

Drinking Water Standards

Your essential resource for Agilent ULTRA chemical standards











Table of contents

Introduction	3	EPA Method 524.2, 524.3, 524.4	19
About Agilent standards	3	Safe Drinking Water Act	20
Products	3	EPA Method 525.1	21
Markets	3	EPA Method 525.2	22
Custom products	3	EPA Method 526	23
Quality control laboratory	4	EPA Method 527	24
Quality control validation levels	4	EPA Method 528	25
Triple certification	5	EPA Method 529	26
Level 2 reference material Certificate of Analysis	6	EPA Method 531.1, 531.2	27
GHS compliance	7	EPA Method 532	28
		EPA Method 535	29
EPA Methods		EPA Method 536	30
EPA Method 501	8	EPA Method 539	31
EPA Method 502.2	9	EPA Method 547	32
EPA Method 503.1	10	EPA Method 548, 548.1	32
EPA Method 504, 504.1	11	EPA Method 549.2	33
EPA Method 505	12	EPA Method 550, 550.1	33
EPA Method 506	13	EPA Method 551.1	34
EPA Method 507	14	EPA Method 552, 552.1, 552.2, 552.3	35
EPA Method 508, 508.1	15	EPA Method 553	36
EPA Method 508A	15	EPA Method 554	37
EPA Method 509	16	EPA Method 555	37
EPA Method 515.1, 515.2, 515.3, 515.4	17	EPA Method 556, 556.1	38
EPA Method 521	18	EPA Method 557	38
EPA Method 523	18	Agilent Service and Support	39

About Agilent standards

Agilent is a global leader in chromatography and spectroscopy, as well as an expert in chemical standards manufacturing. Agilent offers certified reference materials, QC standards, reagents, and buffers to complement our extensive line of instruments, columns, sample preparation products, consumables, and services. Our portfolio provides laboratories with full workflow solutions for efficient, accurate results.

Agilent has an extensive list of chemical standards, matched by expertise in designing and formulating custom standards to exacting specifications. Agilent products are available through our global distribution channels, and with our logistics capabilities we offer rapid turnaround time on all orders.

With over 40 years of technical expertise in measurement science, we provide innovative, quality products to address the entire analytical chemistry workflow for laboratories around the world.

Products

- Certified reference materials (CRM)
- Reference materials (RM)
- Calibration standards

- IQ/OQ/PQ standards
- Linearity standards
- Quality check samples
- Buffers and reagents
- Wash solution and diluents

Markets

Environmental	Food and Beverages	Life Science	Industrial and Mining
 Petrochemicals 	– Allergens	 Pharmaceutical 	Petrochemical
- PCB/PBB	 Amino and nitroaromatics 	 Biopharma 	Matrix oils
 Halocarbons 	 Pharma and vet drugs 	 Academic and 	Metals in biodiesel
VOC/Semi-VOC	– PAHs	research	 Organometallic
 Pesticides 	Lipids	University	organometanie
 Dioxins and furans 	 Food authenticity 	Governmental	Elemental Analysis
	Phenols		 Single element
	– Dyes		 Multi-element

Custom products

Do you need a custom defined reference material or other chemical solution unique to your laboratory or testing procedure? If the product you require is not available as an Agilent product, we can prepare it for you on a custom basis. Custom reference materials are a fast, economical way to meet your specific laboratory needs.

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Quality control laboratory

Agilent operates an ISO 17025 accredited quality control laboratory and is accredited to ISO Guide 34 as a reference material producer for the manufacture of certified reference materials (CRM).

Rely on the expertise of our applications development group for:

- Method development
- Pre- and postfill analysis
- Stability testing and protocols
- Homogeneity testing



Quality control validation levels

Chemical standards manufactured by Agilent are supplied with a lot-specific certificate of analysis (C of A) that reflects the associated quality control validation level. Certificates of analysis can ship with the product and are available online. All Agilent products, unless otherwise stated, are Level II - ISO Guide 34 reference materials.

		Reported Value	Reported Uncertainty	Former Name	Solutions	Neats	Lead Time (Customs)
Level I	ISO Guide 34 RM	True (calculated)	U _{char}	Gravimetric	Υ	Υ	5 business days
Level II	ISO Guide 34 RM	True (analytical)	U _{char}	Full validation	Υ	Υ	7 to 10 business days
Level III	ISO Guide 34	Certified	U _{exp}	ISO Guide 34	Υ		15 to 20 business days

Level I solution: A reference material (RM) prepared gravimetrically in accordance with ISO Guide 34 and under the Agilent ISO 9001 registered quality system. The neat materials used for the product are verified by an Agilent ISO 17025 laboratory and under the Agilent ISO Guide 34 accreditation. For each analyte, the true value, with its uncertainty value calculated at 95% confidence level, is reported.

Level I neat: RM prepared in accordance with ISO Guide 34 and under the Agilent ISO 9001 registered quality system. The true value (% purity) is reported.

Level II solution: RM prepared gravimetrically in accordance with ISO Guide 34 and under the Agilent ISO 9001 registered quality system. The neat materials used for the product are verified by an Agilent ISO 17025 laboratory and under the Agilent ISO Guide 34 accreditation. The analyte concentrations are verified by an Agilent ISO 17025 accredited laboratory. For each analyte, the true value, with its uncertainty value calculated at 95% confidence level, is reported.

Level II neat: RM prepared in accordance with ISO Guide 34 and under the Agilent ISO 9001 registered quality system. The materials used for this product are verified by the Agilent ISO 17025 laboratory and under the Agilent ISO Guide 34 accreditation. The true value (% purity), with its uncertainty value calculated at 95% confidence level, is reported.

Level III solution: RM prepared gravimetrically in accordance with ISO Guide 34 and under the Agilent ISO 9001 registered quality system. The neat materials used for this product are verified by the Agilent ISO 17025 laboratory and under the Agilent ISO Guide 34 accreditation. The analyte concentrations are verified by an Agilent ISO 17025 accredited laboratory. For each analyte, the certified value is reported with its uncertainty value calculated as the expanded uncertainty, in accordance with ISO Guide 35.

Triple certification

Agilent is committed to product integrity by offering customers the assurance of triple certification to ISO standards.

Agilent operates under an ISO 9001 registered quality management system, where an accrediting body (TUV) attests to the quality of our methods, procedures, testing, production, and record keeping.

Our quality control laboratory is accredited to ISO 17025 (ANAB) for technical competence to perform testing of organic and inorganic materials and certified reference materials, as defined in our scope, accessible online at www.agilent.com/chem/17025

Agilent is further accredited to ISO Guide 34 (ANAB) for technical competence as a reference material producer of certified reference materials. This requires Agilent to identify and document the major components of uncertainty including homogeneity, short- and long-term stability, and uncertainty due to analytical characterization and manufacturing.

The most current Agilent certifications are accessible at www.agilent.com/quality

Tips and tools

To view our entire portfolio of over 7,000 standards, all manufactured under ISO 17025 Guide 34, visit www.agilent.com/chem/standards

Level 2 reference material Certificate of Analysis



Certificate of Analysis ISO Guide 34

C4-C24 Even Carbon Saturated FAME Mix

 Product Number:
 5191-4278
 Page:
 1 of 1

 Lot Number:
 CR-5364
 Lot Issue Date: 17-Nov-2017
 Expiration Date: 31-Dec-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
methyl butanoate	000623-42-7	RM04575	1005 ± 5 μg/mL
methyl hexanoate	000106-70-7	NT01630	1005 ± 5 μg/mL
methyl octanoate	000111-11-5	NT01094	1003 ± 5 μg/mL
methyl decanoate	000110-42-9	NT00187	1004 ± 5 μg/mL
methyl laurate	000111-82-0	NT01095	1003 ± 5 μg/mL
methyl tetradecanoate	000124-10-7	NT00188	1003 ± 5 μg/mL
methyl palmitate	000112-39-0	RM07128	1001 ± 5 μg/mL
methyl octadecanoate	000112-61-8	RM12285	1002 ± 5 μg/mL
methyl arachidate	001120-28-1	RM11588	1003 ± 5 μg/mL
methyl docosanoate	000929-77-1	NT01096	1004 ± 5 μg/mL
tetracosanoic acid methyl ester	002442-49-1	NT01097	1004 ± 5 μg/mL

Matrix: hexane

Storage: Store Refrigerated (2° - 8°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.





Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System



250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

An example of a Certificate of Analysis for an Agilent reference material.

GHS compliance

Agilent is a certified GHS author for SDS and GHS compliant labeling. Chemical products manufactured and distributed by Agilent are compliant with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Safety Data Sheets (SDS) and labels are prepared in accordance with regulations and in the following languages:

European CLP Regulation

Regulation 1272/2008

German

Italian Chinese (standard Mandarin) Japanese Czech Korean Danish Polish Dutch Portuguese English Romanian Estonian Russian Finnish Spanish French Swedish

USA GHS-OSHA Regulation

Hazcom 2012

- English
- Spanish
- French

Chinese GHS Regulation

GB/T 17519-2013 and GB/T 16483-2008

- Chinese (standard Mandarin)
- English

Additional languages are available upon request.
As regulations are updated and expanded, Agilent will maintain up-to-date records online at www.agilent.com

Tips and tools

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Trihalomethanes

Method 501 is a purge-and-trap method for measurement of total trihalomethanes using GC/ECD. These standards may be used for Methods 501.1, 501.2, and 501.3

Recommended Method 501 Trihalomethanes Mixtures

Description	Analytes	Total Vol.	Part No. 100 µg/mL	Part No. 200 µg/mL	Part No. 2,000 µg/mL	Part No. 5,000 μg/mL
4 analytes, in methanol	Bromodichloromethane Bromoform Chloroform Dibromochloromethane	1 x 1 mL	THM-501N-1	THM-511-1	THM-515-1	THM-521-1

Performance Check Mixture

Description	Analyes		Total Vol.	Part No.
8 analyes, at 2,000 µg/mL, in methanol	Benzene Carbon tetrachloride 1,4-Dichlorobenzene 1,2-Dichloroethane	1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride	1 x 1 mL	EPA 100A-1

Promulgated VOC Mixture

Description	Analyes		Total Vol.	Part No.
12 analytes, at 200 μg/mL, in methanol	Chlorobenzene 1,2-Dichlorobenzene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane Ethylbenzene	o-Xylene m-Xylene p-Xylene Styrene Tetrachloroethene Toluene	1 x 1 mL	DWM-591A-1

Trihalomethanes Kit

Description	Components		Total Vol.	Part No.
Contains 5 ampoules, at 100 µg/mL, in methanol	Bromodichloromethane Bromoform plus Trihalomethanes mixture (THM-501N-1)	Chloroform Dibromochloromethane	1 x 1 mL	THK-501

Method 501	Part No.
Calibration standards	THM-501N-1 THM-511-1 THM-521-1

EPA Method 502.2

Volatile organic compounds

EPA Method 502.2 is an enhanced and expanded version of 502.1. It is a purge-and-trap GC method, but uses a capillary column to detect a more efficient separation. Detection is carried out using a photoionization detector, in series with either an electrolytic conductivity or microcoulometric detector, enabling determination of all 60 analytes of interest.

Recommended Method 502.2 VOC Mixtures

Description	Analytes			Total Vol.	Part No. 200 μg/mL	Part No. 2,000 µg/mL
60 analytes, in methanol	Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene	1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene cis-1,2-Dichloroethene trans-1,2-Dichloroethene Dichlorodifluoromethane 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene	o-Xylene m-Xylene p-Xylene sec-Butylbenzene Styrene tert-Butylbenzene 1,1,2,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,2,3-Trichlorobenzene 1,1,2-Trichloroethane	1 x 1 mL	200 μg/mL DWM-588-1	2,000 µg/mL DWM-588-1
	Dibromochloromethane 1,2-Dibromo-3-chloropropane Dibromomethane 1,2-Dibromoethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	Hexachlorobutadiene Isopropylbenzene 4-Isopropyltoluene Methylene chloride Naphthalene n-Butylbenzene n-Propylbenzene	Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride			

Individual Internal and Surrogate Standards for Method 502

Standards	Concentration	Total Vol.	Part No.
2-Bromo-1-chloropropane 1,4-Dichlorobutane Fluorobenzene 1-Chloro-2-fluorobenzene	1,000 μg/mL, in methanol	1 x 1 mL	STS-191-1 STS-201-1 STS-161-1 STS-451-1
2-Bromo-1-chloropropane 1-Chloro-2-fluorobenzene 1,4-Dichlorobutane Fluorobenzene Methylene chloride-d ₂	2,000 μg/mL, in methanol	1 x 1 mL	STS-190-1 STS-450-1 STS-200-1 STS-160-1 IST-510-1

Recommended Method 502.2 Internal Standard Mixture

Description	Analytes	Total Vol.	Part No.
2 analytes, at 2,000 μg/mL, in methanol	2-Bromo-1-chloropropane Fluorobenzene	1 x 1 mL	STM-240N-1

Recommended Standards

Method 502.2	Part No.
Calibration standards	DWM-580-1 DWM-588-1
Internal standard	STM-240N-1

Tips and tools

Find more EPA Method standards online at www.agilent.com/chem/standards

EPA Method 503.1

Volatile aromatics and unsaturated organic compounds

Method 503.1 is applicable for the determination of volatile aromatic and unsaturated compounds. It is a purge-and-trap method, using GC with a high-temperature photoionization detector.

Recommended Method 503.1 Aromatics and Alkenes Mixture

Description	Analytes		Total Vol.	Part No.
28 analytes, at 200 μg/mL, in methanol	Benzene Bromobenzene n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Chlorobenzene 2-Chlorotoluene 4-Chlorotoluene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Ethylbenzene Hexachlorobutadiene Isopropylbenzene	4-Isopropyltoluene Naphthalene n-Propylbenzene Styrene Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene Trichloroethene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene o-Xylene m-Xylene p-Xylene	1 x 1 mL	DWM-503-1

Aromatic Hydrocarbons Mixture

Description	Analyes		Total Vol.	Part No.
16 analytes, at 200 μg/mL, in methanol	Benzene n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Ethylbenzene Isopropylbenzene 4-Isopropyltoluene Naphthalene	n-Propylbenzene Styrene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene o-Xylene m-Xylene p-Xylene	1 x 1 mL	DWM-550-1

Halocarbons Mixture

Description	Analyes		Total Vol.	Part No.
12 analytes, at 200 μg/mL, in methanol	Bromobenzene Chlorobenzene 2-Chlorotoluene 4-Chlorotoluene 1,2-Dichlorobenzene 1,3-Dichlorobenzene	1,4-Dichlorobenzene Hexachlorobutadiene Tetrachloroethene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene Trichloroethene	1 x 1 mL	DWM-563-1

Recommended Method 503.1 Internal and Surrogate Standards

Description	Standard	Total Vol.	Part No. 200 µg/mL	Part No. 2,000 μg/mL
1 standard, in methanol	α, α, α -Trifluorotoluene	1 x 1 mL	STS-221-1	STS-220N-1

Method 503.1	Part No.
Calbration standard	DWM-503-1
Internal standard	STS-220N-1

EPA Method 504, 504.1

EDB, DBCP, and 123-TCP

Method 504 is used to measure low concentrations of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB). It is an extraction method, using GC with a capillary column and electron capture detector. Method 504.1 adds 1,2,3-trichloropropane to the analyte list.

Recommended DBCP/EDB Mixtures

Description	Analytes	Total Vol.	Part No. 200 µg/mL	Part No. 2,000 μg/mL
2 analytes, in methanol	1,2-Dibromo-3-chloropropane 1,2-Dibromoethane	1 x 1 mL 1 x 1 mL	DWM-504N-1	HCM-812-1

Recommended Method 504.1 Mixture

Description	Analytes	Total Vol.	Part No.
3 analytes, at 200 μg/mL, in methanol	1,2-Dibromo-3-chloropropane 1,2-Dibromoethane 1,2,3-Trichloropropane	1 x 1 mL	DWM-514-1

Tips and tools

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Organohalide pesticides and Aroclors

Method 505 is used to analyze for organohalide pesticides and commercial PCBs. It is a microextraction method, using GC with a capillary column and electron capture detector.

Recommended Method 505 Organochlorine Pesticides Mixture

Description	Analytes and Conc	Analytes and Concentration				
12 analytes, in acetone	Alachlor Aldrin Atrazine Y-BHC (lindane) Dieldrin Endrin	50 μg/mL 20 μg/mL 500 μg/mL 20 μg/mL 20 μg/mL 20 μg/mL	Heptachlor Heptachlor epoxide (B) Hexachlorobenzene Hexachlorocyclopentadiene Methoxychlor Simazine	20 μg/mL 20 μg/mL 10 μg/mL 20 μg/mL 200 μg/mL 100 μg/mL	1 x 1 mL	PPM-505D-1

Recommended Method 505 Organochlorine Pesticides Mixture

Description	Analytes and Concentration					Part No.
16 analytes, in acetone	Alachlor Aldrin Atrazine Y-BHC (lindane) \alpha-Chlordane Y-Chlordane Dieldrin Endrin	10 µg/mL 1 µg/mL 250 µg/mL 1 µg/mL 1 µg/mL 1 µg/mL 1 µg/mL 1 µg/mL	Heptachlor Heptachlor epoxide (B) Hexachlorobenzene Hexachlorocyclopentadiene Methoxychlor cis-Nonachlor trans-Nonachlor Simazine	1 µg/mL 1 µg/mL 1 µg/mL 1 µg/mL 5 µg/mL 1 µg/mL 1 µg/mL 250 µg/mL	1 x 1 mL	PPM-505E-1

Phthalate and adipate esters

Method 506 is an extraction method, using GC with a capillary column and a photoionization detector.

Recommended Method 506 Phthalates Mixtures

Description	Analytes		Total Vol.	Part No. 1,000 µg/mL in Isooctane	Part No. 200 µg/mL in Methanol
7 analytes	Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Di-n-butyl phthalate	Diethyl phthalate Dimethyl phthalate Di- <i>n</i> -octyl phthalate	1 x 1 mL	PSM-506-1	PSM-520-1

Phthalates Mixture

Description	Analytes and Concentration					Part No.
7 analytes, in methanol	Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Di- <i>n</i> -butyl phthalate	1,200 μg/mL 250 μg/mL 250 μg/mL 100 μg/mL	Diethyl phthalate Dimethyl phthalate Di- <i>n</i> -octyl phthalate	100 μg/mL 100 μg/mL 650 μg/mL	1 x 1 mL	PSM-516-1

Phthalate Mixture

Description	Analytes	Total Vol.	Part No.
2 analytes, at 100 μg/mL, in acetone	Butyl benzyl phthalate Di- <i>n</i> -butyl phthalate	1 x 1 mL	PSM-510-1

Phthalates Mixture

Description	Analytes		Total Vol.	Part No.
8 analytes, at 1,000 μg/mL, in isooctane	Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Diethyl phthalate	Diisobutyl phthalate Dimethyl phthalate Di- <i>n</i> -butyl phthalate Di- <i>n</i> -octyl phthalate	1 x 1 mL	PSM-516-1

Phthalates Mixture

Description	Analytes		Total Vol.	Part No.
8 analytes, at 1,000 μg/mL in isooctane	Bis(2-ethylhexyl) adipate Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Diethyl phthalate	Diisobutyl phthalate Dimethyl phthalate Di- <i>n</i> -butyl phthalate Di- <i>n</i> -octyl phthalate	1 x 1 mL	PSM-516-1

Method 506	Part No.
Calibration standard	PSM-506-1

Nitrogen and phosphorus containing pesticides

Method 507 is used to determine nitrogen and phosphorus containing pesticides. It is an extraction method, using GC with a capillary column and a nitrogen-phosphorus detector.

Recommended Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
6 analytes, at 1,000 µg/mL, in methyl <i>tert</i> -butyl ether	Ametryn Cycloate Disulfoton	Fenamiphos Merphos Prometon	1 x 1 mL	NPM-101-1

Recommended Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
9 analytes, at 1,000 μg/mL, in methyl <i>tert</i> -butyl ether	Atrazine Diphenamid EPTC Ethoprop Mevinphos	Prometryn Propazine Terbutryn Triadimefon	1 x 1 mL	NPM-102-1

Recommended Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
9 analytes, at 1,000 μg/mL, in methyl <i>tert</i> -butyl ether	Butachlor Carboxin Diazinon Metolachlor MGK-264, mixed isomers	Metribuzin Norflurazon Terbufos Vernolate	1 x 1 mL	NPM-103-1

Recommended Method 507 Surrogate Standard Solution

Standard	Concentration	Total Vol.	Part No.
1,3-Dimethyl-2-nitrobenzene	250 μg/mL, in methyl <i>tert</i> -butyl ether	1 x 1 mL	PPS-100-1

Recommended Method 507 Internal Standard Solution

Standard	Concentration	Total Vol.	Part No.
Triphenyl phosphate (TPP)	500 μg/mL, in methyl <i>tert</i> -butyl ether	1 x 1 mL	PPS-110-1

Tips and tools

Find more EPA Method standards online at www.agilent.com/chem/standards

EPA Method 508, 508.1

Chlorinated pesticides

Methods 508 and 508.1 are used to determine chlorinated pesticides. They are extraction methods, using GC with a capillary column and electron capture detector.

Recommended Method 508 Organochlorine Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
17 analytes, at 1,000 μg/mL,	Aldrin	Endosulfan I	1 x 1 mL	PPM-508B-1
in methyl tert-butyl ether	α -BHC (α -HCH) β -BHC (β -HCH)	Endosulfan II Endosulfan sulfate		
	δ-BHC (δ-HCH)	Endrin		
	γ-внс (γ-нсн)	Endrin aldehyde		
	4,4´-DDD	Heptachlor		
	4,4´-DDE	Heptachlor epoxide (B)		
	4,4´-DDT	Methoxychlor		
	Dieldrin			

Recommended Method 508 Internal Standard Solution

Standard	Concentration	Total Vol.	Part No.
Pentachloronitrobenzene (PCNB)	100 μg/mL, in methyl <i>tert</i> -butyl ether	1 x 1 mL	PPS-130-1

Recommended Method 508 Surrogate Standard Solution

Standard	Concentration	Total Vol.	Part No.
4,4-Dichlorobiphenyl (DCB)	500 µg/mL, in methyl <i>tert</i> -butyl ether	1 x 1 mL	PPS-120-1

EPA Method 508A

Polychlorinated biphenyls

Method 508A is used to screen for PCBs. It is an extraction method, using GC with either a packed or a capillary column, and an electron capture detector.

Aroclor 1260 Stock Solutions

Description	Solution	Total Vol.	Part No. 1,000 µg/mL	Part No. 5,000 μg/mL
1 solution, in methanol	Aroclor 1260	1 x 1 mL	PPS-141-1	PPS-140-1

Decachlorobiphenyl Stock Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 1,000 μg/mL, in toluene	Decachlorobiphenyl	1 x 1 mL	PPS-150-1

Ethylene Thiourea (ETU)

Method 509 is used to determine ethylene thiourea (ETU). Samples are passed through a column of diatomaceous earth and analyzed using capillary column gas chromatography with a nitrogen-phosphorus detector.

Method 509 Internal Standard

Description	Standard	Total Vol.	Part No.
1 standard, at 1,000 µg/mL, in 0.1% w/v DTT in ethyl acetate	3,4,5,6-Tetrahydro-2-pyrimidinethiol	1 x 1 mL	IST-800-1

Free Radical Scavenger Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 1,000 mg/L, in ethyl acetate	Dithiothreitol	1 x 1 mL	EPA-1390-1

Method 509 Stock Standard

Description	Standard	Total Vol.	Part No. 100 µg/mL	Part No. 1,000 µg/mL
1 standard, in 0.1% w/v DTT in ethyl acetate	Ethylene thiourea	1 x 1 mL	PPS-640-1	PPS-641-1

Instrument Performance Check Solution

Description	Analytes and Concentration		Total Vol.	Part No.	
3 analytes,	Ethylene thiourea	10 ng/mL	1 x 1 mL	GCM-170-1	
in 0.1% w/v DTT in ethyl acetate	Propylene thiourea	100 ng/mL			
	3,4,5,6-Tetrahydro-2-pyrimidinethiol	1,000 ng/mL			

Method 509 Surrogate Standard

Description	Standard	Total Vol.	Part No.
1 standard, at 100 μg/mL, in 0.1% w/v DTT in ethyl acetate	Propylene thiourea	1 x 1 mL	PPS-642-1

EPA Method 515.1, 515.2, 515.3, 515.4

Chlorinated acids

Methods 515.1 and 515.2 are used to determine chlorinated acids. These methods involve extraction followed by derivatization, using GC with a capillary column and electron capture detector.

Recommended Method 515.1 Chlorinated Herbicides Mixtures

Description	Analytes and Cond	centration			Total Vol.	Mixture	Part No.
16 analytes	Acifluorfen Bentazon Chloramben	100 μg/mL 200 μg/mL 100 μg/mL	3,5-Dichlorobenzoic acid Dichlorprop Dinoseb	100 μg/mL 300 μg/mL 200 μg/mL	1 x 1 mL	Acids mixture in methyl <i>tert</i> -butyl ether	HBM-5155A-1
	2,4-D Dalapon 2,4-DB Dacthal (DCPA) Dicamba	200 μg/mL 1,300 μg/mL 800 μg/mL 100 μg/mL 100 μg/mL	4-Nitrophenol Pentachlorophenol Picloram Silvex (2,4,5-TP) 2,4,5-T	100 μg/mL 100 μg/mL 100 μg/mL 100 μg/mL 100 μg/mL		Methylated mixture in methyl tert-butyl ether	HBM-5155M-1

Recommended Method 515.1 Surrogate Standard Solutions

Description	Solutions	Total Vol.	Part No.
2 solutions, 100 μg/mL,	2,4-Dichlorophenylacetic acid (DCAA)	1 x 1 mL	PPS-160-1
in methyl <i>tert</i> -butyl ether	DCAA methyl ester		PPS-161-1

Recommended Standards

Method 515.1	Part No.		Method 5
Calibration standard	HBM-5155A-1	_	Calibration standards
Internal standards	PPS-170-1 PPS-169-1		Internal standard
Surrogate standard	PPS-160-1	_	Surrogate standard

Method 515.2	Part No.
Calibration standards	HBM-5152A-1 HBM-5153A-1
Internal standard	PPS-172-1
Surrogate standard	PPS-162-1

Method 515.3	Part No.
Calibration standards	HBM-5156A-1 HBM-5156M-1
Internal standards	PPS-174-1 PPS-170-1
Surrogate standards	PPS-167-1 PPS-168-1

Method 515.4	Part No.
Calibration standard	HBM-5157A-1
Internal standard	PPS-174-1
Surrogate standards	PPS-167-1 PPS-168-1

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Nitrosamines

Method 521 is used to determine nitrosamines. It uses solid phase extraction and GC/MS.

Nitrosamines Mixture

Description	Analytes	Total Vol.	Part No.
9 analytes, 2,000 μg/mL, in methylene chloride	N-Nitrosodi-n-butylamine N-Nitrosodiethylamine N-Nitrosodimethylamine N-Nitrosodi-n-propylamine N-Nitrosomethylethylamine N-Nitrosomorpholine N-Nitrosopiperidine N-Nitrosopyrrolidine	1x1mL	US-113N-1

Recommended Method 521 Surrogate and Internal Standards

Description	Standards	Total Vol.	Part No. 100 µg/mL	Part No. 1,000 μg/mL
2 standards,	<i>N</i> -Nitrosodimethylamine-d ₆	1 x 1 mL		IST-760-1
in methylene chloride	N-Nitrosodi-n-propylamine-d ₁₄	1 x 1 mL	IST-771-1	IST-770-1

EPA Method 523

Triazine pesticides

Method 523 is used to determine triazine pesticides and their degradation products. It is a solid phase extraction method, using GC/MS with a capillary column.

Method 523 Stock Standards

Compound	Concentration	Volume	Part No.
Ametryn	1200 µg/mL, in ethyl acetate	1 200 μg/mL, in ethyl acetate 1 x 1 mL	
Atrazine	2000 μg/mL, in ethyl acetate	_	PST-005Y2000
Atrazine-desethyl	1000 μg/mL, in ethyl acetate	_	PST-4010Y1000
Atrazine-desethyl desisopropyl	100 μg/mL, in ethyl acetate	_	PST-6935Y100A01
Atrazine-desisopropyl	500 μg/mL, in ethyl acetate	_	PST-4005Y500
Cyanazine	2000 μg/mL, in ethyl acetate	_	PST-1360Y2000
Prometon	1200 µg/mL, in ethyl acetate	_	PST-830Y1200
Prometryn	900 µg/mL, in ethyl acetate	_	PST-840Y900
Propazine	2000 μg/mL, in ethyl acetate	PST-850Y2000	
Simazine	500 μg/mL, in ethyl acetate		PST-1130Y500
Simetryn	840 µg/mL, in ethyl acetate		PST-1805Y840
Terbuthylazine	2000 μg/mL, in ethyl acetate	_	PST-1705Y2000
Terbuthylazine-desethyl	850 µg/mL, in ethyl acetate	_	PST-6850Y850

EPA Method 524.2, 524.3, 524.4

Purgeable organic compounds

Method 524.2 is a purge-and-trap GC/MS method allowing determination of all VOCs, using a capillary column.

Recommended Method 524.2 VOC Mixtures

Description	Analytes			Total Vol.	Part No. 200 µg/mL	Part No. 2,000 μg/mL
60 analytes, in methanol	Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Bromomethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon tetrachloride Chlorobenzene Chloroform Chloromethane 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromo-3-chloropropane 1,2-Dibromoethane Dibromomethane	1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethene trans-1,2-Dichloroethene trans-1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropane 1,1-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene etis-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene etis-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene Hexachlorobutadiene Hexopropylbenzene 4-Isopropyltoluene Methylene chloride	Naphthalene n-Propylbenzene Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,2,3-Trichlorobenzene 1,2,4-Trichloroethane 1,1,1-Trichloroethane Trichloroethane Trichloroethane Trichlorofluoromethane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene Vinyl chloride 0-Xylene m-Xylene p-Xylene	1x1mL	DWM-580-1	DWM-588-1

Recommended Method 524.2 VOC Mixture - Rev. 4.1 Addition

Description	Analytes		Total Vol.	Part No.
24 analytes, at 2,000 μg/mL, in methanol	Acetone Acrylonitrile Allyl chloride 2-Butanone (MEK) Carbon disulfide Chloroacetonitrile 1-Chlorobutane trans-1,4-Dichloro-2-butene 1,1-Dichloro-2-propanone Diethyl ether Ethyl methacrylate Hexachloroethane	2-Hexanone Methacrylonitrile Methyl acrylate Methyl iodide Methyl methacrylate 4-Methyl-2-pentanone Methyl tert-butyl ether Nitrobenzene 2-Nitropropane Pentachloroethane Propionitrile Tetrahydrofuran	1 x 1 mL	DWM-592-1

Recommended Method 524.2 Internal and Surrogate Standard Mixtures

Description	Analytes	Total Vol.	Part No. 1,000 μg/mL	Part No. 2,000 μg/mL
3 analytes, in methanol	1,2-Dichlorobenzene-d ₄ 4-Bromofluorobenzene Fluorobenzene	1 x 1 mL	STM-321-1	STM-320N-1



DWM-580-1

EPA Method 524.2, 524.3, 524.4	Part No.
Calibration standards	DWM-580-1 DWM-588-1 DWM-592-1
Internal and surrogates standard	STM-320N-1

Safe Drinking Water Act

Phase II, phase V, and phase VIB standards

These standards are ideal for analysis of regulated compounds under the Safe Drinking Water Act (SDWA).

SDWA Volatiles Mixture

Description	Analytes		Total Vol.	Part No.
27 analytes, at 2,000 μg/mL, in methanol	Benzene Bromodichloromethane Bromoform Carbon tetrachloride Chlorobenzene Chloroform Dibromochloromethane 1,2-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane	Ethylbenzene Methylene chloride Styrene Tetrachloroethene Toluene 1,2,4-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl chloride o-Xylene m-Xylene p-Xylene	1 x 1 mL	DWM-594-1

Regulated VOC Mixture

Description	Analytes		Total Vol.	Part No.
12 analytes, at 2,000 µg/mL, in methanol	Benzene Bromodichloromethane Bromoform Carbon tetrachloride Chloroform Dibromochloromethane	1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene 1,1,1-Trichloroethane Trichloroethene Vinyl chloride	1 x 1 mL	DWM-590-1

SDWA SOCs Mixture

Description	Analytes		Total Vol.	Part No.
6 analytes, at 500 μg/mL, in acetone	Benzo[a]pyrene Bis(2-Ethylhexyl) adipate Bis(2-Ethylhexyl) phthalate	Hexachlorobenzene Hexachlorocyclopentadiene Pentachlorophenol (at 2,000 µg/mL)	1 x 1 mL	SVM-500-1

Phase V Additions VOC Mixture

Description	Analytes	Total Vol.	Part No.
3 analytes, at 2,000 μg/mL, in methanol	Methylene chloride 1,1,2-Trichloroethane 1,2,4-Trichlorobenzene	1 x 1 mL	DWM-593A-1

EPA Method 525.1

Organic compounds

Method 525.1 is used to determine SOCs. It is a liquid-solid extraction method, using GC/MS with a capillary column.

Recommended Method 525.1 PAH Mixtures

Description	Analytes		Total Vol.	Part No. 100 µg/mL	Part No. 500 µg/mL
13 analytes, in acetone	Acenaphthylene Anthracene Benz[a]anthracene Benzo[b]fluoranthene Benzo[4]fluoranthene Benzo[ah]perylene Benzo[a]pyrene	Chrysene Dibenz[a,h]anthracene Fluorene Indeno[1,2,3-ca]pyrene Phenanthrene Pyrene	1 x 1 mL	PM-525A-1	PM-525B-1

Recommended Method 525.1 Organochlorine Pesticides Mixes

Description	Analytes		Total Vol.	Part No. 100 µg/mL	Part No. 500 µg/mL
12 analytes, in acetone	Alachlor Aldrin Atrazine α-Chlordane γ-Chlordane γ-BHC (lindane)	Endrin Heptachlor Heptachlor epoxide (B) Methoxychlor <i>trans</i> -Nonachlor Simazine	1 x 1 mL	PPM-525C-1	PPM-525D-1

Recommended Standards

Method 525.1	Part No.
Calibration standards	PM-525A-1 PPM-525C-1 PSM-525-1 RPCM-525-1 EPA-1161-1
Internal and surrogate standard	ISM-310-1

Technical note

Although Method 525 quantifies chlordane using only three of its constituents, regulations often require chlordane to be quantified as total chlordane. For those instances, Agilent also offers standards for technical chlordane.

EPA Method 525.2

Organic compounds

Method 525.2 is used to determine SOCs. It is a liquid-solid extraction method, using GC/MS with a capillary column.

Recommended Method 525.2 Semivolatiles Mixture

Description	Analytes			Total Vol.	Part No.
33 analytes, at 100 μg/mL, in acetone	Acenaphthylene Anthracene Benz[a]anthracene Benzo[b]fluo anthene Benzo[b]fluo anthene Benzo[b]prene Benzo[a]pyrene Butyl benzyl phthalate 2-Chlorobiphenyl Chrysene Dibenz[a,h]anthracene	2,3-Dichlorobiphenyl Bis(2-Ethylhexyl) adipate Bis(2-Ethylhexyl) phthalate Diethyl phthalate Dimethyl phthalate Di-r-butyl phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene Fluorene Hexachlorobenzene 2,2',4,4',5,6'-Hexachlorobiphenyl	2,2',3,3',4,4',6-Heptachlorobiphenyl Hexachlorocyclopentadiene Indeno[1,2,3- <i>cd</i>]pyrene Isophorone 2,2',3,3',4,5',6,6'-Octachlorobiphenyl 2,2',3',4,6-Pentachlorobiphenyl Pentachlorophenol (at 400 µg/mL) Phenantherne Pyrene 2,2',4,4'-Tetrachlorobiphenyl 2,4,5-Trichlorobiphenyl	1 x 1 mL	SVM-525-1

Recommended Method 525.2 Organochlorine Pesticides Mixture

Description	Analytes				Total Vol.	Part No.
29 analytes, at 100 μg/mL, in acetone	Alachlor Aldrin Atrazine α-BHC β-BHC γ-BHC (lindane) δ-BHC	Chlorobenzilate Chlorothalonil Chloroneb Dacthal (DCPA) 4,4'-DDD 4,4'-DDT 4,4'-DDE	Permethrin, mixed isomers (at 200 µg/mL) Dieldrin Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin aldehyde Etridiazole	cis-Chlordane trans-Chlordane Heptachlor Heptachlor epoxide Methoxychlor trans-nonachlor Simazine	1 x 1 mL	PPM-525E-1

Recommended Method 525.2 Nitrogen/Phosphorus Pesticide Mixtures

Description	Analytes		Total Vol.	Part No. 100 μg/mL	Part No. 1,000 μg/mL
6 analytes, in acetone	Carboxin Diazinon Disulfoton	Fenamiphos Merphos Terbufos	1 x 1 mL	NPM-525B-1	NPM-526-1

Recommended Method 525.2 Toxaphene Standards

Description	Analyte	Total Vol.	Part No. 1,000 µg/mL in Methanol	Part No. 2,500 µg/mL in Acetone
1 analyte	Toxaphene	1 x 1 mL	EPA-1161-1	PPS-240-1

Method 525.2	Part No.
Calibration standards	SVM-525-1 PPM-525E-1 NPM-525C-1 NPM-525B-1 PPS-240-1 NPM-108B-1
Internal and surrogate standards	ISM-510-1 ISM-511X

Organic compounds

Method 526 is used to determine SOCs. It is a solid phase extraction method, using GC/MS with a capillary column.

Method 526 Calibration Mixture

Description	Analytes		Total Vol.	Part No.
11 analytes, at 1,000 µg/mL, in methyl acetate	Acetochlor Cyanazine Diazinon 2,4-Dichlorophenol 1,2-Diphenylhydrazine Disulfoton	Fonofos Nitrobenzene Prometon Terbufos 2,4,6-Trichlorophenol	1 x 1 mL	SVM-526-1

Recommended Method 526 Internal Standard Solution

Description	Analytes	Total Vol.	Part No.
3 analytes, at 500 μg/mL, in acetone	Acenaphthene-d ₁₀ Phenanthrene-d ₁₀ Chrysene-d ₁₂	1 x 1 mL	ISM-520-1

Recommended Method 526 Surrogate Standard

Description	Analytes	Total Vol.	Part No.
2 analytes, at 500 μg/mL in acetone	1,3-Dimethyl-2-nitrobenzene Triphenylphosphate	1 x 1 mL	ISM-690-1

Primary Dilution Standard Mixture

Description	Analytes		Total Vol.	Part No.
11 analytes, at 1,000 µg/mL in ethyl acetate	Acetochlor Cyanazine Diazinon 2,4-Dichlorophenol 1,2-Diphenylhydrazine Disulfoton	Fonofos Nitrobenzene Prometon Terbufos 2,4,6-Trichlorophenol	1 x 1 mL	SVM-526A-1

Calibration Mixture

Description	Analytes		Total Vol.	Part No.
11 analytes, 1,000 µg/mL, in methylene chloride	Acetochlor Azobenzene Cyanazine Diazinon 2,4-Dichlorophenol Disulfoton	Fonofos Nitrobenzene Prometon Terbufos 2,4,6-Trichlorophenol	1 x 1 mL	SVM-527-1

Method 526	Part No.
Calibration standard	SVM-526-1
Surrogate standard	ISM-690-1
Internal standard	ISM-520-1

Pesticides and flame retardants

Method 527 is used to determine selected pesticides and flame retardants. It is a solid phase extraction method, using GC/MS with a capillary column.

Recommended Method 527 Pesticides Mixture 1

Description	Analytes		Total Vol.	Part No.
16 analytes, at 500 µg/mL, in ethyl acetate	Atrazine Bromacil Asana (esfenvalerate) Hexazinone Mirex Norflurazon Prometryn Thiobencarb (benthiocarb)	Bifenthrin S-Bioallethrin (esbiol) Fenvalerate Kepone Nitrofen Oxychlordane Propazine Vinclozolin	1 x 1 mL	PPM-527A-1

Recommended Method 527 Pesticides Mixture 2

Description	Analytes		Total Vol.	Part No.
5 analytes, at 500 µg/mL in ethyl acetate	Chlorpyrifos Dimethoate Malathion	Parathion Terbufos sulfone	1 x 1 mL	PPM-527B-1

Recommended Method 527 Surrogate Standard Mixture

Description	Analytes	Total Vol.	Part No.
3 analytes, at 500 μg/mL, in acetone	1,3-Dimethyl-2-nitrobenzene Perylene-d ₁₂ Triphenyl phosphate (TPP)	1 x 1 mL	ISM-710-1

Recommended Method 527 Internal Standard Solution

Description	Analytes	Total Vol.	Part No.
3 analytes, at 500 μg/mL, in acetone	Acenaphthene-d ₁₀ Chrysene-d ₁₂ Phenanthrene-d ₁₀	1 x 1 mL	ISM-520-1

Tips and tools

Phenols in drinking water

Method 528 is applicable for the measurement of phenols. This method uses solid phase extraction followed by capillary column GC/MS.

Method 528 Phenols Stock Calibration Standard

Description	Analytes		Total Vol.	Part No.
12 analytes, 2,000 μg/mL, in methylene chloride	2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2-Chlorophenol 2-Methyl-4,6-dinitrophenol	2-Nitrophenol 4-Chloro-3-methylphenol 4-Nitrophenol <i>o</i> -Cresol Pentachlorophenol Phenol	1 x 1 mL	PHM-500-1

Analyte Fortification Solution

Description	Analytes and Concentration		Total Vol.	Part No.
12 analytes,	2,4,6-Trichlorophenol	100 μg/mL	1 x 1 mL	PHM-501-1
in methylene chloride	2,4-Dichlorophenol	100 μg/mL		
	2,4-Dinitrophenol	500 μg/mL		
	2,4-Dimethylphenol	100 μg/mL		
	2-Chlorophenol	100 µg/mL		
	2-Methyl-4,6-dinitrophenol	500 µg/mL		
	2-Nitrophenol	100 µg/mL		
	4-Chloro-3-methylphenol	100 µg/mL		
	4-Nitrophenol	500 µg/mL		
	o-Cresol	100 µg/mL		
	Pentachlorophenol	500 µg/mL		
	Phenol .	100 µg/mL		

Method 528 Internal Standard

Description	Analytes and Concentration		Total Vol.	Part No.
2 analytes, in methylene chloride	2,3,4,5-Tetrachlorophenol 3-Nitro- <i>o</i> -xylene	2,000 μg/mL 1,000 μg/mL	1 x 1 mL	PHM-502-1

Explosives and related compounds

Method 529 is used to determine explosives and related compounds. It is a solid phase extraction method, using GC/MS with a capillary column.

Recommended Method 529 Calibration Standard

Description	Analytes			Total Vol.	Part No.
14 analytes, at 100 µg/mL, in ethyl acetate	2-Amino-4,6-dinitrotoluene 4-Amino-2,6-dinitrotoluene 3,5-Dinitroaniline <i>m</i> -Dinitrobenzene 2,4-Dinitrotoluene	2,6-Dinitrotoluene RDX Nitrobenzene 2-Nitrotoluene 3-Nitrotoluene	4-Nitrotoluene 1,3,5-Trinitrobenzene Tetryl 2,4,6-Trinitrotoluene (TNT)	1 x 1 mL	NAIM-529A-1

Internal Standard Fortification Mixture

Description	Analytes			Total Vol.	Part No.
14 analytes, at 200 μg/mL, in ethyl acetate	2-Nitrotoluene 3,5-Dinitroaniline 1,3-Dinitrobenzene 2-Amino-4,6-dinitrotoluene 4-Amino-2,6-dinitrotoluene	2,4-Dinitrotoluene 2,6-Dinitrotoluene Nitrobenzene 3-Nitrotoluene 4-Nitrotoluene	RDX Tetryl TNT 1,3,5-Trinitrobenzene	1 x 1 mL	NAIM-530-1

Calibration Mixture

Description	Analytes and Concentration	ı			Total Vol.	Part No.
15 analytes, in acetonitrile	2-Amino-4,6-dinitrotoluene 1,3-Dinitrobenzene 2,4-Dinitrotoluene 2,6-Dinitrotoluene 4-Amino-2,6-dinitrotoluene HMX 2-Nitrotoluene 3-Nitrotoluene	100 μg/mL 100 μg/mL 100 μg/mL 100 μg/mL 100 μg/mL 200 μg/mL 200 μg/mL 200 μg/mL	4-Nitroaniline 4-Nitrotoluene Nitrobenzene RDX Tetryl 1,3,5-Trinitrobenzene 2,4,6-Trinitrotoluene (TNT)	200 μg/mL 200 μg/mL 100 μg/mL 200 μg/mL 200 μg/mL 100 μg/mL	1 x 1 mL	NAIM-535-1

Recommended Method 529 Internal and Surrogate Standards

Description	Analytes	Concentration	Total Vol.	Part No.
4 analytes	3,4-Dinitrotoluene	1,000 μg/mL, in acetonitrile	1 x 1 mL	IST-701A-1
	1,2,4-Trimethyl-5-nitrobenzene (2-pseudocumene) 2,000 µg/mL, in methanol			IST-706-1
	1,3,5-Trimethyl-2-nitrobenzene (2-nitromesitylene) 1		_	IST-705A-1
	Nitrobenzene-d ₅	1,000 μg/mL,in dichloromethane	_	IST-210-1

Method 529	Part No.
Calibration standard	NAIM-529A-1
Surrogate standards	IST-705-1 IST-706-1 IST-210-1
Internal standard	IST-704-1

EPA Method 531.1, 531.2

N-methylcarbamoyloximes and N-methylcarbamates

Methods 531.1 and 531.2 are used to measure N-methylcarbamoyloximes and N-methylcarbamates. They use direct injections of the sample on HPLC, with postcolumn derivatization and a fluorescence detector.

Recommended Method 531.1 Carbamate Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
10 analytes, at 100 μg/mL, in methanol	Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbaryl Carbofuran	3-Hydroxycarbofuran Methiocarb Methomyl Oxamyl Propoxur (baygon)	1 x 1 mL	PPM-530-1

Recommended Method 531.2 Carbamate Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
11 analytes, at 100 µg/mL, in methanol	Aldicarb Aldicarb sulfone Aldicarb sulfoxide Carbaryl Carbofuran 1-Naphthol	3-Hydroxycarbofuran Methiocarb Methomyl Oxamyl Propoxur (baygon)	1 x 1 mL	PPM-530C-1

SDWA Carbamate Pesticides Mixture

Description	Analytes	Total Vol.	Part No.
2 analytes, at 100 μg/mL, in methanol	Carbofuran Oxamyl	1 x 1 mL	PPM-530B-1

Carbamate Pesticides Mixture

Description	Analytes		Total Vol.	Part No.
6 analytes, at 100 μg/mL, in methanol	Aldicarb sulfone Aldicarb sulfoxide Aldicarb	Carbofuran Methomyl Oxamyl	1 x 1 mL	PPM-251-1



PPM-530-1

Internal and Surrogate Standard Solutions (BDMC)

Description	Solutions	Total Vol.	Part No. 100 µg/mL in Methanol	Part No. 100 μg/mL in Acetonitrile	Part No. 1,000 µg/mL in Methanol
2 solutions	4-Bromo-3,5-dimethylphenyl N-Methylcarbamate (BDMC)	1 x 1 mL	PPS-180-1	PST-4015A100A01	PST-4015M1000

Phenylurea compounds

Method 532 is used to determine phenylurea pesticides. It is a solid phase extraction method, using HPLC with a UV detector.

Pesticides Mixture Concentrate

Description	Analytes		Total Vol.	Part No.
6 analytes, at 5,000 μg/mL, in methanol	Diuron Fluometuron Linuron	Propanil Siduron (mix of isomers) Tebuthiuron	1 x 1 mL	PPM-255-1

Recommended Method 532 Calibration Standard

Description	Analytes		Total Vol.	Part No.
8 analytes, at 200 µg/mL,	Diflubenzuron	Propanil	1 x 1 mL	PPM-532-1
in methanol/acetone	Diuron	Siduron		
	Fluometuron	Tebuthiuron		
	Linuron	Thidiazuron		

Recommended Method 532 Surrogate Standards

Description	Analytes	Total Vol.	Part No. 500 μg/mL in Methanol/Acetonitrile	Part No. 200 µg/mL in Methanol/Acetonitrile	Part No. 500 µg/mL in Methanol	Part No. 5,000 µg/mL in Methanol
2 analytes	Carbazole Monuron	1 x 1 mL	PPM-532A-1	PPM-536-1	PPM-533-1	PPM-534-1

Pesticides Mixture Concentrates

Description	Analytes and Concentration		Total Vol.	Part No. in Methanol	Part No. 200 µg/mL in Acetonitrile/Acetone (9:1)	
8 analytes	Diflubenzuron Diuron Fluometuron Linuron Propanil Siduron (mix of isomers) Tebuthiuron Thidiazuron	100 μg/mL 100 μg/mL 100 μg/mL 100 μg/mL 100 μg/mL 200 μg/mL 100 μg/mL	1 x 1 mL	PPM-540-1	PPM-541-1	

Chloroacetanilide and other acetamide herbicide degradates

Method 535 is used to determine the ethanesulfonic acid (ESA) and oxanilic acid (OA) degradates of the chloroacetanilide and other acetamide herbicides. It uses solid phase extraction and GC/MS.

Recommended UCMR Acetanilide Pesticide Degradates Mixture

Description	Analytes and Con	centration	Total Vol.	Part No.		
6 analytes, in methanol	Acetochlor ESA Acetochlor OA Alachlor ESA	20 μg/mL 40 μg/mL 20 μg/mL	Alachlor OA Metolachlor ESA Metolachlor OA	40 μg/mL 80 μg/mL 10 μg/mL	1 x 1 mL	PPM-535-1

Recommended Method 535 Surrogate and Internal Standards

Description	Analytes	Total Vol.	Part No. 20 μg/mL	Part No. 100 µg/mL
Individual standards, in methanol	Dimethachlor ESA	1 x 1 mL	PPS-440-1	PPS-441-1
	Butachlor ESA	1 x 1 mL	PPS-450-1	PPS-451-1

Metolachlor ESA Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 100 µg/mL, in methanol	Metolachlor ESA sodium salt	1 x 1 mL	PST-1531M100A01

Metolachlor OA Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 100 µg/mL, in methanol	Metolachlor OA	1 x 1 mL	PST-1532M100A01

Acetochlor ESA Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 100 μg/mL, in methanol	Acetochlor ESA sodium salt	1 x 1 mL	PST-1532M100A01

Acetochlor OA Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 100 μg/mL, in methanol	Acetochlor OA	1 x 1 mL	PST-1882M100A01

Alachlor ESA Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 100 μg/mL, in methanol	Alachlor ESA sodium salt	1 x 1 mL	PST-626M100A01

Alachlor OA Solution

Description	Solution	Total Vol.	Part No.
1 solution, 100 μg/mL, in methanol	Alachlor OA	1 x 1 mL	PST-627M100A01

Method 535	Part No.
Calibration standard	PPM-535-1
Internal standards	PPS-450-1 PPS-441-1
Surrogate standards	PPS-440-1 PPS-441-1

Triazine pesticides

Method 536 is a liquid chromatography, electrospray ionization tandem mass spectrometry (LC/ESI-MS/MS) method used for the determination of triazine pesticides and their degradation products.

Method 536 Analyte Stock Standards

Compound	Concentration	Volume	Part No.
Atrazine	500 μg/mL, in methanol	1 x 1 mL	PST-005M500
Atrazine-desethyl	500 μg/mL, in methanol	1 x 1 mL	PST-4010M500
Atrazine-desisopropyl	500 μg/mL, in methanol	1 x 1 mL	PST-4005M500
Cyanazine	500 μg/mL, in methanol	1 x 1 mL	PST-1360M500
Propazine	500 μg/mL, in methanol	1 x 1 mL	PST-850M500

Compound	Concentration	Volume	Part No.
Atrazine-desethyl desisopropyl	500 μg/mL, in methanol	1 x 1 mL	PST-6935M500
Simazine	100 μg/mL, in methanol	1 x 1 mL	PST-1130M100A01

Method 536 Internal Standards

Compound	Concentration	Mass	Part No.
Atrazine-desethyl-d ₇	Neat	1 x 10 mg	PST-6910-10MG
Arazine-desisopropyl-d ₅ (ethyl-d ₅)	Neat	1 x 10 mg	PST-6915-10MG
Cyanazine-d ₅ (<i>n</i> -ethyl-d ₅)	Neat	1 x 10 mg	PST-6920-10MG
Propazine-d ₁₄	Neat	1 x 10 mg	PST-6925-10MG

Compound	Concentration	Mass	Part No.
Simazine-d ₁₀ (diethyl-d ₁₀)	Neat	1 x 10 mg	PST-6950-10MG

Tips and tools

Find more EPA Method standards online at www.agilent.com/chem/standards

Hormones in drinking water

Method 539 is for the determination of hormones. It uses solid phase extraction followed by liquid chromatography with electrospray ionization tandem mass spectrometry (LC/ESI-MS/MS).

Method 539 Mix 1

Description	Analytes	Total Vol.	Part No. 100 µg/mL	Part No. 1,000 μg/mL
7 analytes, in methanol	4-Androstene-3,17-dione β-Estradiol 17α-Ethynylestradiol Equilin Estriol Estrone Testosterone	1 x 1 mL	HMM-100A-L	HMM-100A-H

Method 539 Mix 2

Description	Analytes and Concentration		Total Vol.	Part No.
7 analytes, in methanol	4-Androstene-3,17-dione β-Estradiol 17α-Ethynylestradiol Equilin Estriol Estrone Testosterone	30 µg/mL 40 µg/mL 90 µg/mL 100 µg/mL 80 µg/mL 100 µg/mL 10 µg/mL	1 x 1 mL	HMM-100B-1

Method 539 Surrogate Stock Standards

Compound	Concentration	Mass	Part No.
17α-Ethynylestradiol-2,4,16,16-d ₄	Neat	1 x 10 mg	DRG-1185-10MG
Bisphenol-A-d ₁₆	Neat	1 x 10 mg	RCC-240-10MG

Method 539 Internal Standards

Compound	Concentration	Mass	Part No.
16α-Hydroxyestradiol-d ₂	Neat	1 x 10 mg	DRG-1190-10MG
Testosterone-d ₃ neat 1 x 10 mg DRG-1195-10MG	Neat	1 x 10 mg	DRG-1195-10MG

Glyphosate

Method 547 is used to determine glyphosate. It uses direct injection of the sample on HPLC, with postcolumn derivatization and a fluorescence detector.

Recommended Method 547 Glyphosate Solution

Description	Solutions	Total Vol.	Part No.
1 solution, at 100 µg/mL, in water	Glyphosate	1 x 1 mL	PPS-190-1

EPA Method 548, 548.1

Endothall

Method 548 is used to determine endothall. It is a derivatization followed by liquid-solid extraction method, using GC with a capillary column and an electron capture detector. Method 548.1 is a GC/MS version of this method.

Recommended Method 548 Endothall Solution

Description	Solution	Total Vol.	Part No.
1 solution, at 50 µg/mL, in water	Endothall	1 x 1 mL	PPS-210-1

Recommended Method 548.1 Endothall Solutions

Description	Solution	Total Vol.	Part No. 50 μg/mL in Methanol	Part No. 1,000 μg/mL in Acetone	Part No. 100 µg/mL in Methanol
1 solution	Endothall	1 x 1 mL	PPS-211-1	PST-1845K1000	PST-1845M100A01

Recommended Method 548 Internal Standard Solutions

Description	Solution	Total Vol.	Part No. 10 μg/mL in Methyl <i>tert</i> -butyl ether	Part No. 1,000 µg/mL in Toluene
1 solution	Endosulfan I	1 x 1 mL	PPS-220-1	PST-501T1000

Recommended Method 548.1 Internal Standard Solutions

Description	Solution	Total Vol.	Part No. 500 µg/mL	Part No. 1,000 µg/mL
1 solution, in methanol	Acenaphthene-d ₁₀	1 x 1 mL	ATS-111-1	ATS-112-1

Method 548	Part No.	
Calibration standard	PPS-210-1	
Internal standards	PPS-220-1 ATS-112-1	
Method 548.1		
Calibration standard	PPS-211-1	
Internal standard	ATS-111-1	

EPA Method 549.2

Diquat and paraquat

Method 549.2 is used to determine diquat and paraquat. It is a liquid-solid extraction method, using HPLC and a UV detector.

Recommended Method 549.2 Diquat and Paraquat Mixture

Description	Analytes	Total Vol.	Part No.
2 analytes, at 1,000 µg/mL, in water	Diquat (as dibromide) Paraquat (as dichloride) (Concentrations corrected to 1,000 µg/mL of each pesticide)	1 x 1 mL	PPM-549-1

Recommended Standards

Method 549.2	Part No.
Calibration standard	PPM-549-1

EPA Method 550, 550.1

Polycyclic aromatic hydrocarbons

Method 550 is used to determine polycyclic aromatic hydrocarbons. It is a liquid-liquid extraction method, using HPLC and coupled fluorescence and UV detectors. Method 550.1 uses liquid-solid extraction.

Recommended Method 550, 550.1 PAH Fortification Mixture

Description	Analytes and Concentration					Part No.
16 analytes, in acetonitrile	Acenaphthene Acenaphthylene Anthracene Benz[a]anthracene Benzo[b]fluo anthene Benzo[k]fluo anthene Benzo[gh]perylene Benzo[a]pyrene	1,000 µg/mL 1,000 µg/mL 62.5 µg/mL 1 µg/mL 1 µg/mL 1.25 µg/mL 5 µg/mL 5 µg/mL	Chrysene Dibenz[a,h]anthracene Fluoranthene Fluorene Indeno[1,2,3-cd]pyrene Naphthalene Phenanthrene Pyrene	62.5 μg/mL 12.5 μg/mL 2.5 μg/mL 100 μg/mL 12.5 μg/mL 1,000 μg/mL 50 μg/mL 62.5 μg/mL	1x1mL	PM-551-1

Recommended Method 550, 550.1 Internal Standard Solutions

Description	Solution	Total Vol.	Part No. 100 µg/mL in Acetonitrile	Part No. 2,000 μg/mL in Acetone
1 solution	4,4-Difluorobiphenyl	1 x 1 mL	PPS-270-1	PPS-271-1

EPA Method 550, 550.1	Part No.
Calibration standard	PM-551-1
Internal standards	PPS-270-1 PPS-271-1

EPA Method 551.1

Chlorination disinfection by-products and chlorinated solvents, and halogenated pesticides and herbicides

Method 551.1 is used to determine chlorination disinfection by-products and chlorinated solvents. It is an extraction method, using GC with a capillary column and an electron capture detector.

Recommended Method 551.1 Disinfection By-products and Chlorinated Solvents Mixtures

Description	Analytes		Total Vol.	Part No. 2,000 µg/mL in Acetone	Part No. 100 μg/mL in Methyl <i>tert</i> -butyl ether
19 analytes	Bromochloroacetonitrile Bromodichloromethane Bromoform Carbon tetrachloride Chloroform Chloropicrin Dibromoacetonitrile Dibromochloromethane 1,2-Dibromo-3-chloropropane (DBCP) 1,2-Dibromoethane (EDB)	Dichloroacetonitrile 1,1-Dichloro-2-propanone Trichloroacetonitrile Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene 1,2,3-Trichloropropane 1,1,1-Trichloro-2-propanone	1 x 1 mL	HCM-551D-1	HCM-550-1

Recommended Method 551.1 Surrogate Standard Solution

Description	Solution	Total Vol.	Part No.
1 solution, 1,000 µg/mL, in acetone	Decafluorobiphenyl	1 x 1 mL	IST-152-1

Recommended Standards

Method 551.1	Part No.
Calibration standards	HCM-551-1 PPM-551B-1 EPA-1244-1 PST-1535M100A01
Internal standards	STS-113-1 STS-115-1
Surrogate standard	IST-152-1

Technical note

Commercial amounts of MTBE extraction solvent often contain observable chlorinated solvent impurities, for example, chloroform, trichloroethene, and carbon tetrachloride. When present, these impurities can normally be removed by double distillation of the MTBE.

EPA Method 552, 552.1, 552.2, 552.3

Haloacetic acids and dalapon

Method 552, 552.1, 552.2 and 552.3 are used to determine halogenated acetic acids. These methods involve ion exchange liquid-solid extraction followed by GC processes, using a capillary column and electron capture detector.

Recommended Method 552 Haloacetic Acids Mixtures

Description	Analytes		Total Vol.	Mixture	Part No.
8 analytes	Chloroacetic acid Dichloroacetic acid	Bromoacetic acid Bromochloroacetic acid	1 x 1 mL	Acids mixture in methyl <i>tert</i> -butyl ether, 1,000 μg/mL	PHM-552A
	Trichloroacetic acid 2,4-Dichlorophenol	Dibromoacetic acid 2,4,6-Trichlorophenol		Methylated mixture in methyl <i>tert</i> -butyl ether, 1,000 µg/mL	PHM-552M-1

Note: This mix is available in two forms: as free acids, or as methylated acids.

Recommended Methods 552.2, 552.3 Haloacetic Acids Mixtures, No Surrogate

Description	Analytes and Concentration	n			Total Vol.	Mixture	Part No.
10 analytes	Chloroacetic acid Chlorodibromoacetic acid	600 μg/mL 1,000 μg/mL		1.5	1 x 1 mL	Acids mixture in methyl <i>tert</i> -butyl ether	PHM-5524M-1
	Dichloroacetic acid Trichloroacetic acid Bromoacetic acid	600 μg/mL 200 μg/mL 400 μg/mL	Dibromoacetic acid Tribromoacetic acid Dalapon	200 μg/mL 2,000 μg/mL 400 μg/mL		Methylated mixture in methyl <i>tert</i> -butyl ether	

Note: This mix is available in two forms: as free acids, or as methylated acids.

Recommended Internal and Surrogate Standards

Standard	Total Vol.	Part No. 1,000 µg/mL in Methanol	Part No. 1,000 µg/mL in Methyl <i>tert</i> -butyl ether	Part No. 2,000 µg/mL in Methyl <i>tert</i> -butyl ether
1,2,3-Trichloropropane	1 x 1 mL	PPS-250-1	PPS-251-1	RHH-039B2000

Method 552	Part No.	Method 552.1	Part No.	Method 552.2	Part No.	Method 552.3	Part No.
Calibration standard	PHM-552A-1	Calibration standard	PHM-5521A-1	Calibration standard	PHM-5523A-1	Calibration standard	PHM-5524A-1
Internal standard	PPS-250-1	Internal standard	PPS-251-1	Internal standard	PHM-5524A-1	Internal standard	PPS-251-1
Surrogate standards	PPS-261-1 PPS-290-1	Surrogate standard	PPS-300-1	Surrogate standards	PPS-251-1 PPS-390-1	Surrogate standard	PPS-430-1

Benzidines and nitrogen-containing pesticides

Method 553 is used for the measurement of benzidines and nitrogen-containing pesticides. It is an extraction method, using particle beam HPLC/MS.

Method 553 Analyte Mix

Description	Analytes		Total Vol.	Part No.
14 analytes, at 5,000 µg/mL, in acetonitrile/water (1:1 v/v)	Benzidine Benzoylprop ethyl Caffeine Carbaryl o-Chlorophenyl thiourea 3,3-Dichlorobenzidine 3,3-Dimethoxybenzidine	3,3-Dimethylbenzidine Diuron Ethylene thiourea Linuron Monuron Rotenone Siduron (mix of isomers)	1 x 1 mL	NPM-530-1

Method 553 Analyte Mix

Description	Analytes and Concentrati	Total Vol.	Part No.	
13 analytes, in acetonitrile/methanol (1:1)	Benzidine Benzoylprop ethyl Caffeine Carbaryl O-Chlorophenyl thiourea 3,3-Dichlorobenzidine 3,3-Dimethoxybenzidine Diuron	250 μg/mL 350 μg/mL 300 μg/mL 1,000 μg/mL 750 μg/mL 250 μg/mL 750 μg/mL 350 μg/mL	1 x 1 mL	NPM-531-1
	Linuron Monuron Rotenone Siduron mix of isomers	1,300 µg/mL 400 µg/mL 3,200 µg/mL 450 µg/mL		

Method 553 Surrogate Standards

Compound	Concentration	Mass	Part No.
3,3-Dichlorobenzidine-d ₆	Neat	1 x 10 mg	RCC-307-10MG
Benzidine-ring-d ₈	Neat	1 x 10 mg	RCC-235-10MG
Caffeine- ¹⁵ N ₂	Neat	1 x 10 mg	DRG-1180-10MG
DFTPPO	Neat	1 x 10 mg	RAH-115-10MG

Tips and tools

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Carbonyl compounds

Method 554 is used to determine carbonyl compounds. It is a derivatization followed by an HPLC method.

Recommended Method 554 Carbonyl Compounds Mixture

Description	Analytes		Total Vol.	Part No.
12 analytes, at 1,000 μg/mL, in acetonitrile	Acetaldehyde Butanal Cyclohexanone Crotonaldehyde Decanal Formaldehyde	Hexanal Heptanal Nonanal Octanal Propanal Pentanal	1 x 1 mL	ALD-554A-1

Recommended Standard

Method 554	Part No.
Calibration standard	ALD-554-1

EPA Method 555

Chlorinated acids

Method 555 is used to determine chlorinated acids. It is an extraction followed by an HPLC method.

Recommended Method 555 Chlorinated Acids Mixture A

Description	Analytes		Total Vol.	Part No.
8 analytes, 1,000 μg/mL, in acetonitrile	Acifluorfen Bentazon Chloramben 2,4-D	Dicamba Dichlorprop Picloram Silvex (2,4,5-TP)	1 x 1 mL	HBM-555A-1

Recommended Method 555 Chlorinated Acids Mixture B

Description	Analytes		Total Vol.	Part No.
8 analytes, 1,000 μg/mL, in acetonitrile	2,4-DB 3,5-Dichlorobenzoic acid Dinoseb MCPA	MCPP 4-Nitrophenol Pentachlorophenol 2,4,5-T	1 x 1 mL	HBM-555B-1

EPA Method 556, 556.1

Carbonyl compounds

Methods 556 and 556.1 are used to determine carbonyl compounds. They involve derivatization followed by GC/ECD methods.

Recommended Method 556 Aldehydes Mixture

Description	Analytes			Total Vol.	Part No.
14 analytes, at 100 µg/mL, in acetonitrile/water	Acetaldehyde Benzaldehyde Butanal Cyclohexanone Decanal	Formaldehyde Glyoxal Hexanal Heptanal Methyl glyoxal	Nonanal Octanal Pentanal Propanal	1 x 1 mL	ALD-556X

Recommended Method 556 Surrogate Standards

Description	Analyte	Total Vol.	Part No. 20 µg/mL	Part No. 10,000 µg/mL	Part No. 20,000 μg/mL
1 analyte, in acetonitrile	2,4,5-Trifluoroacetophenone	1 x 1 mL	PPS-411-1	PPS-410-1	PPS-412-1

Recommended Method 556 Internal Standard

Description	Analyte	Total Vol	Part No.
1 analyte, 10,000 μg/mL, in hexane	1,2-Dibromopropane	1 x 1 mL	PPS-400-1

Recommended Standards

Method 556, 556.1	Part No.
Calibration standard	ALD-556X
Internal standard	PPS-400-1
Surrogate standard	PPS-410-1

EPA Method 557

Haloacetic acids, bromate, and dalapon in drinking water

Method 557 is a direct inject, ion chromatography, (negative) electrospray ionization mass spectrometry (IC/ESI-MS/MS) method for the determination of haloacetic acids. Bromate and dalapon may also be measured concurrently with the haloacetic acids.

Method 557 Stock Standard Solution

Description	Analytes		Total Vol.	Part No.
10 analytes, at 1,000 μg/mL, in methyl <i>tert</i> -butyl ether	Bromoacetic acid Bromochloroacetic acid Bromodichloroacetic acid Chloroacetic acid Chloroacetic acid	Dalapon Dibromoacetic acid Dichloroacetic acid Tribromoacetic acid Trichloroacetic acid (as CI)	1 x 1 mL	PHM-557-1

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