Per- & Polyfluoroalkyl Substances (PFAS) Standards

AccuStandard®

Per- and Polyfluoroalkyl Substances (PFAS)

Per- and polyfluoroalkyl substances (PFAS) belong to a continuously expanding family of over 4000 man-made chemical pollutants. The amphiphilic ability of PFAS has led to the manufacturing of PFAS in oils and water-resistant industrial and consumer products such as firefighting foams, cleaners, cosmetics, paints, adhesives and insecticides. However, environmental chemists and biologists have uncovered that PFAS have harmful toxicological effects and pose a significant risk to the public. The high thermal and chemical stability of PFAS make them persistent in the environment and nearly non-biodegradable, necessitating chemical reference standards to test the concentration of PFAS in drinking water, burn sites and Teflon products.

Contents

PFOA / PFOS Compounds

Perfluoroalkylsulfonates	CAS No.	Conc.	Matrix	Cat. No.	Unit
Potassium perfluoro-1-octanesulfonate	2795-39-3	100 µg/mL	MeOH	PFOS-002S	1 mL
Potassium perfluoro-1-butanesulfonate (PPBS)	29420-49-3	50 µg/mL	MeOH	PFOS-005S	1 mL
Sodium perfluoro-1-pentanesulfonate	630402-22-1	50 µg/mL	MeOH	PFOS-006S	1 mL
Potassium perfluoro-1-hexanesulfonate	3871-99-6	50 µg/mL	MeOH	PFOS-007S	1 mL
Perfluoroalkylcarboxylic acids					
Perfluoro-n-octanoic acid	335-67-1		NEAT	PFOA-001N	100 mg
		100 µg/mL	MeOH	PFOA-001S	1 mL
Perfluoro-n-butanoic acid (PFBA)	375-22-4	100 µg/mL	MeOH	PFOA-002S	1 mL
Perfluoro-n-decanoic acid (PFDA)	335-76-2	100 µg/mL	MeOH	PFOA-003S	1 mL
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	100 µg/mL	MeOH	PFOA-004S	1 mL
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	100 µg/mL	MeOH	PFOA-005S	1 mL
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	100 µg/mL	MeOH	PFOA-006S	1 mL
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	100 µg/mL	MeOH	PFOA-007S	1 mL
Perfluorooctadecanoic acid (PFODA)	16517-11-6	2 µg/mL	MeOH	PFOA-029S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-029S	1 mL
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	100 µg/mL	MeOH	PFOA-008S	1 mL
Perfluoro-n-undecanoic acid (PFUnA)	2058-94-8	100 µg/mL	MeOH	PFOA-009S	1 mL
2H-Perfluoro-2-decenoic acid (FOUEA)	70887-84-2	2 µg/mL	MeOH	PFOA-027S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-027S	1 mL
2,2,3,3,3-Pentafluoropropionic acid (PFPrA)	422-64-0	2 µg/mL	MeOH	PFOA-015S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-015S	1 mL
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	914637-49-3	2 µg/mL	MeOH	PFOA-022S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-022S	1 mL
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	812-70-4	2 µg/mL	MeOH	PFOA-023S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-023S	1 mL
2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	100 µg/mL	MeOH	PFOA-010S	1 mL
2H-Perfluoro-2-octenoic acid (FHUEA)	70887-88-6	2 µg/mL	MeOH	PFOA-024S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-024S	1 mL
Perfluoro-n-tridecanoic acid (PFTriA)	72629-94-8	50 µg/mL	MeOH:Water	PFOA-016S-M-W	1 mL
Perfluoro-n-tetradecanoic acid (PFTreA)	376-06-7	50 µg/mL	MeOH:Water	PFOA-017S-M-W	1 mL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	2 µg/mL	MeOH	PFOA-018S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-018S	1 mL
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	2 µg/mL	MeOH	PFOA-020S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-020S	1 mL
Perfluoro(4-methoxybutanoic) acid (PFMBA)	863090-89-5	2 µg/mL	MeOH	PFOA-021S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-021S	1 mL
2H,2H,3H,3H-Perfluorononanoic acid (6:3 FTCA)	27854-30-4	2 µg/mL	MeOH	PFOA-043S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-043S	1 mL

AccuStandard is continually adding more compounds, visit our website for the most up-to-date list

continued on next page

PFOA / PFOS Compounds

PFOA / PFOS Compounds (continued)

Perfluorooctylsulfonamidoacetic acids	CAS No.	Conc.	Matrix	Cat. No.	Unit
N-ethylperfluoro-1-octanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	2 µg/mL	MeOH	PFOS-015S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-015S	
N-methyl N-methylperfluoro-1-octanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	2 µg/mL	MeOH	PFOS-014S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-014S	1 mL
N-methyl perfluorooctanesulfonamidoacetic acid		100 µg/mL	MeOH	PFOS-004S	1 mL
N-methylperfluoro-1-octanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	100 µg/mL	MeOH	PFOS-001S	1 mL
Perfluorooctane sulfonamides					
Perfluorooctane sulfonamide (PFOSA)	754-91-6	2 µg/mL	MeOH	PFOS-035S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-035S	1 mL
Bis(trifluoromethane)sulfonimide lithium salt (HQ-115)	90076-65-6	2 µg/mL	MeOH	PFOS-030S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-030S	1 mL
Sulfluramid (NEtFOSA)	4151-50-2	2 µg/mL	MeOH	PFOS-036S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-036S	1 mL
N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide (NEtFOSE)	1691-99-2	2 µg/mL	MeOH	PFOS-039S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-039S	1 mL
Sulfonic acids					
Perfluoro-n-octane sulfonic acid (PFOS)	1763-23-1	100 µg/mL	MeOH	PFOS-001S	1 mL
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	2 µg/mL	MeOH	PFOA-025S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-025S	1 mL
Perfluoro(2-ethoxyethane)sulphonic acid (PFEESA)	113507-82-7	2 µg/mL	MeOH	PFOA-019S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-019S	1 mL
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	2 µg/mL	MeOH	PFOA-014S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-014S	1 mL
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	2 µg/mL	MeOH	PFOA-013S-0.02X	1 mL
		100 µg/mL	MeOH	PFOA-013S	1 mL
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	2 µg/mL	MeOH	PFOS-028S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-028S	1 mL
Perfluorononanesulfonic acid (PFNS)	68259-12-1	2 µg/mL	MeOH	PFOS-031S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-031S	1 mL
Perfluorobutane-1-sulfonic acid (PFBS)	375-73-5	2 µg/mL	MeOH	PFOS-034S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-034S	1 mL
Telomer sulfonates					
Sodium 1H,1H,2H,2H-perfluoro-1-hexanesulfonate	27619-93-8	100 µg/mL	MeOH	PFOS-011S	1 mL
Sodium 1H,1H,2H,2H-perfluoro-1-octanesulfonate	27619-94-9	100 µg/mL	MeOH	PFOS-012S	1 mL
Sodium 1H,1H,2H,2H-perfluoro1-decanesulfonate	27619-96-1	100 µg/mL	MeOH	PFOS-013S	1 mL
Fluorinated telomer alcohols					
2,2-Difluoropropan-1-ol 3H,3H,3H (2:1 FTOH)	33420-52-9	100 µg/mL	PT MeOH	FTOH-001S	1 mL
3,3,3-Trifluoropropan-1-ol (1:2 FTOH)	2240-88-2	100 µg/mL	PT MeOH	FTOH-002S	1 mL
2,2,3,3,3-Pentafluoropropan-1-ol	422-05-9	100 µg/mL	PT MeOH	FTOH-003S	1 mL
1H,1H,2H,2H,3H,3H-Perfluorobutan-1-ol (1:3 FTOH)	461-18-7	100 µg/mL	PT MeOH	FTOH-004S	1 mL
1H,1H,2H,2H-Perfluorobutan-1-ol (2:2 FTOH)	54949-74-5	100 µg/mL	PT MeOH	FTOH-006S	1 mL
1H,1H,5H-Perfluoropentan-1-ol (5H 4:1 FTOH)	355-80-6	100 µg/mL	PT MeOH	FTOH-007S	1 mL
2-(Perfluorobutyl)ethanol (4:2)	2043-47-2	100 µg/mL	PT MeOH	FTOH-008S	1 mL
1H,1H,5H-Perfluoropentan-1-ol (5H 4:1 FTOH)	355-80-6	100 µg/mL	PT MeOH	FTOH-010S	1 mL
1H,1H,2H,2H-Perfluorooctan-1-ol (6:2)	647-42-7	100 µg/mL	PT MeOH	FTOH-013S	1 mL
1H,1H,2H,2H-Perfluoro-1-decanol (8:2)	678-39-7	100 µg/mL	PT MeOH	FTOH-021S	1 mL
1H,1H,2H,2H-Perfluoro-9-methyldecan-1-ol (9Me 8:2 FTOH)	31200-98-3	100 µg/mL	PT MeOH	FTOH-024S	1 mL
1H,1H,2H,2H-Perfluorododecan-1-ol (10:2)	865-86-1	100 µg/mL	PT MeOH	FTOH-027S	1 mL

Fluorinated telomer alcohols (FTOHs) are known as precursors for PFAS compounds. FTOHs can biodegrade (oxidize) to the Poly- and Perfluorinated Acids (PFCA) derivative. PFCAs are part of the PFAS target compounds in different EPA, ASTM as well as ISO test methods.

Commericial / Technical grades					
Ammonium perfluoro(2-methyl-3-oxahexanoate) (GenX)	62037-80-3	100 µg/mL	MeOH	PFOS-019S	1 mL
Scotchgard™ Pre-2002 Formulation (Tech mix)		100 µg/mL	MeOH	PFOS-SCG-001S	1 mL
Scotchgard™ Post-2002 Formulation (Tech mix)		100 µg/mL	MeOH	PFOS-SCG-002S	1 mL
F-53B (Tech mix)		2 µg/mL	MeOH	PFOS-040S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-040S	1 mL

Registered Trademark Scotchgard 3M

EPA Methods and State Method

Method 537.1 Method Standard

This updated version of USEPA Method 537 can be used for the quantitative analysis of 18 analytes by Solid Phase Extraction (SPE) and Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS).

EPA 537.1 Method Standard

M-537.1 — **1 mL**

2 µg/mL each in MeOH — 18 comps.

- Perfluoro(2-methyl-3-oxahexanoic) acid
- N-ethylperfluoro-1-octanesulfonamidoacetic acid
- N-methylperfluoro-1-octanesulfonamidoacetic acid
- Perfluorobutane-1-sulfonic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro-n-heptanoic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoro-n-hexanoic acid
- Perfluoro-n-nonanoic acid
- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-octanoic acid
- Perfluoro-n-tetradecanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-undecanoic acid
- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
- 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
- 4,8-Dioxa-3H-perfluorononanoic acid

PFAS compounds exist in both linear and branched forms in nature. Each lot manufactured may carry a different ratio than previous lots. A ratio of linear and branched isomers will be provided on each standard's Certificate of Analysis if both linear and branched isomers are present. If no ratio appears, then the standard contains only the linear isomer. Contact our Technical Department if the ratio of our current lots must be known prior to placing an order.

Technical Notes

LC-MS/MS is preferable for low detection limit analysis, and for regulatory compliance for EPA, ASTM D7979 or other methods.

Method 537 Native Compound Standard

This was the first method introduced for the determination of 14 PFAS in drinking water. It includes 14 PFAS for determination using Solid Phase Extraction (SPE) and Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS). This method was updated in 2018 to USEPA Method 537.1 which adds additional analytes.

Method 537 Native Compound Standard

M-537 — **1 mL**

50 µg/mL each in AcCN:Water (95:5) — 14 comps.

- Perfluoro-n-hexanoic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-octanoic acid
- Perfluoro-n-nonanoic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-undecanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-tetradecanoic acid
- N-Methylperfluorooctanesulfonamidoacetic acid
- N-Ethylperfluorooctanesulfonamidoacetic acid
- Perfluoro-n-butane sulfonic acid
- Perfluoro-n-hexane sulfonic acid
- Perfluoro-n-octane sulfonic acid

Technical Note

This was the first method introduced for the determination of 14 PFAS in drinking water. It includes 14 PFAS for determination using Solid Phase Extraction (SPE) and Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS). This method was updated in 2018 to 537.1 which adds additional analytes.

Massachusetts PFAS in Drinking Water Reference Standard

This PFAS CRM is formulated to include compounds published in the PFAS public drinking water standard by the Massachusetts DEP. Known as PFAS6, these compounds have been targeted due to its high abundance in drinking water sources in addition to the adverse health effects associated with its exposure.

Massachusetts PFAS Reference Standard

PFC-MA — **1 mL**

2 µg/mL each in MeOH — 6 comps.

- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-octanoic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoro-n-nonanoic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-decanoic acid

NaOH is added for stability to multi-component PFAS standards

EPA Methods (continued)

Method 1633 PFAS/PFOA in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS

This standard contains the 40 PFAS described in USEPA Method 1633. USEPA Method 1633 is for the analysis of PFAS in aqueous, solid, biosolids and tissue samples using LC-MS/MS technique. Our M-1633 product series is offered to cover the 40 native PFAS required by the method.

Method 1633 Mix 1

M-1633-1 — **1 mL**

At stated conc. (µg/mL) in MeOH — 11 comps.

Perfluoro-n-butanoic acid	8
Perfluoro-n-pentanoic acid	4
Perfluoro-n-hexanoic acid	2
Perfluoro-n-heptanoic acid	2
Perfluoro-n-octanoic acid	2
Perfluoro-n-nonanoic acid	2
Perfluoro-n-decanoic acid	2
Perfluoro-n-undecanoic acid	2
Perfluoro-n-dodecanoic acid	2
Perfluoro-n-tridecanoic acid	2
Perfluoro-n-tetradecanoic acid	2

Method 1633 Mix 2

M-1633-2 — **1 mL**

At stated conc. (µg/mL) in MeOH — 11 comps.

Perfluorobutane-1-sulfonic acid	2
Perfluoropentanesulfonic acid	2
Perfluorohexane-1-sulfonic acid (Linear and Branched)	2
Perfluoroheptanesulfonic acid	2
Perfluorooctane-1-sulfonic acid (Linear and branched)	2
Perfluorononanesulfonic acid	2
Perfluorodecane-1-sulfonic acid	2
Perfluorododecanesulfonic acid	2
1H,1H,2H,2H-Perfluorohexanesulfonic acid	8
1H,1H,2H,2H-Perfluorooctane sulfonic acid	8
1H,1H,2H,2H-Perfluorodecanesulfonic acid	8

Method 1633 Mix 3

M-1633-3 — **1 mL**

At stated conc. (µg/mL) in MeOH — 7 comps.

Perfluorooctane sulfonamide	2
N-Methylperfluoro-1-octanesulfonamide	2
Sulfluramid	2
N-methylperfluoro-1-octanesulfonamidoacetic acid	2
N-ethylperfluoro-1-octanesulfonamidoacetic acid	2
N-Methylperfluorooctanesulfonamidoethanol	10
N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide	10

Method 1633 Mix 4

M-1633-4 — **1 mL**

At stated conc (µg/mL) in MeOH — 11 comps

Perfluoro(2-methyl-3-oxahexanoic) acid	2
Perfluoro-3-methoxypropanoic acid	2
Perfluoro(4-methoxybutanoic) acid	2
Nonafluoro-3,6-dioxaheptanoic acid	2
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	2
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2
Perfluoro(2-ethoxyethane)sulphonic acid	2
3-Perfluoropropyl propanoic acid	4
2H,2H,3H,3H-Perfluorooctanoic acid	20
2H,2H,3H,3H-Perfluorodecanoic acid	20
4,8-Dioxa-3H-perfluorononanoic acid	2

Method 8327 Native PFAS Reference Standard for Ground, Surface, and Wastewater

This Certified Reference Material (CRM) contains the 24 PFAS based on the newest publication of USEPA Method 8327 which is suitable for testing PFAS in surface water, groundwater and wastewater matrices. Our two CRMs M-8327-10X and M-8327 are offered at a high and a low concentration to meet the specific needs of your testing.

Native PFAS Reference Standard

M-8327 — **1 mL**

2 µg/mL each in MeOH — 24 comps.

M-8327-10X — **1 mL**

20 µg/mL each in MeOH — 24 comps.

Perfluorobutane-1-sulfonic acid	Perfluoro-n-hexanoic acid
Perfluoropentanesulfonic acid	Perfluoro-n-heptanoic acid
Perfluorohexane-1-sulfonic acid	Perfluoro-n-octanoic acid
Perfluoroheptanesulfonic acid	Perfluoro-n-nonanoic acid
Perfluorooctane-1-sulfonic acid	Perfluoro-n-decanoic acid
Perfluorononanesulfonic acid	Perfluoro-n-undecanoic acid
Perfluorodecane-1-sulfonic acid	Perfluoro-n-dodecanoic acid
1H,1H,2H,2H-Perfluorohexanesulfonic acid	Perfluoro-n-tridecanoic acid
1H,1H,2H,2H-Perfluorooctane sulfonic acid	Perfluoro-n-tetradecanoic acid
1H,1H,2H,2H-Perfluorodecanesulfonic acid	N-ethylperfluoro-1-octanesulfonamidoacetic acid
Perfluoro-n-butanoic acid	N-methylperfluoro-1-octanesulfonamidoacetic acid
Perfluoro-n-pentanoic acid	Perfluorooctane sulfonamide

NaOH is added for stability to multi-component PFAS standards

ASTM Methods

ASTM D7968 Polyfluorinated Compounds in Soil by LC-MS/MS

Native PFAS in Soil Standard

D-7968 **1 mL**

2 µg/mL each in MeOH 21 comps.

- Perfluoro-n-tetradecanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro-n-undecanoic acid
- Perfluoro-n-decanoic acid
- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-nonanoic acid
- Perfluoro-n-octanoic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-hexanoic acid
- Perfluorobutane-1-sulfonic acid
- Perfluoro-n-pentanoic acid
- Perfluoro-n-butanoic acid
- 2H,2H-Perfluorooctanoic acid
- 2H,2H-Perfluorodecanoic acid
- 2H,2H-Perfluorododecanoic acid
- 2H-Perfluoro-2-decenoic Acid
- 2H,2H,3H,3H-Perfluorodecanoic acid
- 2H-Perfluoro-2-octenoic acid
- Perfluoro-4-ethylcyclohexane sulfonic acid

ASTM D7979 PFAS Substances in Water, Sludge, Influent, Effluent, and Wastewater by LC-MS/MS

PFAS in Wastewater Standard

D-7979 **1 mL**

2 µg/mL each in MeOH 21 comps.

- Potassium perfluoro-1-butanesulfonate
- Potassium perfluoro-1-hexanesulfonate
- Perfluorooctane-1-sulfonic acid
- Perfluorobutane-1-sulfonic acid
- Perfluoro-n-pentanoic acid
- Perfluoro-n-hexanoic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-octanoic acid
- Perfluoro-n-nonanoic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-undecanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-tetradecanoic acid
- 2H,2H,3H,3H-Perfluorodecanoic acid
- 2H-Perfluoro-2-decenoic Acid
- 2H,2H-Perfluorododecanoic acid
- 2H,2H-Perfluorodecanoic acid
- 2H-Perfluoro-2-octenoic acid
- 2H,2H-Perfluorooctanoic acid
- Perfluoro-4-ethylcyclohexane sulfonic acid

ASTM D8421 PFAS / PFOA in Aqueous Matrices by LC-MS/MS

ASTM test method D8421 is for the determination of PFAS in aqueous matrices by co-solvation and using LC-MS/MS technique. Our two Target Spike mixes and Surrogate Standard CRMs are offered to include the 44 native PFAS listed in the test method at a varied concentration.

D8421 Native PFAS/PFOA Target Spike 1 Standard

D-8421-TS-1 **1 x 1 mL**

2 µg/mL in each in MeOH:Water (95:5) 22 comps.

- Perfluoro-n-tetradecanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro-n-undecanoic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-nonanoic acid
- Perfluoro-n-octanoic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-hexanoic acid
- Perfluorodecane-1-sulfonic acid
- Perfluorononanesulfonic acid
- Perfluorooctane-1-sulfonic acid (Linear and branched)
- Perfluoroheptanesulfonic acid
- Perfluorohexane-1-sulfonic acid (Linear and Branched)
- Perfluoropentanesulfonic acid
- Perfluorobutane-1-sulfonic acid
- Perfluorooctane sulfonamide
- 1H,1H,2H,2H-Perfluorodecanesulfonic acid
- 1H,1H,2H,2H-Perfluorooctane sulfonic acid
- 1H,1H,2H,2H-Perfluorohexanesulfonic acid
- N-ethylperfluoro-1-octanesulfonamidoacetic acid
- N-methylperfluoro-1-octanesulfonamidoacetic acid

NaOH is added for stability to multi-component PFAS standards

D8421 Native PFAS/PFOA Target Spike 2 Standard

D-8421-TS-2 **1 x 1 mL**

2 µg/mL each in MeOH:Water (95:5) 19 comps.

- Perfluorododecanesulfonic acid
- N-Methylperfluoro-1-octanesulfonamide
- Sulfluramid
- N-Methylperfluorooctanesulfonamidoethanol
- N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide
- Perfluoro(2-methyl-3-oxahexanoic) acid
- 4,8-Dioxa-3H-perfluorononanoic acid
- 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
- Nonafluoro-3,6-dioxaheptanoic acid
- Perfluoro(2-ethoxyethane)sulphonic acid
- Perfluoro-3-methoxypropanoic acid
- Perfluoro(4-methoxybutanoic) acid
- 3-Perfluoropropyl propanoic acid
- 2H,2H,3H,3H-Perfluorooctanoic acid
- 2H,2H,3H,3H-Perfluorodecanoic acid
- 2H-Perfluoro-2-octenoic acid
- 2H-Perfluoro-2-decenoic acid
- Bis(trifluoromethane)sulfonimide lithium salt

D8421 Native PFAS/PFOA Target Spike 3 Standard

D-8421-TS-3 **1 x 1 mL**

10 µg/mL each in MeOH:Water (95:5) 3 comps.

- Perfluoro-n-pentanoic acid
- Perfluoro-n-butanoic acid
- 2,2,3,3,3-Pentafluoropropionic acid

ISO Methods

This CRM supports the testing for PFAS in non-filtered water such as drinking water and waste water using LC-MS/MS and according to the international standard. Our ISO21675 CRM includes the 30 native PFAS required by the test method.

ISO 21675:2019 PFAS in Water by LC-MS/MS

Native PFAS Reference Standard

ISO21675-PFAS-SET — **2 x 1 mL**
(ISO21675-PFAS-R1, PFOA-029S-0.02X)

ISO21675-PFAS-R1 — **1 mL**
2 µg/mL each in MeOH — 29 comps.

- Perfluoro-n-butanoic acid
- Perfluoro-n-pentanoic acid
- Perfluoro-n-hexanoic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-octanoic acid
- Perfluoro-n-nonanoic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-undecanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-tetradecanoic acid
- Perfluorohexadecanoic acid
- Perfluorooctane sulfonamide
- N-Methylperfluoro-1-octanesulfonamide
- Sulfluramid
- N-methylperfluoro-1-octanesulfonamidoacetic acid
- N-ethylperfluoro-1-octanesulfonamidoacetic acid
- 2H-Perfluoro-2-decenoic acid
- Perfluoro(2-methyl-3-oxahexanoic) acid
- Perfluorobutane-1-sulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctane-1-sulfonic acid
- Perfluorodecane-1-sulfonic acid
- 1H,1H,2H,2H-Perfluorooctane sulfonic acid
- 1H,1H,2H,2H-Perfluorodecanesulfonic acid
- Sodium dodecafluoro-3H-4,8-dioxanonanoate
- Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate
- Bis[2-(perfluorooctyl)ethyl] phosphate

Perfluorooctadecanoic acid (PFODA)

PFOA-029S-0.02X — **1 mL**
2 µg/mL in MeOH

ISO 25101:2009 PFOS and PFOA in Water by LC-MS

PFOS and PFOA Reference Standard

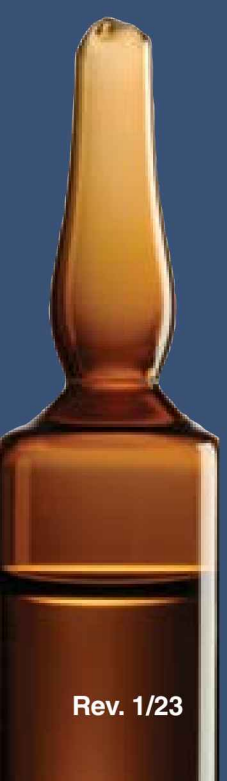
ISO25101 — **1 mL**
10 µg/mL each in MeOH — 2 comps.

- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-octanoic acid

Technical Note

Although PFOA and PFOS production has significantly been reduced in recent years, both compounds continue to contaminate water sources due to their environmental persistence. This CRM is offered to test for PFOA and PFOS in drinking water, ground water and surface water using (HPLC-MS/MS.)

NaOH is added for stability to multi-component PFAS standards



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