

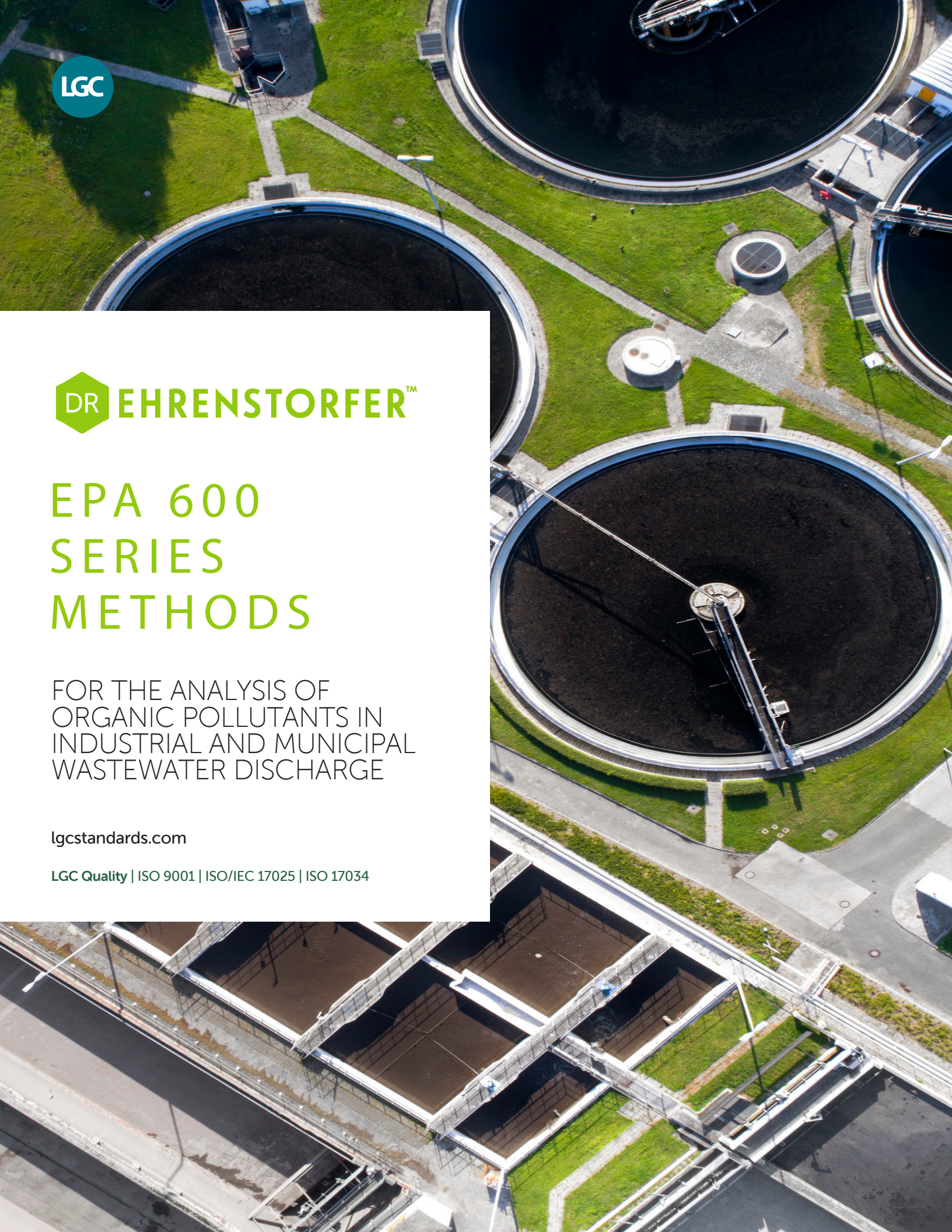


EPA 600 SERIES METHODS

FOR THE ANALYSIS OF
ORGANIC POLLUTANTS IN
INDUSTRIAL AND MUNICIPAL
WASTEWATER DISCHARGE

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LGC Quality | ISO 9001 | ISO/IEC 17025 | ISO 17034



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EPA 600 SERIES METHODS STANDARDS

For the analysis of organic pollutants
in industrial and municipal wastewater
discharge

Our driving force has been our unparalleled knowledge of customer needs while staying attuned to the latest regulatory changes and technology shifts. We are constantly researching ways to bring smarter solutions to your analytical challenges.

The Federal Water Pollution Control Act of 1948 was amended in 1972 and became known as the Clean Water Act (CWA). The CWA gave the EPA authority to set wastewater standards for industry and to set water quality standards for all surface waters. The CWA also made it unlawful to discharge any pollutant from a point source into navigable waters without a permit.

Permits are issued to qualified individuals and organizations under the National Pollutant Discharge Elimination System (NPDES). These permits ensure all wastewater discharge is safe and that humans and aquatic life are being protected.

These certified reference materials (ISO 17034) are specifically designed for ease of use and compliant with the EPA 600 series methods. These methods are approved by the EPA for the analysis of organics in wastewater under the CWA.



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EPA Method 608.3 Standards

Organochlorine Pesticide Mix	Product Number	Size
Solvent: Hexane/Toluene 1:1	DRE-GA09000808TH	1 ml
	DRE-GA09000809TH	1 ml Second Source
	DRE-GS09000810TH	5 x 1 ml
	DRE-GS09000811TH	5 x 1 ml Second Source
Analyte(s)	CAS	Concentration
Aldrin	309-00-2	2000 µg/mL
alpha-BHC	319-84-6	2000 µg/mL
beta-BHC	319-85-7	2000 µg/mL
delta-BHC	319-86-8	2000 µg/mL
gamma-BHC (Lindane)	58-89-9	2000 µg/mL
alpha-Chlordane	5103-71-9	2000 µg/mL
gamma-Chlordane	5103-74-2	2000 µg/mL
4,4'-DDD	72-54-8	2000 µg/mL
4,4'-DDE	72-55-9	2000 µg/mL
4,4'-DDT	50-29-3	2000 µg/mL
Dieldrin	60-57-1	2000 µg/mL
Endosulfan I	959-98-8	2000 µg/mL
Endosulfan II	33213-65-9	2000 µg/mL
Endosulfan sulfate	1031-07-8	2000 µg/mL
Endrin	72-20-8	2000 µg/mL
Endrin aldehyde	7421-93-4	2000 µg/mL
Heptachlor	76-44-8	2000 µg/mL
Heptachlor epoxide isomer B	1024-57-3	2000 µg/mL

Aroclor 1016 & 1260 Mix	Product Number	Size
Solvent: hexane	DRE-YS09000049HE	5 x 1 ml
Analyte(s)	CAS	Concentration
Aroclor 1016	12674-11-2	1000 µg/mL
Aroclor 1260	11096-82-5	1000 µg/mL

EPA Method 608.3 Standards

Single Analytes

SINGLE Analytes	CAS	Product Number	Size	Concentration	Solvents
Aroclor 1016	12674-11-2	DRE- GA09010455HE	1 mL	1000 µg/mL	n-Hexane
Aroclor 1221	11104-28-2	DRE- GA09010458HE	1 mL	1000 µg/mL	n-Hexane
Aroclor 1232	11141-16-5	DRE- GA09010461HE	1 mL	1000 µg/mL	n-Hexane
Aroclor 1242	53469-21-9	DRE- GA09010464HE	1 mL	1000 µg/mL	n-Hexane
Aroclor 1248	12672-29-6	DRE- GA09010467HE	1 mL	1000 µg/mL	n-Hexane
Aroclor 1254	11097-69-1	DRE- GA09010470HE	1 mL	1000 µg/mL	n-Hexane
Aroclor 1260	11096-82-5	DRE- GA09010473HE	1 mL	1000 µg/mL	n-Hexane
Technical Chlordane	12789-03-6	DRE-GA11200000HE	1 mL	100 µg/mL	Hexane
Toxaphene	8001-35-2	DRE-GA09011008IO	1 mL	1000 µg/mL	Isooctane
Toxaphene	8001-35-2	DRE-GA09010300ME	1 mL	500 µg/mL	Methanol
Hexachlorocyclopentadiene	77-47-4	DRE-GA09010351AC	1 mL	1000 µg/mL	Acetone

Quality Control Standards

Surrogate Mixtures	Product Number	Size
Solvent: acetone	DRE-GA09000812AC	1 mL
	DRE-GS09000814AC	5 x 1 mL
Decachlorobiphenyl	2051-24-3	200 µg/mL
2,4,5,6-tetrachloro-m-xylene	877-09-8	200 µg/mL
Solvent: 1:1 Tol:Hex	DRE-GA09000813TH	1 mL
Dibutyl Chlorendate	1770-80-5	2000 µg/mL
2,4,5,6-tetrachloro-m-xylene	877-09-8	2000 µg/mL

Internal Standard

Internal Standard	Product Number	Size
Solvent: acetone	DRE-GA09011009AC	1 mL
Analyte(s)	CAS	Concentration
Pentachloronitrobenzene	82-68-8	1000 µg/mL

Analyte Breakdown Mix

Organochlorine Pesticide System Evaluation Mix	Product Number	Size
Solvent: MtBE	DRE-GA09000815MB	1 mL
	DRE-GS09000816MB	5 x 1 mL
Analyte(s)	CAS	Concentration
4,4'- DDT	50-29-3	200 µg/mL
Endrin	72-20-8	100 µg/mL

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EPA Method 624.1 Standards

EPA Method 624.1 UltiMix	Product Number	Size
25 components in Methanol	DRE-GA09000825ME	1 ml
	DRE-GA09000827ME	1 ml Second Source
	DRE-GS09000826ME	5 x 1 ml
	DRE-GS09000828ME	5 x 1 ml Second Source
Analyte(s)	CAS	Concentration
1,1,1-Trichloroethane	71-55-6	2000 µg/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000 µg/mL
1,1,2-Trichloroethane	79-00-5	2000 µg/mL
1,1-Dichloroethane	75-34-3	2000 µg/mL
1,1-Dichloroethene	75-35-4	2000 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL
1,2-Dichloroethane	107-06-2	2000 µg/mL
1,2-Dichloropropane	78-87-5	2000 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL
Benzene	71-43-2	2000 µg/mL
Bromodichloromethane	75-27-4	2000 µg/mL
Bromoform	75-25-2	2000 µg/mL
Carbon tetrachloride	56-23-5	2000 µg/mL
Chlorobenzene	108-90-7	2000 µg/mL
Chloroform	67-66-3	2000 µg/mL
cis-1,3-Dichloropropene	10061-01-5	2000 µg/mL
Dibromochloromethane	124-48-1	2000 µg/mL
Ethylbenzene	100-41-4	2000 µg/mL
Methylene chloride	75-09-2	2000 µg/mL
Tetrachloroethene	127-18-4	2000 µg/mL
Toluene	108-88-3	2000 µg/mL
trans-1,2-Dichloroethene	156-60-5	2000 µg/mL
trans-1,3-Dichloropropene	10061-02-6	2000 µg/mL
Trichloroethene	79-01-6	2000 µg/mL

EPA Method 624.1 Standards

Gases Mix	Product Number	Size
6 components in Methanol	DRE-GA09000413ME	1 ml
	DRE-GA09000830ME	1 ml Second Source
	DRE-GS09000829ME	5 x 1 ml
	DRE-GS09000831ME	5 x 1 ml Second Source
Analyte(s)	CAS	Concentration
bromomethane	74-83-9	200 µg/mL P/T Methanol
chloroethane	75-00-3	200 µg/mL P/T Methanol
chloromethane	74-87-3	200 µg/mL P/T Methanol
dichlorodifluoromethane	75-71-8	200 µg/mL P/T Methanol
trichlorofluoromethane	75-69-4	200 µg/mL P/T Methanol
vinyl chloride	75-01-4	200 µg/mL P/T Methanol

Mix 1	Product Number	Size
11 components in Methanol	DRE-GA09000817ME	1 ml
	DRE-GA09000821ME	1 ml Second Source
	DRE-GS09000818ME	5 x 1 ml
	DRE-GS09000822ME	5 x 1 ml Second Source
Analyte(s)	CAS	Concentration
Benzene	71-43-2	2000 µg/mL
Carbon tetrachloride	56-23-5	2000 µg/mL
Chlorobenzene	108-90-7	2000 µg/mL
Dibromochloromethane	124-48-1	2000 µg/mL
1,1-Dichloroethane	75-34-3	2000 µg/mL
1,1-Dichloroethene	75-35-4	2000 µg/mL
1,2-Dichloropropane	78-87-5	2000 µg/mL
Methylene chloride	75-09-2	2000 µg/mL
Tetrachloroethene	127-18-4	2000 µg/mL
1,1,2-Trichloroethane	79-00-5	2000 µg/mL
Trichloroethene	79-01-6	2000 µg/mL

EPA Method 624.1 Standards

Mix 2	Product Number	Size
14 components in Methanol	DRE-GA09000819ME	1 ml
	DRE-GA09000823ME	1 ml Second Source
	DRE-GS09000820ME	5 x 1 ml
	DRE-GS09000824ME	5 x 1 ml Second Source
Analyte(s)	CAS	Concentration
1,1,1-Trichloroethane	71-55-6	2000 µg/mL
1,1,2,2-Tetrachloroethane	79-34-5	2000 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL
1,2-Dichloroethane	107-06-2	2000 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL
Bromodichloromethane	75-27-4	2000 µg/mL
Bromoform	75-25-2	2000 µg/mL
Chloroform	67-66-3	2000 µg/mL
cis-1,3-Dichloropropene	10061-01-5	2000 µg/mL
Ethylbenzene	100-41-4	2000 µg/mL
Toluene	108-88-3	2000 µg/mL
trans-1,2-Dichloroethene	156-60-5	2000 µg/mL
trans-1,3-Dichloropropene	10061-02-6	2000 µg/mL

2-Chloroethylvinyl ether	Product Number	Size
In Methanol	DRE-GA09010380ME	1 ml
	DRE-GA09011020ME	1 ml Second Source
	CAS	Concentration
	110-75-8	2000 µg/mL

Acrolein - Made to order	Product Number	Size
In Water	DRE-GA09010384WA	1 ml
	DRE-GA09011026WA	1 ml Second Source
In Methanol	DRE-GA09010384ME	1 ml
	DRE-GA09011022ME	1 ml Second Source
	CAS	Concentration
	107-02-8	5000 µg/mL

EPA Method 624.1 Standards

Acrylonitrile	Product Number	Size
In Methanol	DRE-GA09010525ME	1 ml
	DRE-GA09011023ME	1 ml Second Source
	CAS	Concentration
	107-13-1	1000 µg/mL

Styrene	Product Number	Size	Concentration
In Methanol	DRE-GA09010506ME	1 ml	2000 µg/mL
	DRE-YA16982000ME	Second Source	5000 µg/mL
	CAS		
	100-42-5		

Quality Control Standards

Internal Standards Mixture	Product Number	Size
3 components in Methanol	DRE-GA09000840ME	1 ml
Analyte(s)	CAS	Concentration
bromochloromethane	74-97-5	1500 µg/mL
2-bromo-1-chloropropane	3017-95-6	1500 µg/mL
1,4-dichlorobutane	110-56-5	1500 µg/mL

Surrogates Mixture	Product Number	Size
3 components in Methanol	DRE-GA09000839ME	1 ml
Analyte(s)	CAS	Concentration
4-bromofluorobenzene (BFB)	460-00-4	2000 µg/mL
fluorobenzene	462-06-6	2000 µg/mL
pentafluorobenzene	363-72-4	2000 µg/mL

EPA Method 625.1 Standards

625.1 Mix		Product Number	Size
49 components In Methylene Chloride		DRE-GA09000853DI	1 ml
Concentration	1000 µg/mL	DRE-GA09000854DI	1 ml Second Source
		DRE-GS09000855DI	5 x 1 ml
		DRE-GS09000856DI	5 x 1 ml Second Source
Analyte(s)	CAS	Analyte(s)	CAS
Acenaphthene	83-32-9	2,4-Dinitrophenol	51-28-5
Acenaphthylene	208-96-8	2,4-Dinitrotoluene	121-14-2
Anthracene	120-12-7	2,6-Dinitrotoluene	606-20-2
Benz(a)anthracene	56-55-3	Di-n-octylphthalate	117-84-0
Benzo(a)pyrene	50-32-8	3,3'-Dichlorobenzidine	91-94-1
Benzo(b)fluoranthene	205-99-2	Fluoranthene	206-44-0
Benzo(ghi)perylene	191-24-2	Fluorene	86-73-7
Benzo(k)fluoranthene	207-08-9	Hexachlorobenzene	118-74-1
Benzyl butyl phthalate	85-68-7	Hexachloro-1,3-butadiene	87-68-3
Bis(2-chloroethoxy)methane	111-91-1	Hexachloroethane	67-72-1
Benidine	92-87-5	Indeno(1,2,3-cd)pyrene	193-39-5
Bis(2-ethylhexyl)phthalate	117-81-7	Isophorone	78-59-1
4-Bromophenyl phenyl ether	101-55-3	Naphthalene	91-20-3
4-Chloro-3-methylphenol	59-50-7	Nitrobenzene	98-95-3
2-Chloronaphthalene	91-58-7	2-Nitrophenol	88-75-5
2-Chlorophenol	95-57-8	4-Nitrophenol	100-02-7
4-Chlorophenyl phenyl ether	7005-72-3	N-Nitroso-di-n-propylamine	621-64-7
Chrysene	218-01-9	2,2'-Oxybis(1-chloropropane)	108-60-1
Dibenz(a,h)anthracene	53-70-3	Pentachlorophenol	87-86-5
2,4-Dichlorophenol	120-83-2	Phenanthrene	85-01-8
Diethylphthalate	84-66-2	Phenol	108-95-2
2,4-Dimethylphenol	105-67-9	Pyrene	129-00-0
Dimethylphthalate	131-11-3	1,2,4-Trichlorobenzene	120-82-1
Di-n-butylphthalate	84-74-2	2,4,6-Trichlorophenol	88-06-2
4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1		

EPA Method 625.1 Standards

Quality Control Standards

Internal Standards	Product Number	Concentration	Size
In Methylene Chloride	DRE-GA09000428DI	2000 µg/mL	1 mL
	DRE-GS09000428DI	2000 µg/mL	5 x 1 mL
	DRE-GA09000429DI	4000 µg/mL	1 mL
	DRE-GS09000429DI	4000 µg/mL	5 x 1 mL
Analyte(s)	CAS		
Acenaphthene-d10	15067-26-2		
Chrysene-d12	1719-03-5		
1,4-Dichlorobenzene-d4	3855-82-1		
Naphthalene-d8	1146-65-2		
Perylene-d12	1520-96-3		
Phenanthrene-d10	1517-22-2		
1,4-Dioxane-d8	17647-74-4		

Surrogates	Product Number	Size
In Methanol	DRE-GS09000857ME	5 x 1 mL
Analyte(s)	CAS	Concentration
Aniline-d5	4165-61-1	1000 µg/mL
Nitrobenzene-d5	4165-60-0	1000 µg/mL
Pyridine-d5	7291-22-7	1000 µg/mL
2-Fluorophenol	367-12-4	1000 µg/mL
2-Nitrophenol-d4	93951-78-1	1000 µg/mL
Phenol-d5	4165-62-2	1000 µg/mL

GPC Calibration Mix	Product Number	Size
In Methylene Chloride	DRE-GA09000858DI	5 mL
Analyte(s)	CAS	Concentration
Corn oil	8001-30-7	250000 µg/mL
bis(2-ethylhexyl) phthalate	117-81-7	10000 µg/mL
Methoxychlor	72-43-5	2000 µg/mL
Perylene	198-55-0	200 µg/mL
Sulfur	7704-34-9	800 µg/mL

EPA Method 625.1 Standards

DFTPP Tuning Compound	Product Number	Size	Concentration
In Methanol	DRE-GA09010393AC	1 mL	500 µg/mL
	DRE-GS09010393AC	5 x 1 mL	500 µg/mL
In Acetone	DRE-GA09010394AC	1 mL	2500 µg/mL
	DRE-GS09010394AC	5 x 1 mL	2500 µg/mL
Analyte(s)	CAS		
Decafluorotriphenylphosphine	5074-71-5		

Single analytes	CAS	Product Number	Size	Concentration
Benzidine	92-87-5	DRE-GA09011040DI	1 mL	2000 µg/mL
In Methylene Chloride		DRE-GA09011041DI	1 mL Second Source	2000 µg/mL
Pentachlorophenol	87-86-5	DRE-YS09010008ME	5 x 1 mL	1000 µg/mL
In Methanol				
N-nitrosodimethylamine	62-75-9	DRE-GA09011034ME	1 mL	1000 µg/mL
In Methanol		DRE-GA09011035ME	1 mL Second Source	1000 µg/mL
		DRE-GS09011036ME	5 x 1 mL	1000 µg/mL
		DRE-GS09011037ME	5 x 1 mL Second Source	1000 µg/mL
bis(2-chloroethyl)ether	111-44-4	DRE-GA09011038ME	1 mL	1000 µg/mL
In Methanol		DRE-GA09011039ME	1 mL Second Source	1000 µg/mL
Hexachloropentadiene	77-47-4	DRE-GA09010351AC	1 mL	1000 µg/mL
In Acetone				

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