

Since 1954, SPEX CertiPrep is the industry leader in the CRM marketplace meeting the needs of laboratories worldwide with innovation and research. Accredited by A2LA to ISO/IEC 17025:2017 & ISO 17034:2016. Certified by DQS to ISO 9001:2015.



Analytical Standards for GC/MS

- Most of our ampulized volatile standards are sold at 1.5 mL portions.**
 The reason is simple: the shelf life of a volatile mix is greater if it is transferred into a vial with minimal head space.
- All ampulized standards come with pre-labeled transfer/storage vials or labels**
 We want to make the transfer of ampulized standards as easy as possible and, as such, we provide a pre-labeled transfer/storage vial (or just the label if you prefer). The label includes the catalog number, lot number, product description, and expiration date.
- We offer cost effective 5.5 mL bottles for semivolatile mixes**
 Many customers find it more cost effective to purchase their analytical standards in bottles rather than in 1.5 mL vials. This packaging alternative provides greater volume at a lower price per mL.
- The concentrations of our mixes are optimized**
 Virtually all mixes are sold at concentrations of 1,000 ppm or higher, with most at 2,000 ppm.

Semivolatile Internal Standards Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration	
Acenaphthlene-d ₁₀	15067-26-2	Naphthalene-d ₈	1146-65-2	4,000 µg/mL	
Chrysene-d ₁₂	1719-03-5	Perylene-d ₁₂	1520-96-3		
1,4-Dichlorobenzene-d ₄	3855-82-1	Phenanthrene-d ₁₀	1517-22-2		
		Volume	Part #		
		1.8 mL vial	ECS-A-001		
		(3) 1.8 mL vials	ECS-B-001		
		5.5 mL bottle	ECS-N-001		

Semivolatile Internal Standards Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration	
Acenaphthlene-d ₁₀	15067-26-2	Naphthalene-d ₈	1146-65-2	2,000 µg/mL	
Chrysene-d ₁₂	1719-03-5	Perylene-d ₁₂	1520-96-3		
1,4-Dichlorobenzene-d ₄	3855-82-1	Phenanthrene-d ₁₀	1517-22-2		
		Volume	Part #		
		1.8 mL vial	ECS-A-201		
		(3) 1.8 mL vials	ECS-B-201		
		5.5 mL bottle	ECS-N-201		

Phenols Mix for EPA Method 625/8270 in Methylene Chloride				
Component	CAS #	Component	CAS #	Concentration
4-Chloro-3-methylphenol	59-50-7	2-Nitrophenol	88-75-5	2,000 µg/mL
2-Chlorophenol	95-57-8	4-Nitrophenol	100-02-7	
2,4-Dichlorophenol	120-83-2	Pentachlorophenol	87-86-5	
2,4-Dimethylphenol	105-67-9	Phenol	108-95-2	
4,6-Dinitro-2-methylphenol	534-52-1	2,4,6-Trichlorophenol	88-06-2	
2,4-Dinitrophenol	51-28-5			
		Volume	Part #	
		1.8 mL vial	ECS-A-006	
		(3) 1.8 mL vials	ECS-B-006	
		5.5 mL bottle	ECS-N-006	

Benzidine Mix for EPA Method 625/8250 in Methylene Chloride			
Component	CAS #		Concentration
Benzidine	92-87-5		2,000 µg/mL
3,3'-Dichlorobenzidine	91-94-1		
		Volume	Part #
		1.8 mL vial	ECS-A-007
		(3) 1.8 mL vials	ECS-B-007
		5.5 mL bottle	ECS-N-007

Volatile ISTD Mix for EPA Method 624/8240 in Methanol-P&T			
Component	CAS #		Concentration
Bromochloromethane	74-97-5		2,000 µg/mL
Chlorobenzene-d ₅	3114-55-4		
1,4-Difluorobenzene	540-36-3		
		Volume	Part #
		1.5 mL ampule	ECS-A-010
		(3) 1.5 mL ampules	ECS-B-010

EPA Method 8260 Surrogate Mix in Methanol-P&T			
Component	CAS #		Concentration
4-Bromofluorobenzene	460-00-4		2,000 µg/mL
1,2-Dichloroethane-d ₄	17060-07-0		
Toluene-d ₈	2037-26-5		
		Volume	Part #
		1.5 mL ampule	ECS-A-011
		(3) 1.5 mL ampules	ECS-B-011
		15 mL bottle	ECS-Z-011

NOTE: Recommended for use with EPA Method 8260 and 8260B.

Analytical Standards for GC/MS

EPA Method 624/8240 Main Mix 1 in Methanol-P&T

Component	CAS #	Component	CAS #	Concentration
Benzene	71-43-2	cis-1,2-Dichloroethene	156-59-2	2,000 µg/mL
Bromodichloromethane	75-27-4	trans-1,2-Dichloroethene	156-60-5	
Bromoform	75-25-2	1,2-Dichloropropane	78-87-5	
Carbon tetrachloride	56-23-5	cis-1,3-Dichloropropene	10061-01-5	
Chlorobenzene	108-90-7	trans-1,3-Dichloropropene	10061-02-6	
Chloroform	67-66-3	Ethylbenzene	100-41-4	
Dibromochloromethane	124-48-1	Methylene chloride	75-09-2	
1,2-Dichlorobenzene	95-50-1	1,1,2,2-Tetrachloroethane	79-34-5	
1,3-Dichlorobenzene	541-73-1	Tetrachloroethene	127-18-4	
1,4-Dichlorobenzene	106-46-7	Toluene	108-88-3	
1,1-Dichloroethane	75-34-3	1,1,1-Trichloroethane	71-55-6	
1,2-Dichloroethane	107-06-2	1,1,2-Trichloroethane	79-00-5	
1,1-Dichloroethene	75-35-4	Trichloroethene	79-01-6	
		Volume	Part #	
		1.5 mL ampule	ECS-A-015	
		(3) 1.5 mL ampules	ECS-B-015	

BFB Tune Check for EPA Methods 624/8240, 8260 and 524.2 in Methanol-P&T

Component	CAS #	Concentration
1-Bromo-4-fluorobenzene	460-00-4	50 µg/mL
		Volume
		1.5 mL ampule
		(3) 1.5 mL ampules
		Part #
		ECS-A-017
		ECS-B-017

Semivolatile TCLP Calibration/Spiking Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration
bis(2-Chloroethyl)ether	111-44-4	4-Methylphenol	106-44-5	2,000 µg/mL
1,4-Dichlorobenzene	106-46-7	Nitrobenzene	98-95-3	
2,4-Dinitrotoluene	121-14-2	Pentachlorophenol	87-86-5	
Hexachlorobenzene	118-74-1	Phenol	108-95-2	
Hexachlorobutadiene	87-68-3	Pyridine	110-86-1	
Hexachloroethane	67-72-1	2,4,5-Trichlorophenol	95-95-4	
2-Methylphenol	95-48-7	2,4,5-Trichlorophenol	88-06-2	
3-Methylphenol	108-39-4			
		Volume	Part #	
		1.8 mL vial	ECS-A-018	
		(3) 1.8 mL vials	ECS-B-018	
		5.5 mL bottle	ECS-N-018	

Base/Neutrals Mix 1 for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration
Azobenzene	103-33-3	2,4-Dinitrotoluene	121-14-2	2,000 µg/mL
4-Bromodiphenyl ether	101-55-3	2,6-Dinitrotoluene	606-20-2	
Butyl benzyl phthalate	85-68-7	Di-n-octyl phthalate	117-84-0	
Carbazole	86-74-8	Bis(2-ethylhexyl)phthalate	117-81-7	
Bis(2-chloro-1-methylethyl) ether	108-60-1	Hexachlorobenzene	118-74-1	
Bis(2-chloroethoxy)methane	111-91-1	Hexachlorobutadiene	87-68-3	
Bis(2-chloroethyl)ether	111-44-4	Hexachlorocyclopentadiene	77-47-4	
2-Chloronaphthalene	91-58-7	Hexachloroethane	67-72-1	
4-Chlorophenyl-phenyl ether	7005-72-3	Isophorone	78-59-1	
1,2-Dichlorobenzene	95-50-1	Nitrobenzene	98-95-3	
1,3-Dichlorobenzene	541-73-1	n-Nitrosodimethylamine	62-75-9	
1,4-Dichlorobenzene	106-46-7	n-Nitrosodi-n-propylamine	621-64-7	
Diethyl phthalate	84-66-2	n-Nitrosodiphenylamine	86-30-6	
Dimethyl phthalate	131-11-3	Pyridine	110-86-1	
Di-n-butyl phthalate	84-74-2	1,2,4-Trichlorobenzene	120-82-1	

Volume	Part #
1.8 mL vial	ECS-A-030
(3) 1.8 mL vials	ECS-B-030
5.5 mL bottle	ECS-N-030

EPA Method 8270 Add-Ons Mix in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration
Aniline	62-53-3	2-Methylphenol	95-48-7	2,000 µg/mL
Benzoic acid	65-85-0	4-Methylphenol	106-44-5	
Benzyl alcohol	100-51-6	2-Nitroaniline	88-74-4	
4-Chloroaniline (p-Chloroaniline)	106-47-8	3-Nitroaniline	99-09-2	
Dibenzofuran	132-64-9	4-Nitroaniline	100-01-6	
2-Methylnaphthalene	91-57-6	2,4,5-Trichlorophenol	95-95-4	

Volume	Part #
1.8 mL vial	ECS-A-031
(3) 1.8 mL vials	ECS-B-031
5.5 mL bottle	ECS-N-031

Polynuclear Aromatic Hydrocarbons Mix for EPA Method 625/8270 in Methylene Chloride: Benzene (50:50)

Component	CAS #	Component	CAS #	Concentration
Acenaphthene	83-32-9	Chrysene	218-01-9	2,000 µg/mL
Acenaphthylene	208-96-8	Dibenz(a,h)anthracene	53-70-3	
Anthracene	120-12-7	Fluoranthene	206-44-0	
Benz(a)anthracene	56-55-6	Fluorene	86-73-7	
Benzo(a)pyrene	50-32-8	Indeno(1,2,3-c,d)pyrene	193-39-5	
Benzo(b)fluoranthene	205-99-2	Naphthalene	91-20-3	
Benzo(g,h,i)perylene	191-24-2	Phenanthrene	85-01-8	
Benzo(k)fluoranthene	207-08-9	Pyrene	129-00-0	

Volume	Part #
1.8 mL vial	ECS-A-032
(3) 1.8 mL vials	ECS-B-032
5.5 mL bottle	ECS-N-032

Semivolatiles Calibration Kit for EPA Method 625/8270 (Bottles)

Kit Contains

ECS-N-006	ECS-N-031
ECS-N-007	ECS-N-032
ECS-N-030	

Volume	Part #
(5) 5.5 mL bottles	ECS-KN-050*

* ECS-KN-050 is a primary source for this kit. Second Source Lot for this kit: you must specify the catalog number and the lot that you DO NOT want.

Semivolatiles Calibration Kit for EPA Method 625/8270 (Vials)

Kit Contains

ECS-A-006	ECS-A-031
ECS-A-007	ECS-A-032
ECS-A-030	

Volume	Part #
(5) 1.8 mL vials	ECS-K-050*

* ECS-K-050 is a primary source for this kit. Second Source Lot for this kit: you must specify the catalog number and the lot that you DO NOT want.

EPA Method 8260/524.2 Volatiles Main Mix (Non-Gases) in Methanol-P&T

Component	CAS #	Component	CAS #	Concentration
Benzene	71-43-2	2,2-Dichloropropane	594-20-7	2,000 µg/mL
Bromobenzene	108-86-1	1,1-Dichloropropene	563-58-6	
Bromochloromethane	74-97-5	cis-1,3-Dichloropropene	10061-01-5	
Bromodichloromethane	75-27-4	trans-1,3-Dichloropropene	10061-02-6	
Bromoform	75-25-2	Ethylbenzene	100-41-4	
n-Butylbenzene	104-51-8	Hexachlorobutadiene	87-68-3	
sec-Butylbenzene	135-98-8	Isopropylbenzene	98-82-8	
tert-Butylbenzene	98-06-6	p-Isopropyltoluene	99-87-6	
Carbon tetrachloride	56-23-5	Methylene chloride	75-09-2	
Chlorobenzene	108-90-7	Naphthalene	91-20-3	
Chloroform	67-66-3	n-Propylbenzene	103-65-1	
2-Chlorotoluene	95-49-8	Styrene	100-42-5	
4-Chlorotoluene	106-43-4	1,1,1,2-Tetrachloroethane	630-20-6	
1,2-Dibromo-3-chloropropane	96-12-8	1,1,2,2-Tetrachloroethane	79-34-5	
Dibromochloromethane	124-48-1	Tetrachloroethene	127-18-4	
1,2-Dibromomethane	106-93-4	Toluene	108-88-3	
Dibromomethane	74-95-3	1,2,3-Trichlorobenzene	87-61-6	
1,2-Dichlorobenzene	95-50-1	1,2,4-Trichlorobenzene	120-82-1	
1,3-Dichlorobenzene	541-73-1	1,1,1-Trichloroethane	71-55-6	
1,4-Dichlorobenzene	106-46-7	1,1,2-Trichloroethane	79-00-5	
1,1-Dichloroethane	75-34-3	Trichloroethene	79-01-6	
1,2-Dichloroethane	107-06-2	1,2,3-Trichloropropane	96-18-4	
1,1-Dichloroethene	75-35-4	1,2,4-Trimethylbenzene	95-63-6	
cis-1,2-Dichloroethene	156-59-2	1,3,5-Trimethylbenzene	108-67-8	
trans-1,2-Dichloroethene	156-60-5	m-Xylene	108-38-3	
1,2-Dichloropropane	78-87-5	o-Xylene	95-47-6	
1,3-Dichloropropane	142-28-9	p-Xylene	106-42-3	

Volume	Part #
1.5 mL ampule	ECS-A-033
(3) 1.5 mL ampules	ECS-B-033

EPA Method 524.2 ISTD/Surrogate Mix in Methanol-P&T		
Component	CAS #	Concentration
4-Bromofluorobenzene	460-00-4	2,000 µg/mL
1,2-Dichlorobenzene-d ₄	2199-69-1	
Fluorobenzene	462-06-6	
	Volume	Part #
	1.5 mL ampule	ECS-A-034
	(3) 1.5 mL ampules	ECS-B-034

Acrolein/Acrylonitrile Mix for EPA Methods 624/8240 and 8260 in Methanol		
Component	CAS #	Concentration
Acrolein	107-02-8	10,000 µg/mL
Acrylonitrile	107-13-1	
	Volume	Part #
	1.5 mL ampule	ECS-A-038
	(3) 1.5 mL ampules	ECS-B-038

NOTE: Mix has a shelf life of 90 days

Underground Storage Tank Volatile Add-Ons for EPA Methods 624/8240 in Methanol		
Component	CAS #	Concentration
tert-Butyl alcohol	75-65-0	20,000 µg/mL
Diisopropyl ether	108-20-3	2,000 µg/mL
Methyl tertiary butyl ether	1634-04-4	2,000 µg/mL
	Volume	Part #
	1.5 mL ampule	ECS-A-039
	(3) 1.5 mL ampules	ECS-B-039

2-Chloroethyl Vinyl Ether for EPA Methods 624/8270 and 8260 in Methanol-P&T		
Component	CAS #	Concentration
2-Chloroethyl vinyl ether	110-75-8	2,000 µg/mL
	Volume	Part #
	1.5 mL ampule	ECS-A-040
	(3) 1.5 mL ampules	ECS-B-040

NOTE: Add this to EPA Method 624/8240 Main Mix 1

EPA Method 8260 ISTD Mix in Methanol-P&T		
Component	CAS #	Concentration
Chlorobenzene-d ₃	3114-55-4	2,000 µg/mL
1,4-Dichlorobenzene-d ₄	3855-82-1	
1,4-Difluorobenzene	540-36-3	
Pentafluorobenzene	363-72-4	
	Volume	Part #
	1.5 mL ampule	ECS-A-041
	(3) 1.5 mL ampules	ECS-B-041
	15 mL bottle	ECS-Z-041

Ketones Mix for EPA Methods 8260 and 524.2 in Methanol

Component	CAS #	Concentration						
Acetone	67-64-1	2,000 µg/mL						
2-Butanone	78-93-3							
2-Hexanone	591-78-6							
4-Methyl-2-pentanone	108-10-1							
<table border="1"> <thead> <tr> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>1.5 mL ampule</td> <td>ECS-A-043</td> </tr> <tr> <td>(3) 1.5 mL ampules</td> <td>ECS-B-043</td> </tr> </tbody> </table>		Volume	Part #	1.5 mL ampule	ECS-A-043	(3) 1.5 mL ampules	ECS-B-043	
Volume	Part #							
1.5 mL ampule	ECS-A-043							
(3) 1.5 mL ampules	ECS-B-043							

Ketones Mix for EPA Method 524.2 (High Concentration) in Methanol

Component	CAS #	Concentration						
Acetone	67-64-1	10,000 µg/mL						
2-Butanone	78-93-3							
2-Hexanone	591-78-6							
4-Methyl-2-pentanone	108-10-1							
<table border="1"> <thead> <tr> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>1.5 mL ampule</td> <td>ECS-A-043H</td> </tr> <tr> <td>(3) 1.5 mL ampules</td> <td>ECS-B-043H</td> </tr> </tbody> </table>		Volume	Part #	1.5 mL ampule	ECS-A-043H	(3) 1.5 mL ampules	ECS-B-043H	
Volume	Part #							
1.5 mL ampule	ECS-A-043H							
(3) 1.5 mL ampules	ECS-B-043H							

EPA Method 8260 Add-Ons Mix #1 in Methanol

Component	CAS #	Concentration						
Carbon disulfide	75-15-0	2,000 µg/mL						
Iodomethane	74-88-4							
Methyl tertiary butyl ether	1634-04-4							
Vinyl acetate	108-05-4							
<table border="1"> <thead> <tr> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>1.5 mL ampule</td> <td>ECS-A-044</td> </tr> <tr> <td>(3) 1.5 mL ampules</td> <td>ECS-B-044</td> </tr> </tbody> </table>		Volume	Part #	1.5 mL ampule	ECS-A-044	(3) 1.5 mL ampules	ECS-B-044	
Volume	Part #							
1.5 mL ampule	ECS-A-044							
(3) 1.5 mL ampules	ECS-B-044							

EPA Method 8260 Add-Ons Mix #2 in Methanol

Component	CAS #	Concentration	Component	CAS #	Concentration						
Acetonitrile	75-05-8	20,000 µg/mL	Ethyl methacrylate	97-63-2	2,000 µg/mL						
Allyl chloride	107-05-1	2,000 µg/mL	Isobutyl alcohol	78-83-1	40,000 µg/mL						
cis-1,4-Dichloro-butene	1476-11-5	2,000 µg/mL	Methyl methacrylate	80-62-6	2,000 µg/mL						
trans-1,4-Dichloro-butene	110-57-6	2,000 µg/mL	Methylacrylonitrile	126-98-7	20,000 µg/mL						
1,4-Dioxane	123-91-1	40,000 µg/mL	Propionitrile	107-12-0	20,000 µg/mL						
Ethanol	64-17-5	40,000 µg/mL									
<table border="1"> <thead> <tr> <th>Volume</th> <th>Part #</th> </tr> </thead> <tbody> <tr> <td>1.5 mL ampule</td> <td>ECS-A-045XP</td> </tr> <tr> <td>(3) 1.5 mL ampules</td> <td>ECS-B-045XP</td> </tr> </tbody> </table>		Volume	Part #	1.5 mL ampule	ECS-A-045XP	(3) 1.5 mL ampules	ECS-B-045XP				
Volume	Part #										
1.5 mL ampule	ECS-A-045XP										
(3) 1.5 mL ampules	ECS-B-045XP										

Analytical Standards for GC/MS

Revision 4.0 Add-Ons for EPA Method 524.2 (without Pentachloroethane) in Methanol-P&T

Component	CAS #	Concentration	Component	CAS #	Concentration
Acrylonitrile	107-13-1	4,000 µg/mL	Iodomethane	74-88-4	2,000 µg/mL
Allyl chloride	107-05-1	2,000 µg/mL	Methyl acrylate	96-33-3	2,000 µg/mL
Carbon disulfide	75-15-0	2,000 µg/mL	Methyl methacrylate	80-62-6	4,000 µg/mL
Chloroacetonitrile	107-14-2	40,000 µg/mL	Methyl tertiary butyl ether	1634-04-4	2,000 µg/mL
1-Chlorobutane	109-69-3	2,000 µg/mL	Methacrylonitrile	126-98-7	2,000 µg/mL
trans-1,4-Dichloro-2-butene	110-57-6	4,000 µg/mL	Nitrobenzene	98-95-3	20,000 µg/mL
1,1-Dichloropropanone	513-88-2	10,000 µg/mL	2-Nitropropane	79-46-9	4,000 µg/mL
Ether	60-29-7	2,000 µg/mL	Propionitrile	107-12-0	20,000 µg/mL
Ethyl methacrylate	97-63-2	2,000 µg/mL	Tetrahydrofuran	109-99-9	4,000 µg/mL
Hexachloroethane	67-72-1	2,000 µg/mL			

Volume	Part #
1.5 mL ampule	ECS-A-046XP
(3) 1.5 mL ampules	ECS-B-046XP

EPA Method 8260 Add-Ons Mix #3 in Methanol-P&T

Component	CAS #	Concentration
Cyclohexane	110-82-7	2,000 µg/mL
Methyl acetate	79-20-9	
Methylcyclohexane	108-87-2	
1,1,2-Trichlorotrifluoroethane	76-13-1	

Volume	Part #
1.5 mL ampule	ECS-A-049
(3) 1.5 mL ampules	ECS-B-049

EPA Method 8260B ISTD Mix in Methanol

Component	CAS #	Concentration
Chlorobenzene-d ₅	3114-55-4	2,000 µg/mL
1,4-Dichlorobenzene-d ₄	3855-82-1	
Fluorobenzene	462-06-6	

Volume	Part #
1.5 mL ampule	ECS-A-051
(3) 1.5 mL ampules	ECS-B-051

Volatile Gases Mix for EPA Methods 624/8240, 8260 and 524.2 in Methanol

Component	CAS #	Component	CAS #	Concentration
Bromomethane	74-83-9	Dichlorofluoromethane	75-71-8	2,000 µg/mL
Chloroethane	75-00-3	Trichlorofluoromethane	75-69-4	
Chloromethane	74-87-3	Vinyl chloride	75-01-4	

Volume	Part #
1 mL ampule	ECS-A-053
(3) 1 mL ampules	ECS-B-053

Tetrahydrofuran Mix for EPA Method 8260 in Methanol-P&T

Component	CAS #	Concentration
Tetrahydrofuran	109-99-9	2,000 µg/mL
Volume		Part #
(3) 1.5 mL ampules		ECS-B-047

Tune Check Kit for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
Benzidine	92-87-5	1,000 µg/mL
4,4-DDT	50-29-3	
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	
Pentachlorophenol	87-86-5	
Volume		Part #
Kit of 1.8 mL vials		ECS-K-TUNE

TECHNICAL NOTE: Under certain state regulations, some labs are required to run the 4 components listed above as part of method 625/8270 to evaluate for DFTPP and tailing factors. The problem is that the analytes will break down after about 40 days when mixed together. Our solution is to create a kit with all 4 components packaged separately. Once a month you dilute all 4 components together (typically 50 50 100 uL into 1 mL) in Methylene Chloride and you have a fresh tuning mix ready for injection.

Base/Neutral Surrogate Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
2-Fluorobiphenyl	321-60-8	1,000 µg/mL
Nitrobenzene-d ₅	4165-60-0	
p-Terphenyl-d ₁₄	1718-51-0	
Volume		Part #
5.5 mL bottle		ECS-N-002
11.5 mL bottle		ECS-Z-002

Acid Extractables Surrogate Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
2-Fluorophenol	367-12-4	2,000 µg/mL
Phenol-d ₆	13127-88-3	
2,4,6-Tribromophenol	118-79-6	
Volume		Part #
5.5 mL bottle		ECS-N-003
11.5 mL bottle		ECS-Z-003

Acid Extractables Spiking Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
4-Chloro-3-methylphenol	59-50-7	2,000 µg/mL
2-Chlorophenol	95-57-8	
4-Nitrophenol	100-02-7	
Pentachlorophenol	87-86-5	
Phenol	108-95-2	
Volume		Part #
5.5 mL bottle		ECS-N-004

Base/Neutral Spiking Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration
Acenaphthene	83-32-9	n-Nitrosodi-n-propylamine	621-64-7	1,000 µg/mL
Di-n-butyl phthalate	84-74-2	Pyrene	129-00-0	
1,4-Dichlorobenzene	106-46-7	1,2,4-Trichlorobenzene	120-82-1	
2,4-Dinitrotoluene	121-14-2			
		Volume	Part #	
		5.5 mL bottle	ECS-N-005	

DFTPP Tune Check for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	50 µg/mL
		Volume
		5.5 mL bottle
		Part #
		ECS-N-008

Base/Neutral Surrogate Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
1,2-Dichlorobenzene-d ₄	2199-69-1	1,000 µg/mL
2-Fluorobiphenyl	321-60-8	
Nitrobenzene-d ₅	4165-60-0	
p-Terphenyl-d ₁₄	1718-51-0	
		Volume
		5.5 mL bottle
		Part #
		ECS-N-022
		10.5 mL bottle
		Part #
		ECS-Z-022

Acid Extractables Surrogate Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Concentration
2-Chlorophenol-3,4,5,6-d ₄	93951-73-6	2,000 µg/mL
2-Fluorophenol	367-12-4	
Phenol-d ₆	13127-88-3	
2,4,6-Tribromophenol	118-79-6	
		Volume
		5.5 mL bottle
		Part #
		ECS-N-023
		10.5 mL bottle
		Part #
		ECS-Z-023

Semivolatile Surrogate Mix for EPA Method 625/8270 in Methylene Chloride

Component	CAS #	Component	CAS #	Concentration
2-Fluorobiphenyl	321-60-8	Phenol-d ₆	13127-88-3	2,000 µg/mL
2-Fluorophenol	367-12-4	p-Terphenyl-d ₁₄	1718-51-0	
Nitrobenzene-d ₅	4165-60-0	2,4,6-Tribromophenol	118-79-6	
		Volume	Part #	
		5.5 mL bottle	ECS-N-027	

EPA Method 8270 Add-Ons Mix #2 in Methylene Chloride				
Component	CAS #	Component	CAS #	Concentration
Acetophenone	98-86-2	Biphenyl	92-52-4	2,000 µg/mL
Atrazine	1912-24-9	e-Caprolactam	105-60-2	
Benzaldehyde	100-52-7	1,2,4,5-Tetrachlorobenzene	95-94-3	
		Volume	Part #	
		1.8 mL vial	ECS-A-061	
		(3) 1.8 mL vials	ECS-B-061	

EPA Method 8270 Add-Ons Mix #3 in Methylene Chloride		
Component	CAS #	Concentration
2,3,4,6-Tetrachlorophenol	58-90-2	1,000 µg/mL
		Volume
		5.5 mL bottle
		Part #
		ECS-N-062

Acrolein Mix for EPA Method 8260 in Methanol-P&T		
Component	CAS #	Concentration
Acrolein	107-02-8	10,000 µg/mL
		Volume
		1.5 mL ampule
		(3) 1.5 mL ampules
		Part #
		ECS-A-ACN
		ECS-B-ACN

NOTE: Mix has a shelf life of 90 days. Please allow 5 days to prepare.

1,4-Dioxane Mix for EPA Method 8260 in Methanol		
Component	CAS #	Concentration
1,4-Dioxane	123-91-1	10,000 µg/mL
		Volume
		1.5 mL ampule
		(3) 1.5 mL ampules
		Part #
		ECS-A-DIOX
		ECS-B-DIOX

Oxygenates Mix for EPA Method 8260 in Methanol-P&T			
Component	CAS #		Concentration
tert-Amyl methyl ether	994-05-8		2,000 µg/mL
tert-Butyl alcohol	75-65-0		20,000 µg/mL
tert-Butyl ethyl ether	637-92-3		2,000 µg/mL
Diisopropyl ether	108-20-3		2,000 µg/mL
		Volume	Part #
		1.5 mL ampule	ECS-A-NHOX
		(3) 1.5 mL ampules	ECS-B-NHOX

Pentachloroethane Mix for EPA Methods 8260 and 524.2 in Methanol-P&T		
Component	CAS #	Concentration
Pentachloroethane*	76-01-7	2,000 µg/mL
		Volume
		1.5 mL ampule
		(3) 1.5 mL ampules
		Part #
		ECS-A-PCE
		ECS-B-PCE

* Stability studies over the past few years indicate that in the presence of certain halocarbons, such as those found in ECS-A-033, Pentachloroethane (PCE) breaks down to Tetrachloroethene in significant amounts. When running your PE/PT analyses, we strongly advise that you prepare your calibration standards the day you run the PE/PT samples or, if allowed by your regulatory agency, **exclude** the PCE from your calibration. If you need to include PCE we offer it as a single analyte mix.

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