

Bulletin 945

Sigma-Aldrich Separate Source Standards Ease Audit Process

Separate Source™ standards are a critical issue for many auditors visiting today's environmental laboratories. Having an easy-to-use documentation system for Separate Source standards from a prime standards vendor, such as Sigma-Aldrich, can ease the audit process. Sigma-Aldrich's Supelco brand Separate Source standards are clearly labeled (Figure 1) and certified by our QC department as meeting or exceeding US Environmental Protection Agency (EPA) requirements for use alongside our Primary Standards (Figure 2). This gives the laboratory and auditors the necessary assurance your Separate Source protocols meet critical inspection.

The Separate Source standards are written into many contracts, specified in US EPA SW-846, and as part of the accreditation by The NELAC Institute (TNI). Separate Source standards are required verification or primary calibration standards. These standards are mandated to be sourced from a different vendor or from a different lot than that used for the daily verification standard. This covers a wide range of US Environmental Protection Agency (EPA) methods. Sigma-Aldrich Separate Source standards offer laboratories the convenience of dealing with a single vendor for obtaining separate standards, as well as eliminating the need to buy and inventory raw materials from which to prepare their own separate source standards.

Sigma-Aldrich Separate Source standards are pairs of product having identical composition, but are prepared from independently sourced raw materials, and are independently quality controlled. Our internal processes prevent the use of the same raw material lot for both the primary and secondary standards. This can be observed by comparing the raw material lot numbers on the Certificate of Analysis that accompanies each individual standard in the pair.

Our Separate Source standards include neat components, and single- and multi-component solutions. They are available for the US EPA drinking water, wastewaters, and solid waste methods. The standards are identified by the words "Separate Source" and SS in the product description and by the catalog number (4- and 4S-, 5 and 5S-, 8- and 8S-). For example, 5S02111 is the Separate Source standard for 502111.

As a convenience for our customers, Sigma-Aldrich's Custom Standards chemists can easily tailor a Separate Source standard and Primary standard pair to meet your exact specifications. We are also able to formulate a custom Separate Source standard to match your Primary Standard from a different vendor. For additional information, please contact our Technical Service department at techservice@sial.com.

To view a current list of ready-to-ship Supelco brand Separate source reference standards, please visit our web site sigma-aldrich.com/separate-source.

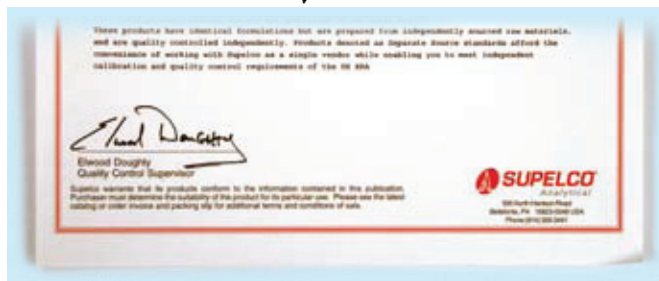
Figure 1. Clearly Labeled Separate Source Standards



E001058

Figure 2. Certified Separate Source Standards Meet or Exceed EPA Requirements

These products have identical formulations but are prepared from independently sourced raw materials and are quality controlled independently. Products denoted as Separate Source standards afford the convenience of working with Supelco as a single vendor while enabling you to meet independent calibration and quality control requirements of the US EPA.



E001059

Ordering Information:

Description	Concentration	Qty.	Cat. No.
Neat Compounds			
Acrolein		5 g	48501
		100 mg	4S8501
Acrylonitrile		1 g	48502
		100 mg	4S8502
Carbon disulfide		1 g	442200
		100 mg	4S42200
2-Chloroethyl vinyl ether		5 g	48516
		100 mg	4S8516
1-Chlorohexane		1 g	442258
		100 mg	4S42258
1,2-Dibromo-3-chloropropane		1 g	442223
		100 mg	4S42223
trans-1,4-Dichloro-2-butene		1 g	442814
		100 mg	4S42814
Vinyl acetate		1 g	48486
		100 mg	4S8486
Single Component Solutions			
Aroclor 1016 solution	1000 µg/mL in isooctane	1 mL	48097
		1 mL	4S8087
Aroclor 1221 solution	1000 µg/mL in isooctane	1 mL	48098
		1 mL	4S8098
Aroclor 1232 solution	1000 µg/mL in isooctane	1 mL	44805
		1 mL	4S4805
Aroclor 1242 solution	1000 µg/mL in isooctane	1 mL	44806
		1 mL	4S4806
Aroclor 1248 solution	1000 µg/mL in isooctane	1 mL	44807
		1 mL	4S4807
Aroclor 1254 solution	1000 µg/mL in isooctane	1 mL	44808
		1 mL	4S4808
Aroclor 1260 solution	1000 µg/mL in isooctane	1 mL	44809
		1 mL	4S4809
Aroclor 1262 solution	1000 µg/mL in isooctane	1 mL	44810
		1 mL	4S4810
Aroclor 1268 solution	1000 µg/mL in isooctane	1 mL	502146
		1 mL	5S02146
Freon 113	2000 µg/mL each component in methanol	1 mL	47944
		1 mL	4S7944
2-Chloroethylvinyl ether	2000 µg/mL each component in methanol	1 mL	861206
		1 mL	8S61206
Iodomethane	2000 µg/mL each component in methanol:water (80:20)	1 mL	506052
		1 mL	5S06052
N-Nitrosodiphenylamine	5000 µg/mL in methanol	1 mL	46702-U
		1 mL	4S6702-U
1,4-Phenylenediamine	2000 µg/mL in methylene chloride	1 mL	501069
		1 mL	5S01069

Description	Concentration	Qty.	Cat. No.	
EPA 500 Series				
EPA 501 Trihalomethanes Calibration Mix	200 µg/mL each component in methanol	1 mL	48746	
	<i>Bromodichloromethane</i>	<i>Chloroform</i>	1 mL	
	<i>Bromoform</i>	<i>Dibromochloromethane</i>		
EPA 502/524 Volatiles Organic Calibration Mix A (without gases)	2000 µg/mL each component in methanol	1 mL	502111	
	<i>Benzene</i>	<i>1,3-Dichloropropane</i>	1 mL	
	<i>Bromobenzene</i>	<i>2,2-Dichloropropane</i>		
	<i>Bromochloromethane</i>	<i>1,1-Dichloro-1-propene</i>		
	<i>Bromodichloromethane</i>	<i>cis-1,3-Dichloropropene</i>		
	<i>Bromoform</i>	<i>trans-1,3-Dichloropropene</i>		
	<i>Butylbenzene</i>	<i>Ethylbenzene</i>		
	<i>sec-Butylbenzene</i>	<i>Hexachloro-1,3-butadiene</i>		
	<i>tert-Butylbenzene</i>	<i>Isopropylbenzene</i>		
	<i>Carbon tetrachloride</i>	<i>p-Isopropyltoluene</i>		
	<i>Chlorobenzene</i>	<i>Naphthalene</i>		
	<i>Chloroform</i>	<i>Propylbenzene</i>		
	<i>2-Chlorotoluene</i>	<i>Styrene</i>		
	<i>4-Chlorotoluene</i>	<i>1,1,1,2-Tetrachloroethane</i>		
	<i>Dibromochloromethane</i>	<i>1,1,2,2-Tetrachloroethane</i>		
	<i>1,2-Dibromo-3-chloropropane</i>	<i>Tetrachloroethylene</i>		
	<i>1,2-Dibromoethane</i>	<i>Toluene</i>		
	<i>Dibromomethane</i>	<i>1,2,3-Trichlorobenzene</i>		
	<i>1,2-Dichlorobenzene</i>	<i>1,2,4-Trichlorobenzene</i>		
	<i>1,3-Dichlorobenzene</i>	<i>1,1,1-Trichloroethane</i>		
	<i>1,4-Dichlorobenzene</i>	<i>1,1,2-Trichloroethane</i>		
	<i>1,1-Dichloroethane</i>	<i>Trichloroethylene</i>		
	<i>1,2-Dichloroethane</i>	<i>1,2,3-Trichloropropane</i>		
	<i>1,1-Dichloroethylene</i>	<i>1,2,4-Trimethylbenzene</i>		
	<i>cis-1,2-Dichloroethylene</i>	<i>1,3,5-Trimethylbenzene</i>		
	<i>trans-1,2-Dichloroethylene</i>	<i>o-Xylene</i>		
	<i>Dichloromethane</i>	<i>m-Xylene</i>		
<i>1,2-Dichloropropane</i>	<i>p-Xylene</i>			
EPA 502/524 VOC Mix 1	2000 µg/mL each component in methanol	1 mL	48775	
	<i>sec-Butylbenzene</i>	<i>1,3-Dichlorobenzene</i>	1 mL	
	<i>tert-Butylbenzene</i>	<i>1,4-Dichlorobenzene</i>		
	<i>Chlorobenzene</i>	<i>Isopropylbenzene</i>		
	<i>2-Chlorotoluene</i>	<i>Propylbenzene</i>		
	<i>4-Chlorotoluene</i>	<i>o-Xylene</i>		
	<i>1,2-Dichlorobenzene</i>	<i>p-Xylene</i>		
EPA 502/524 VOC Mix 2	2000 µg/mL each component in methanol	1 mL	48777	
	<i>Benzene</i>	<i>Toluene</i>	1 mL	
	<i>Bromobenzene</i>	<i>1,2,3-Trichlorobenzene</i>		
	<i>Butylbenzene</i>	<i>1,2,4-Trichlorobenzene</i>		
	<i>Ethylbenzene</i>	<i>1,2,4-Trimethylbenzene</i>		
	<i>p-Isopropyltoluene</i>	<i>1,3,5-Trimethylbenzene</i>		
	<i>Naphthalene</i>	<i>m-Xylene</i>		
	<i>Styrene</i>			
	EPA 502/524 VOC Mix 3	2000 µg/mL each component in methanol	1 mL	48779
		<i>1,2-Dibromo-3-chloropropane</i>	<i>trans-1,3-Dichloropropene</i>	1 mL
<i>1,2-Dibromoethane</i>		<i>Hexachloro-1,3-butadiene</i>		
<i>1,2-Dichloroethane</i>		<i>1,1,1,2-Tetrachloroethane</i>		
<i>1,2-Dichloropropane</i>		<i>1,1,2,2-Tetrachloroethane</i>		
<i>1,3-Dichloropropane</i>		<i>1,1,2-Trichloroethane</i>		
<i>1,1-Dichloro-1-propene</i>		<i>Trichloroethylene</i>		
<i>cis-1,3-Dichloropropene</i>		<i>1,2,3-Trichloropropane</i>		
EPA 502/524 VOC Mix 4	2000 µg/mL each component in methanol	1 mL	48786	
	<i>Bromochloromethane</i>	<i>1,1-Dichloroethane</i>	1 mL	
	<i>Bromoform</i>	<i>2,2-Dichloropropane</i>		
	<i>Carbon tetrachloride</i>	<i>Tetrachloroethylene</i>		
	<i>Chloroform</i>	<i>1,1,1-Trichloroethane</i>		
	<i>Dibromomethane</i>			

Description	Concentration	Qty.	Cat. No.	
EPA 502/524 VOC Mix 5	2000 µg/mL each component in methanol	1 mL	48797	
	<i>Bromodichloromethane</i>	<i>cis-1,2-Dichloroethylene</i>	1 mL	4S8797
	<i>Dibromochloromethane</i> <i>1,1-Dichloroethylene</i>	<i>trans-1,2-Dichloroethylene</i> <i>Dichloromethane</i>		
EPA 502/524 VOC Mix 6	2000 µg/mL each component in methanol	1.5 mL	48799-U	
	<i>Bromomethane</i>	<i>Dichlorodifluoromethane</i>	1.5 mL	4S8799-U
	<i>Chloroethane</i> <i>Chloromethane</i>	<i>Trichlorofluoromethane</i> <i>Vinyl chloride</i>		
EPA 502/524 VOC Calibration Standards Kit	<i>EPA Volatile Organic Compounds Mix 1 (48775), 1 mL</i>	1 kit	48804	
	<i>EPA Volatile Organic Compounds Mix 2 (48777), 1 mL</i>	1 kit	4S8804	
	<i>EPA Volatile Organic Compounds Mix 3 (48779), 1 mL</i>			
	<i>EPA Volatile Organic Compounds Mix 4 (48786), 1 mL</i>			
	<i>EPA Volatile Organic Compounds Mix 5 (48797), 1 mL</i>			
	<i>EPA Volatile Organic Compounds Mix 6 (48799-U), 1.5 mL</i>			
EPA 502 VOC Mix 7	2000 µg/mL each component in methanol	1 mL	48802-U	
	<i>Benzene</i>	<i>1,4-Dichlorobenzene</i>	1 mL	4S8802
	<i>Bromodichloromethane</i>	<i>1,2-Dichloroethane</i>		
	<i>Bromoform</i>	<i>1,1-Dichloroethylene</i>		
	<i>Carbon tetrachloride</i>	<i>1,1,1-Trichloroethane</i>		
	<i>Chloroform</i> <i>Dibromochloromethane</i>	<i>Trichloroethylene</i> <i>Vinyl chloride</i>		
EPA 524.2 Rev 4 Update Ketones Mix	2000 µg/mL each component in methanol:water (9:1)	1 mL	47428-U	
	<i>Acetone</i>	<i>2-Hexanone</i>	1 mL	4S7428-U
	<i>2-Butanone</i>	<i>4-Methyl-2-pentanone</i>		
	<i>1,1-Dichloro-2-propanone</i>			
EPA 524.2 Add-On Mix	varied, in methanol	1 mL	861314	
	<i>Acrylonitrile, 20000 µg/mL</i>	<i>Hexachloroethane, 2000 µg/mL</i>	1 mL	8S61314
	<i>Allyl chloride, 2000 µg/mL</i>	<i>Methacrylonitrile, 2000 µg/mL</i>		
	<i>tert-Butylmethylether, 2000 µg/mL</i>	<i>Methyl acrylate, 2000 µg/mL</i>		
	<i>Carbon disulfide, 2000 µg/mL</i>	<i>Methyl methacrylate, 2000 µg/mL</i>		
	<i>Chloroacetonitrile, 20000 µg/mL</i>	<i>Nitrobenzene, 20000 µg/mL</i>		
	<i>1-Chlorobutane, 2000 µg/mL</i>	<i>2-Nitropropane, 20000 µg/mL</i>		
	<i>trans-1,4-Dichloro-2-butene, 2000 µg/mL</i>	<i>Pentachloroethane, 2000 µg/mL</i>		
	<i>Diethylether, 2000 µg/mL</i>	<i>Propionitrile, 20000 µg/mL</i>		
	<i>Ethyl methacrylate, 2000 µg/mL</i>	<i>Tetrahydrofuran, 2000 µg/mL</i>		
	EPA 600 Series			
	EPA 604 Phenols Mixture	varied, in methanol	1 mL	48859
		<i>4-Chloro-3-methylphenol, 2500 µg/mL</i>	<i>2-Nitrophenol, 500 µg/mL</i>	1 mL
<i>2-Chlorophenol, 500 µg/mL</i>		<i>4-Nitrophenol, 2500 µg/mL</i>		
<i>2,4-Dichlorophenol, 500 µg/mL</i>		<i>Pentachlorophenol, 2500 µg/mL</i>		
<i>2,4-Dimethylphenol, 500 µg/mL</i>		<i>Phenol, 500 µg/mL</i>		
<i>2,4-Dinitrophenol, 1500 µg/mL</i>		<i>2,4,6-Trichlorophenol, 1500 µg/mL</i>		
<i>2-Methyl-4,6-dinitrophenol, 2500 µg/mL</i>				
EPA 605 TLC Benzidines Mix	2000 µg/mL each component in methanol	1 mL	48906	
	<i>Benzidine</i>	<i>3,3'-Dichlorobenzidine</i>	1 mL	4S8906
EPA 606 Phthalate Esters Mix	2000 µg/mL each component in hexane	1 mL	48231	
	<i>Bis(2-ethylhexyl) phthalate</i>	<i>Di-n-octyl phthalate</i>	1 mL	4S8231
	<i>Benzyl butyl phthalate</i> <i>Dibutyl phthalate</i>	<i>Diethyl phthalate</i> <i>Dimethyl phthalate</i>		
EPA 610 Polynuclear Aromatic Hydrocarbons Mixture	varied, in methanol	1 mL	48743	
	<i>Acenaphthene, 1000 µg/mL</i>	<i>Chrysene, 100 µg/mL</i>	1 mL	4S8743
	<i>Acenaphthylene, 2000 µg/mL</i>	<i>Dibenz[a,h]anthracene, 200 µg/mL</i>		
	<i>Anthracene, 100 µg/mL</i>	<i>Fluoranthene, 200 µg/mL</i>		
	<i>Benz[a]anthracene, 100 µg/mL</i>	<i>Fluorene, 200 µg/mL</i>		
	<i>Benzo[b]fluoranthene, 200 µg/mL</i>	<i>Indeno[1,2,3-cd]pyrene, 100 µg/mL</i>		
	<i>Benzo[k]fluoranthene, 100 µg/mL</i>	<i>Naphthalene, 1000 µg/mL</i>		
	<i>Benzo[ghi]perylene, 200 µg/mL</i>	<i>Phenanthrene, 100 µg/mL</i>		
	<i>Benzo[a]pyrene, 100 µg/mL</i>	<i>Pyrene, 100 µg/mL</i>		

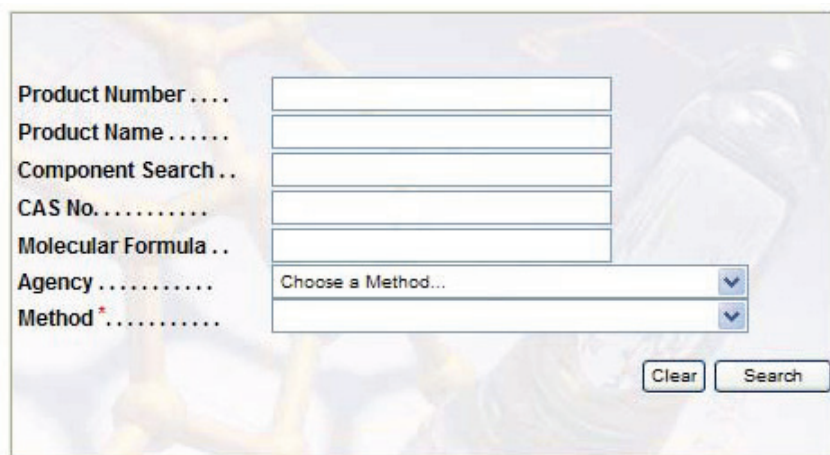
Description	Concentration	Qty.	Cat. No.	
TCL Base Neutral Mix 2	2000 µg/mL each component in methylene chloride	1 mL	48120-U	
	<i>Azobenzene</i>	<i>Hexachlorobenzene</i>	1 mL	458120
	<i>Carbazole</i>	<i>Hexachloro-1,3-butadiene</i>		
	<i>2-Chloronaphthalene</i>	<i>Hexachlorocyclopentadiene</i>		
	<i>1,2-Dichlorobenzene</i>	<i>Hexachloroethane</i>		
	<i>1,3-Dichlorobenzene</i>	<i>Isophorone</i>		
	<i>1,4-Dichlorobenzene</i>	<i>Nitrobenzene</i>		
	<i>2,4-Dinitrotoluene</i>	<i>1,2,4-Trichlorobenzene</i>		
<i>2,6-Dinitrotoluene</i>				
TCL Benzidines Mix	2000 µg/mL each component in methanol	1 mL	48906	
	<i>Benzidine</i>	<i>3,3'-Dichlorobenzidine</i>	1 mL	458906
TCL Hazardous Substances Mix 1	2000 µg/mL each component in methylene chloride	1 mL	48907	
	<i>Benzoic acid</i>	<i>o-Cresol</i>	1 mL	458907
	<i>p-Cresol</i>	<i>2,4,5-Trichlorophenol</i>		
TCL Hazardous Substances Mix 2	2000 µg/mL each component in methylene chloride	1 mL	48908	
	<i>Aniline</i>	<i>2-Methylnaphthalene</i>	1 mL	458908
	<i>Benzyl alcohol</i>	<i>2-Nitroaniline</i>		
	<i>4-Chloroaniline</i>	<i>3-Nitroaniline</i>		
	<i>Dibenzofuran</i>	<i>4-Nitroaniline</i>		
TCL Phenols Mix	2000 µg/mL each component in methylene chloride	1 mL	48904	
	<i>4-Chloro-3-methylphenol</i>	<i>2-Nitrophenol</i>	1 mL	458904
	<i>2-Chlorophenol</i>	<i>4-Nitrophenol</i>		
	<i>2,4-Dichlorophenol</i>	<i>Pentachlorophenol</i>		
	<i>2,4-Dimethylphenol</i>	<i>Phenol</i>		
	<i>2,4-Dinitrophenol</i>	<i>2,4,6-Trichlorophenol</i>		
	<i>2-Methyl-4,6-dinitrophenol</i>			
TCL Polynuclear Aromatic Hydrocarbons Mix	2000 µg/mL each component in methylene chloride:benzene (1:1)	1 mL	48905-U	
	<i>Acenaphthene</i>	<i>Chrysene</i>	1 mL	458905
	<i>Acenaphthylene</i>	<i>Dibenz[a,h]anthracene</i>		
	<i>Anthracene</i>	<i>Fluoranthene</i>		
	<i>Benz[a]anthracene</i>	<i>Fluorene</i>		
	<i>Benzo[b]fluoranthene</i>	<i>Indeno[1,2,3-cd]pyrene</i>		
	<i>Benzo[k]fluoranthene</i>	<i>Naphthalene</i>		
	<i>Benzo[ghi]perylene</i>	<i>Phenanthrene</i>		
	<i>Benzo[a]pyrene</i>	<i>Pyrene</i>		
EPA Semi-volatile Calibration Kit	7 ampuls, one each for the mixes listed	6 x 1 mL	48118	
	<i>EPA TCL Base/Neutrals Mix 1 (48900-U/458900)</i>		458118	
	<i>EPA TCL Base/Neutrals Mix 2 (48120-U/458120)</i>			
	<i>EPA TCL Benzidines Mix 1 mL (48906/458906)</i>			
	<i>EPA TCL Hazardous Substances Mix 1 (48907/458907)</i>			
	<i>EPA TCL Hazardous Substances Mix 2 (48908/458908)</i>			
	<i>EPA TCL Phenols Mix (48904/458904)</i>			
	<i>EPA TCL Polynuclear Aromatic Hydrocarbons Mix (48905-U/458905)</i>			
EPA 8240B/8260A Calibration Check Compounds	2000 µg/mL each component in methanol	1 mL	47385-U	
	<i>Chloroform</i>	<i>Ethylbenzene</i>	1 mL	457385
	<i>1,1-Dichloroethylene</i>	<i>Toluene</i>		
	<i>1,2-Dichloropropane</i>	<i>Vinylchloride</i>		
EPA 8260 Calibration Mix 2	2000 µg/mL each component in methanol:water (9:1)	1.5 mL	46831-U	
	<i>Acetone</i>	<i>2-Hexanone</i>	1.5 mL	456831-U
	<i>2-Butanone</i>	<i>Iodomethane</i>		
	<i>Carbon disulfide</i>	<i>4-Methyl-2-pentanone</i>		
	<i>2-Chloroethyl vinyl ether</i>	<i>Vinyl acetate</i>		
EPA 8260 TLC Volatiles Mix	2000 µg/mL each component in methanol:water (9:1)	1 mL	48949	
	<i>Acetone</i>	<i>2-Hexanone</i>	1 mL	458949
	<i>2-Butanone</i>	<i>4-Methyl-2-pentanone</i>		

Description	Concentration	Qty.	Cat. No.
EPA 8260 Calibration Mix 1	2000 µg/mL each component in methanol	1 mL	861339
	Benzene	1,2-Dichloropropane	1.5 mL
	Bromobenzene	1,3-Dichloropropane	
	Bromochloromethane	2,2-Dichloropropane	
	Bromodichloromethane	1,1-Dichloro-1-propene	
	Bromoform	cis-1,3-Dichloropropene	
	Butylbenzene	trans-1,3-Dichloropropene	
	sec-Butylbenzene	Ethylbenzene	
	tert-Butylbenzene	Hexachloro-1,3-butadiene	
	Carbontetrachloride	p-Cymene (4-isopropyltoluene)	
	Chlorobenzene	Naphthalene	
	Chloroform	Propylbenzene	
	2-Chlorotoluene	Styrene	
	4-Chlorotoluene	1,1,1,2-Tetrachloroethane	
	Cumene (isopropylbenzene)	1,1,2,2-Tetrachloroethane	
	Dibromochloromethane	Tetrachloroethylene	
	1,2-Dibromo-3-chloropropane	Toluene	
	1,2-Dibromoethane	1,2,3-Trichlorobenzene	
	Dibromomethane	1,2,4-Trichlorobenzene	
	1,2-Dichlorobenzene	1,1,1-Trichloroethane	
	1,3-Dichlorobenzene	1,1,2-Trichloroethane	
	1,4-Dichlorobenzene	Trichloroethylene	
	1,1-Dichloroethane	1,2,3-Trichloropropane	
	1,2-Dichloroethane	1,2,4-Trimethylbenzene	
1,1-Dichloroethylene	1,3,5-Trimethylbenzene		
cis-1,2-Dichloroethylene	o-Xylene		
trans-1,2-Dichloroethylene	m-Xylene		
Dichloromethane	p-Xylene		
EPA 8260 Calibration Mix 5	varied, in methanol:water (85:15)	1.5 mL	861298
	Acetonitrile, 10000 µg/mL	Heptane, 2000 µg/mL	1.5 mL
	Acrylonitrile, 10000 µg/mL	Methacrylonitrile, 2000 µg/mL	
	Allyl chloride, 2000 µg/mL	Methyl methacrylate, 2000 µg/mL	
	tert-Butanol, 40000 µg/mL	2-Methyl-1-propanol, 40000 µg/mL	
	tert-Butyl methyl ether, 2000 µg/mL	Nitrobenzene, 4000 µg/mL	
	Cyclohexanone, 40000 µg/mL	2-Nitropropane, 4000 µg/mL	
	trans-1,4-Dichloro-2-butene, 2000 µg/mL	Propionitrile, 10000 µg/mL	
	Diethyl ether, 2000 µg/mL	Tetrahydrofuran, 2000 µg/mL	
	1,4-Dioxane, 40000 µg/mL	1,1,2-Trichloro-1,2,2-trifluoroethane, 2000 µg/mL	
	Ethyl methacrylate, 2000 µg/mL		
EPA 8260 Mix 5	varied, in methanol:water (9:1)	1 mL	861323
	Acetone, 2000 µg/mL	Carbon disulfide, 2000 µg/mL	1 mL
	tert-Butanol, 40000 µg/mL	2-Hexanone, 2000 µg/mL	
	2-Butanone, 2000 µg/mL	4-Methyl-2-pentanone, 2000 µg/mL	
tert-Butyl methyl ether, 2000 µg/mL	Vinylacetate, 2000 µg/mL		
EPA 8260 Mix 6	varied, in methanol	1 mL	861309
	Acetonitrile, 40000 µg/mL	Isoprene, 2000 µg/mL	1 mL
	Benzyl chloride, 2000 µg/mL	Isopropyl acetate, 4000 µg/mL	
	Butyl acetate, 4000 µg/mL	Methyl acetate, 2000 µg/mL	
	Cyclohexane, 2000 µg/mL	Methylcyclohexane, 2000 µg/mL	
	Diethyl ether, 2000 µg/mL	Methyl methacrylate, 2000 µg/mL	
	Diisopropyl ether, 2000 µg/mL	Pentane, 2000 µg/mL	
	(±)-Epichlorohydrin, 40000 µg/mL	Propyl acetate, 4000 µg/mL	
Ethyl acetate, 4000 µg/mL	1,1,2-Trichloro-1,2,2-trifluoroethane, 2000 µg/mL		
EPA 8260 Mix 7	varied, in methanol	1 mL	861325
	Acrolein, 5000 µg/mL	Allyl alcohol, 50000 µg/mL	1 mL
	Acrylonitrile, 2500 µg/mL	1,4-Dioxane, 50000 µg/mL	
EPA 8240B/8260A Calibration Check Compounds	2000 µg/mL each component in methanol	1 mL	47385-U
	Chloroform	Ethylbenzene	1 mL
	1,1-Dichloroethylene	Toluene	
	1,2-Dichloropropane	Vinylchloride	

Description	Concentration	Qty.	Cat. No.	
EPA 8270 CLP Semivolatile Calibration Mix	1000 µg/mL each component in methylene chloride:benzene (3:1)	1 mL	506508	
	<i>Acenaphthene</i>	<i>Dimethylphthalate</i>	1 mL	5S06508
	<i>Acenaphthylene</i>	<i>2,4-Dinitrophenol</i>		
	<i>Anthracene</i>	<i>2,4-Dinitrotoluene</i>		
	<i>Azobenzene</i>	<i>2,6-Dinitrotoluene</i>		
	<i>Benz[a]anthracene</i>	<i>Di-n-octylphthalate</i>		
	<i>Benzo[b]fluoranthene</i>	<i>Fluoranthene</i>		
	<i>Benzo[k]fluoranthene</i>	<i>Fluorene</i>		
	<i>Benzo[ghi]perylene</i>	<i>Hexachlorobenzene</i>		
	<i>Benzo[a]pyrene</i>	<i>Hexachloro-1,3-butadiene</i>		
	<i>Benzyl butyl phthalate</i>	<i>Hexachlorocyclopentadiene</i>		
	<i>Bis(2-chloroethoxy)methane</i>	<i>Hexachloroethane</i>		
	<i>Indeno[1,2,3-cd]pyrene</i>	<i>Bis(2-chloroethyl) ether</i>		
	<i>Isophorone</i>	<i>Bis(2-ethylhexyl) phthalate</i>		
	<i>2-Methyl-4,6-dinitrophenol</i>	<i>4-Bromodiphenyl ether</i>		
	<i>2-Methylnaphthalene</i>	<i>Carbazole</i>		
	<i>o-Cresol</i>	<i>4-Chloroaniline</i>		
	<i>Naphthalene</i>	<i>4-Chlorodiphenyl ether</i>		
	<i>2-Nitroaniline</i>	<i>Bis-(2-chloroisopropyl) ether</i>		
	<i>3-Nitroaniline</i>	<i>4-Chloro-3-methylphenol</i>		
	<i>4-Nitroaniline</i>	<i>2-Chloronaphthalene</i>		
	<i>Nitrobenzene</i>	<i>2-Chlorophenol</i>		
	<i>2-Nitrophenol</i>	<i>Chrysene</i>		
	<i>4-Nitrophenol</i>	<i>p-Cresol</i>		
	<i>N-Nitrosodimethylamine</i>	<i>Dibenz[a,h]anthracene</i>		
	<i>N-Nitrosodi-n-propylamine</i>	<i>Dibenzofuran</i>		
	<i>Pentachlorophenol</i>	<i>Dibutyl phthalate</i>		
	<i>Phenanthrene</i>	<i>1,2-Dichlorobenzene</i>		
	<i>Phenol</i>	<i>1,3-Dichlorobenzene</i>		
	<i>Pyrene</i>	<i>1,4-Dichlorobenzene</i>		
	<i>1,2,4-Trichlorobenzene</i>	<i>2,4-Dichlorophenol</i>		
	<i>2,4,5-Trichlorophenol</i>	<i>Diethyl phthalate</i>		
	<i>2,4,6-Trichlorophenol</i>	<i>2,4-Dimethylphenol</i>		
EPA 8270 Appendix IX Semivolatile Calibration Mix	1000 µg/mL each component in methylene chloride	1 mL	506567	
	<i>4-Aminobiphenyl</i>	<i>Aniline</i>	1 mL	4S6701-U
	<i>1-Naphthylamine</i>	<i>Acetophenone</i>		
	<i>2-Naphthylamine</i>	<i>2-Acetylaminofluorene</i>		
	<i>4-Nitroquinoline-1-oxide</i>	<i>Benzyl alcohol</i>		
	<i>N-Nitrosodi-n-butylamine</i>	<i>2-sec-Butyl-4,6-dinitrophenol</i>		
	<i>N-Nitrosodiethylamine</i>	<i>2,6-Dichlorophenol</i>		
	<i>N-Nitrosomethylethylamine</i>	<i>p-Dimethylaminoazobenzene</i>		
	<i>N-Nitrosomorpholine</i>	<i>7,12-Dimethylbenz(a)anthracene</i>		
	<i>N-Nitrosopiperidine</i>	<i>1,3-Dinitrobenzene</i>		
	<i>N-Nitrosopyrrolidine</i>	<i>Diphenylamine</i>		
	<i>5-Nitro-o-toluidine</i>	<i>Ethyl methanesulfonate</i>		
	<i>Pentachlorobenzene</i>	<i>Hexachloropropene</i>		
	<i>Pentachloronitrobenzene</i>	<i>Isosafrole (cis & trans)</i>		
	<i>Pentachloroethane</i>	<i>Methapyrilene HCl</i>		
	<i>Phenacetin</i>	<i>2-Methyl aniline</i>		
	<i>Pyridine</i>	<i>3-Methylcholanthrene</i>		
	<i>Safrole</i>	<i>Methyl methanesulfonate</i>		
	<i>1,2,4,5-Tetrachlorobenzene</i>	<i>3-Methylphenol</i>		
	<i>2,3,4,6-Tetrachlorophenol</i>	<i>2-Methyl pyridine</i>		
	<i>1,3,5-Trinitrobenzene</i>			
	EPA 8270 APP IX Supplemental Mix 1	2000 µg/mL each component in methylene chloride	1 mL	46704-U
		<i>Dimethoate</i>	<i>Phorate</i>	1 mL
<i>Disulfoton</i>		<i>Sulfotep</i>		
<i>Famphur</i>		<i>Thionazin</i>		
<i>Parathion</i>		<i>Triethyl thiophosphate</i>		
<i>Parathion-methyl</i>				

Description	Concentration	Qty.	Cat. No.	
EPA 8270 Appendix IX Supplemental Mix 2	2000 µg/mL each component in methylene chloride:benzene (4:1)	1 mL	861141	
	<i>Chlorobenzilate</i>	<i>Isodrine</i>	1 mL	8S61141
	<i>Diallate</i>	<i>Kepone™</i>		
	<i>Dibenz[a,j]acridine</i>	<i>1-Methylnaphthalene</i>		
	<i>α,α-Dimethylphenethylamine</i>	<i>1,4-Naphthoquinone</i>		
	<i>1,4-Dinitrobenzene</i>	<i>Propyzamide</i>		
	<i>1,4-Dioxane</i>	<i>2,3,5,6-Tetrachlorophenol</i>		
EPA 8270 TLC Polynuclear Aromatic Hydrocarbons Mixture	2000 µg/mL each component in methylene chloride:benzene (1:1)	1 mL	48905-U	
	<i>Acenaphthene</i>	<i>Chrysene</i>	1 mL	4S8905
	<i>Acenaphthylene</i>	<i>Dibenz[a,h]anthracene</i>		
	<i>Anthracene</i>	<i>Fluoranthene</i>		
	<i>Benz[a]anthracene</i>	<i>Fluorene</i>		
	<i>Indeno[1,2,3-cd]pyrene</i>	<i>Naphthalene</i>		
	<i>Benzo[b]fluoranthene</i>	<i>Phenanthrene</i>		
	<i>Benzo[k]fluoranthene</i>	<i>Pyrene</i>		
<i>Benzo[ghi]perylene</i>				
EPA 8270A Acids Calibration Check Compounds	2000 µg/mL each component in methylene chloride	1 mL	47386	
	<i>4-Chloro-3-methylphenol</i>	<i>Pentachlorophenol</i>	1 mL	4S7386
	<i>2,4-Dichlorophenol</i>	<i>Phenol</i>		
	<i>2-Nitrophenol</i>	<i>2,4,6-Trichlorophenol</i>		
CLP Standards				
EPA CLP SOW OLM04 Semi-Volatile Mix Solution	2000 µg/mL each component in methylene chloride:benzene (3:1)	1 mL	47514-U	
	<i>Acetophenone</i>	<i>Biphenyl</i>	1 mL	4S7514-U
	<i>Atrazine</i>	<i>Caprolactam</i>		
	<i>Benzaldehyde</i>			
UST/GRO/DRO				
Underground Storage Tank (UST) BTEX Mix	200 µg/mL each component in methanol	1 mL	48026	
	<i>Benzene</i>	<i>o-Xylene</i>	1 mL	4S8026
	<i>Ethylbenzene</i>	<i>m-Xylene</i>		
	<i>Toluene</i>	<i>p-Xylene</i>		
Total Petroleum Hydrocarbons (TPH) Mix 3	1000 µg/mL each component in carbon disulfide	1 mL	861394-U	
	<i>Decane</i>	<i>Octacosane</i>	1 mL	8S61394-U
	<i>Dodecane</i>	<i>Octadecane</i>		
	<i>Dotriacontane</i>	<i>Octane</i>		
	<i>Eicosane</i>	<i>Tetracontane</i>		
	<i>Heptane</i>	<i>Tetracosane</i>		
	<i>Hexadecane</i>	<i>Tetradecane</i>		
	<i>Hexane</i>	<i>Tetratetracontane</i>		
	<i>Hexatriacontane</i>	<i>Undecane</i>		
	<i>Nonane</i>			

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