

A scientist in a white lab coat and safety goggles is shown in profile, pouring a liquid from a test tube into a rack of beakers. The scene is set in a laboratory with various pieces of equipment visible in the background.

## **Priority Pollutant Standard Mixtures**

## U.S. EPA Method 1653 Standard Mixtures

CATALOG #	COMPOUND	AMOUNT
EM-2515	Method 1653 Labeled Chlorophenolic Derivatives Mixture	1 mL in Methylene Chloride (D <sub>2</sub> ,99.9 %)
	<b>Labeled Compounds:</b>	<b>Concentration (mg/mL)</b>
	2,4-Dichlorophenol (Ring-D <sub>3</sub> ,98%)	2.5
	Pentachlorophenol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	5
	4-Chloroguaiacol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	1.25
	4,5,6-Trichloroguaiacol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	2.5
	3,4,5,6-Tetrachloroguaiacol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	5
	4,5-Dichlorocatechol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	2.5
	3,4,5,6-Tetrachlorocatechol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	5
	5-Chlorovanillin (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	2.5

CATALOG #	COMPOUND	AMOUNT
EM-4017-A	Method 1653 Unlabeled Chlorophenolic Cocktail	1 mL in Acetone
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	4-Chlorophenol	250
	2,4-Dichlorophenol	500
	2,6-Dichlorophenol	500
	2,4,5-Trichlorophenol	500
	2,4,6-Trichlorophenol	500
	2,3,4,6-Tetrachlorophenol	500
	Pentachlorophenol	1000

CATALOG #	COMPOUND	AMOUNT
EM-4018	Method 1653 Unlabeled Chloroguaiacol Cocktail	1 mL in Acetone
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	4-Chloroguaiacol	250
	3,4-Dichloroguaiacol	500
	4,5-Dichloroguaiacol	500
	4,6-Dichloroguaiacol	500
	3,4,5-Trichloroguaiacol	500
	3,4,6-Trichloroguaiacol	500
	4,5,6-Trichloroguaiacol	500
	Tetrachloroguaiacol	1000

## U.S. EPA Method 1653 Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
EM-4019	Method 1653 Unlabeled Chlorocatechol Cocktail	1 mL in Acetone
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	4-Chlorocatechol	250
	3,4-Dichlorocatechol	500
	3,6-Dichlorocatechol	500
	4,5-Dichlorocatechol	500
	3,4,5-Trichlorocatechol	1000
	3,4,6-Trichlorocatechol	1000
	Tetrachlorocatechol	1000

CATALOG #	COMPOUND	AMOUNT
EM-4020	Method 1653 Unlabeled Chlorovanillin/Syringaldehyde Cocktail	1 mL in Acetone
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	5-Chlorovanillin	500
	6-Chlorovanillin	500
	2-Chlorosyringaldehyde	500
	Trichlorosyringol	500
	5,6-Dichlorovanillin	1000
	2,6-Dichlorosyringaldehyde	1000

CATALOG #	COMPOUND	AMOUNT
EM-4021-A	Set of U.S. EPA Method 1653 Cocktails 1 Ampoule Each EM-4017-A, EM-4018, EM-4019, EM-4020	4 x 1 mL

CATALOG #	COMPOUND	AMOUNT
EM-4024	Internal Standard Solution	1 mL in Acetone
	<b>Unlabeled Compound</b>	<b>Concentration (µg/mL)</b>
	3,4,5-Trichlorophenol	1000

CATALOG #	COMPOUND	AMOUNT
EM-4028	Instrument Performance Standard	1 mL in Acetone
	<b>Unlabeled Compound</b>	<b>Concentration (µg/mL)</b>
	2,2'-Difluorobiphenyl	5000

## U.S. EPA Method 1653A Standard Mixtures

CATALOG #	COMPOUND	AMOUNT
EM-4173	Method 1653A Labeled Chlorophenolic Derivatives Mixture  (Note: Unlabeled Internal Standard, 3,4,5-Trichlorophenol already formulated into the standard)	2 x 1 mL
	<b>Vial 1 (Methanol)</b> <b>Labeled Compounds</b>	<b>Concentration (µg/mL)</b>
	2,4-Dichlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	250
	4-Chloroguaiacol ( <sup>13</sup> C <sub>6</sub> ,99%)	250
	4,5-Dichlorocatechol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	250
	4,5,6-Trichloroguaiacol ( <sup>13</sup> C <sub>6</sub> ,99%)	250
	Pentachlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	250
	3,4,5,6-Tetrachloroguaiacol ( <sup>13</sup> C <sub>6</sub> ,99%)	250
	3,4,5,6-Tetrachlorocatechol (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	250
	3,4,5-Trichlorophenol (Unlabeled)	250
	<b>Vial 2 (Acetone)</b> <b>Labeled Compound</b>	<b>Concentration (µg/mL)</b>
	5-Chlorovanillin (Ring- <sup>13</sup> C <sub>6</sub> ,99%)	250

CATALOG #	COMPOUND	AMOUNT
EM-4181	Method 1653A Regulated Chlorophenolics Mixture-1	1 mL in Methanol
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	Pentachlorophenol	1000
	Tetrachloroguaiacol	1000
	3,4,5-Trichlorocatechol	1000
	3,4,5-Trichloroguaiacol	500
	4,5,6-Trichloroguaiacol	500
	2,4,6-Trichlorophenol	500
	Tetrachlorocatechol	1000
	2,3,4,6-Tetrachlorophenol	500
	3,4,6-Trichlorocatechol	1000
	3,4,6-Trichloroguaiacol	500
	2,4,5-Trichlorophenol	500

## U.S. EPA Method 1653A Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
EM-4182	Method 1653A Regulated Chlorophenolics Mixture-2	1 mL in Acetone
	<b>Unlabeled Compound</b>	<b>Concentration (µg/mL)</b>
	Trichlorosyringol	500

CATALOG #	COMPOUND	AMOUNT
EM-4183	Method 1653A Other Chlorophenolics Mixture-1	1 mL in Methanol
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	4-Chlorocatechol	250
	4-Chlorophenol	250
	3,6-Dichlorocatechol	500
	3,4-Dichloroguaiacol	500
	4,6-Dichloroguaiacol	500
	2,6-Dichlorophenol	500
	4-Chloroguaiacol	250
	3,4-Dichlorocatechol	500
	4,5-Dichlorocatechol	500
	4,5-Dichloroguaiacol	500
	2,4-Dichlorophenol	500

CATALOG #	COMPOUND	AMOUNT
EM-4184	Method 1653A Other Chlorophenolics Mixture-2	1 mL in Acetone
	<b>Unlabeled Compounds</b>	<b>Concentration (µg/mL)</b>
	2-Chlorosyringaldehyde	500
	5-Chlorovanillin	500
	6-Chlorovanillin	500
	2,6-Dichlorosyringaldehyde	1000
	5,6-Dichlorovanillin	1000

CATALOG #	COMPOUND	AMOUNT
EM-4185	Set of Regulated Chlorophenolics Mixtures 1 Ampoule Each: EM-4181 and EM-4182	2 x 1 mL
EM-4186	Set of Other Chlorophenolics Mixtures 1 Ampoule Each: EM-4183 and EM-4184	2 x 1 mL
EM-4180	Set of Chlorophenolics Mixtures 1 Ampoule Each: EM-4181, EM-4182, EM-4183 and EM-4184	4 x 1 mL

## U.S. EPA CLP SOW OLC03.2 Standards DMC Standard Mixtures

CATALOG #	COMPOUND	AMOUNT
ES-5037 <sup>new</sup>	CLP Semi-Volatiles DMC Stock Solution	1.2 mL in CH <sub>2</sub> Cl <sub>2</sub>
	<b>DMC Compounds</b>	<b>(µg/mL)</b>
	Phenol-d <sub>5</sub>	2000
	Bis-(2-Chloroethyl) ether-d <sub>8</sub>	2000
	2-Chlorophenol-d <sub>4</sub>	2000
	4-Methylphenol-d <sub>8</sub>	2000
	Nitrobenzene-d <sub>5</sub>	2000
	2-Nitrophenol-d <sub>4</sub>	2000
	2,4-Dichlorophenol-d <sub>3</sub>	2000
	4-Chloroaniline-d <sub>4</sub>	2000
	Dimethylphthalate-d <sub>6</sub>	2000
	Acenaphthylene-d <sub>8</sub>	2000
	4-Nitrophenol-d <sub>4</sub>	2000
	Fluorene-d <sub>10</sub>	2000
	4,6-Dinitro-2-methylphenol-d <sub>2</sub>	2000
	Anthracene-d <sub>10</sub>	2000
	Pyrene-d <sub>10</sub>	2000
	Benzo[a]pyrene-d <sub>12</sub>	2000

## U.S. EPA CLP SOW OLC03.2 Standards DMC Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
ES-5038 <sup>new</sup>	CLP Volatiles DMC Stock Solutions 1 ampoule each: ES-5038-1 and ES-5038-2	1 set
ES-5038-1 <sup>new</sup>	CLP Volatiles Non-Ketone DMC Stock Solution in Methanol-d <sub>4</sub>	1 mL
ES-5038-2 <sup>new</sup>	CLP Volatiles Ketone DMC Stock Solution in Methanol-d <sub>4</sub>	0.5 mL

DMC Compounds	ES-5038-1 Concentration (µg/mL)	ES-5038-2 Concentration (µg/mL)
Vinyl Chloride-d <sub>3</sub>	100	—
Chloroethane-d <sub>5</sub>	100	—
1,1-Dichloroethene-d <sub>2</sub>	100	—
2-Butanone-d <sub>5</sub>	—	200
Chloroform-d	100	—
1,2-Dichloroethane-d <sub>4</sub>	100	—
Benzene-d <sub>6</sub>	100	—
1,2-Dichloropropane-d <sub>6</sub>	100	—
Toluene-d <sub>8</sub>	100	—
<i>cis/trans</i> -1,3-Dichloropropene-d <sub>4</sub>	100	—
2-Hexanone-d <sub>5</sub>	—	200
Bromoform-d	100	—
1,1,2,2-Tetrachloroethane-d <sub>2</sub>	100	—
1,2-Dichlorobenzene-d <sub>4</sub>	100	—

ES-5038-10x <sup>new</sup>	CLP Volatiles DMC Stock Solutions (10x concentration) 1 ampoule each: ES-5038-1-10x (10x concentration of ES-5038-1) and ES-5038-2-10x (10x concentration of ES-5038-2)	1 set
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## U.S. EPA CLP SOW SOM01.X DMC Standard Mixtures

CIL is currently preparing DMC standards for EPAs new CLP SOW SOM01.x due out fall of 2004. Please contact CIL for more information.

## U.S. EPA Methods 1624/1625 Standard Mixtures

CATALOG #	COMPOUND	AMOUNT
ES-2036	Acid Extractables Mixture-3	1 mL in Benzene (D <sub>6</sub> ,99.6%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 222A)	4-Chloro-3-methylphenol (2,6-D <sub>2</sub> ,98%)	5000
(EPA 224A)	2-Chlorophenol (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 231A)	2,4-Dichlorophenol (3,5,6-D <sub>3</sub> ,98%)	5000
(EPA 234A)	2,4-Dimethylphenol (3,5,6-D <sub>3</sub> ,98%)	5000
(EPA 260A)	4,6-Dinitro-2-methylphenol (3,5-D <sub>2</sub> ,98%)	5000
(EPA 259A)	2,4-Dinitrophenol (3,5,6-D <sub>3</sub> ,98%)	5000
(EPA 257A)	2-Nitrophenol (3,4,5,6-D <sub>4</sub> ,98%)	5000
(EPA 258A)	4-Nitrophenol (2,3,5,6-D <sub>4</sub> ,98%)	5000
(EPA 264A)	Pentachlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	5000
(EPA 265A)	Phenol (2,3,4,5,6-D <sub>5</sub> ,98%)	5000
(EPA 631A)	4,5-Trichlorophenol (3,6-D <sub>2</sub> ,98%)	5000
(EPA 221A)	2,4,6-Trichlorophenol (3,5-D <sub>2</sub> ,98%)	5000

CATALOG #	COMPOUND	AMOUNT
ES-2022-A	Base Neutrals Mixture-4.1	1 mL in Benzene (D <sub>6</sub> ,99.6%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 277B)	Acenaphthylene (D <sub>8</sub> ,98%)	5000
(EPA 274B)	Benzo[ <i>b</i> ]fluoranthene (D <sub>12</sub> ,98%)	5000
(EPA 279B)	Benzo[ <i>g,h,i</i> ]perylene (D <sub>12</sub> ,98%)	5000
(EPA 273B)	Benzo[ <i>a</i> ]pyrene (D <sub>12</sub> ,98%)	5000
(EPA 242B)	Bis(2-Chloroisopropyl) Ether (D <sub>12</sub> ,95%)	5000
(EPA 226B)	1,3-Dichlorobenzene (D <sub>4</sub> ,98%)	5000
(EPA 235B)	2,4-Dinitrotoluene (3,5,6-D <sub>3</sub> ,98%)	5000
(EPA 231B)	Fluoranthene (D <sub>10</sub> ,98%)	5000
(EPA 252B)	Hexachloro-1,3-butadiene ( <sup>13</sup> C <sub>4</sub> ,98%)	5000
(EPA 253B)	Hexachlorocyclopentadiene (random- <sup>13</sup> C <sub>4</sub> ,99%)*	5000
(EPA 281B)	Phenanthrene (D <sub>10</sub> ,98%)	5000

\*NOTE: Hexachlorocyclopentadiene decomposes upon exposure to light and is usually not observed.



## U.S. EPA Methods 1624/1625 Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
ES-2002	Base Neutrals Mixture-4.3	1 mL in Benzene (D <sub>6</sub> ,99.6%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 241B)	4-Bromophenyl Phenyl Ether (Phenyl-D <sub>5</sub> ,98%)	5000
(EPA 220B)	2-Chloronaphthalene (D <sub>7</sub> ,98%)	5000
(EPA 240B)	4-Chlorophenyl Phenyl Ether (Phenyl-D <sub>5</sub> ,98%)	5000
(EPA 268B)	Di-n-butyl Phthalate (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 270B)	Diethyl Phthalate (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 269B)	Di-n-octyl Phthalate (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 209B)	Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	5000
(EPA 212B)	Hexachloroethane (1- <sup>13</sup> C,99%)	5000
(EPA 254B)	Isophorone (3-Methyl-D <sub>3</sub> ;2,4,4,6,6-D <sub>5</sub> ,98%)	5000
(EPA 208B)	1,2,4-Trichlorobenzene (3,5,6-D <sub>3</sub> ,98%)	5000

CATALOG #	COMPOUND	AMOUNT
ES-2041-A	Base Neutrals Dilution Mixture-5	10 mL in Benzene (D <sub>6</sub> ,99.6%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 602B)	2-Aminonaphthalene (Ring-D <sub>7</sub> ,98%)	500
(EPA 205B)	Benzidine (Ring-D <sub>8</sub> ,98%)	500
(EPA 511B)	Di-n-butylamine (D <sub>18</sub> ,98%)	500
(EPA 228B)	3,3,-Dichlorobenzidine (Ring-D <sub>6</sub> ,98%)	500
(EPA 607B)	Diphenylamine (D <sub>10</sub> ,98%)	500
(EPA 237B)	1,2-Diphenylhydrazine (D <sub>10</sub> ,98%)	500
(EPA 603B)	2-Methylpyridine (D <sub>7</sub> ,98%)	500
(EPA 262B)	N-Nitrosodiphenylamine (2,2',4,4',6,6'-D <sub>6</sub> ,98%)	500

CATALOG #	COMPOUND	AMOUNT
ES-2026	Base Neutrals Mixture-5.2	1 mL in Benzene (D <sub>6</sub> ,99.6%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 628B)	Carbazole-NH (D <sub>8</sub> ,98%)	5000
(EPA 261B)	N-Nitrosodimethylamine (Dimethyl-D <sub>6</sub> ,98%)	5000
(EPA 263B)	N-Nitrosodi-n-propylamine (Dipropyl-D <sub>14</sub> ,98%)	5000

## U.S. EPA Methods 1624/1625 Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
ES-2025-A	Base Neutrals Dilution Mixture 5.1 Contains one ampoule each of ES-2026 and ES-2041-A	1 set

CATALOG #	COMPOUND	AMOUNT
ES-2003	Base Neutrals Mixture-6.2	2 x 1 mL in 50% Benzene (D <sub>6</sub> ,99.6%) and 50% Methylene Chloride (D <sub>2</sub> ,99.9%)

Labeled Compounds	Concentration (µg/mL)
(EPA 201B) Acenaphthene (D <sub>10</sub> ,99%)	2500
(EPA 278B) Anthracene (D <sub>10</sub> ,98%)	2500
(EPA 275B) Benzo[ <i>k</i> ]fluoranthene (D <sub>12</sub> ,98%)	2500
(EPA 218B) Bis(2-chloroethyl) Ether (D <sub>8</sub> ,98%)	2500
(EPA 276B) Chrysene (D <sub>12</sub> ,98%)	2500
(EPA 280B) Fluorene (D <sub>10</sub> ,98%)	2500
(EPA 255B) Naphthalene (D <sub>8</sub> ,99%)	2500
(EPA 284B) Pyrene (D <sub>10</sub> ,98%)	2500

CATALOG #	COMPOUND	AMOUNT
ES-2004	Base Neutrals Mixture-6.3	1 mL in Benzene (D <sub>6</sub> ,99.6%)

Labeled Compounds	Concentration (µg/mL)
(EPA 272B) Benz[ <i>a</i> ]anthracene (D <sub>12</sub> ,98%)	5000
(EPA 267B) Butyl Benzyl Phthalate (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 243B) Bis(2-chloroethoxy)methane (D <sub>8</sub> ,98%)	5000
(EPA 266B) Bis(2-ethylhexyl) Phthalate (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 282B) Dibenz[ <i>a,h</i> ]anthracene (D <sub>14</sub> ,98%)	5000
(EPA 225B) 1,2-Dichlorobenzene (D <sub>4</sub> ,98%)	5000
(EPA 227B) 1,4-Dichlorobenzene (D <sub>4</sub> ,98%)	5000
(EPA 271B) Dimethyl Phthalate (3,4,5,6-D <sub>4</sub> ,99%)	5000
(EPA 236B) 2,6-Dinitrotoluene (methyl-D <sub>3</sub> ,98%)	5000
(EPA 256B) Nitrobenzene (D <sub>5</sub> ,99%)	5000
(EPA 629B) 1,2,3-Trichlorobenzene (4,5,6-D <sub>3</sub> ,98%)	5000

## U.S. EPA Methods 1624/1625 Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
ES-2005	Purgeables/Volatiles Mixture-E	1 mL in Methanol (D <sub>4</sub> ,99.8%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 204V)	Benzene (D <sub>6</sub> ,99.6%)	200
(EPA 248V)	Bromodichloromethane ( <sup>13</sup> C,99%)	200
(EPA 207V)	Chlorobenzene (D <sub>5</sub> ,99%)	200
(EPA 223V)	Chloroform ( <sup>13</sup> C,99%)	200
(EPA 213V)	1,1-Dichloroethane (2,2,2-D <sub>3</sub> ,98%)	200
(EPA 229V)	1,1-Dichloroethylene (2,2-D <sub>2</sub> ,98%)	200
(EPA 30V)	1,2-Dichloroethylene (1,2-D <sub>2</sub> ,98%)	200
(EPA 244V)	Methylene Chloride (D <sub>2</sub> ,99.9%)	200
(EPA 232V)	1,2-Dichloropropane (D <sub>6</sub> ,98%)	200
(EPA 238V)	Ethylbenzene (D <sub>10</sub> ,98%)	200
(EPA 285V)	Tetrachloroethylene ( <sup>13</sup> C <sub>2</sub> ,99%)	200
(EPA 286V)	Toluene (D <sub>8</sub> ,99.6%)	200
(EPA 211V)	1,1,1-Trichloroethane (2,2,2-D <sub>3</sub> ,98%)	200
(EPA 214V)	1,1,2-Trichloroethane (1,2,2-D <sub>3</sub> ,98%)	200

CATALOG #	COMPOUND	AMOUNT
ES-2032	Purgeables/Volatiles Mixture-E.1	1 mL in Methanol (D <sub>4</sub> ,99.8%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 206V)	Carbon Tetrachloride ( <sup>13</sup> C,99%)	50
(EPA 207V)	Chlorobenzene (D <sub>5</sub> ,99%)	50
(EPA 223V)	Chloroform ( <sup>13</sup> C,99%)	50
(EPA 213V)	1,1-Dichloroethane (2,2,2-D <sub>3</sub> ,98%)	50
(EPA 229V)	1,1-Dichloroethylene (2,2-D <sub>2</sub> ,98%)	50
(EPA 244V)	Methylene Chloride (D <sub>2</sub> ,99.9%)	50
(EPA 232V)	1,2-Dichloropropane (D <sub>6</sub> ,98%)	50
(EPA 214V)	1,1,2-Trichloroethane ( <sup>13</sup> C <sub>2</sub> ,99%)	50

## U.S. EPA Methods 1624/1625 Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
ES-2006	Purgeables/Volatiles Mixture-F	1 mL in Methanol (D <sub>4</sub> ,99.8%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 204V)	Benzene (D <sub>6</sub> ,99.6%)	50
(EPA 247V)	Bromoform ( <sup>13</sup> C,99%)	50
(EPA 210V)	1,2-Dichloroethane (D <sub>4</sub> ,99%)	50
(EPA 238V)	Ethylbenzene (D <sub>10</sub> ,98%)	50
(EPA 215V)	1,1,2,2-Tetrachloroethane (D <sub>2</sub> ,99.6%)	50
(EPA 286V)	Toluene (D <sub>8</sub> ,99.6%)	50
(EPA 211V)	1,1,1-Trichloroethane (2,2,2-D <sub>3</sub> ,98%)	50

CATALOG #	COMPOUND	AMOUNT
ES-2007	Purgeables/Volatiles Mixture-G	1 mL in Methanol (D <sub>4</sub> ,99.8%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 616V)	Acetone (D <sub>6</sub> ,99.9%)	250
(EPA 202V)	Acrolein (D <sub>4</sub> ,98%)	250
(EPA 203V)	Acrylonitrile (D <sub>3</sub> ,99%)	250
(EPA 246V)	Bromomethane (D <sub>3</sub> ,99.5%)	250
(EPA 614V)	2-Butanone (4,4,4-D <sub>3</sub> ,98%)	250
(EPA 216V)	Chloroethane (D <sub>5</sub> ,98%)	250
(EPA 245V)	Chloromethane (D <sub>3</sub> ,99%)	250
(EPA 615V)	Diethyl Ether (D <sub>10</sub> ,99%)	250
(EPA 288V)	Vinyl Chloride (D <sub>3</sub> ,98%)	250

CATALOG #	COMPOUND	AMOUNT
ES-2008	Purgeables/Volatiles Mixture-H	1 mL in Methanol (D <sub>4</sub> ,99.8%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 248V)	Bromodichloromethane ( <sup>13</sup> C,99%)	50
(EPA 251V)	Chlorodibromomethane ( <sup>13</sup> C,99%)	50
(EPA 30V)	1,2-Dichloroethylene (1,2-D <sub>2</sub> ,98%)	50
(EPA 33V)	1,3-Dichloropropene (D <sub>4</sub> ,98%)	50
(EPA 627V)	1,4-Dioxane (D <sub>8</sub> ,99%)	50
(EPA 285V)	Tetrachloroethylene ( <sup>13</sup> C <sub>2</sub> ,99%)	50
(EPA 287V)	1,1,2-Trichloroethylene ( <sup>13</sup> C <sub>2</sub> ,99%)	50

## U.S. EPA Methods 1624/1625 Standard Mixtures (continued)

CATALOG #	COMPOUND	AMOUNT
ES-2033	Semi-Volatiles Mixture-1/Appendix C	1 mL in Benzene (D <sub>6</sub> ,99.6%)
<b>Labeled Compounds</b>		<b>Concentration (µg/mL)</b>
(EPA 617B)	n-Decane (D <sub>22</sub> ,98%)	5000
(EPA 605B)	Dibenzofuran (D <sub>8</sub> ,98%)	5000
(EPA 604B)	Dibenzothiophene (D <sub>8</sub> ,98%)	5000
(EPA 612B)	Biphenyl (D <sub>10</sub> ,98%)	5000
(EPA 608B)	Diphenyl Ether (phenyl-D <sub>10</sub> ,98%)	5000
(EPA 606B)	n-Dodecane (D <sub>26</sub> ,98%)	5000
(EPA 621B)	n-Eicosane (D <sub>42</sub> ,98%)	5000
(EPA 619B)	n-Hexadecane (D <sub>34</sub> ,98%)	5000
(EPA 613B)	2-(4-Methylphenyl)propane (D <sub>14</sub> ,98%)	5000
(EPA 610B)	Styrene (2,3,4,5,6-D <sub>5</sub> ,98%)	5000
(EPA 609B)	α-Terpineol (D <sub>3</sub> ,98%)	5000
(EPA 623B)	n-Tetracosane (D <sub>50</sub> ,98%)	5000
(EPA 626B)	n-Triacontane (D <sub>62</sub> ,98%)	5000

CATALOG #	COMPOUND	AMOUNT
ES-2042	EPA1624/1625 Standards Kit	1 set
<b>Contains 1 ampoule of each of the following:</b>		
ES-2036	Acid Extractables Mixture-3	
ES-2022-A	Base Neutrals Mixture-4.1	
ES-2002	Base Neutrals Mixture-4.3	
ES-2025-A	Base Neutrals Mixture-5.1 (ES-2041-A and ES-2026)	
ES-2003	Base Neutrals Mixture-6.2	
ES-2004	Base Neutrals Mixture-6.3	
ES-2032	Purgeables/Volatiles Mixture-E.1	
ES-2006	Purgeables/Volatiles Mixture-F	
ES-2007	Purgeables/Volatiles Mixture-G	
ES-2008	Purgeables/Volatiles Mixture-H	
ES-2033	Semi-Volatiles Mixture-1/Appendix C	

## Isotope Labeled Pollutant Cocktails

CATALOG #	COMPOUND	AMOUNT
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EM-4071	Deuterated n-Alkane Solution (D,98%)	100 µl in Methanol (D <sub>4</sub> ,99.8%)
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Labeled Compounds	Concentration (µg/mL)
n-Pentane (D <sub>12</sub> ,98%)	1000
n-Hexane (D <sub>14</sub> ,98%)	1000
n-Heptane (D <sub>16</sub> ,98%)	1000
n-Octane (D <sub>18</sub> ,98%)	1000
n-Nonane (D <sub>20</sub> ,98%)	1000
n-Decane (D <sub>22</sub> ,98%)	1000
n-Dodecane (D <sub>26</sub> ,98%)	1000
n-Tridecane (D <sub>28</sub> ,98%)	1000
n-Tetradecane (D <sub>30</sub> ,98%)	1000
n-Pentadecane (D <sub>32</sub> ,98%)	1000

CATALOG #	COMPOUND	AMOUNT
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EM-4072	Deuterated Aromatic Solution (D,98%)	100 µl in Methanol (D <sub>4</sub> ,99.8%)
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Labeled Compounds	Concentration (µg/mL)
p-Cresol (D <sub>8</sub> ,98%)	1000
Benzene (D <sub>6</sub> ,99.6%)	1000
Toluene (D <sub>8</sub> ,99.6%)	1000
Ethylbenzene (D <sub>10</sub> ,98%)	1000
o-Xylene (D <sub>10</sub> ,98%)	1000
p-Xylene (D <sub>10</sub> ,98%)	1000
Phenol (D <sub>6</sub> ,98%)	1000
1-Methylnaphthalene (D <sub>10</sub> ,98%)	1000
2,4-Dimethylphenol (Ring-D <sub>3</sub> ,98%)	1000
Biphenyl (D <sub>10</sub> ,98%)	1000
Naphthalene (D <sub>8</sub> ,98%)	1000
o-Cresol (D <sub>8</sub> ,98%)	1000

## Isotope Labeled Pollutant Cocktails (continued)

CATALOG #	COMPOUND	AMOUNT
EM-4073	Deuterated Nitrogen Heteroaromatic Solution (D,98%)	100 µl in Methanol (D <sub>4</sub> ,99.8%)
	<b>Labeled Compounds</b>	<b>Concentration (µg/mL)</b>
	Pyridine (D <sub>5</sub> ,98%)	1000
	2-Picoline (D <sub>7</sub> ,98%)	1000
	4-Picoline (D <sub>7</sub> ,98%)	1000
	Aniline (Ring-D <sub>5</sub> ,98%)	1000
	Pyrrole (D <sub>5</sub> ,97%)	1000

CATALOG #	COMPOUND	AMOUNT
ES-2001	Synfuels Acids Mixture-1	1 mL in Benzene (D <sub>6</sub> ,99.6%)
	<b>Labeled Compounds</b>	<b>Concentration (µg/mL)</b>
	(EPA 500A) Benzoic Acid (Ring-D <sub>5</sub> ,99%)	5000
	(EPA 501A) Hexanoic Acid (D <sub>11</sub> ,98%)	5000

Please refer to pages 231-233 of the Pesticide and Chemical Weapon Standards section of this catalog for Pesticide and POP Calibration Solutions and Cocktails.

## Isotope Labeled Chlorobenzene & Chlorophenol Cocktails

CATALOG #	COMPOUND	AMOUNT
EM-1724-A	Chlorobenzene Cocktail Solution Mono, Di, Tri Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Isooctane
EM-1724-B	Chlorobenzene Cocktail Solution Mono, Di, Tri Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Methanol

Labeled Compounds	Concentration (µg/mL)
Chlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	100
1,4-Dichlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	100
1,2,4-Trichlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	100

CATALOG #	COMPOUND	AMOUNT
EM-1725-A	Chlorobenzene Cocktail Solution Tetra, Penta, Hexa Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Isooctane
EM-1725-B	Chlorobenzene Cocktail Solution Tetra, Penta, Hexa Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Methanol

Labeled Compounds	Concentration (µg/mL)
1,2,4,5-Tetrachlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	100
Pentachlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	100
Hexachlorobenzene ( <sup>13</sup> C <sub>6</sub> ,99%)	100

CATALOG #	COMPOUND	AMOUNT
EM-1726-A	Chlorophenol Cocktail Solution Mono, Di, Tri Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Isooctane
EM-1726-B	Chlorophenol Cocktail Solution Mono, Di, Tri Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Methanol

Labeled Compounds	Concentration (µg/mL)
4-Chlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	100
2,4-Dichlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	100
2,4,6-Trichlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	100

CATALOG #	COMPOUND	AMOUNT
EM-1727-A	Chlorophenol Cocktail Solution Tri, Tetra, Penta Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Isooctane
EM-1727-B	Chlorophenol Cocktail Solution Tri, Tetra, Penta Isomers ( <sup>13</sup> C <sub>6</sub> ,99%)	1.2 mL in Methanol

Labeled Compounds	Concentration (µg/mL)
2,4,5-Trichlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	100
2,3,4,5-Tetrachlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	100
Pentachlorophenol ( <sup>13</sup> C <sub>6</sub> ,99%)	100