tinted Matrix Spike

7 Certified Components:

1,2,4-Trichlorobenzene	Bromophenol blue
1,4-Dichlorobenzene	N-Nitrosodi-n-propylamine
2,4-Dinitrotoluene	Pyrene
Acenaphthene	

1 mL @ 1,000 µg/mL in Methanol

Catalog#: CLPS-MSB-TI

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

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-Dimethyl-benz(a)anthracene	Phenanthrene
Pyrene	Pyridine
1,2-Dichlorobenzene	Quinoline
1,3-Dichlorobenzene	

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

Catalog#: SKINNER-SV**METHOD 8310**

EPA method 8370 is an analytical method for the monitoring of PNA hydrocarbons in groundwater and waste samples by HPLC using UV and fluorescence detectors.

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

CLP SERIES – SEMIVOLATILES

The US EPA retains analytical services through the Contract Lab Program (CLP). The CLP follows detailed SOPs derived from EPA methods and SW-846. The CLP Semivolatile Organic Analysis method is an analytical method for the analysis of aqueous or solid samples for SVOCs by GC-MS.

CLPS-SOM2A

65 Certified Components:

1,1'-Biphenyl	Benzo(b)fluoranthene
1,2,4,5-Tetrachlorobenzene	Benzo(g,h,i)perylene
4-Chloroaniline	Benzo(k)fluoranthene
2,3,4,6-Tetrachlorophenol	Bis(2-chloro-1-methylethyl) ether
2,4,5-Trichlorophenol	Bis(2-chloroethoxy)methane
2,4,6-Trichlorophenol	Bis(2-chloroethyl)ether
2,4-Dichlorophenol	Bis(2-ethylhexyl)phthalate
2,4-Dimethylphenol	Butylbenzyl phthalate
2,4-Dinitrophenol	Carbazole
2,4-Dinitrotoluene	Chrysene
2,6-Dinitrotoluene	Dibenz(a,h)anthracene
2-Chloronaphthalene	Dibenzofuran
2-Chlorophenol	Diethyl phthalate
2-Methylnaphthalene	Dimethyl phthalate
2-Methylphenol	Di-n-butyl phthalate
2-Nitroaniline	Di-n-octyl phthalate
2-Nitrophenol	Fluoranthene
3,3'-Dichlorobenzidine	Fluorene
3-Methylphenol*	Hexachlorobenzene
3-Nitroaniline	Hexachlorobutadiene
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene
4-Bromodiphenyl ether	Hexachloroethane
4-Chloro-3-methylphenol	Indeno(1,2,3-c,d)pyrene
4-Chlorophenyl-phenyl ether	Isophorone
4-Methylphenol*	Naphthalene
4-Nitroaniline	Nitrobenzene
4-Nitrophenol	N-Nitroso-di-n-propylamine
Acenaphthene	N-Nitrosodiphenylamine
Acenaphthylene	Pentachlorophenol
Acetophenone	Phenanthrene
Anthracene	Phenol
Benz(a)anthracene	Pyrene
Benzo(a)pyrene	

*3-methylphenol and 4-methylphenol concentration is 500 µg/mL.

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

Catalog#: CLPS-SOM2A

CLPS-SOM2B

3 Certified Components:

Benzaldehyde
Caprolactam
Atrazine

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

Catalog#: CLPS-SOM2B

SOM 02.0 Deuterated Monitoring Compounds Standard Spiking Solution

16 Certified Components:

Acenaphthylene-d8	4,6-Dinitro-2-methylphenol-d2
Anthracene-d10	Fluorene-d10
Benzo(a)pyrene-d12	4-Methylphenol-d8
4-Chloroaniline-d4	Nitrobenzene-d5
Bis(2-chloroethyl)ether-d8	2-Nitrophenol-d4
2-Chlorophenol-d4	4-Nitrophenol-d4
2,4-Dichlorophenol-d3	Phenol-d5
Dimethylphthalate-d6	Pyrene-d10

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

Catalog#: CLPS-SOM-ISA

SOM 02.0 Selected Ion Monitoring

2 Certified Components:

Fluoranthene-d10
2-Methylnaphthalene-d10

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

Catalog#: CLPS-SOM-ISB

Base Neutral Matrix Spike

4 Certified Components:

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

1mL @ 1,000 µg/mL in Methanol

Catalog#: CLPS-SOM-MSB

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

"Big-Mix" - Base Neutral & Acid Combination Calibration Standard

Semivolatile Organics Mix with 76 Certified Components

76 Certified Components:

Acenaphthene	2,6-Dinitrotoluene
Acenaphthylene	4,6-Dinitro-2-methylphenol
Aniline	Diphenylamine**
Anthracene	Di-n-butyl phthalate
Azobenzene	Di-n-octyl phthalate
*Benz(a)anthracene	bis-(2-Ethylhexyl)adipate
Benzo(a)pyrene	Fluoranthene
Benzo(b)fluoranthene	Fluorene
bis(2-Ethylhexyl)phthalate	Hexachlorobenzene
Benzo(g,h,i)perylene	Hexachlorobutadiene
Benzo(k)fluoranthene	Hexachlorocyclopentadiene
Benzyl alcohol	Hexachloroethane
4-Bromodiphenyl ether	Indeno(1,2,3-c,d)pyrene
Butylbenzyl phthalate	Isophorone
Carbazole	1-Methylnaphthalene
4-Chloroaniline (p-Chloroaniline)	2-Methylnaphthalene
bis(2-Chloroethoxy)methane	2-Methylphenol***
bis(2-Chloroethyl)ether	3-Methylphenol***
bis(2-Chloro-1-methylethyl) ether	4-Methylphenol
2-Chloronaphthalene	Naphthalene
2-Chlorophenol	2-Nitroaniline
4-Chlorophenyl-phenyl ether	3-Nitroaniline
4-Chloro-3-methylphenol	4-Nitroaniline
Chrysene	Nitrobenzene
Dibenzofuran	2-Nitrophenol
Dibenz(a,h)anthracene	4-Nitrophenol
1,2-Dichlorobenzene	N-Nitrosodimethylamine**
1,3-Dichlorobenzene	N-Nitrosodi-n-propylamine
1,4-Dichlorobenzene	Pentachlorophenol
2,4-Dichlorophenol	Phenanthrene
Diethyl phthalate	Phenol
Dimethyl phthalate	Pyrene
2,4-Dimethylphenol	Pyridine
1,2-Dinitrobenzene	2,3,4,6-Tetrachlorophenol
1,3-Dinitrobenzene	2,3,5,6-Tetrachlorophenol
1,4-Dinitrobenzene	1,2,4-Trichlorobenzene
2,4-Dinitrophenol	2,4,5-Trichlorophenol
2,4-Dinitrotoluene	2,4,6-Trichlorophenol

*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 - Base Neutral & Acid Combination Calibration Standard

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

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:

Benzdine
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 - 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

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

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 CONCENTRATION STATEMENT OF WORK SEMIVOLATILE CALIBRATION STANDARDS

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**Alternate Acid Surrogate for CLP SOW's****4 Certified Components:**

2-Chlorophenol-d₄ Phenol-d₅
 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

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

High Concentration Acid Surrogates

4 Certified Components:

2-Chlorophenol-d₄ 2-Fluorophenol
Phenol-d₆ 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

Alternate Acid Surrogate for CLP 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

Alternate High Concentration Acid Surrogates for CLP

3 Certified Components:

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

1 mL @ 10,000 µg/mL in Methanol

Catalog#: CLPS-SAH

5 mL @ 10,000 µg/mL in Methanol

Catalog#: CLPS-SAH5

Alternate Base/Neutrals Surrogate for CLP SOW's

4 Certified Components:

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

High Concentration Base/Neutrals Surrogate

4 Certified Components:

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

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

Alternate Base/Neutrals Surrogate for CLP SOW

3 Certified Components:

2-Fluorobiphenyl
Nitrobenzene-d₅
Terphenyl-d₁₄

1 mL @ 1,000 µg/mL in Methylene chloride:Acetone

Catalog#: CLPS-SB

High Concentration Base/Neutrals Surrogate

3 Certified Components:

2-Fluorobiphenyl
Nitrobenzene-d₅
Terphenyl-d₁₄

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

Organic Tinted Surrogates

4 Certified Components:

2-Fluorobiphenyl	µg/mL
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

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

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**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**Base/Neutrals Tinted Indicator Matrix Spike****7 Certified Components:**

Acenaphthene	N-Nitrosodi-n-propylamine
Bromophenol blue	Pyrene
1,4-Dichlorobenzene	1,2,4-Trichlorobenzene
2,4-Dinitrotoluene	

1 mL @ 1,000 µg/mL in Methanol

Catalog#: CLPS-MSB-TI**Alternate Combination Semivolatile Surrogates for CLP SOW****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 Methylene chloride:Acetone

Catalog#: CLP90-SURR**Organic Tinted Indicator Surrogate****9 Certified Components:**

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

1 mL in Methylene chloride:Acetone

Catalog#: CLP90-SURR-TI**Combination Semivolatile Surrogates for CLP SOW****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 Methylene chloride:Acetone

Catalog#: CLPS-SURR**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

METHOD 1311 - TCLP

EPA methods 1311 and 1312 are analytical methods for the monitoring of a wide range of compounds in 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



SECTION 4

LC & LC-MS

Single & Multi-Component Standards

LC & LC-MS Single & Multi-Component Standards

SPEX CertiPrep creates single and multi-component standards suitable for all HPLC detectors. Our standards are created in HPLC and LC-MS grade solvents to reduce potential interference and increase analytical accuracy.

High Performance Liquid Chromatography (HPLC) is a column-based chromatographic technique used to separate components in a mixture for identification and quantification. A pump system passes pressurized mobile phase and sample through a prefilled column containing a packing or sorbent which aids in the separation of component peaks. As each analyte in the mixture interacts with the column material it retards the flow of the analytes within the column. HPLC can be used for identification and quantification of compounds in a variety of fields from agriculture to medical and manufacturing uses.

A minimal HPLC instrument configuration includes a sampler, pumps, column compartment and a detector. There are a multitude of various detectors commonly in use with a HPLC system including: Refractive Index Detector (RID), UV/Vis Detector, Photodiode Array Detector and Mass Spectrometers. Each of these detectors have their own range of use and sensitivity from the broad range RID detector with its higher detection limits to the powerful and sensitive LC-MS techniques used for extremely low levels of detection.



Leave No Peak Undetected



NEW! LC/MS Single and Custom Standards
www.spexcertiprep.com/products/organics

HPLC/LC-MS Single-Component Organic Standards

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Abamectin	71751-41-2	HPLC Acetonitrile	LCS-6014	Chlorbromuron	13360-45-7	HPLC Acetonitrile	LCS-769
Abate	3383-96-8	HPLC Acetonitrile	LCS-102	Chlorfluzuron	71422-67-8	HPLC Acetonitrile	LCS-4017
Acarol (Bromopropylate)	18181-80-1	HPLC Acetonitrile	LCS-103-ACN	Chlormequat chloride	999-81-5	HPLC Acetonitrile	LCS-4838
Acetaldehyde-2,4-DNPH	1019-57-4	HPLC Acetonitrile	LCS-5756	Chlorimuron-ethyl	90982-32-4	LCMS Acetonitrile	LCS-3927
Acetamiprid	135410-20-7	HPLC Acetonitrile	LCS-4677-ACN	Chlorobenzilate	510-15-6	HPLC Acetonitrile	LCS-820-ACN
Acrinathrin	101007-06-1	HPLC Acetonitrile	LCS-6248	Chlorosulfuron	64902-72-3	HPLC Acetonitrile	LCS-4995-ACN
Acrolein-2,4-DNPH	888-54-0	HPLC Acetonitrile	LCS-5758	Chlorpyrifos oxon	5598-15-2	HPLC Acetonitrile	LCS-968
Aldicarb	116-06-3	HPLC Acetonitrile	LCS-190	Chlzolinate	84332-86-5	HPLC Acetonitrile	LCS-4286
Allethrin	584-79-2	HPLC Acetonitrile	LCS-4240	Cholesterol	57-88-5	HPLC Methanol	LCS-4702
Amidosulfuron	120923-37-7	HPLC Acetonitrile	LCS-6228	Chromafenozide	143807-66-3	HPLC Acetonitrile	LCS-6205
Amoxicillin	26787-78-0	HPLC Acetonitrile	LCS-5936	Cimetidine	51481-61-9	HPLC Methanol	LCS-5897
Antipyrine	60-80-0	HPLC Methanol	LCS-5896	Cinosulfuron	94593-91-6	HPLC Acetonitrile	LCS-6230
Arabinose	147-81-9	HPLC Water	LCS-4513	Clethodim	99129-21-2	HPLC Acetonitrile	LCS-6083-ACN
Azaconazole	60207-31-0	HPLC Acetonitrile	LCS-6276	Clindamycin	21462-39-5	HPLC Methanol	LCS-5569
Azimsulfuron	120162-55-2	HPLC Acetonitrile	LCS-6229	Clofentazine	74115-24-5	HPLC Acetonitrile	LCS-5772
Baygon (Propoxur)	114-26-1	HPLC Acetonitrile	LCS-3200-ACN	Clothianidin	210880-92-5	HPLC Acetonitrile	LCS-6027
Baytan (Triadimenol)	55219-65-3	HPLC Acetonitrile	LCS-3996	Clothianidin	210880-92-5	Acetone	LCS-6027-AC
Baythroid	68359-37-5	HPLC Acetonitrile	LCS-376	Cyanofenphos	13067-93-1	Acetone	LCS-5958-AC
Baythroid	68359-37-5	Acetone	LCS-376-AC	Cyanophos	2636-26-2	HPLC Acetonitrile	LCS-1006
Benalaxyl	71626-11-4	HPLC Acetonitrile	LCS-4262	Cyazofamid	120116-88-3	HPLC Acetonitrile	LCS-6008
Bentazon	25057-89-0	HPLC Acetonitrile	LCS-395	Cyclophosphamide	6055-19-2	HPLC Methanol	LCS-5883
Benthiocarb	28249-77-6	Acetone	LCS-400-AC	Cycloprothrin	63935-38-6	HPLC Acetonitrile	LCS-6292
Benthiocarb	28249-77-6	HPLC Acetonitrile	LCS-400-ACN	Cyhalofop-butyl	122008-85-9	HPLC Acetonitrile	LCS-6101
Benzalkonium chloride	63449-41-2	LCMS Water	LCS-5115	gamma-Cyhalothrin	76703-62-3	Acetone	LCS-6376
Benzo(b)fluoranthene	205-99-2	Acetone	LCS-435	zeta-Cypermethrin	52315-07-8	Acetone	LCS-6401
Benzotriazole	95-14-7	HPLC Methanol	LCS-4121	D-trans-Cyphenothrin (mix of isomers)	39515-40-7	Acetone	LCS-4463
gamma-BHC	58-89-9	Acetone	LCS-485-AC	Cyproconazole (mix of isomers)	94361-06-5	HPLC Acetonitrile	LCS-4863
Bifenazate	149877-41-8	HPLC Acetonitrile	LCS-6082	Cyprodinil	121552-61-2	HPLC Acetonitrile	LCS-4622
Bifenthrin	82657-04-3	HPLC Acetonitrile	LCS-494-ACN	Cyprofuram	69581-33-5	HPLC Acetonitrile	LCS-6206
Bioallethrin	28057-48-9	Acetone	LCS-496	DEF	78-48-8	Acetone	LCS-1130
Bitertanol (mix of isomers)	55179-31-2	HPLC Acetonitrile	LCS-4679	Demeton-S Sulfone	2496-91-5	HPLC Acetonitrile	LCS-5774-ACN
Boscalid	188425-85-6	HPLC Acetonitrile	LCS-4815	Devrinol	15299-99-7	HPLC Acetonitrile	LCS-1150-ACN
Bromfevinfos	33399-00-7	HPLC Methanol	LCS-6043	Di-allate (mix of isomers)	2303-16-4	Acetone	LCS-1155
Bromoxynil	1689-84-5	HPLC Acetonitrile	LCS-575-ACN	2,4-Diaminoanisole sulfate salt hydrate	123333-56-2	HPLC Water	LCS-6157
Bromuconazole	116255-48-2	Acetone	LCS-6007	Dichlorfenthion	97-17-6	Acetone	LCS-1280
Bupirimate	41483-43-6	HPLC Acetonitrile	LCS-4272	Dichlorprop-P	15165-67-0	HPLC Acetonitrile	LCS-6021
Butoxycarboxim	34681-23-7	HPLC Acetonitrile	LCS-6176	Diclobutrazole	75736-33-3	HPLC Acetonitrile	LCS-6056
Cadusafos	95465-99-9	HPLC Acetonitrile	LCS-4826	Diclofenac	15307-79-6	HPLC Methanol	LCS-5886
Caffeine-d9	77238-85-8	HPLC Methanol	LCS-5493	Dicrotophos	141-66-2	HPLC Acetonitrile	LCS-1500
Carbendazim (100 µg/mL)	10605-21-7	HPLC Methanol	LCS-733	Dieldrin	60-57-1	Acetone	LCS-1510-AC
Carboxin	5234-68-4	HPLC Acetonitrile	LCS-760-ACN	Diflubenzuron	35367-38-5	HPLC Acetonitrile	LCS-1537-ACN
Chlorantraniliprole	500008-45-7	HPLC Acetonitrile	LCS-6127				

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
3,5-Diiodo-4-hydroxybenzonitrile	1689-83-4	Acetone	LCS-1554
3,5-Diiodo-4-hydroxybenzonitrile	1689-83-4	HPLC Acetonitrile	LCS-1554-ACN
Dimefuron	34205-21-5	HPLC Methanol	LCS-4617
Dimethoate	60-51-5	HPLC Acetonitrile	LCS-1560
Dimethomorph	110488-70-5	HPLC Acetonitrile	LCS-3970-ACN
Dimethyl-p-nitrophenylphosphate	950-35-6	Acetone	LCS-1669
N-2,4-Dimethylphenyl-N'-methylformamidine	33089-74-6	HPLC Acetonitrile	LCS-6279
N-(2,4-Dimethylphenyl)formamide	60397-77-5	HPLC Acetonitrile	LCS-6280
Dimethylvinphos	2274-67-1	HPLC Methanol	LCS-6042
1,7-Dimethylxanthine	611-59-6	HPLC Methanol	LCS-5067
Diniconazole	83657-24-3	HPLC Acetonitrile	LCS-6057
Dioxydemeton-S-methyl	17040-19-6	HPLC Acetonitrile	LCS-3969
Diuron	330-54-1	HPLC Acetonitrile	LCS-1760
DMST	66840-71-9	HPLC Acetonitrile	LCS-6018
Dodine	2439-10-3	HPLC Acetonitrile	LCS-1807-ACN
Doramectin	117704-25-3	HPLC Acetonitrile	LCS-6224
Dylox	52-68-6	Acetone	LCS-1816
Enamectin	119791-41-2	HPLC Acetonitrile	LCS-5507-ACN
Enamectin-benzoate	155569-91-8	HPLC Acetonitrile	LCS-6293
Empenthrin	54406-48-3	HPLC Acetonitrile	LCS-6293
Endosulfan	115-29-7	Acetone	LCS-1824-AC
Epoxiconazole	133855-98-8	HPLC Acetonitrile	LCS-4923-ACN
Eprinomectin	123997-26-2	HPLC Acetonitrile	LCS-6226
17-alpha-Estradiol	57-91-0	HPLC Methanol	LCS-5068
17-beta-Estradiol	50-28-2	HPLC Methanol	LCS-5070
Ethiofencarb-sulfoxide	53380-22-6	HPLC Acetonitrile	LCS-6184
Ethiofencarb sulfone	53380-23-7	HPLC Acetonitrile	LCS-6183
Ethoxysulfuron	126801-58-9	HPLC Acetonitrile	LCS-6231
2-Ethylhexyl diphenyl phosphate	1241-94-7	HPLC Methanol	LCS-6041
Etofenprox	80844-07-1	HPLC Acetonitrile	LCS-6104
Etoxazole	153233-91-1	HPLC Acetonitrile	LCS-5670
Famoxadone	131807-57-3	HPLC Acetonitrile	LCS-5462
Fenamidon	161326-34-7	HPLC Acetonitrile	LCS-4966
Fenarimol	60168-88-9	HPLC Acetonitrile	LCS-1997
Fenazaquin	120928-09-8	HPLC Acetonitrile	LCS-6019
Fenbutatin-oxide	13356-08-6	Acetone	LCS-1999-AC
Fenbutatin-oxide	13356-08-6	HPLC Acetonitrile	LCS-1999-ACN
Fenbutatin-oxide	13356-08-6	HPLC Methanol	LCS-1999-MEOH
Fenitrothion	122-14-5	Acetone	LCS-2001-AC
Fenpyroximate	111812-58-9	LCMS Acetonitrile	LCS-6387
(E)-Fenpyroximate	134098-61-6	HPLC Acetonitrile	LCS-6179
Fensulfthion-oxon	6552-21-2	HPLC Acetonitrile	LCS-6209
Fensulfthion-oxon-sulfone	6132-17-8	HPLC Acetonitrile	LCS-6210

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Fipronil	120068-37-3	HPLC Methanol	LCS-4004
Fipronil	120068-37-3	HPLC Acetonitrile	LCS-4004-ACN
Fluazifop-butyl	69806-50-4	HPLC Methanol	LCS-4905
Flubenzimin	37893-02-0	Acetone	LCS-6385
Fludioxonil	131341-86-1	HPLC Acetonitrile	LCS-2061
Flufenacet	142459-58-3	HPLC Acetonitrile	LCS-4906
Flufenoxuron	101463-69-8	Acetone	LCS-6009
Flufenoxuron	101463-69-8	HPLC Acetonitrile	LCS-6009-ACN
Flumetsulam	98967-40-9	LCMS Acetonitrile	LCS-5064
Flumiclorac-pentyl	87546-18-7	LCMS Acetonitrile	LCS-6416
Fluometuron	2164-17-2	LCMS Acetonitrile	LCS-2026
Fluquinconazole	136426-54-5	Acetone	LCS-6103
Flusilazole	85509-19-9	HPLC Acetonitrile	LCS-4832
tau-Fluvalinate	102851-06-9	HPLC Acetonitrile	LCS-4161-ACN
Folicur	107534-96-3	HPLC Acetonitrile	LCS-2056
Folicur	107534-96-3	Acetone	LCS-2056-AC
Forchlorfenuron	68157-60-8	HPLC Acetonitrile	LCS-6022
Formetanate HCl	23422-53-9	HPLC Acetonitrile	LCS-2066-ACN
Fosthiazate	98886-44-3	Acetone	LCS-6080
Fructose	57-48-7	HPLC Water	LCS-4189-HPLCW
Fuberidazole	3878-19-1	HPLC Acetonitrile	LCS-6318
Furalaxyl	57646-30-7	HPLC Acetonitrile	LCS-6319
Furathiocarb	65907-30-4	Acetone	LCS-5464-AC
Furmecyclox	60568-05-0	HPLC Acetonitrile	LCS-6180
Galactose	59-23-4	HPLC Water	LCS-4512
d-Glucose	921-60-8	HPLC Water	LCS-5539
Glucose	50-99-7	HPLC Acetonitrile	LCS-5489
Halosulfuron-methyl	100784-20-1	HPLC Acetonitrile	LCS-6232
Haloxyfop-methyl	69806-40-2	HPLC Acetonitrile	LCS-6186
Heptachlor	76-44-8	Acetone	LCS-2100-AC
Hexaconazole	79983-71-4	HPLC Acetonitrile	LCS-5465
Hexaflumuron	86479-06-3	HPLC Acetonitrile	LCS-6256
Hexythiazox	78587-05-0	Acetone	LCS-6028
Hydramethylnon	67485-29-4	HPLC Acetonitrile	LCS-6196
Hydoxycholic acid	83-49-8	HPLC Acetonitrile	LCS-6177
Imazalil	35554-44-0	HPLC Acetonitrile	LCS-2346-ACN
Imazosulfuron	122548-33-8	HPLC Acetonitrile	LCS-6233
Imibenconazole	86598-92-7	HPLC Acetonitrile	LCS-6107
Imibenconazole	86598-92-7	Acetone	LCS-6107-AC
Iponazole	125225-28-7	HPLC Acetonitrile	LCS-6278
Iprovalicarb	140923-17-7	Acetone	LCS-6029
Iprovalicarb	140923-17-7	HPLC Acetonitrile	LCS-6029-ACN
Isocarbamid	30979-48-7	HPLC Acetonitrile	LC-6215
Isocarbophos	24353-61-5	HPLC Acetonitrile	LCS-6275

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Isofenphos-methyl	99675-03-3	HPLC Methanol	LCS-5998
Isoxaben	82558-50-7	HPLC Acetonitrile	LCS-5275
Isoxaflutole	141112-29-0	HPLC Acetonitrile	LCS-6310
Kelthane 1.5%o,p'-95%p,p'	115-32-2	Acetone	LCS-2335-AC
3-Keto-carbofuran	16709-30-1	Acetone	LCS-6129
Kresoxim-methyl	143390-89-0	HPLC Acetonitrile	LCS-4833
Linuron	330-55-2	HPLC Acetonitrile	LCS-2350
Lontrel (clopyralid)	1702-17-6	LCMS Acetonitrile	LCS-2354
Lufenuron	103055-07-8	HPLC Acetonitrile	LCS-6181
Maltodextrin	9050-36-6	HPLC Water	LCS-5705
Mandipropamid	374726-62-2	HPLC Acetonitrile	LCS-6031
Mannose	3458-28-4	HPLC Water	LCS-4514
Mebendazole	31431-39-7	HPLC Acetonitrile	LCS-4603-ACN
Mecarbam	2595-54-2	HPLC Acetonitrile	LCS-4847
D,L-Mecoprop	93-65-2	HPLC Methanol	LCS-6372
Mepanipirim	110235-47-7	HPLC Acetonitrile	LCS-6032
Mephosfolan	950-10-7	HPLC Acetonitrile	LCS-6288
Mepiquat chloride	24307-26-4	HPLC Acetonitrile	LCS-6323
Mesotrione	104206-82-8	HPLC Acetonitrile	LCS-5044
Metaflumizone	139968-49-3	HPLC Acetonitrile	LCS-6015
Metalaxyl	57837-19-1	HPLC Acetonitrile	LCS-6334
Metasystox I (TM)	919-86-8	Acetone	LCS-4205
Metconazole	125116-23-6	Acetone	LCS-6010
Methiocarb	2032-65-7	HPLC Acetonitrile	LCS-2385
Methoxyfenozide	161050-58-4	HPLC Acetonitrile	LCS-6033
Metribuzin	21087-64-9	HPLC Acetonitrile	LCS-2620
Monocrotophos	6923-22-4	HPLC Acetonitrile	LCS-2645
Moxidectin	113507-06-5	HPLC Acetonitrile	LCS-6198
Nitenpyram	150824-47-8	HPLC Acetonitrile	LCS-6187
4-Nitrophenol	100-02-7	Methanol	LCS-2730
Norflurazon	27314-13-2	HPLC Acetonitrile	LCS-2800-ACN
Novaluron	116714-46-6	HPLC Acetonitrile	LCS-6122
Omite	2312-35-8	Acetone	LCS-2895
Omite	2312-35-8	HPLC Acetonitrile	LCS-2895-ACN
Oxadixyl	77732-09-3	Acetone	LCS-2903-AC
Oxamyl Oxime	30558-43-1	HPLC Acetonitrile	LCS-6123
Paclobutrazol	76738-62-0	HPLC Acetonitrile	LCS-4345-ACN
Pencycuron	66063-05-6	HPLC Acetonitrile	LCS-5171
Pencycuron	66063-05-6	Acetone	LCS-5171-AC
Pentachloronitrobenzene	82-68-8	Acetone	LCS-2945-AC
Perfluoro-n-octane Sulfonate Sodium (PFOS)	1763-23-1	HPLC Methanol	LCS-4951
Phorate sulfoxide	2588-03-6	Acetone	LCS-5777
Phoxim	14816-18-3	HPLC Acetonitrile	LCS-4689

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Picoxystrobin	117428-22-5	HPLC Acetonitrile	LCS-5467
Piperonyl butoxide	51-03-6	HPLC Acetonitrile	LCS-3117-ACN
Piperophos	24151-93-7	Acetone	LCS-6099
Pirimicarb-desmethyl	30614-22-3	HPLC Acetonitrile	LCS-6023
Pirimiphos-ethyl	23505-41-1	HPLC Acetonitrile	LCS-3120
Prallethrin (mix of isomers)	23031-36-9	HPLC Acetonitrile	LCS-5783
Pretilachlor	51218-49-6	HPLC Acetonitrile	LCS-6092
Procymidone	32809-16-8	HPLC Acetonitrile	LCS-3871-ACN
Profenofos	41198-08-7	HPLC Acetonitrile	LCS-3134-ACN
Propamocarb	24579-73-5	HPLC Acetonitrile	LCS-5468
Propaquizafop	111479-05-1	HPLC Acetonitrile	LCS-6034
Propfos	13194-48-4	HPLC Acetonitrile	LCS-3185
Propfos	13194-48-4	Acetone	LCS-3185-AC
Propiconazole (tilt)	60207-90-1	HPLC Acetonitrile	LCS-3186
Propineb	12071-83-9	Acetone	LCS-4691
Prothioconazole	178928-70-6	HPLC Methanol	LCS-4904
Prothioconazole	178928-70-6	HPLC Acetonitrile	LCS-4904-ACN
Prothioconazole-desthio	120983-64-4	HPLC Acetonitrile	LCS-6189
Pymetrozin	123312-89-0	HPLC Acetonitrile	LCS-4967
Pyraflufen	129630-17-7	LCMS Acetonitrile	LCS-6417
Pyraflufen-ethyl	129630-19-9	HPLC Acetonitrile	LCS-6024-ACN
Pyrasulfotole	365400-11-9	HPLC Acetonitrile	LCS-5872
Pyridaben	96489-71-3	HPLC Acetonitrile	LCS-5779
Pyridaphenthion	119-12-0	HPLC Acetonitrile	LCS-4829
Pyrifenox	88283-41-4	Acetone	LCS-5291-AC
Pyrimethanil	53112-28-0	HPLC Acetonitrile	LCS-5225
Pyriproxifen	95737-68-1	Acetone	LCS-4969
Pyriproxifen	95737-68-1	HPLC Acetonitrile	LCS-4969-ACN
Pyroxsulam	422556-08-9	HPLC Acetonitrile	LCS-5875
Quinoxifen	124495-18-7	Acetone	LCS-6059
Raffinose	512-69-6	HPLC Water	LCS-4844
Reserpine	50-55-5	Methanol: Acetone	LCS-3249
Resorcinol	108-46-3	Acetone	LCS-3250-DMF
Roxithromycin	80214-83-1	HPLC Methanol	LCS-5876
Safrotin	31218-83-4	Acetone	LCS-3260
Salbutamol	18559-94-9	Methanol	LCS-4748
Sanmarton	51630-58-1	Acetone	LCS-3261-AC
Selamectin	165108-07-6	HPLC Acetonitrile	LCS-6227
Sethoxydim	74051-80-2	HPLC Acetonitrile	LCS-3266-ACN
Spinetoram	187166-40-1	HPLC Acetonitrile	LCS-6012
Spinosad A&D	168316-95-8	HPLC Acetonitrile	LCS-6025
Spirodiclofen	148477-71-8	HPLC Acetonitrile	LCS-5295
Spiromesifen	283594-90-1	HPLC Acetonitrile	LCS-6035
Sucrose	57-50-1	HPLC Water	LCS-3308-HPLCW

Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#	Component @ 1,000 µg/mL	CAS#	Matrix	Catalog#
Sulfadimidine	57-68-1	Acetone	LCS-4587	Tolclofos-methyl	57018-04-9	HPLC Acetonitrile	LCS-4835-ACN
Sulfentrazone	122836-35-5	Acetone	LCS-6013	Toltrazuril	69004-03-1	HPLC Acetonitrile	LCS-5874
Sulfentrazone	122836-35-5	LCMS Acetonitrile	LCS-6013-ACN	Tolyltriazole	29385-43-1	HPLC Acetonitrile	LCS-5596
Systhane	88671-89-0	Acetone	LCS-3306	Tralkoxydim	87820-88-0	HPLC Acetonitrile	LCS-5470
Systhane	88671-89-0	HPLC Acetonitrile	LCS-3306-ACN	Tralkoxydim	87820-88-0	Acetone	LCS-5470-AC
Tebufenozide	112410-23-8	Acetone	LCS-6036	Transfluthrin	118712-89-3	Acetone	LCS-6375
Tebufenpyrad	119168-77-3	HPLC Acetonitrile	LCS-5226	Triasulfuron	82097-50-5	HPLC Acetonitrile	LCS-5003
Tebutam	35256-85-0	HPLC Acetonitrile	LCS-6219	Tribenuron-methyl	101200-48-0	LCMS Acetonitrile	LCS-4998
Teflubenzuron	83121-18-0	HPLC Acetonitrile	LCS-5458	Triclosan	3380-34-5	HPLC Methanol	LCS-4382
Tepraloxymid	149979-41-9	HPLC Acetonitrile	LCS-6178	Triflumizole	68694-11-1	HPLC Acetonitrile	LCS-4964
Terbufos-sulfoxide	10548-10-4	LCMS Acetonitrile	LCS-6307	Triforine	26644-46-2	HPLC Acetonitrile	LCS-6273
1,2,4,5-Tetrachloro-3-nitrobenzene	117-18-0	HPLC Acetonitrile	LCS-3415-ACN	Triphenyl phosphate	115-86-6	HPLC Acetonitrile	LCS-3765
Tetrachlorvinphos (Z)	22248-79-9	HPLC Acetonitrile	LCS-6037	Triphenyl phosphorothionate	597-82-0	HPLC Methanol	LCS-6040
Tetraconazole	112281-77-3	Acetone	LCS-6089	Tris(dichloroisopropyl)phosphate	13674-87-8	HPLC Acetonitrile	LCS-4381-ACN
Thiabendazole	148-79-8	HPLC Acetonitrile	LCS-3490	Tritosulfuron	142469-14-5	HPLC Acetonitrile	LCS-6234
Thiacloprid	111988-49-9	Acetone	LCS-6026	Velpar	51235-04-2	Acetone	LCS-3790
Thiamethoxam	153719-23-4	HPLC Acetonitrile	LCS-5173	Xylitol	87-99-0	HPLC Water	LCS-6150
Thiodicarb	59669-26-0	HPLC Acetonitrile	LCS-3493-ACN	Xylose	58-86-6	HPLC Water	LCS-4515
Thiram	137-26-8	Acetone	LCS-3499-AC	Zinophos	297-97-2	Acetone	LCS-3850
Tokuthion/Prothiophos	34643-46-4	HPLC Acetonitrile	LCS-3225-ACN	Zoxamide	156052-68-5	HPLC Acetonitrile	LCS-6090

Daily Checks

LC-MS Daily Check Solution 1

2 Certified Components:

Caffeine
Reserpine

1 mL @ 10 µg/mL in LC-MS Acetonitrile

Catalog#: LC-DC-1

LC-MS Daily Check Solution 2

3 Certified Components:

4-Nitrophenol
Caffeine
Reserpine

1 mL @ 10 µg/mL in LC-MS Acetonitrile

Catalog#: LC-DC-2

Liquid Chromatography Pesticide Residue

LC-MS Pesticide Residual Calibration Standard Mix-1

13 Certified Components

Abate	Isocarbophos
Acephate	Methamidophos
Carbaryl	Mevinphos
Dicrotophos	Monocrotophos
Dimethoate	Omethoate
Dimethomorph	Vamidothion
Dylox	

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-1-A

LC-MS Pesticide Residual Calibration Standard Mix-2

16 Certified Components:

Alanycarb	Furathiocarb
Aldicarb	Methabenzthiazuron
Aldicarb sulfone	Methiocarb
Aldicarb sulfoxide	Methomyl
Benfuracarb	Oxamyl
Butocarboxim	Tebuthiuron
Butoxycarboxim	Thidiazuron
Ethiofencarb	Thiophanate-methyl

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-2-A

LC-MS Pesticide Residual Calibration Standard Mix-3

38 Certified Components:

Baygon (Propoxur)	Hexaflumuron
Bendiocarb	3-Hydroxycarbofuran
Benthiocarb	Indoxacarb
Bifenazate	Iprovalicarb
Carbofuran	Isoprocarb
Chlorfluazuron	Isoproturon
Chlorotoluron	Linuron
Chloroxuron	Lufenuron
Cycluron	Metobromuron
Diethofencarb	Monolinuron
Diflubenzuron	Neburon
Dioxacarb	Novaluron
Diuron	Pirimicarb
Fenobucarb	Promecarb
Fenoxycarb	Propham
Fenuron	Pyraclostrobin
Flufenoxuron	Siduron
Fluometuron	Teflubenzuron
Forchlorfenuron	Triflumuron

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-3-A

LC-MS Pesticide Residual Calibration Standard Mix-4

63 Certified Components:

Abamectin	Imidacloprid
Acetamiprid	Ivermectin
Ametryn	Kresoxim-methyl
Amitraz	Mandipropamid
Azoxystrobin	Mepanipyrim
Benalaxyl	Mepronil
Benzoximate	Metaflumizone
Boscalid	Metalaxyl
Butafenacil	Methoxyfenozide
Carbetamide	Moxidectin
Carfentrazone-ethyl	Sythane
Chlorantraniliprole	Nitenpyram
Clofentezine	Oxadixyl
Cymoxanil	Picoxystrobin
Cyprodinil	Piperonyl butoxide
Cyromazine	Prochloraz
Dimoxystrobin	Prometon
Dinotefuran	Pymetrozin
Doramectin	Pyracarbolid
Eprinomectin	Pyrimethanil
Famoxadone	Pyriproxifen
Fenazaquin	Quinoxifen
Fenhexamid	Rotenone
Fenpyroximate	Secbumeton
Flonicamid	Spiroxamine
Fluazinam	Tebufenozide
Fludioxonil	Tebufenpyrad
Fluoxastrobin	Terbumeton
Flutolanil	Triadimefon
Furalaxyl	Trifloxystrobin
Halofenozide	Zoxamide
Imazalil	

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-4-A

LC-MS Pesticide Residual Calibration Standard Mix-5

30 Certified Components:

Acibenzolar-S-methyl	Mefenacet
Beam	Mesotrione
Bupirimate	Methoprotrotryne
Buprofezin	Metribuzin
Carboxin	Prometryne
Clethodim	Omite
Clothianidin	Prothioconazole
Cyazofamid	Prothioconazole
Ethiprole	Simetryn
Ethofumesate	Sulfentrazone
Fenamidone	Terbutryne
Fipronil	Thiabendazole
Flubendimide	Thiacloprid
Flufenacet	Thiamethoxam
Hexythiazox	Thiofanox

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-5-A

LC-MS Pesticide Residual Calibration Standard Mix-6

28 Certified Components:

Bitertanol (Mix of isomers)	Flutriafol
Bromuconazole	Fuberidazole
Cyproconazole	Hexaconazole
Diclobutrazol	Ipconazole
Difenoconazole	Metconazole
Diniconazole	Nuarimol
Epoxiconazole	Paclobutrazol
Etaconazole	Penconazole
Ethirimol	Propiconazole (Tilt)
Etoazole	Folicur
Fenarimol	Tetraconazole
Fenbuconazole	Triadimenol
Fluquinconazole	Triflumizole
Flusilazole	Triticonazole

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-6-A

LC-MS Pesticide Residual Calibration Standard Mix-7

7 Certified Components:

Emamectin-benzoate	Spirotetramat
Fenpropimorph	Spinetoram
Spirodiclofen	Spiromesifen
Spinosad A&D	

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-7-A

**LC-MS Pesticide Residual Calibration
Standard Mix-8****1 Certified Components:**

Hydramethylnon

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-8-A

**LC-MS Pesticide Residual Calibration
Standard Mix-9****7 Certified Components:**

Aminocarb

Monceren

Desmedipham

Phenmedipham

Formetanate hydrochloride

Propamocarb

Mexacarbate

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-9-A

**LC-MS Pesticide Residual Calibration
Standard Mix-10****1 Certified Components:**

Carbendazim

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-10-A

**LC-MS Pesticide Residual Calibration
Standard Kit**

Contains one ampule each of

LCPR-1-A

LCPR-2-A

LCPR-3-A

LCPR-4-A

LCPR-5-A

LCPR-6-A

LCPR-7-A

LCPR-8-A

LCPR-9-A

LCPR-10-A

Catalog#: LCPR-11-KIT

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SECTION 5

Pesticides PCBs Herbicides

& Liquid Chromatography Pesticide Residue

Pesticides, PCBs & Herbicides

The EPA is tasked with the monitoring of environmental systems as they pertain to contamination and human health. The methods issued by the EPA are created to respond to specific toxins or persistent organic pollutants (POPs) found in environmental samples such as soil, source water, drinking water and waste. In particular, pollutants such as Polychlorinated biphenyls (PCBs) which were in widespread industrial use up until their restriction are of concern due to their stable and persistent nature in the environment. Another group of chemicals of high concern are the hundreds of commercial pesticides and herbicides in use in the world today. Pesticides from algacides to virucides are used in large quantities in industrial and private agriculture. The concern over human pesticide exposure over the past few decades has led to the extensive monitoring of these pesticides. It has been reported that over 98% of insecticides and 95% of herbicides effect areas other than their intended target product. It is essential that monitoring agencies have accurate standard mixes to measure the pesticide levels in the environment.

Many new pesticides are now being tested using highly sensitive LC-MS techniques in addition to traditional GC techniques to determine minute amounts of pesticide residue in environmental samples and food products.

At SPEX Certiprep, we facilitate ease of monitoring and testing of pesticides by creating pesticide test mixes to suit your monitoring needs. SPEX CertiPrep is the leader in offering pesticides standards designed to work within the EPA, AOAC and FDA analytical testing methods using all the leading analytical techniques: LC, LC-MS, GC, & GC-MS. Many pesticide standard mixes are readily available in our catalog along with a large list of single pesticide standards. In addition, custom pesticide mixes can be made to your specifications to create a mix that meets your needs.



Pesticides/PCBs/Herbicides

METHOD 505

EPA method 505 is an analytical method for the monitoring of organochlorine pesticides and PCBs in drinking water and raw source water by GC-ECD.

Organohalide Pesticides Mix

16 Certified Components:

	$\mu\text{g/mL}$		$\mu\text{g/mL}$
Alachlor	50	Heptachlor	5
Aldrin	5	Heptachlor epoxide	5
Atrazine	250	Hexachlorobenzene	5
g-BHC(Lindane)	5	Hexachlorocyclopentadiene	5
a-Chlordane	5	Methoxychlor	25
g-Chlordane	5	cis-Nonachlor	5
Dieldrin	5	trans-Nonachlor	5
Endrin	5	Simazine	250

1 mL in Acetone

Catalog#: 505-A2

Toxaphene 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 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 Standard

1 Certified Component:

Decachlorobiphenyl

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

Catalog#: DCBP-XH

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 1242

Aroclor 1254

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.

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

Method 505 Calibration Kits

505-K1 contains one ampule each of 505-A2, TOX-X, CDANE-X, PCB-M1, and PCB-M2

Catalog#: 505-K1

PCB Kit High Concentration

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

EPA method 507 is an analytical method for the monitoring of nitrogen and phosphorus containing pesticides and PCBs in drinking water and ground water by GC-NPD.

Analyte Mix A

23 Certified Components:

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

1 mL @ 1,000 µg/mL in Acetone

Catalog#: 507-A

Analyte Mix B

23 Certified Components:

Methyl paraoxon	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

Internal Standard

1 Certified Component:

Triphenyl phosphate

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

Catalog#: 507-I

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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**METHOD 508**

EPA method 508 is an analytical method for the monitoring of organochlorine pesticides and PCBs in drinking water and ground water by GC-ECD

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**Toxaphene 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 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**Surrogate Standard****1 Certified Component:**

Decachlorobiphenyl

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

Catalog#: DCBP-XH**PCNB Internal Standard****1 Certified Component:**

Pentachloronitrobenzene

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

Catalog#: 508-I

Individual Aroclors

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

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

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 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 (Isomer B)
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

NPD Analytes

2 Certified Components:

Atrazine
Simazine

1 mL @ 200 µg/mL in Acetone

Catalog#: 8141-D

Surrogate Standard

1 Certified Component:

4,4'-Dibromobiphenyl

1 mL @ 10 µg/mL in Ethyl acetate

Catalog#: 5081-S

Helpful Hint:

Yes, we have Heptachlor Epoxide Isomers A and B. Isomer B is used in these standards.

Method 508 Internal Standard**1 Certified Components:**

Pentachloronitrobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-2945**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 µg/mL in Ethyl acetate

Catalog#: 5081-DC**METHOD 515**

EPA method 515 is an analytical method for the monitoring of organochlorine pesticides and PCBs in drinking water and ground water by GC-ECD

Chlorinated Herbicides as Free Acids**17 Certified Components:**

	Concentration µg/mL
Actifluorfen	100
Bentazon	200
Chloramben	100
2,4-D	100
2,4-DB	800
Dalapon	1,300
DCPA (Dacthal)monoacid metabolite (methyl tetrachloroterephthalate)	50
DCPA (Dacthal) diacid metabolite (tetrachloroterephthalic acid)	50
Dicamba	100
3,5-Dichlorobenzoic acid	100
Dichloroprop	300
Dinoseb	200
4-Nitrophenol	100
Pentachlorophenol	100
Picloram	100
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: 5151**

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.

Customize your solutions!

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Method 515.4 Calibration Mix

16 Certified Components:

	µg/mL
Acifluorfen	50
Bentazon	100
Chloramben	50
2,4-D	100
Dalapon	100
2,4-DB	100
DCPA diacid	50
Dicamba	50
3,5-Dichlorobenzoic acid	50
Dichlorprop	100
Dinoseb	100
Pentachlorophenol	10
Picloram	50
2,4,5-T	25
2,4,5-TP (Silvex)	25
Quinclorac	50

1 mL in Acetone

Catalog#: 5154-A

Internal Standards

1 Certified Component:

4,4'-Dibromooctafluorobiphenyl (DBOB)

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

Catalog#: S-1250

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

Internal Standard

1 Certified Component:

4, 4'-Dibromooctafluorobiphenyl

1 mL @ 5,000 µg/mL in Methanol

Catalog#: 5152-I

METHOD 531

EPA method 531 is an analytical method for the monitoring of N-methylcarbamoyloximes and N-methylcarbamates in drinking water and ground water by HPLC and a fluorescence detector.

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 HPLC Acetonitrile

Catalog#: 5311-A10

Method 531.2 Calibration Mix

11 Certified Components:

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

1 mL @ 100 µg/mL in HPLC Acetonitrile

Catalog#: 5312-A

Internal Standard/Surrogate

1 Certified Component:

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

1 mL @ 100 µg/mL in HPLC 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 HPLC 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 HPLC Water

Catalog#: 547-A

METHOD 548

EPA method 548 is an analytical method for the monitoring of Endothall in drinking water by GC-ECD.

Endothall Standard**1 Certified Component:**

Endothall

1 mL @ 2,000 µg/mL in Water

Catalog#: 548-A

Endothall-PFPH 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

Endothall Standard**1 Certified Component:**

Endothall

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5481-A

Derivatized Endothall Standard**1 Certified Component:**

Dimethyl endothall

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5481-MEO

Internal Standard**1 Certified Component:**

Acenaphthene-d₁₀

1 mL @ 2,000 µg/mL in Methanol

Catalog#: 5481-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

EPA method 549 is an analytical method for the monitoring of Diquat and Paraquat in drinking water by HPLC-UV

Analyte Mix

2 Certified Components:

Diquat
Paraquat

1 mL @ 1,000 µg/mL in HPLC Water

Catalog#: 5491-A

METHOD 608

EPA method 608 is an analytical method for the monitoring of organochlorine pesticides and PCBs in municipal and industrial waste water by GC-ECD.

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

Toxaphene 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 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

GC Degradation Check Solution

2 Certified Component:

Endrin
pp'-DDT

1 mL @ 10 µg/mL in MTBE

Catalog#: 508-DC

Need larger quantities?

Volume discounts are available!
Call us at **1-800-LAB-SPEX**
for more information.

Individual Aroclors

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

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

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 614**ORGANOPHOSPHORUS
PESTICIDES BY GC-NPD**

EPA method 614 is an analytical method for the monitoring of organophosphorus pesticides in municipal and industrial waste water by GC-NPD.

Method 614 Analyte Compounds

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

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 Analyte Compounds

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

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

EPA method 615 is an analytical method for the monitoring of chlorinated herbicides in municipal and industrial waste water by GC-ECD.

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

METHOD 619

TRIAZINE HERBICIDES BY GC-NPD

EPA method 619 is an analytical method for the monitoring of Triazine Pesticides in municipal and industrial waste water by GC-NPD.

Method 619 Analyte Compounds

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

METHOD 622**ORGANOPHOSPHOROUS
PESTICIDES BY GC-NPD**

EPA method 622 is an analytical method for the monitoring of organophosphorus pesticides in municipal and industrial waste water by GC-NPD.

Method 622 Analyte Mix Compounds

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

METHODS 8081

EPA method 8081 is an analytical method for the monitoring of organochlorine pesticides and PCBs in environmental samples by GC-ECD

Method 8081 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

Toxaphene 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 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

Internal Standard**1 Certified Components:**

Pentachloronitrobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-2945

Alternate Internal Standard**1 Certified Components:**

1-Bromo-2-Nitrobenzene

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-590

Surrogate Standard

2 Certified Components:

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

1 mL @ 200 µg/mL in Acetone

Catalog#: CLPP-S90

Alternate Surrogate Standard

1 Certified Components:

4-Chloro-3-nitrobenzotrifluoride

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-947

Method 8081 Individual Analyte Singles

	Certified Components	Catalog#
Alachlor	1	S-185
Captafol	1	S-715
Carbophenothion	1	S-755
cis-Chlordane	1	S-770
trans-Chlordane	1	S-775
Chlorobenzilate	1	S-820
Chloroneb	1	S-790
Chlorothalonil	1	S-915
Diallate	1	S-1155
1,2-Dibromo-3-chloropropane (DBCP)	1	S-1255
Dichlone	1	S-1275
Dichloran	1	S-1276
Hexachlorobenzene	1	S-2140
Hexachlorocyclopentadiene	1	S-2150
Isodrin	1	S-2285
Kelthane 1.5%o,p'-95%p,p'	1	S-2335
Methyl dacthal	1	S-1065
Mirex	1	S-2635
Nitrofen	1	S-2720
trans-Nonachlor	1	S-2770
Octachloronaphthalene	1	S-4200
Pentachloronitrobenzene	1	S-2945
Permethrin (cis, trans)	1	S-3000
Perthane	1	S-3002
Propachlor	1	S-3140
Strobane (TM)	1	S-4360
Terrazole	1	S-3360
Trifluralin	1	S-3715

METHOD 8082

EPA method 8082 is an analytical method for the monitoring of PCBs in environmental samples by GC-ECD or GC-ELCD.

Method 8082 Calibration Mix

19 Certified Components:

2-Chlorobiphenyl
2,3-Dichlorobiphenyl
2,2',5-Trichlorobiphenyl
2,4',5-Trichlorobiphenyl
2,2',3,5'-Tetrachlorobiphenyl
2,2',5,5'-Tetrachlorobiphenyl
2,3',4,4'-Tetrachlorobiphenyl
2,2',3,4,5'-Pentachlorobiphenyl
2,2',4,5,5'-Pentachlorobiphenyl
2,3,3',4',6-Pentachlorobiphenyl
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
2,2',3,4,4',5'-Hexachlorobiphenyl
2,2',3,4,5,5'-Hexachlorobiphenyl
2,2',3,5,5',6-Hexachlorobiphenyl
2,2',4,4',5,5'-Hexachlorobiphenyl
2,2',3,3',4,4',5-Heptachlorobiphenyl
2,2',3,4,4',5,5'-Heptachlorobiphenyl
2,2',3,4,4',5',6-Heptachlorobiphenyl
2,2',3,4',5,5',6-Heptachlorobiphenyl

1 mL @ 100 µg/mL in Isooctane

Catalog#: 8082-C

Initial Combination Calibration 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

Need larger quantities?

Volume discounts are available!
Call us at **1-800-LAB-SPEX**
for more information.

Individual Aroclors

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

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

PCB Kits for Method 8082

PCB-KH contains one of each of the following:

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

7 ampules

Catalog#: PCB-KH

PCB-200K contains one of each of the following:

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

7 ampules

Catalog#: PCB-200K

Surrogate for Aroclor Analysis**1 Certified Component:**

Decachlorobiphenyl

1 mL @ 1,000 µg/mL in Acetone

Catalog#: S-1100

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

Alternate Internal/Surrogate Standard**1 Certified Component:**

2,2',4,4',5,5'-Hexabromobiphenyl

1 mL @ 100 µg/mL in Hexane

Catalog#: 8082-I

1 mL @ 1,000 µg/mL in Isooctane

Catalog#: S-4374

Helpful Hint:

Custom synthesis available.

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

METHODS 8141

EPA method 8141 is an analytical method for the monitoring of organophosphorus pesticides in environmental samples by GC-NPD or GC-FPD.

8140 Analyte Mix

20 Certified Components:

Bolstar	Fenthion
Chloropyrifos	Guthion (Azinphos-methyl)
Coumophos	Merphos
Demeton, O	Methyl parathion
Demeton, S	Mevinphos
Diazinon	Phorate
Diclorovos	Ronnel
Disolfoton	Stirophos (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

Method 8141 Carbamate Singles

Component @ 1,000 ug/mL:	Matrix	Catalog#
Bendiocarb	Methanol	S-379
Butylate	Methanol	S-660
EPTC	Methanol	S-1870
Methiocarb	Acetonitrile	S-2385
Molinate	Methanol	S-2640
Pebulate	Methanol	S-2925
o-Phenylenediamine	Methanol	S-3071
Propham	Methanol	S-3180
Prosulfocarb	Methanol	S-3223
Triallate	Methanol	S-3550

Naled Single

1 Certified Components:

Naled (Dibrom)

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

Catalog#: S-2650

Famphur Single

1 Certified Components:

Famphur

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-1995

NPD/FPD Surrogate

2 Certified Components:

Tributylphosphate
Triphenylphosphate

1 mL @ 1,000 µg/mL in Acetone

Catalog#: 8141-S

NPD/FPD Surrogate Singles**1 Certified Components:**

Tributyl Phosphate

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-3560**1 Certified Components:**

Triphenyl Phosphate

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-3765**NPD Surrogate****1 Certified Component:**

4-Chloro-3-nitrobenzotrifluoride

1 mL @ 1,000 µg/mL in Acetone

Catalog#: S-947**Internal Standard****1 Certified Component:**

1-Bromo-2-nitrobenzene

1 mL @ 1,000 µg/mL in Acetone

Catalog#: S-590**METHODS 8151**

EPA methods 8150A, 8150B and 8151 are general analytical methods for the monitoring of herbicides in environmental samples by GC-ECD.

**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	MCPP	10,000

1 mL in Methyl tert-butyl ether

Catalog#: 5151-A**Method 8151A Analytes as Free Acids****17 Certified Components:****@ 100 µg/mL (except where noted)**

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

1 mL @ 100 µg/mL Methyl tert-butyl ether

Catalog#: 8151-A

Method 8151 Singles

1 Certified Component:

DCPA Diacid

1 mL @ 1,000 µg/mL in Acetone

Catalog#: S-1067

1 Certified Component:

5-Hydroxydicamba

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-4005

Surrogate Standard

1 Certified Component:

2,4-Dichlorophenyl acetic acid

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

Catalog#: S-1420

Internal Standard

1 Certified Component:

4,4'-Dibromooctafluorobiphenyl

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

Catalog#: S-1250

CLP SERIES PESTICIDE STANDARDS

The US EPA retains analytical services through the Contract Lab Program (CLP). The CLP follows detailed SOPs derived from EPA methods and SW-846. The CLP Pesticide Analysis method is an analytical method for the analysis of aqueous or solid samples for pesticides by GC-ECD.

Individual Standard Mix C

22 Certified Components:

	µg/mL
Aldrin	100
alpha-BHC	100
beta-BHC	100
delta-BHC	100
gamma-BHC	100
alpha-Chlordane	100
gamma-Chlordane	100
p,p'-DDD	200
p,p'-DDE	200
p,p'-DDT	200
Decachlorobiphenyl	200
Dieldrin	200
Endosulfan I	100
Endosulfan II	200
Endosulfan sulfate	200
Endrin	200
Endrin aldehyde	200
Endrin ketone	200
Heptachlor	100
Heptachlor epoxide (Isomer B)	100
Methoxychlor	1000
2,4,5,6-Tetrachloro-m-xylene	100

1 mL in Hexane:Toluene

Catalog#: CLPP-C

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:**

	$\mu\text{g/mL}$		$\mu\text{g/mL}$
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**Initial Combination Calibration Standard****1 Certified Component:**PCB 1016
PCB 12601 mL @ 1,000 $\mu\text{g/mL}$ in Hexane**Catalog#: 8082-IC****Toxaphene 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 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****Individual Aroclors**Two concentrations available: 200 $\mu\text{g/mL}$ and 1,000 $\mu\text{g/mL}$ at 1 mL each in Hexane.

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

Alternate SOW Surrogate Spike**1 Certified Component:**

Dibutylchlorodate

1 mL @ 200 $\mu\text{g/mL}$ in Acetone**Catalog#: DBC-X****Performance Evaluation Mixture****6 Certified Components:**

	$\mu\text{g/mL}$		$\mu\text{g/mL}$
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

Ready-Prep 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

Surrogate Spike

2 Certified Components:

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	200
Decachlorobiphenyl	200

1 mL in Acetone

Catalog#: CLPP-S90

Surrogate Spike Alternate

2 Certified Components:

	µg/mL
2,4,5,6-Tetrachloro-m-xylene	100
Decachlorobiphenyl	200

1 mL in Acetone

Catalog#: CLPP-S91

Matrix Spike Alternate

6 Certified Components:

	µg/mL		µg/mL
Aldrin	50	Endrin	100
Dieldrin	100	γ-BHC (Lindane)	50
p,p'-DDT	100	Heptachlor	50

1 mL in Methanol

Catalog#: CLPP-MS91

Matrix Spike High Concentration

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

Florisol 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

6 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 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 Methanol

Catalog#: TCLP-H-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 Methanol

Catalog#: TCLP-PNC

Toxaphene 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 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 Congeners

Matrix: Hexane

Component @ 100 µg/mL	CAS#	Description	Catalog#	Component @ 100 µg/mL	CAS#	Description	Catalog#
2-Chlorobiphenyl	2051-60-7	PCB CONGENER BZ-1	PCB-BZ-1	2,2',3,6-Tetrachlorobiphenyl	70362-45-7	PCB CONGENER BZ-45	PCB-BZ-45
3-Chlorobiphenyl	2051-61-8	PCB CONGENER BZ-2	PCB-BZ-2	2,2',3,6'-Tetrachlorobiphenyl	41464-47-5	PCB CONGENER BZ-46	PCB-BZ-46
4-Chlorobiphenyl	2051-62-9	PCB CONGENER BZ-3	PCB-BZ-3	2,2',4,4'-Tetrachlorobiphenyl	2437-79-8	PCB CONGENER BZ-47	PCB-BZ-47
2,2'-Dichlorobiphenyl	13029-08-8	PCB CONGENER BZ-4	PCB-BZ-4	2,2',4,5-Tetrachlorobiphenyl	70362-47-9	PCB CONGENER BZ-48	PCB-BZ-48
2,3-Dichlorobiphenyl	16605-91-7	PCB CONGENER BZ-5	PCB-BZ-5	2,2',4,5'-Tetrachlorobiphenyl	41464-40-8	PCB CONGENER BZ-49	PCB-BZ-49
2,3'-Dichlorobiphenyl	25569-80-6	PCB CONGENER BZ-6	PCB-BZ-6	2,2',4,6-Tetrachlorobiphenyl	62796-65-0	PCB CONGENER BZ-50	PCB-BZ-50
2,4-Dichlorobiphenyl	33284-50-3	PCB CONGENER BZ-7	PCB-BZ-7	2,2',4,6'-Tetrachlorobiphenyl	68194-04-7	PCB CONGENER BZ-51	PCB-BZ-51
2,4'-Dichlorobiphenyl	34883-43-7	PCB CONGENER BZ-8	PCB-BZ-8	2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	PCB CONGENER BZ-52	PCB-BZ-52
2,5-Dichlorobiphenyl	34883-39-1	PCB CONGENER BZ-9	PCB-BZ-9	2,2',5,6'-Tetrachlorobiphenyl	41464-41-9	PCB CONGENER BZ-53	PCB-BZ-53
2,6-Dichlorobiphenyl	33146-45-1	PCB CONGENER BZ-10	PCB-BZ-10	2,2',6,6'-Tetrachlorobiphenyl	15968-05-5	PCB CONGENER BZ-54	PCB-BZ-54
3,3'-Dichlorobiphenyl	2050-67-1	PCB CONGENER BZ-11	PCB-BZ-11	2,3,3',4-Tetrachlorobiphenyl	74338-24-2	PCB CONGENER BZ-55	PCB-BZ-55
3,4-Dichlorobiphenyl	2974-92-7	PCB CONGENER BZ-12	PCB-BZ-12	2,3,3',4'-Tetrachlorobiphenyl	41464-43-1	PCB CONGENER BZ-56	PCB-BZ-56
3,4'-Dichlorobiphenyl	2974-90-5	PCB CONGENER BZ-13	PCB-BZ-13	2,3,3',5-Tetrachlorobiphenyl	70424-67-8	PCB CONGENER BZ-57	PCB-BZ-57
3,5-Dichlorobiphenyl	34883-41-5	PCB CONGENER BZ-14	PCB-BZ-14	2,3,3',5'-Tetrachlorobiphenyl	41464-49-7	PCB CONGENER BZ-58	PCB-BZ-58
4,4'-Dichlorobiphenyl	2050-68-2	PCB CONGENER BZ-15	PCB-BZ-15	2,3,3',6-Tetrachlorobiphenyl	74472-33-6	PCB CONGENER BZ-59	PCB-BZ-59
2,2',3-Trichlorobiphenyl	38444-78-9	PCB CONGENER BZ-16	PCB-BZ-16	2,3,4,4'-Tetrachlorobiphenyl	33025-41-1	PCB CONGENER BZ-60	PCB-BZ-60
2,2',4-Trichlorobiphenyl	37680-66-3	PCB CONGENER BZ-17	PCB-BZ-17	2,3,4,5-Tetrachlorobiphenyl	33284-53-6	PCB CONGENER BZ-61	PCB-BZ-61
2,2',5-Trichlorobiphenyl	37680-65-2	PCB CONGENER BZ-18	PCB-BZ-18	2,3,4,6-Tetrachlorobiphenyl	54230-22-7	PCB CONGENER BZ-62	PCB-BZ-62
2,2',6-Trichlorobiphenyl	38444-73-4	PCB CONGENER BZ-19	PCB-BZ-19	2,3,4',5-Tetrachlorobiphenyl	74472-34-7	PCB CONGENER BZ-63	PCB-BZ-63
2,3,3'-Trichlorobiphenyl	38444-84-7	PCB CONGENER BZ-20	PCB-BZ-20	2,3,4',6-Tetrachlorobiphenyl	52663-58-8	PCB CONGENER BZ-64	PCB-BZ-64
2,3,4-Trichlorobiphenyl	55702-46-0	PCB CONGENER BZ-21	PCB-BZ-21	2,3,5,6-Tetrachlorobiphenyl	33284-54-7	PCB CONGENER BZ-65	PCB-BZ-65
2,3,4'-Trichlorobiphenyl	38444-85-8	PCB CONGENER BZ-22	PCB-BZ-22	2,3',4,4'-Tetrachlorobiphenyl	32598-10-0	PCB CONGENER BZ-66	PCB-BZ-66
2,3,5-Trichlorobiphenyl	55720-44-0	PCB CONGENER BZ-23	PCB-BZ-23	2,3',4,5-Tetrachlorobiphenyl	73575-53-8	PCB CONGENER BZ-67	PCB-BZ-67
2,3,6-Trichlorobiphenyl	55702-45-9	PCB CONGENER BZ-24	PCB-BZ-24	2,3',4,5'-Tetrachlorobiphenyl	73575-52-7	PCB CONGENER BZ-68	PCB-BZ-68
2,3',4-Trichlorobiphenyl	55712-37-3	PCB CONGENER BZ-25	PCB-BZ-25	2,3',4,6-Tetrachlorobiphenyl	60233-24-1	PCB CONGENER BZ-69	PCB-BZ-69
2,3',5-Trichlorobiphenyl	38444-81-4	PCB CONGENER BZ-26	PCB-BZ-26	2,3',4',5-Tetrachlorobiphenyl	32598-11-1	PCB CONGENER BZ-70	PCB-BZ-70
2,3',6-Trichlorobiphenyl	38444-76-7	PCB CONGENER BZ-27	PCB-BZ-27	2,3',4',6-Tetrachlorobiphenyl	41464-46-4	PCB CONGENER BZ-71	PCB-BZ-71
2,4,4'-Trichlorobiphenyl	7012-37-5	PCB CONGENER BZ-28	PCB-BZ-28	2,3',5,5'-Tetrachlorobiphenyl	41464-42-0	PCB CONGENER BZ-72	PCB-BZ-72
2,4,5-Trichlorobiphenyl	15862-07-4	PCB CONGENER BZ-29	PCB-BZ-29	2,3',5',6-Tetrachlorobiphenyl	74338-23-1	PCB CONGENER BZ-73	PCB-BZ-73
2,4,6-Trichlorobiphenyl	35693-92-6	PCB CONGENER BZ-30	PCB-BZ-30	2,4,4',5-Tetrachlorobiphenyl	32690-93-0	PCB CONGENER BZ-74	PCB-BZ-74
2,4',5-Trichlorobiphenyl	16606-02-3	PCB CONGENER BZ-31	PCB-BZ-31	2,4,4',6-Tetrachlorobiphenyl	32598-12-2	PCB CONGENER BZ-75	PCB-BZ-75
2,4',6-Trichlorobiphenyl	38444-77-8	PCB CONGENER BZ-32	PCB-BZ-32	2,3',4',5'-Tetrachlorobiphenyl	70362-48-0	PCB CONGENER BZ-76	PCB-BZ-76
2,3',4'-Trichlorobiphenyl	38444-86-9	PCB CONGENER BZ-33	PCB-BZ-33	3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	PCB CONGENER BZ-77	PCB-BZ-77
2,3',5'-Trichlorobiphenyl	37680-68-5	PCB CONGENER BZ-34	PCB-BZ-34	3,3',4,5-Tetrachlorobiphenyl	70362-49-1	PCB CONGENER BZ-78	PCB-BZ-78
3,3',4-Trichlorobiphenyl	37680-69-6	PCB CONGENER BZ-35	PCB-BZ-35	3,3',4,5'-Tetrachlorobiphenyl	41464-48-6	PCB CONGENER BZ-79	PCB-BZ-79
3,3',5-Trichlorobiphenyl	38444-87-0	PCB CONGENER BZ-36	PCB-BZ-36	3,3',5,5'-Tetrachlorobiphenyl	33284-52-5	PCB CONGENER BZ-80	PCB-BZ-80
3,4,4'-Trichlorobiphenyl	38444-90-5	PCB CONGENER BZ-37	PCB-BZ-37	3,4,4',5-Tetrachlorobiphenyl	70362-50-4	PCB CONGENER BZ-81	PCB-BZ-81
3,4,5-Trichlorobiphenyl	53555-66-1	PCB CONGENER BZ-38	PCB-BZ-38	2,2',3,3',4-Pentachlorobiphenyl	52663-62-4	PCB CONGENER BZ-82	PCB-BZ-82
3,4',5-Trichlorobiphenyl	38444-88-1	PCB CONGENER BZ-39	PCB-BZ-39	2,2',3,3',5-Pentachlorobiphenyl	60145-20-2	PCB CONGENER BZ-83	PCB-BZ-83
2,2',3,3'-Tetrachlorobiphenyl	38444-93-8	PCB CONGENER BZ-40	PCB-BZ-40	2,2',3,3',6-Pentachlorobiphenyl	52663-60-2	PCB CONGENER BZ-84	PCB-BZ-84
2,2',3,4-Tetrachlorobiphenyl	52663-59-9	PCB CONGENER BZ-41	PCB-BZ-41	2,2',3,4,4'-Pentachlorobiphenyl	65510-45-4	PCB CONGENER BZ-85	PCB-BZ-85
2,2',3,4'-Tetrachlorobiphenyl	36559-22-5	PCB CONGENER BZ-42	PCB-BZ-42	2,2',3,4,5-Pentachlorobiphenyl	55312-69-1	PCB CONGENER BZ-86	PCB-BZ-86
2,2',3,5-Tetrachlorobiphenyl	70362-46-8	PCB CONGENER BZ-43	PCB-BZ-43	2,2',3,4,5'-Pentachlorobiphenyl	38380-02-8	PCB CONGENER BZ-87	PCB-BZ-87
2,2',3,5'-Tetrachlorobiphenyl	41464-39-5	PCB CONGENER BZ-44	PCB-BZ-44	2,2',3,4,6-Pentachlorobiphenyl	55215-17-3	PCB CONGENER BZ-88	PCB-BZ-88

Component @ 100 µg/mL	CAS#	Description	Catalog#
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
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

Component @ 100 µg/mL	CAS#	Description	Catalog#
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
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

Component @ 100 µg/mL	CAS#	Description	Catalog#	Component @ 100 µg/mL	CAS#	Description	Catalog#
2,2',3,4,4',5,6-Heptachlorobiphenyl	74472-47-2	PCB CONGENER BZ-181	PCB-BZ-181	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740-50-1	PCB CONGENER BZ-196	PCB-BZ-196
2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145-23-5	PCB CONGENER BZ-182	PCB-BZ-182	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091-17-7	PCB CONGENER BZ-197	PCB-BZ-197
2,2',3,4,4',5',6-Heptachlorobiphenyl	52663-69-1	PCB CONGENER BZ-183	PCB-BZ-183	2,2',3,3',4,5,5',6-Octachlorobiphenyl	68194-17-2	PCB CONGENER BZ-198	PCB-BZ-198
2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472-48-3	PCB CONGENER BZ-184	PCB-BZ-184	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663-75-9	PCB CONGENER BZ-199	PCB-BZ-199
2,2',3,4,5,5',6-Heptachlorobiphenyl	52712-05-7	PCB CONGENER BZ-185	PCB-BZ-185	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663-73-7	PCB CONGENER BZ-200	PCB-BZ-200
2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472-49-4	PCB CONGENER BZ-186	PCB-BZ-186	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186-71-8	PCB CONGENER BZ-201	PCB-BZ-201
2,2',3,4',5,5',6-Heptachlorobiphenyl	52663-68-0	PCB CONGENER BZ-187	PCB-BZ-187	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136-99-4	PCB CONGENER BZ-202	PCB-BZ-202
2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487-85-7	PCB CONGENER BZ-188	PCB-BZ-188	2,2',3,4,4',5,5',6-Octachlorobiphenyl	52663-76-0	PCB CONGENER BZ-203	PCB-BZ-203
2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	PCB CONGENER BZ-189	PCB-BZ-189	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472-52-9	PCB CONGENER BZ-204	PCB-BZ-204
2,3,3',4,4',5,6-Heptachlorobiphenyl	41411-64-7	PCB CONGENER BZ-190	PCB-BZ-190	2,3,3',4,4',5,5',6-Octachlorobiphenyl	74472-53-0	PCB CONGENER BZ-205	PCB-BZ-205
2,3,3',4,4',5',6-Heptachlorobiphenyl	74472-50-7	PCB CONGENER BZ-191	PCB-BZ-191	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	40186-72-9	PCB CONGENER BZ-206	PCB-BZ-206
2,3,3',4,5,5',6-Heptachlorobiphenyl	74472-51-8	PCB CONGENER BZ-192	PCB-BZ-192	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-79-3	PCB CONGENER BZ-207	PCB-BZ-207
2,3,3',4',5,5',6-Heptachlorobiphenyl	69782-91-8	PCB CONGENER BZ-193	PCB-BZ-193	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663-77-1	PCB CONGENER BZ-208	PCB-BZ-208
2,2',3,3',4,4',5,5'-Octachlorobiphenyl	35694-08-7	PCB CONGENER BZ-194	PCB-BZ-194	Decachlorobiphenyl	2051-24-3	PCB CONGENER BZ-209	PCB-BZ-209
2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663-78-2	PCB CONGENER BZ-195	PCB-BZ-195				

LIQUID CHROMATOGRAPHY PESTICIDE RESIDUE

Pesticide residue analysis is a critical step in protecting agricultural products and foodstuff from both the onslaught of damaging pests as well as protecting the environment and the population from potentially dangerous chemical residues.

Many new pesticides are now being tested using highly sensitive LC-MS techniques to determine even minute amounts of pesticide residue in environmental samples and food products. SPEX CertiPrep is the leader in offering LC-MS pesticides standards designed to work within the EPA, AOAC, FDA and international analytical testing methods.

LC-MS Pesticide Residual Calibration Standard Mix-1

13 Certified Components

Abate	Isocarbophos
Acephate	Methamidophos
Carbaryl	Mevinphos
Dicrotophos	Monocrotophos
Dimethoate	Omethoate
Dimethomorph	Vamidothion
Dylox	

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-1-A

LC-MS Pesticide Residual Calibration Standard Mix-2

16 Certified Components:

Alanycarb	Furathiocarb
Aldicarb	Methabenzthiazuron
Aldicarb sulfone	Methiocarb
Aldicarb sulfoxide	Methomyl
Benfuracarb	Oxamyl
Butocarboxim	Tebuthiuron
Butoxycarboxim	Thidiazuron
Ethiofencarb	Thiophanate-methyl

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-2-A

LC-MS Pesticide Residual Calibration Standard Mix-3

38 Certified Components:

Baygon (Propoxur)	Hexaflumuron
Bendiocarb	3-Hydroxycarbofuran
Benthiocarb	Indoxacarb
Bifenazate	Iprovalicarb
Carbofuran	Isoprocarb
Chlorfluazuron	Isoproturon
Chlorotoluron	Linuron
Chloroxuron	Lufenuron
Cycluron	Metobromuron
Diethofencarb	Monolinuron
Diflubenzuron	Neburon
Dioxacarb	Novaluron
Diuron	Pirimicarb
Fenobucarb	Promecarb
Fenoxycarb	Propham
Fenuron	Pyraclostrobin
Flufenoxuron	Siduron
Fluometuron	Teflubenzuron
Forchlorfenuron	Triflumuron

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-3-A

LC-MS Pesticide Residual Calibration Standard Mix-4

63 Certified Components:

Abamectin	Imidacloprid
Acetamiprid	Ivermectin
Ametryn	Kresoxim-methyl
Amitraz	Mandipropamid
Azoxystrobin	Mepanipyrim
Benalaxyl	Mepronil
Benzoximate	Metaflumizone
Boscalid	Metalaxyl
Butafenacil	Methoxyfenozide
Carbetamide	Moxidectin
Carfentrazone-ethyl	Nitenpyram
Chlorantraniliprole	Oxadixyl
Clofentezine	Picoxystrobin
Cymoxanil	Piperonyl butoxide
Cyprodinil	Prochloraz
Cyromazine	Prometon
Dimoxystrobin	Pymetrozin
Dinotefuran	Pyracarbolid
Doramectin	Pyrimethanil
Eprinomectin	Pyriproxifen
Famoxadone	Quinoxifen
Fenazaquin	Rotenone
Fenhexamid	Secbumeton
Fenpyroximate	Spiroxamine
Flonicamid	Systhane
Fluazinam	Tebufenozide
Fludioxonil	Tebufenpyrad
Fluoxastrobin	Terbumeton
Flutolanil	Triadimefon
Furalaxyl	Trifloxystrobin
Halofenozide	Zoxamide
Imazalil	

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-4-A

LC-MS Pesticide Residual Calibration Standard Mix-5

30 Certified Components:

Acibenzolar-S-methyl	Mefenacet
Beam	Mesotrione
Bupirimate	Methoprotetryne
Buprofezin	Metribuzin
Carboxin	Prometryne
Clethodim	Omite
Clothianidin	Prothioconazole
Cyazofamid	Pyridaben
Ethiprole	Simetryn
Ethofumesate	Sulfentrazone
Fenamidone	Terbutryne
Fipronil	Thiabendazole
Flubendimide	Thiacloprid
Flufenacet	Thiamethoxam
Hexythiazox	Thiofanox

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-5-A

LC-MS Pesticide Residual Calibration Standard Mix-6

28 Certified Components:

Bitertanol (mix of isomers)	Flutriafol
Bromuconazole	Folicur
Cyproconazole	Fuberidazole
Diclobutrazol	Hexaconazole
Difenoconazole	Ipconazole
Diniconazole	Metconazole
Epoxiconazole	Nuarimol
Etaconazole	Paclobutrazol
Ethirimol	Penconazole
Etoxazole	Propiconazole (Tilt)
Fenarimol	Tetraconazole
Fenbuconazole	Triadimenol
Fluquinconazole	Triflumizole
Flusilazole	Triticonazole

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-6-A

LC-MS Pesticide Residual Calibration Standard Mix-7

7 Certified Components:

Emamectin-benzoate	Spirotetramat
Fenpropimorph	Spinetoram
Spirodiclofen	Spiromesifen
Spinosad A&D	

1 mL @ 100 µg/mL in LC-MS Grade Acetonitrile

Catalog#: LCPR-7-A

LC-MS Pesticide Residual Calibration Standard Mix-8

1 Certified Components:

Hydramethylnon

1 mL @ 100 µg/mL in LCMS Grade Acetonitrile

Catalog#: LCPR-8-A

LC-MS Pesticide Residual Calibration Standard Mix-9

7 Certified Components:

Aminocarb

Monceren

Desmedipham

Phenmedipham

Formetanate hydrochloride

Propamocarb

Mexacarbate

1 mL @ 100 µg/mL in LCMS Grade Acetonitrile

Catalog#: LCPR-9-A

LC-MS Pesticide Residual Calibration Standard Mix-10

1 Certified Components:

Carbendazim

1 mL @ 100 µg/mL in LCMS Grade Acetonitrile

Catalog#: LCPR-10-A

LC-MS Pesticide Residual Calibration Standard Kit

Contains one ampule each of

LCPR-1-A

LCPR-2-A

LCPR-3-A

LCPR-4-A

LCPR-5-A

LCPR-6-A

LCPR-7-A

LCPR-8-A

LCPR-9-A

LCPR-10-A

Catalog#: LCPR-11-KIT

Loyal Customer Programs

SPEX CERTIPREP UNDERSTANDS THE IMPORTANCE OF REWARDING OUR LOYAL CUSTOMERS.

We offer several programs that provide deep discounts and unique and useful gifts for purchasing our products. **There is no need to apply!** Read on for more information.

SPOINTS REWARDS:

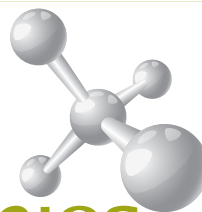
The **SPoints** Rewards Program is one of the many ways that SPEX CertiPrep likes to show its appreciation for your continued business. Every time you make a purchase with SPEX CertiPrep, you will earn 1 **SPoint** (or credit) for every \$10 dollars spent. There is no limit on how many **SPoints** you can earn and they are good for up to one year after your order has shipped.

There is no need to register for this rewards program.

If you place a direct order for any qualifying product, you automatically earn **SPoints** rewards!

LOYAL CUSTOMER DISCOUNT:

SPEX CertiPrep's Loyal Customer Program rewards our customers with an **automatic** discount ranging from 5% to 20% off all our qualified products. If you purchase a minimum of \$2,000 in any calendar year and are in good payment standing with us, we will enroll you into the program **automatically** in the beginning of the next year so you can receive these discounts! The program starts at a 5% discount and increases by 5% each year you are a member in good standing.



SPEXOrganics

Serving the Chromatography Community, One Peak at a Time.™

Consumer Safety

Wine Standards
Pharmaceutical Residual Solvent Standards
Phthalates in Polyetheylene QC Standards
Phthalates
Polyvinyl Chloride (PVC) QC Standards
QuEChERS

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 and is 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 LC-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.

Wine Standards

Component µg/mL:	Concentration µg/mL	Matrix	Volume (mL)	Catalog#
Acetic Acid	1,000	Methanol	1	S-133
Acetic Acid	10,000	DI Water	1	S-133-W10K
2,3-Butanedione	1,000	Methanol	1	S-609
2-Chlorophenol-3,4,5,6-d ₄	1,000	Methanol	1	S-905
Dextrose	1,000	Methanol	1	S-5005
Ethanol	1,000	Methanol	1	S-1885
Ethanol	2,000	DI Water	1	S-1885-W2K
4-Ethyl-2-methoxyphenol	1,000	Methanol	1	S-4183
2-Ethylphenol	1,000	Methanol	1	S-1983
4-Ethylphenol	1,000	Methanol	1	S-1985
2-Fluorophenol	1,000	Methanol	1	S-2050
Malic acid	1,000	Methanol	1	S-4168
2,3,4,5,6-Pentachloroanisole	1,000	Methanol	1	S-2930
Pentachlorophenol	1,000	Methanol	1	S-2950
Phenol-d ₆	1,000	Methanol	1	S-3035
2,3,4,6-Tetrachlorophenol	1,000	Methanol	1	S-3405
2,4,6-Tribromoanisole	1,000	Methanol	1	S-4309
2,4,6-Tribromophenol	1,000	Methanol	1	S-3555

Component µg/mL:	Concentration µg/mL	Matrix	Volume (mL)	Catalog#
2,4,6-Tribromophenol-d ₅	1,000	Methanol	1	S-4335
2,4,6-Tribromophenol-d ₅	100	Methanol	1	S-4335-100
2,4,6-Trichloroanisole	1,000	Methanol	1	S-3586
2,4,6-Trichloroanisole-d ₅	20	Methanol	1	S-4336-20
2,4,6-Trichloroanisole-d ₅	46	Ethanol	1	S-4336-46
2,4,6-Trichloroanisole-d ₅	100	Methanol	1	S-4336-100
2,4,6-Trichlorophenol	1,000	Methanol	1	S-3645
2,4,6-Trichloroanisole-d ₅ Pentachloroanisole-d ₃ 2,4,6-Tribromoanisole-d ₅	100	Methanol	1	WINE-1
2,3,4,5,6-Pentachloroanisole 2,3,4,6-Tetrachloroanisole 2,4,6-Trichloroanisole	100	Methanol	1	WINE-2
Carbon disulfide 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	10,000	Methanol	1	WINE-3

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

USP <467> Residual Solvent Mixes**5 Organic Volatile Impurities;****Class 1 Solvents**

	$\mu\text{g/mL}$
1,1,1-Trichloroethane	50,000
1,1-Dichloroethene	40,000
1,2-Dichloroethane	25,000
Carbon tetrachloride	20,000
Benzene	10,000

Volume: 1 mL**Matrix:** Dimethyl Sulfoxide**Catalog#:** USP-RS-C1**15 Organic Volatile Impurities;****Class 2 Solvents**

	$\mu\text{g/mL}$
Acetonitrile	2,050
Chlorobenzene	1,800
Cyclohexane	19,400
cis-1,2-Dichloroethene	4,700
trans-1,2-Dichloroethene	4,700
1,4-Dioxane	1,900
Ethylbenzene	1,840
Methanol	15,000
Methylcyclohexane	5,900
Methylene chloride	3,000
Tetrahydrofuran	3,450
Toluene	4,450
m-Xylene	6,510
p-Xylene	1,520
o-Xylene	980

Volume: 1 mL**Matrix:** Dimethyl Sulfoxide**Catalog#:** USP-RS-C2A**8 Organic Volatile Impurities;****Class 2 Solvents**

	$\mu\text{g/mL}$
Chloroform	60
1,2-Dimethoxyethane	100
n-Hexane	290
2-Hexanone	50
Nitromethane	50
Pyridine	200
1,2,3,4-Tetrahydronaphthalene	100
Trichloroethene	80

Volume: 1 mL**Matrix:** Dimethyl Sulfoxide**Catalog#:** USP-RS-C2B**8 Organic Volatile Impurities;****Class 2 Solvents**

	$\mu\text{g/mL}$
N,N-Dimethylacetamide	54,500
N,N-Dimethylformamide	4,400
2-Ethoxyethanol	800
Ethylene glycol	3,100
Formamide	1,100
2-Methoxyethanol	250
1-Methyl-2-pyrrolidinone	2,650
Tetramethylene sulfone	800

Volume: 1 mL**Matrix:** Dimethyl Sulfoxide**Catalog#:** USP-RS-C2C**24 Organic Volatile Impurities;****Class 3 Solvents**

	$\mu\text{g/mL}$
Acetone	1,000
Anisole	1,000
1-Butanol	1,000
2-Butanol	1,000
2-Butanone	1,000
Butyl acetate	1,000
tert-Butyl methyl ether	1,000
Ethanol	1,000
Ether	1,000
Ethyl acetate	1,000
Ethyl formate	1,000
n-Heptane	1,000
Isobutyl acetate	1,000
Isopropyl acetate	1,000
Isopropylbenzene	1,000
Methyl acetate	1,000
3-Methyl-1-butanol	1,000
4-Methyl-2-pentanone	1,000
2-Methyl-1-propanol	1,000
n-Pentane	1,000
1-Pentanol	1,000
1-Propanol	1,000
2-Propanol	1,000
Propyl acetate	1,000

Volume: 1 mL**Matrix:** Dimethyl Sulfoxide**Catalog#:** USP-RS-C3A**2 Organic Volatile Impurities;****Class 3 Solvents**

	$\mu\text{g/mL}$
Acetic Acid	1,000
Formic acid	1,000

Volume: 1 mL**Matrix:** Dimethyl Sulfoxide**Catalog#:** USP-RS-C3B

USP <467> Residual Solvent Singles

Volume: 1 mL

Matrix: Dimethyl Sulfoxide

Compound	Concentration (µg/mL)	CAS#	Catalog#
Acetonitrile	2,050	75-05-8	USP-S145-DMSO
Benzene	10,000	71-43-2	USP-S405-DMSO
Carbon Tetrachloride	20,000	56-23-5	USP-S750-DMSO
Chlorobenzene	1,800	108-90-7	USP-S810-DMSO
Chloroform	300	67-66-3	USP-S865-DMSO
Cyclohexane	19,400	110-82-7	USP-S1015-DMSO
1,1-Dichloroethene	40,000	75-35-4	USP-S1390-DMSO
1,2-Dichloroethane	25,000	107-06-2	USP-S1380-DMSO
cis-1,2-Dichloroethene	4,670	156-59-2	USP-S1394-DMSO
trans-1,2-Dichloroethene	4,670	156-60-5	USP-S1400-DMSO
1,2-Dimethoxyethane	500	110-71-4	USP-S1572-DMSO
N,N-Dimethylacetamide	5,450	127-19-5	USP-S1597-DMSO
1,4-Dioxane	1,900	123-91-1	USP-S1715-DMSO
2-Ethoxyethanol	800	110-80-5	USP-S1910-DMSO
Ethylbenzene	1,840	100-41-4	USP-S1940-DMSO
Ethylene Glycol	3,100	107-21-1	USP-S1952-DMSO
Formamide	1,100	75-12-7	USP-S2062-DMSO
Methanol	15,000	67-56-1	USP-S2380-DMSO
Methylene Chloride	3,000	75-09-2	USP-S2480-DMSO
1-Methyl-2-pyrrolidinone	2,650	872-50-4	USP-S2590-DMSO
Nitromethane	250	75-52-5	USP-S2722-DMSO
Pyridine	1,000	110-86-1	USP-S3240-DMSO
Tetrahydrofuran	3,600	109-99-9	USP-S3460-DMSO
1,2,3,4-Tetrahydronaphthalene	500	119-64-2	USP-S3464-DMSO
Toluene	4,450	108-88-3	USP-S3505-DMSO
1,1,1-Trichloroethane	50,000	71-55-6	USP-S3605-DMSO
Trichloroethene	400	79-01-6	USP-S3615-DMSO
m-Xylene	6,510	108-38-3	USP-S3830-DMSO
o-Xylene	970	95-47-6	USP-S3835-DMSO
p-Xylene	1,520	106-42-3	USP-S3840-DMSO

Phthalates in Polyethylene QC Standards

Polyethylene (PE) is one of the world's most common plastics. PE is used in a variety of common consumer products including children's toys and care items. Current US regulations limit the concentrations of certain phthalates (DBP, BBP, DEHP, DNOP, DIDP and DINP) in childcare articles and children's toys. Laboratories are now tasked with the analysis of children's toys for these potentially hazardous phthalates.

SPEX CertiPrep is proud to offer the first certified reference material for phthalates in polyethylene produced under the guidelines of ISO9001, 17025 and Guide 34. SPEX CertiPrep standards are designed for use with the most common US and EU methods for the testing of children's products for phthalates including: CPSC-CH-C1001-09.3, ASTM D7823 - 13, EU Directive 2005/84/EC.

Polyethylene QC Standard Blank

Matrix: Polyethylene

Volume: 5g

Catalog#: CRM-PEBLK

Phthalates in Medium Density Polyethylene Standard

8 Certified Components:

Butylbenzyl phthalate	3,000 µg/g
Di-n-butyl phthalate	3,000 µg/g
bis(2-Ethylhexyl)phthalate	3,000 µg/g
Diethyl phthalate	3,000 µg/g
Diisodecyl phthalate	30,000 µg/g
Diisononyl phthalate (Branched)	30,000 µg/g
Dimethyl phthalate	3,000 µg/g
Di-n-octyl phthalate	3,000 µg/g

Matrix: Polyethylene

Volume: 5g

Catalog#: CRM-PE001

8 Regulated Phthalates and BPA in Medium Density Polyethylene

9 Certified Components:

Bisphenol A	3,000 µg/g
Butylbenzyl phthalate	3,000 µg/g
Di-n-butyl phthalate	3,000 µg/g
bis(2-Ethylhexyl)phthalate	3,000 µg/g
Diethyl phthalate	3,000 µg/g
Diisodecyl phthalate	30,000 µg/g
Diisononyl phthalate (Branched)	30,000 µg/g
Dimethyl phthalate	3,000 µg/g
Di-n-octyl phthalate	3,000 µg/g

Matrix: Polyethylene

Volume: 5g

Catalog#: CRM-PE002



Phthalates in Polyvinyl

Polyvinyl chloride or PVC is a very common plastic used in a wide range of common consumer products from children's toys and care items to building and construction materials. In the US, ASTM and the CPSC have designated methods for testing children's toys and childcare articles for compliance with the restriction of use for six designated phthalates: DBP, BBP, DEHP, DNOP, DIDP, and DINP.

SPEX CertiPrep is proud to offer the first certified reference material for phthalates in polyvinyl chloride produced under the guidelines of ISO9001, 17025 and Guide 34. SPEX CertiPrep standards are designed for use with the most common US and EU methods for the testing of children's products for phthalates including: CPSC-CH-C1001-09.3, ASTM D7823 - 13, EU Directive 2005/84/EC.

Phthalates in Poly(vinyl chloride)

8 Certified Components:

Butylbenzyl phthalate	3,000 µg/g
Di-n-butyl phthalate	3,000 µg/g
bis(2-Ethylhexyl)phthalate	3,000 µg/g
Diethyl phthalate	3,000 µg/g
Diisodecyl phthalate	30,000 µg/g
Diisononyl phthalate (Branched)	30,000 µg/g
Dimethyl phthalate	3,000 µg/g
Di-n-octyl phthalate	3,000 µg/g

Matrix: Poly(vinyl chloride)

Volume: 1.5g

Catalog#: CRM-PVC001

Poly(vinyl chloride) Phthalate Blank

Matrix: Poly(vinyl chloride)

Volume: 1.5g

Catalog#: CRM-PVCBLK

Calibration Standard Phthalates

6 Certified Components:

Butylbenzyl phthalate
Di-n-butyl phthalate
bis(2-Ethylhexyl)phthalate
Diisodecyl phthalate
Diisononyl phthalate (Branched)
Di-n-octyl phthalate

1 mL @ 1,000 ug/mL in Isooctane

Catalog#: C1001-09

Acetaldehyde

Acetaldehyde is one of the most common aldehydes that occur in nature and industrial processes. Naturally occurring, acetaldehyde is found as a product of ethanol fermentation in alcoholic beverages, yeast products such as bread, and ripe fruit. Acetaldehyde forms by degradation of PET exposed to high temperatures or high pressures.

Acetaldehyde in Water

Matrix: H₂O

Volume: 1.8 mL

Catalog: S-125-W1.8

Did You Know?

SPEX CertiPrep offers custom PE, PVC as well as other matrices and QC Samples. Visit the Knowledge Base Section of our website for webinars and white papers on Phthalates.

Plastic Additives

Plastic Additives or Plasticizers are chemicals added to increase the plasticity or fluidity of many polymer materials. Additives for plastic can be used to change the physical properties of polymers, add colorants or fragrances, or provide a finish to the final product.

These plastic additives are most commonly found as phthalate esters. The safety of the use of these phthalate esters or phthalates has been a topic of great discussion and regulation. Many phthalates are under governmental restriction for use in a wide variety of consumer products. The use of phthalates in the consumer world is ubiquitous

and many analytical labs are now tasked to quantify the regulated plasticizers while ruling out the presence of other similar plasticizers.

Standards are a critical part of the analysis of plasticizers in order for a laboratory to determine the concentration of the truly regulated plasticizer from possibly a similar type or form of plasticizer.

SPEX CertiPrep's full line of plasticizer compound standards can assist the analytical laboratory with all their plasticizer analyses by all the current analytical methods including GC-MS and LC-MS.

Individual Phthalates

Volume: 1 mL

Concentration: 1,000 µg/mL

Compound	Matrix	Catalog#
Bis(2-ethoxyethyl)phthalate	Methanol	S-4550
Bis(2-ethylhexyl)hexahydro phthalate	Methanol	S-4927
Bis(2-ethylhexyl)isophthalate	Methanol	S-4928
bis(2-Ethylhexyl)phthalate	Methanol	S-1970
Bis-(2-ethylhexyl)terephthalate	Methanol	S-5459
Bis(2-methoxyethyl)phthalate	Methanol	S-4156
Bis(2-n-butoxyethyl)phthalate	Methanol	S-4152
Bis(4-methyl-2-pentyl)phthalate	Methanol	S-4154
Butylbenzyl phthalate	MeCl ₂	S-680-MECL
1,2-Cyclohexane dicarboxylic acid di-isononyl ester	Methanol	S-5104
Diallyl phthalate	Methanol	S-4931
Diamyl phthalate	Methanol	S-4157
Dibenzyl phthalate	MeCl ₂	S-1186
Dicapryl phthalate	Methanol	S-4932
Dicyclohexyl phthalate	Methanol	S-4151
Diethyl phthalate	Methanol	S-1515
Diisobutyl phthalate	Methanol	S-4150
Diisodecyl phthalate	Methanol	S-4464
Diisoheptyl phthalate	MeCl ₂	S-1553
Diisononyl phthalate (Unbranched)	Methanol	S-5701

Compound	Matrix	Catalog#
Diisononyl phthalate	Acetone	S-1559
Di-iso-octyl Phthalate	Methanol	S-5738
Dimethoxyethyl phthalate	Methanol	S-1575
Dimethyl isophthalate	Methanol	S-1594
Dimethyl phthalate	Methanol	S-1590
Dimethyl terephthalate	Methanol	S-1595
Di-n-butyl phthalate	Methanol	S-1770
Di-n-decyl phthalate	Methanol	S-4933
Di-n-hexyl phthalate	Methanol	S-4155
Di-n-hexyl phthalate	Hexane	S-4155-H
Di-n-octyl phthalate	Methanol	S-1775
Dinonyl phthalate	Methanol	S-4153
Dioctyl isophthalate	Methanol	S-4937
Diphenyl isophthalate	Methanol	S-4449
Diphenyl phthalate	Methanol	S-4448
Dipropyl phthalate	Methanol	S-4491
Ditridecyl phthalate	Methanol	S-4929
Diundecyl phthalate	Methanol	S-4930
Hexyl 2-ethylhexyl phthalate	Methanol	S-4158
Isopentyl pentyl phthalate	Methanol	S-6109

QuEChERS Kits

The QuEChERS Method (Quick, Easy, Cheap, Effective, Rugged and Safe) simplifies multi-residue pesticide analysis in food samples. SPEX CertiPrep meets all your QuEChERS needs with general purpose kits suitable for removal of polar organic acids, some low to moderate levels of sugars, and lipids. Ready-to-use tubes are pre-packaged with extraction salts and sorbents for fast and easy sample preparation.

Extraction kits contain fifty 15 mL salt tubes and fifty 50 mL stand-alone centrifuge tubes. dSPE kits contain pre-weighed sorbents/salts inside 15 mL or 2 mL centrifuge tubes.

General purpose kits are available for US (AOAC Method 2007.01) and European Methods (EN Method 15662). Custom kits are also available.

QuEChERS Citrate Buffered Extraction Tubes (15 mL - 50 Pack)

Components:

4 g MgSO_4
1 g NaCl, 0.5 g sodium citrate dibasic sesquihydrate
1 g sodium citrate tribasic dihydrate
(Kit includes 50 empty 50 mL tubes)

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

Catalog#: EN-CIT-50ML

QuEChERS PSA Dispersive SPE Clean-Up Tubes (15 mL - 50 Pack)

Components:

150 mg PSA
900 mg MgSO_4

Catalog#: EN-PSA-15ML

QuEChERS PSA Dispersive SPE Clean-Up Tubes (2 mL-100 Pack)

Components:

25 mg PSA
150 mg MgSO_4

Catalog#: EN-PSA-2ML

Acetate Buffered Extraction Tubes (50 Pack)

Components:

6 g MgSO_4
1.5 g sodium acetate
(Kit includes 50 empty 50 mL tubes)

50 Pack 15 mL Centrifuge Tubes

Catalog#: AOAC-ACE-50ML

QuEChERS PSA Dispersive SPE Clean-Up Tubes (2 mL - 100 Pack)

Components:

50 mg PSA
150 mg MgSO_4

Catalog#: AOAC-PSA-2ML

QuEChERS PSA Dispersive SPE Clean-Up Tubes (15 mL - 50 Pack)

Components:

400 mg PSA
1200 mg MgSO_4

Catalog#: AOAC-PSA-15ML



QuEChERS Standards

SPEX CertiPrep provides a complete solution to all your QuEChERS needs with a comprehensive set of Internal Standards for the QuEChERS analytical techniques (GC, GC-MS and LC-MS).

Single Component Reference Standards

Volume: 5 mL

Compound	Solvent	Concentration (µg/mL)	Catalog#
PCB 18	Acetonitrile	50	QuECR-PCB-18
PCB 28	Acetonitrile	50	QuECR-PCB-28
PCB 52	Acetonitrile	50	QuECR-PCB-52
PCB 138	Acetonitrile	50	QuECR-PCB-138
PCB 153	Acetonitrile	50	QuECR-PCB-153
Triphenylmethane	Acetonitrile	10	QuECR-5190
Triphenylphosphate	Acetonitrile	20	QuECR-3765
Triphenylphosphate	Acetonitrile	2	QuECR-AOAC-TTP
Tris-(dichloroisopropyl)phosphate	Acetonitrile	50	QuECR-4381



GC-ECD Internal Standard Mix

Components:

PCB 18
PCB 28
PCB 52
tris-(1,3-Dicholorisopropyl)phosphate

Volume: 5 mL @ 50 µg/mL in Acetonitrile

Catalog#: QuECR-ECD-IS

LC-MS Internal Standard Mix

Components:

Nicarbazin

Volume: 5 mL @ 10 µg/mL in Acetonitrile

Catalog#: QuECR-LC-MS-IS

GC-NPD & LC-MS Internal Standard Mix

Compound	Concentration
Triphenylphosphate	20 µg/mL
Tris-(1,3-Dicholorisopropyl) phosphate	50 µg/mL

Volume: 5 mL

Solvent: Acetonitrile

Catalog#: QuECR-NPD-MS-IS

GC-MS QC Standards

Compound	Concentration	Catalog#
PCB 138	50 µg/mL	QuECR-MS-QC-1
PCB 153	50 µg/mL	
Anthracene	100 µg/mL	QuECR-MS-QC-2

Volume: 5 mL

Solvent: Acetonitrile

GC-MS Internal Standard Mix

Compound	Concentration
PCB 18	50 µg/mL
PCB 28	50 µg/mL
PCB 52	50 µg/mL
Triphenylmethane	10 µg/mL
Triphenylphosphate	20 µg/mL
Tris-(1,3-Dicholorisopropyl) phosphate	50 µg/mL

Volume: 5 mL

Solvent: Acetonitrile

Catalog#: QuECR-MS-IS

AOAC

AOAC International is a globally recognized standards developing organization. AOAC methods encompass a wide range of industries and interests from agricultural products, food and beverages, environmental analysis and pharmaceuticals.

SPEX CertiPrep carries standards that are designed for the most commonly used AOAC analytical methods employing GC, GC-MS, HPLC or LC-MS.

AOAC Internal Standard Mix

Components:

α-BHC-d₆ (α-HCH-d₆)
parathion-d₁₀

Volume: 5 mL @ 40 µg/mL each in Acetonitrile

Catalog#: QuECR-AOAC-IS

AOAC QC Spike Mix

Components:

Atrazine	Imidacloprid
Azoxystrobin	Kresoxim methyl
Bifenthrin	Linuron
Carbaryl (Sevin)	Methamidophos
Chlorothalonil	Methomyl
Chlorpyrifos (Dursban)	cis-Permethrin
Chlorpyrifos methyl	trans-Permethrin
Lambda-cyhalothrin	Procymidone
Cyprodinil	Pymetrozine
2,4'-DDD	Tebuconazole (Folicur)
Dichlorvos (DDVP)	Thiabendazole
Endosulfan sulfate	Tolyfluanid
Ethion	Trifluralin
Imazalil	

Volume: 5 mL @ 40 µg/mL each in Acetonitrile

Catalog#: QuECR-AOAC-QC

ShaQer™

The ShaQer™ is the new, low cost solution for QuEChERS sample prep! It agitates up to 6 samples simultaneously compared to just 2 by hand. The vigorous clamp movement results in improved extraction from samples.

Description	Catalog#
ShaQer Base Unit with Clamp for 50 mL/15 mL Vials	CP1500-1590
ShaQer Base Unit with Clamp for 50 mL/2mL Vials	CP1500-1595
ShaQer Ceramic Grinding Media 5/32 in x 5/16 inch	CP2185
ShaQer Ceramic Grinding Media-3/8 in x 7/8 inch	CP2183
ShaQer Ceramic Grinding Media-5/16 in x 5/8 inch	CP2184
ShaQer Clamp for 50 mL/2 mL Vials	CP1595
ShaQer Clamp for 50mL/15 mL Vials	CP1590



Safety interlock prevents unit from operating when lid is open. Window allows analyst to view samples during operation.

Vertical shaking motion ensures thorough mixing and analyte extraction.

Clamp holds six 50 mL vials or six 15 mL vials. Alternate clamp for six 50 mL vials or six 2 mL vials.

Spill tray for easy cleanup.

Digital timer display with adjustable operating time.

Compact, powerful motor agitates samples at 1500 rpm.

SPEX^{QuE}E[®] Sensible Solutions for Pesticide Extraction

QuEChERS

Kits, Standards and Sample Prep



Save 10% on your first order.

For more information visit:

www.spexcertiprep.com/products/quechers



1500
ShaQer[™]



SPEX[®] CertiPrep[®]

Petroleum Petrochemical & BioDiesel Standards



Petroleum, Petrochemical & BioDiesel Standards

Petroleum is a naturally occurring complex mixture of various molecular weight hydrocarbons and includes products created from unprocessed and refined crude oil. Petrochemicals are the products derived from petroleum and include a variety of chemical compounds. Petrochemicals may also include products derived from other petroleum sources other than fossil fuels including renewable sources such as agricultural products (corn, soy, and sugar cane).

Testing using petroleum standards are needed throughout the entire lifespan of a petroleum product from its creation in the refinery through environmental monitoring of potential contamination of soil and groundwater sources through waste disposal or leaking storage facilities.

SPEX CertiPrep's catalog of Petroleum and Petrochemical standards supplies our customers with standards for the entire lifecycle of the petroleum products from standards to characterize various fuel types to standards that monitor potential contamination from LUST and LUFT sources.

Petrochemical & LUST Standards

The EPA regulates the monitoring and testing of underground storage tanks (USTs) that were or are used to store petroleum or other hazardous substances that could impact the environment and human health. At the end of 2013, there were over half a million registered underground storage tanks in the US. Many tanks installed prior to the mid-80s were composed of steel which can corrode over time and may leak the tank contents into the surrounding groundwater and soil.

The Hazardous and Solid Waste Amendments to the Resource Conservation and Recovery Act (RCRA) passed in 1984 required the U.S. Environmental Protection Agency (EPA) to develop regulations for the underground storage of motor fuels. The EPA requires owners and operators of USTs to maintain and clean up sites damaged by petroleum contamination.

SPEX CertiPrep provides standards designed to meet the testing requirements set up by the EPA and many individual state regulations for LUST (Leaking Underground Storage Tanks) and LUFT (Leaking Underground Fuel Tanks).

BTEX Standard

6 Certified Components:

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

1 mL @ 200 µg/mL in Methanol

Catalog#: BTEX

1 mL @ 2,000 µg/mL in Methanol

Catalog#: BTEX-H

Alternate BTEX Standard Formulations

6 Certified Components:

	µg/mL		µg/mL
Benzene	200	o-Xylene	200
Ethylbenzene	200	p-Xylene	100
Toluene	200	m-Xylene	100

1 mL in Methanol

Concentration is 10x greater than BTEX-100.

Catalog#: BTEX-100H

State of PA BTEX Standard

9 Certified Components:

	Concentration
Benzene	1,000 µg/mL
Ethylbenzene	1,000 µg/mL
Isopropylbenzene	1,000 µg/mL
Methyl-tert-butyl ether	2,000 µg/mL
Naphthalene	1,000 µg/mL
Toluene	1,000 µg/mL
m-Xylene	1,000 µg/mL
o-Xylene	1,000 µg/mL
p-Xylene	1,000 µg/mL

1 mL in Methanol

Catalog#: PA-BTEX-H

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 Methanol

Catalog#: P-GAS

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 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 Methanol

Catalog#: GRO-EPA

Gasoline Range Organics (EPA) Alternative Formulation

10 Certified Components:

	$\mu\text{g/mL}$	$\mu\text{g/mL}$
Benzene	500	2,2,4-Trimethylpentane
Ethylbenzene	500 (isooctane)	1,500
Heptane	500	o-Xylene
2-Methylpentane	1,500	m-Xylene
Toluene	1,500	p-Xylene
1,2,4-Trimethylbenzene	1,000	

1 mL in Methanol

Catalog#: GRO-EPA-2

Diesel Range Organics Mix

10 Certified Components:

n-Decane	n-Hexadecane
n-Docosane	n-Octacosane
n-Dodecane	n-Octadecane
n-Eicosane	n-Tetracosane
n-Hexacosane	n-Tetradecane

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

Catalog#: DRO-1000

Alkanes Reference Table

SPEX CertiPrep offers all compounds listed below as 1,000 $\mu\text{g/mL}$ single component standards in the matrix listed.

Component	Formula	Matrix	Single-Component Standard Part#
Butane	C_4H_{10}	MeOH	S-605
Decane	$\text{C}_{10}\text{H}_{22}$	MeCl_2	S-1112
Docosane	$\text{C}_{22}\text{H}_{46}$	MeCl_2	S-1790
Dodecane	$\text{C}_{12}\text{H}_{26}$	MeCl_2	S-1795
Dotetracontane	$\text{C}_{42}\text{H}_{86}$	CS_2	S-1809
Dotriacontane	$\text{C}_{32}\text{H}_{66}$	MeCl_2	S-1810
Eicosane	$\text{C}_{20}\text{H}_{42}$	MeCl_2	S-1820
Ethane	C_2H_6	MeOH	S-1880
Heneicosane	$\text{C}_{21}\text{H}_{44}$	MeOH	S-2090
Hentriacontane	$\text{C}_{31}\text{H}_{64}$	MeCl_2	S-2095
Heptacosane	$\text{C}_{27}\text{H}_{56}$	MeCl_2	S-2115
Heptadecane	$\text{C}_{17}\text{H}_{36}$	MeOH	S-2120
Heptane	C_7H_{16}	MeOH	S-2125

Component	Formula	Matrix	Single-Component Standard Part#
Hexacontane	$\text{C}_{60}\text{H}_{122}$	P-Xylene	S-2166
Hexacosane	$\text{C}_{26}\text{H}_{54}$	MeCl_2	S-2170
Hexadecane	$\text{C}_{16}\text{H}_{34}$	MeCl_2	S-2175
Hexane	C_6H_{14}	MeOH	S-2190
Hexatriacontane	$\text{C}_{36}\text{H}_{74}$	P-Xylene	S-2210
Methane	CH_4	MeOH	S-2379
Nonacosane	$\text{C}_{29}\text{H}_{60}$	MeCl_2	S-2775
Nonadecane	$\text{C}_{19}\text{H}_{40}$	MeCl_2	S-2780
Nonane	C_9H_{20}	MeOH	S-2785
Octacosane	$\text{C}_{28}\text{H}_{58}$	MeCl_2	S-2845
Octadecane	$\text{C}_{18}\text{H}_{38}$	MeOH	S-2850
Octane	C_8H_{18}	MeOH	S-2870
Octatriacontane	$\text{C}_{38}\text{H}_{78}$	MeCl_2	S-2886
Pentacontane	$\text{C}_{50}\text{H}_{102}$	CS_2 /Pentane/ MeCl_2	S-2953
Pentacosane	$\text{C}_{25}\text{H}_{52}$	MeCl_2	S-2955
Pentadecane	$\text{C}_{15}\text{H}_{32}$	MeOH	S-2960
Pentane	C_5H_{12}	MeOH	S-2975
Pentatriacontane	$\text{C}_{35}\text{H}_{72}$	Hexane	S-2990
Propane	C_3H_8	MeOH	S-3145
Tetracosane	$\text{C}_{24}\text{H}_{50}$	FREON113	S-3435
Tetracontane	$\text{C}_{40}\text{H}_{82}$	Hexane	S-3430
Tetradecane	$\text{C}_{14}\text{H}_{30}$	MeCl_2	S-3440
Tetratetracontane	$\text{C}_{44}\text{H}_{90}$	MeCl_2	S-3480
Tetratriacontane	$\text{C}_{34}\text{H}_{70}$	FREON113	S-3485
Triacontane	$\text{C}_{30}\text{H}_{62}$	MeCl_2	S-3540
Tricosane	$\text{C}_{23}\text{H}_{48}$	MeCl_2	S-3685
Tridecane	$\text{C}_{13}\text{H}_{28}$	MeOH	S-3690
Trtriacontane	$\text{C}_{33}\text{H}_{68}$	MeCl_2	S-3775
Undecane	$\text{C}_{11}\text{H}_{24}$	MeOH-	S-3780

Multi-State Hydrocarbon Standard Hexane Tetratetracontane Even Alkanes Mix (C₆-C₄₄)

20 Certified Components:

n-Decane	n-Octacosane
n-Docosane	n-Octadecane
n-Dodecane	n-Octane
n-Dotetracontane	n-Octatriacontane
n-Dotriacontane	n-Tetracontane
n-Eicosane	n-Tetracosane
n-Hexacosane	n-Tetradecane
n-Hexadecane	n-Tetratetracontane
n-Hexane	n-Tetratriacontane
n-Hexatriacontane	n-Triacontane

1 mL @ 100 µg/mL in Cyclohexane:carbon Disulfide
Catalog#: PROALK6-44

1 mL @ 1,000 µg/mL in Cyclohexane:carbon Disulfide
Catalog#: PROALK6-44-H

C₁₁ through C₁₈ Alkanes Mix

8 Certified Components:

n-Dodecane	n-Pentadecane
n-Heptadecane	n-Tetradecane
n-Hexadecane	n-Tridecane
n-Octadecane	n-Undecane

1 mL @ 1,000 µg/mL in Cyclohexane
Catalog#: C11-18

C₁₅ through C₃₅ Odd Alkanes Mix

11 Certified Components:

n-Heneicosane	n-Pentacosane
n-Hentriacontane	n-Pentadecane
n-Heptacosane	n-Pentatriacontane
n-Heptadecane	n-Tricosane
n-Nonacosane	n-Tritriacontane
n-Nonadecane	

1 mL @ 1,000 µg/mL Methylene chloride
Catalog#: ENC-ODD-1K

(C₁₆ through C₃₆) Even Alkanes Mix

11 Certified Components:

n-Docosane	n-Octacosane
n-Dotriacontane	n-Octadecane
n-Eicosane	n-Tetracosane
n-Hexacosane	n-Tetratriacontane
n-Hexadecane	n-Triacontane
n-Hexatriacontane	

1 mL @ 1,000 µg/mL Methylene chloride
Catalog#: ENC-EVEN-1K

State of TX – C₆-C₃₅ Alkanes

18 Certified Components:

n-Decane	n-Octacosane
n-Dodecane	n-Octadecane
n-Eicosane	n-Octane
n-Heptadecane	n-Pentacosane
n-Heptane	n-Pentadecane
n-Hexadecane	n-Pentatriacontane
n-Hexane	n-Tetradecane
n-Nonadecane	n-Tridecane
n-Nonane	n-Undecane

1 mL @ 1,000 mg/mL in Pentane
Catalog#: TX-HC-18

Single-Component Petrochemical Fuel Standards

Component	Concentration 1mL @	Certified Components	Catalog#
Regular Unleaded Gasoline	1,000 µg/mL in Methylene chloride	1	S-RG-1000
	20,000 µg/mL in Methanol	1	S-RG-20K
Premium Unleaded Gasoline	1,000 µg/mL in Methylene chloride	1	S-PG-1000
	20,000 µg/mL in Methanol	1	S-PG-20K
Motor Oil, SAE 30W	1,000 µg/mL in Methylene chloride	1	S-030W-1000
	20,000 µg/mL in Methylene chloride	1	S-030W-20K
Motor Oil, SAE 40W	1,000 µg/mL in Methylene chloride	1	S-040W-1000
	20,000 µg/mL in Methylene chloride	1	S-040W-20K
Motor Oil, SAE 50W	1,000 µg/mL in Methylene chloride	1	S-050W-1000
	20,000 µg/mL in Methylene chloride	1	S-050W-20K
#2 Diesel Fuel Oil	1,000 µg/mL in Methanol	1	S-DF2-1000
	20,000 µg/mL in Methylene chloride	1	S-DF2-20K
Kerosene	1,000 µg/mL in Methanol	1	S-K-1000
	20,000 µg/mL in Methanol	1	S-K-20K
Mineral Spirits	1,000 µg/mL in Methanol	1	S-MS-1000
	20,000 µg/mL in 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 Methanol	1	S-WG-25
	50% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WG-50
	75% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WG-75
#2 Diesel Fuel Oil	25% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WDF-25
	50% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WDF-50
	75% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WDF-75
Kerosene	25% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WK-25
	50% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WK-50
	75% weathered, 1 mL @ 5,000 µg/mL in Methanol	1	S-WK-75

Auxiliary Standards

Surrogate

1 Certified Component:

o-Terphenyl

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

Catalog#: DIESEL-I

Internal Standard

1 Certified Component:

5-a-Androstane

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-211

Surrogate

1 Certified Component:

1-Chlorooctadecane

1 mL @ 1,000 µg/mL in Methanol

Catalog#: S-893

In the beginning...

Art and Harriet Mitteldorf founded SPEX Industries, Inc. in 1954.

They started selling graphite electrodes and spectrographic plates and film for arc/spark spectroscopy. They quickly developed their own analytical standards and sample preparation equipment, and those two traditions and product lines are proudly continued today by SPEX CertiPrep and SPEX SamplePrep.

NJDEP Extractable Petroleum Hydrocarbon Method

These products were developed to comply with health-based criteria for site remediation efforts, and includes procedures to separate the petroleum content into specific carbon ranges.

METHOD OQA-QAM-025-02/8 NJDEP EPH

Aliphatics Calibration Standard

20 Certified Components:

2-Methylnaphthalene	n-Hexatriacontane
Naphthalene	n-Nonane
n-Decane	n-Octacosane
n-Docosane	n-Octadecane
n-Dodecane	n-Octatriacontane
n-Dotriacontane	n-Tetracontane
n-Eicosane	n-Tetracosane
n-Heneicosane	n-Tetradecane
n-Hexacosane	n-Tetratriacontane
n-Hexadecane	n-Triacontane

1 mL @ 2000 µg/mL in Hexane:Carbon Disulfide

Catalog#: NJDEP-EPH-ALCS

Aliphatics Fractionation Check Mix

18 Certified Components:

n-Decane	n-Nonane
n-Docosane	n-Octacosane
n-Dodecane	n-Octadecane
n-Dotriacontane	n-Octatriacontane
n-Eicosane	n-Tetracontane
n-Heneicosane	n-Tetracosane
n-Hexacosane	n-Tetradecane
n-Hexadecane	n-Tetratriacontane
n-Hexatriacontane	n-Triacontane

5 mL @ 400 µg/mL in Hexane

Catalog#: NJDEP-EPH-ALFC

Aliphatics Matrix Spike Mix

18 Certified Components:

n-Decane	n-Nonane
n-Docosane	n-Octacosane
n-Dodecane	n-Octadecane
n-Dotriacontane	n-Octatriacontane
n-Eicosane	n-Tetracontane
n-Heneicosane	n-Tetracosane
n-Hexacosane	n-Tetradecane
n-Hexadecane	n-Tetratriacontane
n-Hexatriacontane	n-Triacontane

5 mL @ 200 µg/mL in Pentane

Catalog#: NJDEP-EPH-ALMS

Aromatics Calibration Standard

18 Certified Components:

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

1 mL @ 2000 µg/mL in Methylene Chloride

Catalog#: NJDEP-EPH-ARCS

Aromatics Fraction Check Mix

16 Certified Components:

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

5 mL @ 400 µg/mL in Hexane:Toluene

Catalog#: NJDEP-EPH-ARFS

Aromatics Matrix Spike Mix

18 Certified Components:

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

5 mL @ 200 µg/mL in Acetone:Toluene

Catalog#: NJDEP-EPH-ARMS

EPH Fractionation Surrogate Spike Mix

2 Certified Components:

2-Bromonaphthalene	2-Fluorobiphenyl
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1 mL @ 4000 µg/mL in Hexane

Catalog#: NJDEP-EPH-FSS

EPH Surrogate Spike Mix

2 Certified Components:

1-Chlorooctadecane	o-Terphenyl
--------------------	-------------

1 mL @ 4000 µg/mL in Acetone

Catalog#: NJDEP-EPH-SS

Biodiesel Standards Designed for ASTM D6584 & EN14105

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, as well as Glyceride and FAME impurity standards 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 each 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.

Glyceride Impurity Standards for Biodiesel

Component	Concentration (µg/mL)	Matrix	Volume (mL)	Catalog#
1,3-Diolein	50	Pyridine	1	BD-3509
Glycerol	5			
Monolein	100			
Triolein	50			
1,3-Diolein	100	Pyridine	1	BD-3510
Glycerol	15			
Monolein	250			
Triolein	100			
1,3-Diolein	200	Pyridine	1	BD-3511
Glycerol	25			
Monolein	500			
Triolein	200			
1,3-Diolein	350	Pyridine	1	BD-3512
Glycerol	35			
Monolein	750			
Triolein	350			
1,3-Diolein	500	Pyridine	1	BD-3513
Glycerol	50			
Monolein	1,000			
Triolein	500			
(S)-1,2,4-Butanetriol	1,000	Pyridine	5	BD-3514
Tricaprin	1,000	Pyridine	5	BD-3515
N-trimethylsilyl-N-methyl trifluoroacetamide (MSTFA)	Neat	N/A	5	NEAT-4419
Kit contains one each of BD-3509 through BD-3515				BD-3508

Fatty Acids Methyl Esters (FAME)

Component	Concentration (µg/mL)	Matrix	Volume (mL)	Catalog#
Methyl Caproate	1,000	Methanol	1	S-4220
Methyl Heptanoate	1,000	Methanol	1	S-4648
Methyl Caprylate	1,000	Methanol	1	S-4649
Methyl Nonanoate	1,000	Methanol	1	S-4650
Methyl Caprate	1,000	Methanol	1	S-4217
Methyl Undecanoate	1,000	Methanol	1	S-4651
Methyl Laurate	1,000	Methanol	1	S-4652
Methyl Tridecanoate	1,000	Methanol	1	S-4653
Methyl Myristate	1,000	Methanol	1	S-4654
Methyl Pentadecanoate	1,000	Methanol	1	S-4655
Methyl Palmitate	1,000	Methanol	1	S-4656
Methyl Heptadecanoate	1,000	Methanol	1	S-4657
Methyl Stearate	1,000	Methanol	1	S-4658
Methyl Nonadecanoate	1,000	Methanol	1	S-4659
Methyl Arachidate	1,000	Methanol	1	S-4660
Methyl Heneicosanoate	1,000	Methanol	1	S-4661
Methyl Behenate	1,000	Methanol	1	S-4662
Methyl Tricosanoate	1,000	Methanol	1	S-4663
Methyl Lignocerate	1,000	Methanol	1	S-4664

ASTM

ASTM is an international organization that is a recognized leader in the development of testing, material and method standards and specifications. ASTM methods are used worldwide to standardize industrial processes, materials and methods to enhance product quality and safety. There are a wide range of methods applicable to many fields of analytical chemistry from the composition of an inorganic metal alloy test method and specification to analytical methods for measuring hazardous organic compounds in children's toys.

SPEX CertiPrep's ASTM products are designed to work within the specifications and methods of their corresponding test methods allowing for ease of use and assuring accuracy within the testing process.

ASTM Method D2887 Standard

20 Certified Components:

n-Decane	n-Octacosane
n-Dodecane	n-Octadecane
n-Dotriacontane	n-Octane
n-Eicosane	n-Pentadecane
n-Heptadecane	n-Pentane
n-Heptane	n-Tetracontane
n-Hexadecane	n-Tetracosane
n-Hexane	n-Tetradecane
n-Hexatriacontane	n-Tetratetracontane
n-Nonane	n-Undecane

1 mL @ 1%wt/wt in Carbon Disulfide

Catalog#: ASTM-D2887

ASTM Method D3710 Standard

16 Certified Components:

	Concentration (%wt/wt)
n-Butylbenzene	3.5
n-Decane	3.5
2,4-Dimethylpentane	5.8
n-Dodecane	3.5
n-Heptane	10.5
n-Hexane	5.8
2-Methylbutane	10.5
2-Methylpentane	5.8
n-Octane	5.8
n-Pentadecane	2.3
n-Pentane	8.1
n-Propylbenzene	14
n-Tetradecane	2.3
Toluene	11.6
n-Tridecane	2.3
p-Xylene	14

1 mL Neat

Catalog#: ASTM-D3710

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 facility, SPEX CertiPrep is accredited by A2LA as complying with the requirements of ISO/IEC 17025 and ISO/IEC Guide 34. Our scope is the **most comprehensive** in the industry.



ASTM Method D6160 Aroclor Singles

	Concentration	Matrix	Catalog#
Aroclor 1016	200 µg/mL	Hexane	PCB-1016
	1,000 µg/mL	Hexane	PCB-1016H
	1,000 µg/mL	Methanol	S-310
Aroclor 1221	200 µg/mL	Hexane	PCB-1221
	1,000 µg/mL	Hexane	PCB-1221H
	1,000 µg/mL	Methanol	S-315
Aroclor 1232	200 µg/mL	Hexane	PCB-1232
	1,000 µg/mL	Hexane	PCB-1232H
	1,000 µg/mL	Methanol	S-317
Aroclor 1242	200 µg/mL	Hexane	PCB-1242
	1,000 µg/mL	Hexane	PCB-1242H
	1,000 µg/mL	Methanol	S-325
Aroclor 1248	200 µg/mL	Hexane	PCB-1248
	1,000 µg/mL	Hexane	PCB-1248H
	1,000 µg/mL	Methanol	S-330
Aroclor 1254	200 µg/mL	Hexane	PCB-1254
	1,000 µg/mL	Hexane	PCB-1254H
	1,000 µg/mL	Methanol	S-335
	1,000 µg/mL	Isooctane	S-335-ISOOCT
Aroclor 1260	200 µg/mL	Hexane	PCB-1260
	1,000 µg/mL	Hexane	PCB-1260H
	1,000 µg/mL	Methanol	S-340
	1,000 µg/mL	Isooctane	S-340-ISOOCT
Aroclor 1262	200 µg/mL	Hexane	PCB-1262
	1,000 µg/mL	Hexane	PCB-1262H
	1,000 µg/mL	Hexane	S-345
Aroclor 1268	200 µg/mL	Hexane	PCB-1268
	1,000 µg/mL	Hexane	PCB-1268H
	1,000 µg/mL	Hexane	S-350

ASTM Method D6296 Standards

11 Certified Components:

	Concentration (%wt/wt)
n-Decane	5
1-Decene	1
n-Dodecane	1
Ethyl-tert-Butyl ether	5
1-Heptene	1
1-Hexene	1
1-Nonene	1
Octene-1	1
1-Pentene	1
2,2,4-Trimethylpentane	86
n-Undecane	1

1 mL Neat

Catalog#: ASTM-D6296-E

Alternate ASTM Method D6296 Standards

10 Certified Components:

	Concentration (%wt/wt)
1-Decene	1
n-Dodecane	1
1-Heptene	1
1-Hexene	1
Methyl-tert-butyl ether	5
1-Nonene	1
Octene-1	1
1-Pentene	1
2,2,4-Trimethylpentane	87
n-Undecane	1

1 mL Neat

Catalog#: ASTM-D6296-M

ASTM Method D6379 Standard

3 Certified Components:

	Concentration (mg/mL)
Cyclohexane	50
1-Methylnaphthalene	50
o-Xylene	150

1 mL in Heptane

Catalog#: ASTM-D6379

ASTM Method D6042 Standard

7 Certified Components:

BHT	Irganox 1076
Erucylamide	Irganox 3114
Irgafos 168	Vitamin E
Irganox 1010	

1 mL @ 50 ug/mL in Isopropanol

Catalog#: ASTM-D6042

ASTM Method D6042 Internal Standard

1 Certified Component:

Tinuvin P

1 mL @ 51.8 ug/mL in Isopropanol

Catalog#: ASTM-D6042-IS

UOP Methods

UOP or Universal Oil Products Methods are analytical methods and procedures used to analyze process streams and feedstocks within the petroleum industry. There are several hundred UOP methods in publication in conjunction with methods by ASTM, and the American Petroleum Institute (API). Methods are devoted to all aspects of the petroleum process in industry.

SPEX CertiPrep offers our customers chemical standards for use in the analytical and chemically based UOP methods. Our standards can be used for the testing of a wide range of petrochemicals under the guidance of the UOP methods from aromatics to xylene. Our standards are suitable for a wide range of analytical techniques including: GC and GC-MS.

UOP Method 543 Standard

2 Certified Components:

	Concentration (%wt/wt)
n-Dodecane	70
Toluene	30

1 mL Neat

Catalog#: UOP-543

UOP Method 551 Standard

7 Certified Components:

	Concentration (%wt/wt)
Benzene	14
Ethylbenzene	14
n-Hexane	14
Toluene	14
m-Xylene	14
o-Xylene	14
p-Xylene	14

1 mL Neat

Catalog#: UOP-551

UOP Method 690 Standard

7 Certified Components:

	Concentration (%wt/wt)
Benzene	14
Ethylbenzene	14
n-Octane	14
Toluene	14
m-Xylene	14
o-Xylene	14
p-Xylene	14

1 mL Neat

Catalog#: UOP-690

UOP Method 720 Standard

5 Certified Components:

	Concentration (%wt/wt)
Ethylbenzene	0.1
n-Undecane	1
m-Xylene	0.1
o-Xylene	0.1
p-Xylene	98.7

1 mL Neat

Catalog#: UOP-720

UOP Method 744 Standard

8 Certified Components:

	Concentration (%wt/wt)
Benzene	15
2-Ethyltoluene	10
n-Heptane	25
1,2,3,4-Tetramethylbenzene	10
Toluene	20
m-Xylene	6.7
o-Xylene	6.6
p-Xylene	6.7

1 mL Neat

Catalog#: UOP-744

UOP Method 868 Standard

10 Certified Components:

Cyclohexane	Methylcyclohexane
n-Decane	n-Nonane
Ethylcyclohexane	n-Octane
n-Heptane	N-Butylcyclohexane
n-Hexane	N-Propylcyclohexane

1 mL @ 500 ug/g in Toluene

Catalog#: UOP-868

UOP Method 931 Standard

5 Certified Components:

	Concentration (%wt/wt)
Benzene	2
2-Ethyltoluene	2
n-Heptane	92
Toluene	2
n-Undecane	2

1 mL Neat

Catalog#: UOP-931

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SECTION 8

QC Samples



QC Samples

The end-product of most analytical laboratories is data. It is therefore imperative that the quality of the data produced meet or exceed performance criteria. The implementation of quality control processes helps control error and estimate uncertainty. Quality control can be a tool in method development, regulatory processes, laboratory training and performance monitoring. QC samples can help an analytical laboratory determine its precision, accuracy, linear range and method ruggedness. QC samples allow the laboratories to fulfil documentation requirements as well as correct errors in a root cause analysis of a possible failure. Finally, QC samples monitor the effectiveness of the laboratory analysts to produce accurate data.

SPEX CertiPrep proudly partners with ERA to offer Quality Control Samples. All of ERA's QC samples have been tested in-house with the USEPA, NIST, NELAC and ISO protocols to ensure accuracy, homogeneity and stability.



Ready-to-Use Wastewater

Whole-Volume CRMs QC

The following whole-volume standards are ready to use as provided and require no dilution before analysis. These QC standards are guaranteed stable for a minimum of one month after receipt at your facility.

Oil & Grease

Oil & Grease 20-200 mg/bottle

One 250 mL whole-volume bottle is ready to analyze with EPA hexane extraction method 1664. Certified values are provided for IR and gravimetric methods.

Catalog#: 504

Solids (Available monthly)

Total solids at 105°C 140-800 mg/L

Total dissolved solids at 180°C 140-800 mg/L

Non-filterable residue (TSS) 20-100 mg/L

pH 5-10 units

One 500 mL whole-volume bottle is ready to analyze.

Catalog#: 499

Demand

5-day BOD 18-230 mg/L

Carbonaceous BOD 18-230 mg/L

COD 30-250 mg/L

TOC 6-100 mg/L

One 500 mL whole-volume bottle is ready to analyze.

Catalog#: 743

Simple Nutrients

Ammonia as N 1-20 mg/L

Nitrate as N 2-25 mg/L

Nitrate plus nitrite as N 2-25 mg/L

Orthophosphate as P 0.5-5.5 mg/L

One 500 mL whole-volume bottle is ready to analyze.

Catalog#: 739

Complex Nutrients

Total Kjeldahl-nitrogen as N 3-35 mg/L

Total phosphorus as P 0.5-10 mg/L

One 500 mL whole-volume bottle is ready to analyze.

Catalog#: 741



Water Pollution

Volatiles

Volatiles

Acetone	1,3-Dichloropropane
Acetonitrile	1,2-Dichloropropane
Acrolein	2,2-Dichloropropane
Acrylonitrile	cis-1,3-Dichloropropene
Benzene	1,1-Dichloropropene
Bromobenzene	trans-1,3-Dichloropropene
Bromochloromethane	Ethylbenzene
Bromodichloromethane	Hexachlorobutadiene
Bromoform	Hexachloroethane
Bromomethane	2-Hexanone
2-Butanone (MEK)	Isopropylbenzene
n-Butylbenzene	p-Isopropyltoluene
sec-Butylbenzene	Methyl tert-butyl ether (MTBE)
tert-Butylbenzene	4-Methyl-2-pentanone (MIBK)
Carbon disulfide	Methylene chloride
Ethylbenzene	Naphthalene
Chlorobenzene	Nitrobenzene
Chlorodibromomethane	n-Propylbenzene
Chloroethane	Styrene
2-Chloroethyl vinyl ether	1,1,1,2-Tetrachloroethane
Chloroform	1,1,2,2-Tetrachloroethane
Chloromethane	Tetrachloroethene
2-chlorotoluene	Toluene
4-chlorotoluene	1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane	1,2,4-Trichlorobenzene
(DBCP)	1,1,1-Trichloroethane
1,2-Dibromoethane (EDB)	1,1,2-Trichloroethane
Dibromomethane	Trichloroethene
1,2-Dichlorobenzene	Trichlorofluoromethane
1,3-Dichlorobenzene	1,2,3-Trichloropropane
1,4-Dichlorobenzene	1,2,4-Trimethylbenzene
Dichlorodifluoromethane	1,3,5-Trimethylbenzene
1,1-Dichloroethane	Vinyl acetate
1,2-Dichloroethane	Vinyl chloride
cis-1,2-Dichloroethene	m&p Xylene
1,1-Dichloroethene	o-Xylene
trans-1,2-Dichloroethene	Xylenes, total

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 601, 602, 8021, 624 and 8260. Contains a subset of the EPA/NELAC analytes in the required range 5-300 µg/L.

Catalog#: 710

Volatile Aromatics

1,2-Dichlorobenzene	Ethylbenzene
1,3-Dichlorobenzene	Toluene
1,4-Dichlorobenzene	Total Xylenes
Benzene	

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 602 and 8021.

Each standard contains all listed analytes at 5-300 µg/L after dilution.

Catalog#: 4452

BTEX & MTBE in Water

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 602 and 8021.

Includes all BTEX compounds and MTBE at 5-300 µg/L after dilution.

Catalog#: 760

Gasoline Range Organics (GRO) in Water

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with both purge & trap and modified EPA 8015 GC-FID methods to test for GRO at 400-4,000 µg/L. Also use to test for BTEX in gasoline.

Catalog#: 762

Herbicides

Chlorinated Acid Herbicides

Acifluorfen	Dichlorprop
Bentazon	Dinoseb
Chloramben	MCPA
2,4-D	MCPP
2,4-DB	4-Nitrophenol
Dacthal diacid (DCPA)	Pentachlorophenol
Dalapon	Picloram
Dicamba	2,4,5-T
3,5-Dichlorobenzoic acid	2,4,5-TP (Silvex)

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 615 and 8151.

Contains a subset of the analytes listed (above) at 2-10 µg/L (Except MCPA and MCPP at 10-100 µg/L).

Note: 4-nitrophenol and pentachlorophenol are not within the EPA/NELAC range.

Use the Acids standard for these compounds in the EPA/NELAC range.

Catalog#: 718

PCBs

PCBs in Water

Aroclor 1016	Aroclor 1248
Aroclor 1221	Aroclor 1254
Aroclor 1232	Aroclor 1260
Aroclor 1242	

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 608 and 8082.

Contains a different Aroclor, randomly selected from the list above at 2-10 µg/L.

Catalog#: 734S

PCBs in Oil

Aroclor 1016	Aroclor 1242
Aroclor 1254	Aroclor 1260

One 10 mL flame-sealed ampule is ready to analyze.

Use with EPA method 8082.

Contains a different Aroclor, randomly selected from the NELAC list, in the EPA/NELAC required range 12-50 mg/kg.

Catalog#: 729S



Semivolatiles

Base/Neutrals

Acenaphthene	Dimethyl phthalate
Acenaphthylene	Di-n-butylphthalate
2-Amino-1-methylbenzene (o-Toluidine)	2,4-Dinitrotoluene
Aniline	2,6-Dinitrotoluene
Anthracene	Di-n-octylphthalate Benzidine
Benzo(a)anthracene	bis(2-Ethylhexyl)phthalate
Benzo(b)fluoranthene	Fluoranthene
Benzo(k)fluoranthene	Fluorene
Benzo(g,h,i)perylene	Hexachlorobenzene
Benzo(a)pyrene	Hexachlorobutadiene
Benzyl alcohol	Hexachlorocyclo-pentadiene
4-Bromophenyl-phenylether	Hexachloroethane
Butylbenzylphthalate	Indeno(1,2,3-cd)pyrene
Carbazole	Isophorone
4-Chloroaniline	2-Methylnaphthalene
bis(2-Chloroethoxy)methane	Naphthalene
bis(2-Chloroethyl)ether	2-Nitroaniline
bis(2-Chloroisopropyl)ether	3-Nitroaniline
1-Chloronaphthalene	4-Nitroaniline
2-Chloronaphthalene	Nitrobenzene
4-Chlorophenyl-phenylether	N-Nitrosodiethylamine
Chrysene	N-Nitrosodimethylamine
Dibenz(a,h)anthracene	N-Nitroso-di-n-propylamine
Dibenzofuran	N-Nitrosodiphenylamine
1,2-Dichlorobenzene	Pentachlorobenzene
1,3-Dichlorobenzene	Phenanthrene
1,4-Dichlorobenzene	Pyrene
3,3'-Dichlorobenzidine	Pyridine
Diethyl phthalate	1,2,4,5-Tetrachlorobenzene
	1,2,4-Trichlorobenzene

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 625 and 8270.

Contains a subset of the analytes in the required range 10-225 µg/L (except Benzidine at 200-1,000 µg/L).

Catalog#: 711

Acids

Benzoic Acid	3&4-Methylphenol
4-Chloro-3-methylphenol	2-Nitrophenol
2-Chlorophenol	4-Nitrophenol
2,4-Dichlorophenol	Pentachlorophenol
2,6-Dichlorophenol	Phenol
2,4-Dimethylphenol	2,3,4,6-Tetrachlorophenol
2,4-Dinitrophenol	2,4,5-Trichlorophenol
2-Methyl-4,6-dinitrophenol	2,4,6-Trichlorophenol
2-Methylphenol	

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 604, 625, 8041 and 8270

Contains a subset of the analytes listed at 30-200 µg/L.

Catalog#: 712

Diesel Range Organics (DRO) in Water

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with modified EPA 8015 GC/FID methods.

Includes #2 Diesel in the EPA/NELAC required range 800-6,000 µg/L.

Catalog#: 764

Low-Level Nitroaromatics & Nitramines

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

One 2 mL flame-sealed ampule yields up to 2 liters of sample after dilution.

Use with EPA methods 8330 and 8091 for explosive and explosive residue analytes.

Contains at least 80% of the EPA/NELAC analytes, randomly selected from the list above, in the required range 1-20 µg/L.

Catalog#: 677

Low-Level PAHs

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

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA HPLC methods 610 and 8310 and GC-MS method 8270 SIM.

Contains at least 80% of the EPA/NELAC analytes, randomly selected from the list above, in the required range 0.5-20 µg/L.

Catalog#: 715

PAHs - GC-GCMS

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(k)fluoranthene	Phenanthrene
Benzo(g,h,i)perylene	Pyrene

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 625, 8100 and 8270.

Each standard contains a subset of the analytes listed at 10-200 µg/L.

Catalog#: 4882

Pesticides**Organochlorine Pesticides**

Aldrin	Dieldrin
alpha-BHC	Endosulfan I
beta-BHC	Endosulfan II
delta-BHC	Endosulfan sulfate
gamma-BHC (Lindane)	Endrin
alpha-Chlordane	Endrin aldehyde
gamma-Chlordane	Endrin ketone
4,4'-DDD	Heptachlor
4,4'-DDE	Heptachlor epoxide (beta)
4,4'-DDT	Methoxychlor

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 608 and 8081.

Contains a subset of the analytes listed at 1-20 µg/L.

Catalog#: 713

Chlorodane

One 2 mL flame-sealed ampule yields up to 2 liters of sample after dilution.

Use with EPA methods 608 and 8081.

Contains technical chlordane in the EPA/NELAC required range 3-25 µg/L.

Catalog#: 716

Toxaphene

One 2 mL flame-sealed ampule yields up to 2 liters of sample after dilution.

Use with EPA methods 608 and 8081.

Contains toxaphene in the EPA/NELAC at required range 20-100 µg/L.

Catalog#: 717

Carbamate Pesticides

Aldicarb	Diuron
Aldicarb sulfone	3-Hydroxycarbofuran
Aldicarb sulfoxide	Methiocarb
Baygon	Methomyl
Carbaryl	Oxamyl (vydate)
Carbofuran	Propham

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA method 632 for carbamates at 5-200 µg/L.

Contains a subset of the analytes 5-200 µg/L.

Catalog#: 908

Nitrogen Pesticides

Alachlor	Hexazinon
Ametryn	Metolachlor
Anilazine	Metribuzin
Atraton	Napropamide
Atrazine	Prometon
Bromacil	Prometryn
Butachlor	Pronamide
Butylate	Propachlor
Cyanazine	Propazine
Deethyl atrazine	Simazine
Deisopropyl atrazine	Terbacil
Diaminoatrazine	Trifluralin
EPTC (Eptam)	

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 619, 633, 8141 and 8270 for pesticides at 2-20 µg/L.

Contains a subset of the analytes from the list above at 2-20 µg/L.

Catalog#: 674

Organophosphorus Pesticides (OPP)

Azinphos-methyl (Guthion)	Ethyl Parathion (Parathion)
Carbophenothion	Famphur
Chlorpyrifos	Fonofos
Demeton O & S	Malathion
Diazinon	Methyl parathion
Dichlorvos (DDVP)	Phorate
Dimethoate	Phosmet
Dioxathion	Ronnel
Disulfoton	Stiropfos (tetrachlorovinphos)
Ethion	Terbufos
Ethoprop	

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 614, 622 and 8141.

Contains a subset of the analytes in the required range 2-20 µg/L.

Catalog#: 665



QC Plus Standards

ERA's QC Plus program includes environmental analytes at concentrations that reflect realistic levels of pollutants in an industrial setting. Each sample level is designed for wastewater and industrial analysis. These QC samples are an asset to any quality assurance program because they enable you to test your internal systems to ensure that your equipment, methods, and analysts are producing quality data.

QC Plus - Demand

Biochemical Oxygen Demand

(BOD) 100-300 mg/L

Carbonaceous BOD 87.0-256 mg/L

Chemical Oxygen Demand

(COD) 150-500 mg/L

Total Organic Carbon

(TOC) 50.0-200 mg/L

One screw-cap vial yields up to 1 liter after dilution.

Catalog#: 4013

QC Plus - Hexavalent Chromium

Chromium, Hexavalent 100-1,000 µg/L

One screw-cap vial yields up to 2 liters after dilution.

Catalog#: 4183

QC Plus - Nutrients

Ammonia Nitrogen as N 0.250-10.0 mg/L

Nitrate Nitrogen as N 0.250-10.0 mg/L

Orthophosphate as P 0.0500-10.0 mg/L

Total Kjeldahl Nitrogen 0.250-10.0 mg/L

Total Phosphorus as P 0.100-10.0 mg/L

Two screw-cap vials yield up to 2 liters each after dilution.

Catalog#: 4023

QC Plus - Oil & Grease

Oil & Grease 10.0-100 mg/L

One screw-cap vial yields up to 2 liters after dilution.

Catalog#: 4123

QC Plus - pH

pH 2.00-12.0 Units

One 250 mL whole-volume bottle is ready to analyze.

Catalog#: 4063

QC Plus - Fluoride

Fluoride 5-20 mg/L

One screw-cap vial yields up to 2 liters after dilution.

Catalog#: 4423

QC Plus - Solids

Total Dissolved Solids at 180°C 500-2,000 mg/L

Total Solids 600-2,500 mg/L

Total Suspended Solids 100-500 mg/L

One screw-cap vial yields up to 1 liter after dilution.

Catalog#: 4033

QC Plus - Total Cyanide

Total Cyanide 1.00-5.00 mg/L

One screw-cap vial yields up to 2 liters after dilution.

Catalog#: 4093

QC Plus - Total Phenolics

Total Phenolics (4-AAP) 0.0500-0.500 mg/L

One screw-cap vial yields up to 2 liters after dilution.

Catalog#: 4083

QC Plus - Total Residual Chlorine

Total Residual Chlorine 0.100-1.00 mg/L

One screw-cap vial yields up to 2 liters of solution after dilution.

Catalog#: #4103

Disinfection By-Products

Chloral Hydrate

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA method 551.

Includes chloral hydrate in the EPA/NELAC required range, 4-30 µg/L.

Catalog#: 676

Haloacetic Acids (HAA)

Bromochloroacetic Acid	Monobromoacetic Acid
Dibromoacetic Acid	Monochloroacetic Acid
Dichloroacetic Acid	Trichloroacetic Acid

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA method 552.

Includes all the analytes above in the EPA/NELAC required range, 5-50 µg/L.

Catalog#: 684

Volatile Organics

Gasoline Additives

tert-Amylmethylether (TAME)

tert-Butyl Alcohol

Di-isopropylether (DIPE)

Ethyl tert-butyl ether (ETBE)

Methyl tert-butyl ether (MTBE)

Trichlorofluoromethane (Freon® 11)

Trichlorotrifluoroethane (Freon® 113)

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA method 524.2 for gasoline additives/oxygenates.

Contains all of the analytes above, 5-50 µg/L.

Catalog#: 909

Halomethanes (THMs)

Bromodichloromethane

Chlorodibromomethane

Bromoform

Chloroform

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 502.2, 524.2 and 551.

Contains all of the analytes above in the required range, 5-50 µg/L.

Catalog#: 702

Regulated Volatiles

Benzene

Methylene Chloride

Carbon tetrachloride

Styrene

Chlorobenzene

Tetrachloroethylene

1,2-Dichlorobenzene

Toluene

1,4-Dichlorobenzene

1,2,4-Trichlorobenzene

1,2-Dichloroethane

1,1,1-Trichloroethane

1,1-Dichloroethylene

1,1,2-Trichloroethane

cis-1,2-Dichloroethylene

Trichloroethylene

trans-1,2-Dichloroethylene

Vinyl Chloride

1,2-Dichloropropane

Xylenes, total

Ethylbenzene

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 502.2 and 524.2.

Contains all of the analytes above in the EPA/NELAC required range, 2-50 µg/L.

Catalog#: 703

Unregulated Volatiles

Bromobenzene	1,1-Dichloropropene
Bromochloromethane	cis-1,3-Dichloropropene
Bromomethane	trans-1,3 Dichloropropene
n-Butylbenzene	Fluorotrichloromethane
sec-Butylbenzene	Hexachlorobutadiene
tert-Butylbenzene	Isopropylbenzene
Chloroethane	4-Isopropyltoluene
Chloromethane (MTBE)	Methyl tert-butyl ether
2-Chlorotoluene	Naphthalene
4-Chlorotoluene	n-Propylbenzene
Dibromomethane	1,1,1,2-Tetrachloroethane
1,3-Dichlorobenzene	1,1,2,2-Tetrachloroethane
Dichlorodifluoromethane	1,2,3-Trichlorobenzene
1,1-Dichloroethane	1,2,3-Trichloropropane
1,3-Dichloropropane	1,2,4-Trimethylbenzene
2,2-Dichloropropane	1,3,5-Trimethylbenzene

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 502.2 and 524.2.

Contains at least 60% of the analytes randomly selected from the list above in the EPA/NELAC required range, 2-50 µg/L.

Catalog#: 683

Pesticides**Pesticides**

Alachlor	Hexachlorocyclopentadiene
Aldrin	Lindane (gamma-BHC)
Atrazine	Methoxychlor
Bromacil	Metolachlor
Butachlor	Metribuzin
Diazinon	Molinate (Ordram)
Dieldrin	Prometon
Endrin	Propachlor
Heptachlor	Simazine
Heptachlor Epoxide (beta)	Thiobencarb
Hexachlorobenzene	Trifluralin

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 505, 507, 508 and 525 for organochlorine, nitrogen and organophosphorus pesticides.

Each standard contains at least 14 analytes randomly selected from the list above in the required range 0.2-20 µg/L.

Catalog#: 709

Carbamate/Carbamoxylxime Pesticides

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

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 531.1, 531.2 and 632.

Each standard contains atleast 8 analytes above in the EPA/NELAC required range 15-150 µg/L.

Catalog#: 707

Chlorodane

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 505, 508 and 525.

Each standard contains technical chlordane in the EPA/NELAC required range 2-20 µg/L.

Catalog#: 705

Toxaphene

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 505, 508 and 525.

Each standard contains toxaphene in the EPA/NELAC required range 2-20 µg/L.

Catalog#: 700

EDB/DBCP/TCP

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

Ethylene Dibromide (EDB)

1,2,3-Trichloropropane (1,2,3-TCP)

One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution.

Use with EPA methods 504 and 551.

Each lot contains all analytes above in the EPA/NELAC required range 0.05-2 µg/L.

Catalog#: 706

Semivolatile Organics

Dioxin

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 613, 1613, 8280 and 8290

Each standard contains 2,3,7,8-TCDD in the EPA/NELAC required range 20-100 µg/L.

Catalog#: 663

PCBs as Decachlorobiphenyl

Aroclor 1016

Aroclor 1248

Aroclor 1221

Aroclor 1254

Aroclor 1232

Aroclor 1260

Aroclor 1242

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA quantitative method 508A.

This standard can also be used for Aroclor identification and quantification using EPA methods 505, 508, and 508.1.

Includes an Aroclor randomly selected from the list above in the EPA/NELAC required range 0.5-5 µg/L.

Catalog#: 708

Semivolatiles #1

Acenaphthene

Diethylphthalate

Acenaphthylene

Dimethylphthalate

Anthracene

Di-n-octylphthalate

Benzo(a)anthracene

bis(2-Ethylhexyl)adipate

Benzo(b)fluoranthene

bis(2-Ethylhexyl)

Benzo(k)fluoranthene

phthalate

Benzo(g,h,i)perylene

Fluoranthene

Benzo(a)pyrene

Fluorene

Butylbenzylphthalate

Indeno(1,2,3-cd)pyrene

Chrysene

Naphthalene

Dibenz(a,h)anthracene

Phenanthrene

Di-n-butylphthalate

Pyrene

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 506, 525 and 550 for PAHs, phthalates and adipates.

Each standard contains Benzo(a)pyrene, Bis(2-ethylhexyl)adipate, Bis(2-ethylhexyl)phthalate plus at least 13 of the analytes randomly selected from the list above in the EPA/NELAC required range 0.2-50 µg/L.

Catalog#: 690

Herbicides

Chlorinated Acid Herbicides

Acifluorfen	3,5-Dichlorobenzoic acid
Bentazon	Dichlorprop
Chloramben	Dinoseb
2,4-D	4-Nitrophenol
2,4-DB	Pentachlorophenol
Dacthal diacid (DCPA)	Picloram
Dalapon	2,4,5-T
Dicamba	2,4,5-TP (Silvex)

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 515.1, 515.2, 515.3, 515.4 and 555.

Includes at least 10 of the analytes above in the EPA/NELAC required range 1-120 µg/L.

Catalog#: 704

Semivolatiles #2 Herbicides

Diquat	Glyphosate
Endothall	Paraquat

One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Use with EPA methods 547, 548, and 549.

Each standard contains all the analytes above in the EPA/NELAC required range 8-800 µg/L.

Catalog#: 691



UCMR 2 Organics

UCMR 2 Pesticides and Flame Retardants in Water

Dimethoate
2,2',4,4',5-Pentabromodiphenyl ether (BDE-99)
2,2',4,4',6-Pentabromodiphenyl ether (BDE-100)
2,2',4,4',5,5'-Hexabromobiphenyl (245-HBB)
2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)
Terbufos sulfone
2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)

One 2 mL flame-sealed ampule yields in excess of 2 liters after dilution.

Use with EPA method 527.

Each standard contains all analytes above at 0.5-10 µg/L after dilution.

Catalog#: 151

UCMR 2 Nitrosamines in Water

N-Nitrosodiethylamine (NDEA)
N-Nitrosodimethylamine (NDMA)
N-Nitrosodi-n-butylamine (NDBA)
N-Nitrosodi-n-propylamine (NDPA)
N-Nitrosomethylethylamine (NMEA)
N-Nitrosopyrrolidine (NPYR)

One 2 mL flame-sealed ampule yields in excess of 2 liters after dilution.

Use with EPA method 521.

Each standard contains all analytes above at 5-100 ng/L after dilution.

Catalog#: 153

UCMR 2 Explosives in Water

1,3-Dinitrobenzene
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
2,4,6-Trinitrotoluene (TNT)

One 2 mL flame-sealed ampule yields in excess of 2 liters after dilution.

Use with EPA method 529.

Each standard contains all analytes above at 1-15 µg/L after dilution.

Catalog#: 152

UCMR 2 Chlorinated Pesticides in Water

Acetochlor
Alachlor
Metolachlor

One 2 mL flame-sealed ampule yields in excess of 2 liters after dilution.

Use with EPA method 525.2.

Each standard contains all analytes above at 1-20 µg/L after dilution.

Catalog#: 154

UCMR 2 Herbicide Degradates in Water

Acetochlor ethane sulfonic acid (ESA)
Acetochlor oxanilic acid (OA)
Alachlor ethane sulfonic acid (ESA)
Alachlor oxanilic acid (OA)
Metolachlor ethane sulfonic acid (ESA)
Metolachlor oxanilic acid (OA)

One 2 mL flame-sealed ampule yields in excess of 2 liters after dilution.

Use with EPA method 535.

Each standard contains all analytes above at 1-20 µg/L after dilution.

Catalog#: 155



International Standards



Your Science is Our Passion.®

International Standards

SPEX CertiPrep offers standards for global applications. Around the world, analytical labs are required to meet their countries requirements for environmental and safety testing. SPEX CertiPrep prides itself as being a standards provider for the international market.

Over the years our customers have asked for more catalog parts with global applications. We have responded to their requests and now have a selection of the most commonly requested standards to address the testing regulations in the international community.

QuEChERS Kits

Meeting all of your QuEChERS needs with general purpose kits for EN Method 15662 suitable for removal of polar organic acids, some low to moderate levels of sugars and lipids.

QuEChERS Citrate Buffered Extraction Tubes (15 mL - 50 Pack)

Contents:

4 g MgSO_4
1 g NaCl, 0.5 g sodium citrate dibasic sesquihydrate
1 g sodium citrate tribasic dihydrate
(Kit includes 50 empty 50mL tubes)

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

Catalog#: EN-CIT-50ML

QuEChERS PSA Dispersive SPE Clean-Up Tubes (15 mL - 50 Pack)

Contents:

150 mg PSA
900 mg MgSO_4

Catalog#: EN-PSA-15ML

QuEChERS PSA Dispersive SPE Clean-Up Tubes (2 mL - 100 Pack)

Contents:

25 mg PSA
150 mg MgSO_4

Catalog#: EN-PSA-2ML

Netherlands

PCB Congeners Mix for NEN 5734 Dutch 7

Components:

2,2',3,4,4',5,5'-Heptachlorobiphenyl	CAS#: 35065-29-3
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6
2,4,4'-Trichlorobiphenyl	7012-37-5

Volume: 1mL in Isooctane

Concentration: 10 $\mu\text{g/mL}$

Method: NEN-5734, EPA 8082

Catalog#: PCB-DUTCH7



Spain

4-Component Organic Standard

1 mL Ampule:

	CAS#:
Aldrin	309-00-2
Dieldrin	60-57-1
Heptachlor	76-44-8
Heptachlor-2, 3-exo-epoxide	1024-57-3

Concentration: 1 µg/mL in Methanol

Catalog#: 140-2003-C

7-Component Organic Standard

1 mL Ampule:

	CAS#:
Bromodichloromethane	75-27-4
Bromoform	75-25-2
Chloroform	67-66-3
Dibromochloromethane	124-48-1
Trichloroethene	79-01-6
Tetrachloroethene	127-18-4
1,2-Dichloroethene	107-06-2

Concentration: 1 µg/mL in Methanol

Catalog#: 140-2003-D

2-Component Organic Standard

1 mL Ampule:

	CAS#:
Benzene	71-43-2
Benzo(a)pyrene	50-32-8

Concentration: 1 µg/mL in Methanol

Catalog#: 140-2003-E

4-Component Organic Standard

1 mL Ampule:

	CAS#:
Benzo(b)fluoranthene	205-99-2
Benzo(g,h,i)perylene	191-24-2
Benzo(k)fluoranthene	207-08-9
Indeno(1,2,3-c,d)pyrene	193-39-5

Concentration: 1 µg/mL in Methanol

Catalog#: 140-2003-F

Brazil

The Safety and testing of water supplies in the world is of critical importance in many countries. In Brazil, the Brazilian national Environmental Council (Conselho Nacional do Meio Ambiente; "CONAMA") is responsible for the monitoring of wastewater and effluent discharges under Resolution 430. Resolution 430 implements a new testing and monitoring standard for environmental testing laboratories. Drinking water regulations in Brazil are governed by Portaria 2.914 which is the regulation that provides for the control and monitoring procedures of the quality of water intended for human consumption.

2-Component Organic Standard

Components:

	CAS#:
2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7
2,4,5-Trichlorophenoxy acetic acid	93-76-5

Concentration: 1000 µg/mL in Acetone

Catalog#: POR-2914-A

16-Component Organic Standard

1 mL Ampule:

	CAS#:
Alachlor	15972-60-8
Aldrin	309-00-2
alpha-BHC	319-84-6
beta-BHC	319-85-7
delta-BHC	319-86-8
gamma-BHC	58-89-9
alpha-Chlordane	5103-71-9
gamma-Chlordane	5103-74-2
Dieldrin	60-57-1
p,p'-DDT	50-29-3
p,p'-DDD	72-54-8
p,p'-DDE	72-55-9
Endosulfan I	959-98-8
Endosulfan II	33213-65-9
Endosulfan sulfate	1031-07-8
Endrin	72-20-8

Concentration: 1000 µg/mL in Acetone

Catalog#: POR-2914-B

21-Component Organic Standard**1 mL Ampule:****CAS#:**

Aldicarb	116-06-3
Aldicarb sulfone	1646-88-4
Aldicarb sulfoxide	1646-87-3
Atrazine	1912-24-9
Benomyl	17804-35-2
Carbendazim	10605-21-7
Carbofuran	1563-66-2
Chlorpyrifos	2921-88-2
Chlorpyrifos Oxon	5598-15-2
Diuron	330-54-1
Folicur	107534-96-3
Methamidophos	10265-92-6
Methyl parathion	298-00-0
Metolachlor	51218-45-2
Molinate	2212-67-1
Permethrin (t=53%; c=46%)	52645-53-1
Profenofos	41198-08-7
Prowl (Pendimethalin)	40487-42-1
Simazine	122-34-9
Terbufos	13071-79-9
Trifluralin	1582-09-8

Concentration: 100 µg/mL in Acetone:Methanol**Catalog#:** POR-2914-C**9-Component Organic Standard****1 mL Ampule:****CAS#:**

Bromoacetic acid	79-08-3
Bromochloroacetic acid	5589-96-8
Bromodichloroacetic acid	71133-14-7
Chloroacetic acid	79-11-8
Dalapon	75-99-0
Dibromoacetic acid	631-64-1
Dichloroacetic acid	79-43-6
Tribromoacetic acid	75-96-7
Trichloroacetic acid	76-03-9

Concentration: 1000 µg/mL in MTBE**Catalog#:** POR-2914-D**18-Component Organic Standard****1 mL Ampule:****CAS#:**

Acrylamide	79-06-1
Benzene	71-43-2
Benzo(a)pyrene	50-32-8
Carbon tetrachloride	56-23-5
1,2-Dichloroethane	107-06-2
1,1-Dichloroethene	75-35-4
cis-1,2-Dichloroethene	156-59-2
trans-1,2-Dichloroethene	156-60-5
bis(2-Ethylhexyl)phthalate	117-81-7
Methylene chloride	75-09-2
Pentachlorophenol	87-86-5
Styrene	100-42-5
Tetrachloroethene	127-18-4
1,2,4-Trichlorobenzene	120-82-1
1,3,5-Trichlorobenzene	108-70-3
1,2,3-Trichlorobenzene	87-61-6
Trichloroethene	79-01-6
Vinyl chloride	75-01-4

Concentration: 1000 µg/mL in Methanol**Catalog#:** POR-2914-E**2-Component Organic Standard****1 mL Ampule:****CAS#:**

Aminomethyl phosphonic acid	1066-51-9
Glyphosate	1071-83-6

Concentration: 1000 µg/mL in DI Water**Catalog#:** POR-2914-F

19-Component Organic Standard

1 mL Ampule:

	CAS#:
Alachlor	15972-60-8
Aldrin	309-00-2
alpha-Chlordane	5103-71-9
Dieldrin	60-57-1
Endosulfan I	959-98-8
Endosulfan II	33213-65-9
Endosulfan sulfate	1031-07-8
Endrin	72-20-8
gamma-BHC	58-89-9
gamma-Chlordane	5103-74-2
Heptachlor	76-44-8
Heptachlor epoxide (Isomer B)	1024-57-3
Methoxychlor	72-43-5
Metolachlor	51218-45-2
p,p'-DDD	72-54-8
p,p'-DDE	72-55-9
p,p'-DDT	50-29-3
Toxaphene	8001-35-2
Trifluralin	1582-09-8

Concentration: 2000 µg/mL in Benzene

Catalog#: CON-430-A

3-Component Organic Standard

1 mL Ampule:

	CAS#:
Carbaryl	63-25-2
Demeton O+S	8065-48-3
Malathion	121-75-5

Concentration: 2000 µg/mL in Methylene Chloride

Catalog#: CON-430-B

Trihalomethanes

1 mL Ampule:

	CAS#:
Bromodichloromethane	75-27-4
Bromoform	75-25-2
Chloroform	67-66-3
Dibromochloromethane	124-48-1

Concentration: 200 µg/mL in Methanol

Catalog#: THM-X

BTEX Standard

1 mL Ampule:

	CAS#:
Benzene	71-43-2
Ethylbenzene	100-41-4
Toluene	108-88-3
m-Xylene	108-38-3
o-Xylene	95-47-6
p-Xylene	106-42-3

Concentration: 200 µg/mL in Methanol

Catalog#: BTEX

PAH Analyte Mix in Acetonitrile

Component	Concentration	CAS#
Acenaphthene	1000 µg/mL	83-32-9
Acenaphthylene	1000 µg/mL	208-96-8
Anthracene	50 µg/mL	120-12-7
Benz(a)anthracene	1 µg/mL	56-55-3
Benzo(b)fluoranthene	1 µg/mL	205-99-2
Benzo(k)fluoranthene	1 µg/mL	207-08-9
Benzo(a)pyrene	5 µg/mL	50-32-8
Benzo(g,h,i)perylene	5 µg/mL	191-24-2
Chrysene	50 µg/mL	218-01-9
Dibenz(a,h)anthracene	10 µg/mL	53-70-3
Fluoranthene	5 µg/mL	206-44-0
Fluorene	100 µg/mL	86-73-7
Indeno(1,2,3-c,d)pyrene	10 µg/mL	193-39-5
Naphthalene	1000 µg/mL	91-20-3
Phenanthrene	50 µg/mL	85-01-8
Pyrene	50 µg/mL	129-00-0

Catalog#: 550-A

Aroclor Mix 1

1 mL Ampule:

	CAS#:
Aroclor 1016	12674-11-2
Aroclor 1232	11141-16-5
Aroclor 1248	12672-29-6
Aroclor 1260	11096-82-5

Concentration: 200 µg/mL in Hexane

Catalog#: PCB-M1

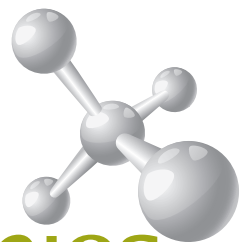
Aroclor Mix 2

1 mL Ampule:

	CAS#:
Aroclor 1221	11104-28-2
Aroclor 1242	53469-21-9
Aroclor 1254	11097-69-1

Concentration: 200 µg/mL in Hexane

Catalog#: PCB-M2



SPEXOrganics

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Organic

Part # Index

151	181	764	173	5152-I	119	550-I	75
152	181	908	174	5154-A	123	5511-A	56
153	181	909	177	5242-CH	52, 54, 63	5511-I	56
154	181	4013	176	5242-DH	52, 54, 63	5511-PC	57
155	181	4023	176	5242-F	55	5511-PH	56
499	170	4033	176	5242-I	56	5521-A	75
504	170	4063	176	5242-R4	55	5522-A	76
663	179	4083	176	5242-R4200	55	5522-AS	76
665	175	4093	176	5242-S	56	5522-MEO	76
674	175	4103	176	5242-VCX	52, 54, 62, 64	5522-MEOS	76
676	177	4123	176	5242-VCX-200	52, 54, 62, 64	552-A	75
677	173	4183	176	5242-VCX-200G	54	552-MEO	77
683	178	4423	176	5243-A	53	601-A	57
684	177	4452	171	5243-G	53	601-I	57
690	179	4882	174	5243-I	56	602-I	58, 62
691	180	140-2003-C	185	5243-S	56	603-X	58, 60
700	179	140-2003-D	185	5243-VCM	55	603-XM	58
702	177	140-2003-E	185	5252-A	73	605-X	77, 89, 97
703	177	140-2003-F	185	5252-E	73	605-X5	77, 89, 97
704	180	5022-B	50, 52, 54, 57, 63, 67	5252-FS	74	606-XH	78, 82
705	178	5022-BH	50, 52, 54, 57, 63, 67	5252-I	74	608-A	121
706	179	5022-I	51, 62	5252-PA	73	60-BIG-MIX	51, 63
707	178	5041-AH	53	5252-PB	73	60-BIG-MIX-200	51, 54, 63
708	179	504-AH	53, 60	5252-PC	73	60-BIG-MIX-2000	51, 54, 63
709	178	505-A2	114	5252-PCS	74	612-X	78, 86
710	171	505-K1	119	5252-PD	73	6141-KIT	122
711	173	506-AH	72	5252-S	74	614-SK	122
712	173	507-A	115	5253-A	72	624-A	59
713	174	507-B	115	5253-PCB	72	624-B	59
715	174	507-I	115	5253-S	74	624-BH	59
716	174	507-PC	116	5311-A10	119	624-C	59
717	174	5081-A	117	5312-A	119	624-CH	59
718	172	5081-B	117	531-I	119	624-D	59
739	170	5081-DC	118	531-PCS	119	624-DH	59
741	170	5081-PC	118	535-A	74	624-I	59
743	170	5081-S	117	535-I	74	624-S	59
760	171	508-A	116	535-S	74	625-E	80
762	171	508-DC	121	547-A	120	625-F	80
		508-I	119	5481-A	120	625-PH	80, 90, 124
		5151-A	128	5481-IS	120	625-T2	82
		5151-AR	118	5481-MEO	120	729S	172
		5151-SA	119	548-A	120	734S	172
		5151-SME	119	548-APFPH	120	76-BIG-MIX	79, 86, 96
				548-IS	120	8015B-A	60
				5491-A	121	8015B-B	60
				550-A	75, 187	8015B-I	61

8015-OX.....60	8310-A.....94	CLPP-MS91.....131	59, 63, 68
8020-A.....62	8310-I.....94	CLPP-MS91H.....131	CLPV-BH.....67
8021B-S.....62	8310-QCM.....94	CLPP-PEM.....130	CLPV-D90H.....68
8021B-XA.....62	ANILINE-LC-A.....98	CLPP-S90.....129, 131	CLPV-DH.....68
8021B-XB.....62	AOAC-ACE-50ML.....149	CLPP-S91.....131	CLPV-MH.....65, 68
8040-B.....84	AOAC-PSA-15ML.....149	CLPP-SS90-25.....131	CLPV-SH.....65, 68
8041-A.....82	AOAC-PSA-2ML.....149	CLPS-A.....79, 82, 89, 97	CLPV-SOM2.....66
8041-I.....84	ASTM-D2887.....164	CLPS-B.....80, 86, 89, 97	CLPV-TH.....55, 65, 68
8060-I.....82	ASTM-D3710.....164	CLPS-C.....80, 89, 97	CNVA.....66, 69
8060-QC.....82	ASTM-D6042.....165	CLPS-D.....80, 89, 97	CON-430-A.....187
8060-S.....82	ASTM-D6042-IS.....165	CLPS-E.....98	CON-430-B.....187
8082-C.....125	ASTM-D6296-E.....165	CLPS-F90.....98	CP1500-1590.....152
8082-I.....131	ASTM-D6296-M.....165	CLPS-G.....80, 89, 98	CP1500-1595.....152
8082-IC.....130	ASTM-D6379.....165	CLPS-I.....82, 93, 99	CP1590.....152
8100-B.....86	BD-3508.....162	CLPS-I2.....82, 93, 99	CP1595.....152
8100-S.....86	BD-3509.....162	CLPS-I90.....82, 99	CP2183.....152
8121-B.....86	BD-3510.....162	CLPS-LC-ALCS.....98	CP2184.....152
8121-I.....86	BD-3511.....162	CLPS-LC-BN.....98	CP2185.....152
8121-S.....127	BD-3512.....162	CLPS-MSA.....82, 92, 95, 100	CRM-PE001.....146
8140-A.....127	BD-3513.....162	CLPS-MSA5.....82, 93, 95, 100	CRM-PE002.....146
8140-AH.....127	BD-3514.....162	CLPS-MSB.....82, 93, 100	CRM-PEBLK.....146
8141-AB.....127	BD-3515.....162	CLPS-MSB-TI.....82, 93, 100	CRM-PVC001.....147
8141-D.....117	BIG-BN-2.....79, 88, 100	CLPS-SA.....82, 93, 99	CRM-PVCBLK.....147
8141-S.....132	BIG-BN-2-5.....79, 188, 100	CLPS-SA5.....82, 93, 99	DBC-X.....135
8151-A.....128	BTEX.....58, 156, 187	CLPS-SAH.....82, 99	DCBP-XH.....92, 114, 116, 120
8240-25.....65	BTEX-100H.....156	CLPS-SAH5.....99	DIESEL-I.....160
8260A-I.....65	BTEX-2-1H.....58	CLPS-SB.....81, 84, 93, 99	DRO-1000.....61, 157
8260A-S.....65	BTEX-H.....58, 156	CLPS-SB5.....81, 84, 93	ENC-EVEN-1K.....158
8260-BIG-MIX.....64	C1001-09.....147	CLPS-SBH.....81, 84, 99	EN-CIT-50ML.....149, 184
8260-E.....66	C11-18.....158	CLPS-SBH5.....81, 84, 99	ENC-ODD-1K.....158
8260-EH.....66	CDANE-X.....73, 80, 92, 114, 116, 121, 124, 130, 132	CLPS-SBH-TI.....82, 99	EN-PSA-15ML.....149, 184
8260-I.....65	CDANE-XH.....73, 80	CLPS-SOM2A.....95	EN-PSA-2ML.....149, 184
8260-KET.....65	CLP90-75SA.....99	CLPS-SOM2B.....95	FLO-CAL.....131
8260-S.....65	CLP90-75SA5.....99	CLPS-SOM-ISA.....95	GPC-CAL-91.....131
8270-AF-B.....90	CLP90-SA.....98	CLPS-SOM-ISB.....95	GPC-CAL-93.....131
8270-AF-C.....91	CLP90-SA5.....98	CLPS-SOM-MSB.....95	GRO-1000.....61, 156
8270-AF-F.....91	CLP90-SB.....99	CLPS-SURR.....100	GRO-EPA.....156
8270-AF-I.....91	CLP90-SB5.....99	CLPS-T.....82, 93, 100, 120	GRO-EPA-2.....157
8270-AF-L.....91	CLP90-SBH.....99	CLPS-T4.....82, 93, 100	HICAL-ACIDS.....89, 97
8270-AF-M.....91	CLP90-SBH5.....99	CLPV-041X.....68	HICAL-ACIDS-5.....89, 97
8270-CCB.....93	CLP90-SURR.....100	CLPV-32CH.....67	HICAL-VOC.....52, 54
8270-IXA.....90	CLP90-SURR-TI.....100	CLPV-43CH.....67	LC-DC-1.....108
8270-IXB.....90	CLPP-A90.....129	CLPV-A.....50, 52, 54, 59, 63, 68	LC-DC-2.....108
8270-IXC.....90	CLPP-B90.....130	CLPV-AH.....50, 52, 54,	LCPR-1-A.....108, 136
8270-IXJ.....90	CLPP-C.....129		LCPR-2-A.....108, 136
8270-N.....91			LCPR-3-A.....108, 136

LCPR-4-A	109, 137	115, 117, 122, 130, 165	S-1065	125	S-1565	87	
LCPR-5-A	109, 137	PCB-1268	81, 92, 114,	S-1067	129	S-1575	148
LCPR-6-A	109, 137	115, 117, 122, 130, 165	S-1100	131	S-1590	148	
LCPR-7-A	109, 137	PCB-1268H	81, 92, 114,	S-1103	56, 82	S-1594	152
LCPR-8-A	110, 138	115, 117, 122, 130, 165	S-1112	157	S-1595	148	
LCPR-9-A	110, 138	PCB-200K	126	S-1140	124	S-160	87
LCPR-10-A	110, 138	PCB-DUTCH7	184	S-1155	125	S-1659	82
LCPR-11-KIT	110, 138	PCB-KH	84, 119, 126, 130	S-1160	87	S-1661	82, 87
NEAT-4419	162	PCB-M1	81, 92, 114, 187	S-1175	124	S-1662	82
NJDEP-EPH-ALCS	161	PCB-M2	81, 92, 114, 187	S-1186	148	S-1664	82
NJDEP-EPH-ALFC	161	P-GAS	58, 156	S-1200	87	S-1705	87
NJDEP-EPH-ALMS	161	POR-2914-A	185	S-1228	82	S-1745	87
NJDEP-EPH-ARCS	161	POR-2914-B	185	S-1250	82, 119, 129	S-1755	124
NJDEP-EPH-ARFS	161	POR-2914-C	186	S-1251	84	S-1770	148
NJDEP-EPH-ARMS	161	POR-2914-D	186	S-1255	87, 125	S-1775	148
NJDEP-EPH-FSS	161	POR-2914-E	186	S-125-W1.8	69, 147	S-1790	157
NJDEP-EPH-SS	161	POR-2914-F	186	S-1275	87, 125	S-1795	157
PA-BTEX-H	156	PROALK6-44	158	S-1276	125	S-1809	157
PCB-1016	81, 92, 114,	PROALK6-44-H	158	S-130	87	S-1810	157
115, 117, 122, 130, 165		QuECR-3765	150	S-1310	56	S-1820	157
PCB-1016H	81, 92, 114,	QuECR-4381	150	S-133	141	S-185	125
115, 117, 122, 130, 165		QuECR-5190	150	S-133-W10K	141	S-1860	61
PCB-1221	81, 92, 114,	QuECR-AOAC-IS	151	S-1365	51, 59, 61	S-1865	124
115, 117, 122, 130, 165		QuECR-AOAC-QC	151	S-1370	69	S-1870	127
PCB-1221H	81, 92, 114,	QuECR-AOAC-TTP	150	S-1385	59	S-1880	157
115, 117, 122, 130, 165		QuECR-ECD-IS	151	S-1405	69	S-1885	141
PCB-1232	81, 92, 114,	QuECR-LC-MS-IS	151	S-1406	82	S-1885-W2K	141
115, 117, 122, 130, 165		QuECR-MS-IS	151	S-1412	82	S-1905	122
PCB-1232H	81, 92, 114,	QuECR-MS-QC-1	151	S-1416	82	S-1924	59
115, 117, 122, 130, 165		QuECR-MS-QC-2	151	S-1417	82	S-1941	59
PCB-1242	81, 92, 114,	QuECR-NPD-MS-IS	151	S-1420	129	S-1960	66
115, 117, 122, 130, 165		QuECR-PCB-138	150	S-1470	69	S-1970	148
PCB-1242H	81, 92, 114,	QuECR-PCB-153	150	S-1475	87, 124	S-1983	141
115, 117, 122, 130, 165		QuECR-PCB-18	150	S-1476	69	S-1985	141
PCB-1248	81, 92, 114,	QuECR-PCB-28	150	S-1477	69	S-1995	127
115, 117, 122, 130, 165		QuECR-PCB-52	150	S-1479	69	S-2000	124
PCB-1248H	81, 92, 114,	S-0226	87	S-1480	69	S-2005	124
115, 117, 122, 130, 165		S-030W-1000	159	S-150	87	S-2010	124
PCB-1254	81, 92, 114,	S-030W-20K	159	S-1515	148	S-2040	51
115, 117, 122, 130, 165		S-0406	59	S-1520	87	S-2045	87
PCB-1260	81, 92, 114,	S-040W-1000	159	S-1530	87	S-2047	82
115, 117, 122, 130, 165		S-040W-20K	159	S-1540	56	S-2050	87, 90, 141
PCB-1260H	81, 92, 114,	S-050W-1000	159	S-1542	82	S-2085	124
115, 117, 122, 130, 165		S-050W-20K	159	S-1553	148	S-2090	157
PCB-1262	81, 92, 114,	S-0941	87	S-1559	148	S-2095	157
115, 117, 122, 130, 165		S-1029	87	S-1560	124	S-210	61
PCB-1262H	81, 92, 114,						

S-211	160	S-2775	157	S-3295	87	S-3702	61
S-2115	157	S-2780	157	S-330	165	S-3715	87, 125
S-2120	157	S-2785	157	S-3305	124	S-3718	87
S-2125	157	S-2845	157	S-3315	87, 124	S-3740	87
S-2140	125	S-285	87	S-3330	123	S-375	87
S-215	123	S-2850	157	S-3335	123	S-3760	87
S-2150	125	S-2870	157	S-335	165	S-3765	128
S-2160	87	S-2886	157	S-335-ISOOCT	165	S-3773	87
S-2166	157	S-291	82	S-3360	125	S-3775	157
S-2170	157	S-2913	61	S-340	165	S-3780	157
S-2175	157	S-2920	124	S-3405	141	S-3785	87
S-2185	87	S-2925	127	S-340-ISOOCT	165	S-379	127
S-2190	157	S-2930	141	S-3420	131	S-3800	66, 68
S-220	87	S-2945	125	S-3425	87, 124	S-3895	76
S-2210	157	S-2950	141	S-3430	157	S-3899	87
S-2235	122	S-2953	157	S-3435	157	S-3937	82
S-2242	87	S-2955	157	S-3440	157	S-3979	82
S-2285	125	S-2960	157	S-345	165	S-3980	82
S-2335	125	S-2975	157	S-3455	87, 124	S-4005	129
S-2340	87	S-2990	157	S-3480	157	S-4047	82
S-2345	87	S-3000	125	S-3485	161	S-4048	82
S-2355	124	S-3002	125	S-3495	87	S-4144	84
S-2357	87	S-3020	82	S-350	165	S-4150	86, 148
S-2369	87	S-3035	141	S-3530	87	S-4151	86, 148
S-2379	157	S-305	87	S-3535	73, 80, 91, 114, 116, 121, 124, 130, 132	S-4152	82, 148
S-2385	132	S-3065	87	S-3540	157	S-4153	86, 148
S-240	87	S-3070	87	S-3550	127	S-4154	86, 148
S-2415	87	S-3071	127	S-3552	86	S-4155	86, 148
S-2420	87	S-3080	124	S-3555	141	S-4155-H	148
S-2445	124	S-310	165	S-3560	128	S-4156	85, 148
S-2598	76	S-3100	87	S-3565	124	S-4157	86, 148
S-260	61	S-3116	87	S-3570	124	S-4158	86, 148
S-2625	124	S-3130	123	S-3586	141	S-4168	141
S-2635	87, 125	S-3140	125	S-360	123	S-4183	141
S-2640	127	S-3145	157	S-3617	69	S-4195-MC	82
S-2645	124	S-315	165	S-3620	69	S-420	87
S-2650	87, 127	S-317	165	S-3625	82	S-4200	125
S-2660	82	S-3170	123	S-3630	82	S-4202	74
S-2680	87	S-3180	127	S-3635	82	S-4217	163
S-2685	87	S-3185	124	S-3645	141	S-4220	163
S-2710	82	S-3223	127	S-365	123	S-4308	82
S-2715	87	S-3225	124	S-3665	76	S-4309	141
S-2720	87, 125	S-325	165	S-3675	69	S-4335	142
S-2728	82	S-3250	87	S-3685	157	S-4335-100	142
S-275	87	S-3280	123	S-3690	157	S-4336-100	142
S-2770	125	S-3285	123			S-4336-20	141

S-4336-46.....	142	S-575	87	S-MS-20K	159	USP-S1380-DMSO	145
S-4360	125	S-580	51	S-PG-1000	159	USP-S1390-DMSO	145
S-4374	131	S-590	128	S-PG-20K	159	USP-S1394-DMSO	145
S-4448	148	S-5941	87	S-RG-1000	159	USP-S1400-DMSO	145
S-4449	148	S-605	157	S-RG-20K	159	USP-S145-DMSO	145
S-4459	61	S-609	142	SV-041	97	USP-S1572-DMSO	145
S-4464	152	S-6109	148	SV-X	89, 97	USP-S1597-DMSO	145
S-4491	148	S-660	127	SV-X5	89, 97	USP-S1715-DMSO	145
S-4550	82, 148	S-680-MECL.....	148	S-WDF-25.....	159	USP-S1910-DMSO	145
S-4648	163	S-715	125	S-WDF-50.....	159	USP-S1940-DMSO	145
S-4649	163	S-755	87, 125	S-WDF-75.....	159	USP-S1952-DMSO	145
S-465	61	S-770	125	S-WG-25.....	159	USP-S2062-DMSO	145
S-4650	163	S-775	125	S-WG-50.....	159	USP-S2380-DMSO	145
S-4651	163	S-780	73, 80, 92, 114, 116, 121, 124, 130, 132	S-WG-75.....	159	USP-S2480-DMSO	145
S-4652	163	S-785	87	S-WK-25	159	USP-S2590-DMSO	145
S-4653	163	S-790	125	S-WK-50	159	USP-S2722-DMSO	145
S-4654	163	S-815	56	S-WK-75	159	USP-S3240-DMSO	145
S-4655	163	S-820	125	TCLP-BNA	101	USP-S3460-DMSO	145
S-4656	163	S-840	69	TCLP-H.....	132	USP-S3464-DMSO	145
S-4657	163	S-847	61	TCLP-H-MEO	132	USP-S3505-DMSO	145
S-4658	163	S-855	61, 66, 68	TCLP-P	132	USP-S3605-DMSO	145
S-4659	163	S-855-2K.....	66	TCLP-PNC	132	USP-S3615-DMSO	145
S-4660	163	S-877	61	TCLP-V	69	USP-S3830-DMSO	145
S-4661	163	S-893	160	TCLP-VA	69	USP-S3835-DMSO	145
S-4662	163	S-901	82	TCLP-VX	69	USP-S3840-DMSO	145
S-4663	163	S-905	142	THM-X	51, 187	USP-S405-DMSO	145
S-4664	163	S-906	82	THM-XH	51	USP-S750-DMSO	145
S-4759	82	S-907	87	TOX-X.....	73, 80, 91, 114, 116, 121, 124, 130, 132	USP-S810-DMSO	145
S-4927	148	S-915	125	TOX-XH	80	USP-S865-DMSO	145
S-4928	148	S-930	61, 66	TX-HC-18	158	USP-SOL-A.....	143
S-4929	148	S-930-2K.....	66	UCMR3	53	USP-SOL-B.....	143
S-4930	148	S-935	51	UOP-543.....	166	V53-524	64
S-4931	148	S-946	82	UOP-551.....	166	WINE-1.....	142
S-4932	148	S-947	128	UOP-690.....	166	WINE-2.....	142
S-4933	148	S-954	87	UOP-720.....	166	WINE-3.....	142
S-4937	148	S-958	69	UOP-744.....	166		
S-5005	142	S-965	124	UOP-868.....	166		
S-5104	148	S-980	124	UOP-931.....	166		
S-5148	84	S-DF2-1000	159	USP-RS-C1	144		
S-522	61	S-DF2-20K	159	USP-RS-C2A.....	144		
S-532	57	S-K-1000.....	159	USP-RS-C2B.....	144		
S-534	61	S-K-20K.....	159	USP-RS-C2C.....	144		
S-5459	148	SKINNER-AE.....	94	USP-RS-C3A.....	144		
S-550	55, 59, 65, 68	SKINNER-SV.....	94	USP-RS-C3B.....	144		
S-5701	148	S-MS-1000	159	USP-S1015-DMSO	145		
S-5738	148						