Per- & Polyfluoroalkyl Substances (PFAS) Standards

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Per- and polyfluoroalkyl substances (PFAS)

PFAS Content

ISO 17034 • 17025 • 9001

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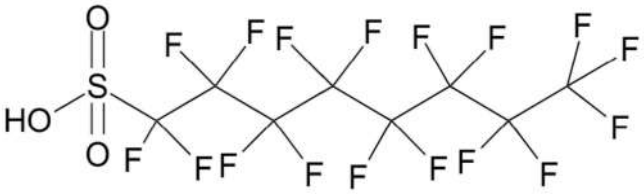
Per- and polyfluoroalkyl substances (PFAS) are a large and growing class of synthetic chemicals characterized by fully or partially fluorinated carbon chains. Their amphiphilic properties have enabled widespread use in industrial and consumer products, including aqueous film-forming foams (AFFF) used as firefighting agents, non-stick cookware, stain-resistant textiles, food contact materials (FCMs), cosmetics, paints, adhesives, and pesticides. Among these compounds, perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) are the most extensively studied and historically produced.

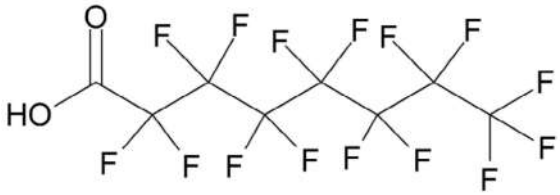
PFAS, particularly long-chain compounds such as PFOA and PFOS, have been associated with adverse health effects, including immunotoxicity, endocrine disruption, and developmental effects. Their high mobility and exceptional resistance to degradation, driven by the strength of the carbon–fluorine bond, have resulted in widespread contamination in water, soil, and both wildlife and human populations.

Regulatory bodies such as the U.S. Environmental Protection Agency (USEPA) and the European Union have established environmental quality standards. Standard analytical test methods, including USEPA Methods 533, 537, and 1633, as well as EN 17892 and ASTM D8421, support reliable detection and regulatory compliance. Regulations have expanded beyond PFOA and PFOS to include short- and ultra-short-chain PFAS, fluorotelomer alcohols, perfluoroalkyl phosphates, and related analogues. Detection and analysis of these persistent compounds can be done using liquid chromatography–tandem mass spectrometry (LC-MS/MS) and other advanced analytical techniques.



Perfluoro-n-octanoic acid (PFOA)

CAS 335-67-1



Perfluorooctane-n-sulfonic acid (PFOS)

CAS 1763-23-1

PFAS Compounds

PFAS Compounds

Perfluoroalkylsulfonates

	CAS No.	Conc.	Matrix	Cat. No.	Unit
Potassium perfluoro-1-octanesulfonate	2795-39-3		NEAT	PFOS-002N-10MG	10 mg
		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
Sodium perfluoro-1-heptanesulfonate (PFHpS, Sodium salt)	21934-50-9	100 µg/mL	MeOH	PFOS-008S	1 mL
Sodium perfluoro-1-nonanesulfonate	98789-57-2	100 µg/mL	MeOH	PFOS-009S	1 mL
Sodium perfluoro-1-decanesulfonate	2806-15-7	100 µg/mL	MeOH	PFOS-010S	1 mL
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	83329-89-9	100 µg/mL	MeOH	PFOS-021S-M	1 mL
Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate	73606-19-6	100 µg/mL	MeOH	PFOS-022S-M	1 mL
Sodium perfluorododecanesulfonate	1260224-54-1	100 µg/mL	ACN	PFOS-038S-CN	1 mL
Potassium perfluoro-4-ethylcyclohexane sulfonate (PFECHS)	335-24-0	2 µg/mL	MeOH	PFOS-041S-0.02X	1 mL
Sodium perfluoro-1-propanesulfonate	359868-82-9	100 µg/mL	MeOH	PFOS-050S	1 mL
1H,1H,2H,2H-Perfluorododecanesulfonate sodium salt (10:2 FTS)	108026-35-3	100 µg/mL	MeOH	PFOS-052S	1 mL
Tetraethylammonium perfluorooctanesulfonate	56773-42-3	100 µg/mL	ACN	PFOS-070S-CN	1 mL

Perfluoroalkylcarboxylic acids and salts

Perfluoro(2-methyl-3-oxahexanoic) acid (HFPO-DA)	13252-13-6	2 µg/mL	MeOH	PFAS-002S-0.02X	1 mL
		100 µg/mL	MeOH	PFAS-002S	1 mL
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
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,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	100 µg/mL	MeOH	PFOA-010S	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
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-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-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
3-Perfluoropropyl Propanoic acid (3:3 FTCA)	356-02-5	100 µg/mL	MeOH	PFOA-026S	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
Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	100 µg/mL	ACN	PFOA-028S-CN	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
2H,2H-Perfluorooctanoic acid (6:2 FTCA)	53826-12-3	100 µg/mL	ACN	PFOA-030S-CN	1 mL
2H,2H-Perfluorododecanoic acid (10:2 FTCA)	53826-13-4	100 µg/mL	MeOH:Water(75:25)	PFOA-031S	1 mL
2H,2H-Perfluorodecanoic acid (8:2 FTCA)	27854-31-5	100 µg/mL	ACN	PFOA-032S-CN	1 mL
Ammonium perfluoro-3,6-dioxaoctanoate	908020-52-0	100 µg/mL	ACN	PFOA-049S-CN	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
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	100 µg/mL	ACN	PFOA-044S-CN	1 mL
7H-Perfluoroheptanoic acid	1546-95-8	100 µg/mL	MeOH	PFOA-045S	1 mL
Trifluoroacetic acid (TFA)	76-05-1	100 µg/mL	MeOH	PFOA-048S	1 mL
		100 µg/mL	ACN	PFOA-048S-CN	1 mL
Perfluoro-3,7-dimethyloctanoic acid	172155-07-6	100 µg/mL	ACN	PFOA-051S-CN	1 mL
Methyl perfluorooctanoate	376-27-2	100 µg/mL	ACN	PFOA-052S-CN	1 mL
2,3,3,3-Tetrafluoropropanoic acid	359-49-9	100 µg/mL	ACN	PFOA-053S-CN	1 mL
2,2,3,3-Tetrafluoropropionic acid	756-09-2	100 µg/mL	ACN	PFOA-055S-CN	1 mL
Difluoroacetic acid (DFA)	381-73-7	100 µg/mL	ACN	PFOA-065S-CN	1 mL
Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid (HFPA-TA)	13252-14-7	100 µg/mL	ACN	PFOA-066S-CN	1 mL
2H, 2H-Perfluorohexanoic acid (4:2-FTCA)	70887-89-7	100 µg/mL	ACN	PFOA-067S-CN	1 mL
Ethyl perfluorooctanoate	3108-24-5	100 µg/mL	ACN	PFOS-071S-CN	1 mL
Sodium heptafluorobutyrate	2218-54-4	100 µg/mL	MeOH	PFOS-044S	1 mL

PFAS compounds continued on next page

PFAS Compounds

PFAS Compounds (continued)

Perfluorooctylsulfonamidoacetic acids	CAS No.	Conc.	Matrix	Cat. No.	Unit
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-ethylperfluoro-1-octanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	2 µg/mL	MeOH	PFOS-015S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-015S	1 mL
Perfluorooctane sulfonamidoacetic acid (FOSAA) Mix of Isomers	2806-24-8	100 µg/mL	ACN	PFOS-067S-CN	1 mL
Perfluoroamides					
Perfluorobutyramide	662-50-0	100 µg/mL	ACN	PFOA-054S-CN	1 mL
Pentafluoropropionamide	354-76-7	100 µg/mL	MeOH	PFOA-070S	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
N-Methylperfluoro-1-octanesulfonamide (NMeFOSA)	31506-32-8	2 µg/mL	MeOH	PFOS-032S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-032S	1 mL
N-Methylperfluorooctanesulfonamidoethanol (NMeFOSE)	24448-09-7	2 µg/mL	MeOH	PFOS-033S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-033S	1 mL
Perfluorooctane sulfonamide (PFOSA)	754-91-6	2 µg/mL	MeOH	PFOS-035S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-035S	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
N-Methyl-perfluorohexane-1-sulfonamide (MeFHxSA)	68259-15-4	100 µg/mL	MeOH	PFOS-043S	1 mL
Perfluoro-1-butanesulfonamide (FBSA)	30334-69-1	100 µg/mL	MeOH	PFOS-057S	1 mL
Perfluoro-1-hexanesulfonamide (FHxSA)	41997-13-1	100 µg/mL	MeOH	PFOS-058S	1 mL
2-(N-(Perfluorobutylsulfonyl)-N-methylamino)ethanol	34454-97-2	100 µg/mL	MeOH	PFOS-059S	1 mL
N-Ethyl perfluorohexane sulfonamide	87988-56-5	100 µg/mL	MeOH	PFOS-062S	1 mL
N-Ethyl-N-(2-hydroxyethyl)perfluorohexanesulfonamide (EtFHxSE)	34455-03-3	100 µg/mL	MeOH	PFOS-063S	1 mL
Perfluorooctanamide	423-54-1	100 µg/mL	MeOH	PFOS-066S	1 mL
N-[3-(Dimethylamino)propyl] Nonafluoro-1-butanesulfonamide	68555-77-1	100 µg/mL	MeOH	PFOS-073S	1 mL
Perfluoroalkyl phosphates (PAPs)					
Mono[2-(perfluorooctyl)ethyl] phosphate (8:2-MonoPAP)	57678-03-2	2 µg/mL	MeOH	PFAP-001S-M-0.02X	1 mL
		100 µg/mL	ACN	PFAP-001S	1 mL
Bis[2-(perfluorohexyl)ethyl]phosphate (6:2-DiPAP)	57677-95-9	2 µg/mL	MeOH	PFAP-002S-M-0.02X	1 mL
		100 µg/mL	ACN	PFAP-002S	1 mL
Mono[2-(perfluorohexyl)ethyl] phosphate (6:2-MonoPAP)	57678-01-0	100 µg/mL	ACN	PFAP-004S	1 mL
Tris[2-(perfluorohexyl)ethyl] phosphate (6:2 TriPAPS)	165325-62-2	20 µg/mL	ACN	PFAP-005S-0.2X	1 mL
Bis(2-(ethyl((perfluorooctyl)sulfonyl)amino)ethyl) hydrogen phosphate	2965-52-8	2 µg/mL	MeOH	PFAP-006S-M-0.02X	1 mL
		100 µg/mL	ACN	PFAP-006S	1 mL
Bis[2-(perfluorodecyl)ethyl] phosphate (10:2 diPAP)	1895-26-7	2 µg/mL	MeOH	PFAP-007S-M-0.02X	1 mL
		2 µg/mL	ACN	PFAP-007S-0.02X	1 mL
[2-(perfluorooctyl)ethyl], [2-(perfluorohexyl)ethyl] phosphate (6:2/8:2 diPAP)	943913-15-3	2 µg/mL	MeOH	PFAP-008S-M-0.02X	1 mL
Bis[2-(perfluorooctyl)ethyl] phosphate (8:2-DiPAP)	678-41-1	2 µg/mL	MeOH	PFAS-001S-0.02X	1 mL
		100 µg/mL	MeOH	PFAS-001S	1 mL
Sulfonic acids					
Perfluoro-n-octane sulfonic acid (PFOS)	1763-23-1	100 µg/mL	MeOH	PFOS-001S	1 mL
Perfluoroheptanesulfonic acid (PFHps)	375-92-8	2 µg/mL	MeOH	PFOS-024S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-024S	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
Perfluorohexane-1-sulfonic acid (PFHxS)	355-46-4	2 µg/mL	MeOH	PFOS-029S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-029S	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
Pentafluoroethanesulfonic acid (PFEtS)	354-88-1	100 µg/mL	ACN	PFOS-046S-CN	1 mL
Trifluoromethanesulfonic acid (TFMS)	1493-13-6	100 µg/mL	ACN	PFOS-047S-CN	1 mL
Perfluoroundecanesulfonic acid (PFUnDS)	749786-16-1	2 µg/mL	ACN	PFOS-061S-CN-0.02X	1 mL
Perfluorodecane-1-sulfonic acid (PFDS)	335-77-3	100 µg/mL	ACN	PFOA-011S-CN	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-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
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
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-3,6-dioxa-4-methyl-7-octenesulfonic acid	29311-67-9	100 µg/mL	ACN	PFOA-064S-CN	1 mL
Telomer sulfonates					
Sodium 1H,1H,2H,2H-perfluoro-1-hexanesulfonate (4:2 FTS)	27619-93-8	100 µg/mL	MeOH	PFOS-011S	1 mL
Sodium 1H,1H,2H,2H-perfluoro-1-octanesulfonate (6:2 FTS)	27619-94-9	100 µg/mL	MeOH	PFOS-012S	1 mL
Sodium 1H,1H,2H,2H-perfluoro1-decanesulfonate (8:2 FTS)	27619-96-1	100 µg/mL	MeOH	PFOS-013S	1 mL

PFAS Compounds

PFAS Compounds (continued)

Volatile Organic Fluorines (VOFs)

	CAS No.	Conc.	Matrix	Cat. No.	Unit
1,1-Difluoroethane (Freon 152a)	75-37-6	200 µg/mL	PT MeOH	M-REF-11	1 mL
Tetrafluoroethane (Freon #134a)	811-97-2	200 µg/mL	PT MeOH	M-REF-12	1 mL
Trifluoromethane (Freon #23)	75-46-7	200 µg/mL	PT MeOH	M-REF-15	1 mL
Difluoromethane (Freon #32)	75-10-5	200 µg/mL	PT MeOH	M-REF-20	1 mL
Fluoromethane	593-53-3	200 µg/mL	PT MeOH	M-REF-21	1 mL
1,1,2-Trifluoroethane (Freon #143)	430-66-0	200 µg/mL	PT MeOH	M-REF-22	1 mL
Fluoroethylene	75-02-5	200 µg/mL	PT MeOH	M-REF-23	1 mL
Hexafluoroethane	76-16-4	200 µg/mL	PT MeOH	M-REF-24	1 mL
Octafluoropropane	76-19-7	200 µg/mL	PT MeOH	M-REF-26	1 mL
1H-Heptafluoropropane	2252-84-8	200 µg/mL	PT MeOH	M-REF-28	1 mL
Octafluorocyclobutane	115-25-3	200 µg/mL	PT MeOH	M-REF-29	1 mL
Pentafluoroethane (Freon #125)	354-33-6	200 µg/mL	PT MeOH	M-REF-X-06	1 mL
1,1,2,2-Tetrafluoroethane (Freon #134)	359-35-3	200 µg/mL	PT MeOH	M-REF-X-07	1 mL
1,1,1-Trifluoroethane (Freon #143a)	420-46-2	200 µg/mL	PT MeOH	M-REF-X-08	1 mL
Hexadecafluoroheptane	335-57-9	100 µg/mL	PT MeOH	VOF-001S	1 mL
1H-Perfluoropentane	375-61-1	100 µg/mL	PT MeOH	VOF-002S	1 mL
Perfluorooctane	307-34-6	100 µg/mL	PT MeOH	VOF-003S	1 mL
2H-Perfluoro-5-methyl-3,6-dioxanonane	3330-14-1	100 µg/mL	PT MeOH	VOF-004S	1 mL
Heptafluoropropyl-1,2,2,2-tetrafluoroethyl ether	3330-15-2	100 µg/mL	PT MeOH	VOF-005S	1 mL
Tetradecafluorohexane	355-42-0	100 µg/mL	PT MeOH	VOF-007S	1 mL

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

Fluorinated telomer alcohols (FTOHs)

	CAS No.	Conc.	Matrix	Cat. No.	Unit
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-Perfluorobutan-1-ol (3:1 FTOH)	375-01-9	100 µg/mL	PT MeOH	FTOH-005S	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,2H,2H,3H,3H-Perfluorohexan-1-ol (3:3 FTOH)	679-02-7	100 µg/mL	PT MeOH	FTOH-009S	1 mL
1H,1H,5H-Perfluoropentan-1-ol (5H 4:1 FTOH)	423-46-1	100 µg/mL	PT MeOH	FTOH-010S	1 mL
1H,1H,7H-Perfluoroheptan-1-ol (7H 6:1 FTOH)	335-99-9	100 µg/mL	PT MeOH	FTOH-011S	1 mL
1H,1H-Perfluoroheptan-1-ol (6:1 FTOH)	375-82-6	100 µg/mL	PT MeOH	FTOH-012S	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-1H,1H,8H-Perfluorooctan-1-ol (8H 7:1 FTOH)	10331-08-5	100 µg/mL	PT MeOH	FTOH-014S	1 mL
1H,1H-Perfluorooctan-1-ol (7:1 FTOH)	307-30-2	100 µg/mL	PT MeOH	FTOH-015S	1 mL
1H,1H,2H,2H,3H,3H-Perfluorononan-1-ol (6:3 FTOH)	80806-68-4	100 µg/mL	PT MeOH	FTOH-016S	1 mL
1H,1H,9H-Perfluorononan-1-ol (9H 8:1 FTOH)	376-18-1	100 µg/mL	PT MeOH	FTOH-018S	1 mL
1H,1H-Perfluorononan-1-ol (8:1 FTOH)	423-56-3	100 µg/mL	PT MeOH	FTOH-019S	1 mL
1H,1H,10H,10H-Perfluoro-1,10-decanediol (1:8:1 FTdiOH)	754-96-1	100 µg/mL	PT MeOH	FTOH-020S	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-Perfluorodecan-1-ol (9:1 FTOH)	307-37-9	100 µg/mL	PT MeOH	FTOH-022S	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-Perfluoroundecan-1-ol (10:1 FTOH)	307-46-0	100 µg/mL	PT MeOH	FTOH-026S	1 mL
1H,1H,2H,2H-Perfluorododecan-1-ol (10:2)	865-86-1	100 µg/mL	PT MeOH	FTOH-027S	1 mL
1H,1H,13H-Perfluorotridecan-1-ol (13H 12:1 FTOH)	423-72-3	100 µg/mL	PT MeOH	FTOH-028S	1 mL
1H,1H,2H,2H-Perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	100 µg/mL	PT MeOH	FTOH-029S	1 mL
1H,1H-Perfluorotetradecan-1-ol (13:1 FTOH)	15622-57-8	100 µg/mL	PT MeOH	FTOH-030S	1 mL
1H,1H,2H,3H-Perfluorenon-2-en-1-ol (Allylic 6:3 FTOH)	38550-47-9	100 µg/mL	PT MeOH	FTOH-034S	1 mL
3-(Perfluorooctyl)propanol	1651-41-8	100 µg/mL	PT MeOH	FTOH-035S	1 mL

Fluorotelomer Alcohols Mix 1

FTOH-MIX-001 — **1 x 1 mL**

100 µg/mL each in PT MeOH — 12 comps.

- 1H,1H,2H,2H-Perfluorohexan-1-ol (2-Perfluorobutyl ethanol)
- 1H,1H,2H,2H-Perfluorododecan-1-ol
- 1H,1H,2H,2H-Perfluoro-1-decanol
- 1H,1H,2H,2H-Perfluorooctan-1-ol
- 1H,1H,2H,2H-Perfluoro-9-methyldecan-1-ol
- 1H,1H-Perfluorooctan-1-ol
- 1H,1H,2H,2H-Perfluorotetradecan-1-ol
- 1H,1H,10H,10H-Perfluoro-1,10-decanediol
- 1H,1H,2H,2H,3H,3H-Perfluorononan-1-ol
- 1H,1H-Perfluorononan-1-ol
- 1H,1H-Perfluorohexan-1-ol
- 1H,1H,5H-Perfluoropentan-1-ol

PFAS compounds continued on next page

PFAS Compounds

PFAS Compounds (continued)

Fluorotelomer methacrylates	CAS No.	Conc.	Matrix	Cat. No.	Unit
2-(Perfluorohexyl)ethyl methacrylate (6:2 FTMAC)	2144-53-8	100 µg/mL	MeOH	FTMAC-001S	1 mL
2-(Perfluorooctyl)ethyl methacrylate (8:2 FTMAC)	1996-88-9	100 µg/mL	MeOH	FTMAC-002S	1 mL
2-(Perfluorodecyl)ethyl methacrylate (10:2 FTMAC)	2144-54-9	100 µg/mL	MeOH	FTMAC-003S	1 mL
1H,1H-Perfluorooctyl methacrylate	3934-23-4	100 µg/mL	MeOH	FTMAC-004S	1 mL
1H,1H-Pentafluoropropyl methacrylate	45115-53-5	100 µg/mL	MeOH	FTMAC-006S	1 mL
1H,1H-Perfluoroheptyl methacrylate	48076-44-4	100 µg/mL	MeOH	FTMAC-007S	1 mL
Fluorotelomer acrylates					
2-(Perfluorodecyl)ethyl acrylate (10:2 FTAC)	17741-60-5	100 µg/mL	MeOH	FTAC-001S	1 mL
2-(Perfluorooctyl)ethyl acrylate (8:2 FTAC)	27905-45-9	100 µg/mL	MeOH	FTAC-002S	1 mL
2-(Perfluorohexyl)ethyl acylate (TFOA)	17527-29-6	100 µg/mL	MeOH	FTAC-003S	1 mL
2-(Perfluorobutyl)ethyl acrylate	52591-27-2	100 µg/mL	MeOH	FTAC-004S	1 mL
2,2,3,3-Tetrafluoropropyl acrylate	7383-71-3	100 µg/mL	MeOH	FTAC-006S	1 mL
1,1,1,3,3,3-Hexafluoroisopropyl acrylate	2160-89-6	100 µg/mL	MeOH	FTAC-007S	1 mL
Perfluoroalkyl acetates					
2-Perfluorooctylethyl acetate (8:2 FTOAc)	37858-04-1	100 µg/mL	MeOH	FTOA-001S	1 mL
Technical grades and other PFAS					
Heptadecafluoro-1-iodooctane	507-63-1	100 µg/mL	MeOH	PFAS-005S	1 mL
1H,1H,2H,2H-1-Iodoperfluoro(7-methyloctane)	18017-20-4	100 µg/mL	MeOH	PFAS-006S	1 mL
1-Iodo-1H,1H,2H,2H-perfluorodecane	2043-53-0	100 µg/mL	MeOH	PFAS-007S	1 mL
Capstone A	80475-32-7	2 µg/mL	MeOH	PFOA-047S-0.02X	1 mL
Capstone B	34455-29-3	2 µg/mL	MeOH	PFOA-046S-0.02X	1 mL
Perfluoro(2-methyl-3-oxahexanoyl) chloride	72848-57-8	100 µg/mL	ACN	PFOA-050S-CN	1 mL
Ammonium perfluoro(2-methyl-3-oxahexanoate) (GenX)	62037-80-3	100 µg/mL	MeOH	PFOS-019S	1 mL
			NEAT	PFOS-019N-10MG	10 mg
F-53B (Tech mix)		2 µg/mL	MeOH	PFOS-040S-0.02X	1 mL
		100 µg/mL	MeOH	PFOS-040S	1 mL
Hexafluoropropene oxide	428-59-1	100 µg/mL	ACN	PFOS-045S-CN	1 mL
7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic acid (PFESA BP 2)	749836-20-2	100 µg/mL	MeOH	PFOS-055S	1 mL
Bis(trifluoromethanesulfonyl)imide	82113-65-3	100 µg/mL	MeOH	PFOS-068S	1 mL
N-Perfluorobutanesulfonylglycine (FBSAA)	347872-22-4	100 µg/mL	ACN	PFOS-069S-CN	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

PFAS EPA Methods

EPA Drinking Water Target PFAS Reference Standard

PFAS in Drinking Water Standard

PFAS-EPA-DW-01 — **1 mL**

20 µg/mL each in ACN — 6 comps.

- Perfluoro-n-octanoic acid
- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-nonanoic acid
- Perfluorohexane-1-sulfonic acid
- Perfluorobutane-1-sulfonic acid
- Perfluoro(2-methyl-3-oxahexanoic) acid

Method 533 PFAS in Drinking Water Standard

PFAS in Drinking Water Standard

M-533 — **1 mL**

2 µg/mL each in MeOH:Water (95:5) — 25 comps.

- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
- 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
- 4,8-Dioxa-3H-perfluorononanoic acid
- Perfluoro(2-methyl-3-oxahexanoic) acid
- Nonafluoro-3,6-dioxaheptanoic acid
- Perfluoro-n-butanoic acid
- Perfluorobutane-1-sulfonic acid
- 1H,1H,2H,2H-Perfluorodecanesulfonic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-dodecanoic acid
- Perfluoro(2-ethoxyethane)sulphonic acid
- Perfluoroheptanesulfonic acid
- Perfluoro-n-heptanoic acid
- 1H,1H,2H,2H-Perfluorohexanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoro-n-hexanoic acid
- Perfluoro-3-methoxypropanoic acid
- Perfluoro(4-methoxybutanoic) acid
- Perfluoro-n-nonanoic acid
- 1H,1H,2H,2H-Perfluorooctane sulfonic acid
- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-octanoic acid
- Perfluoro-n-pentanoic acid
- Perfluoropentanesulfonic acid
- Perfluoro-n-undecanoic acid

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

Technical Notes

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

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.

Method 537 Native Compound Standard

This was one of the first test methods introduced for the determination of 14 PFAS in drinking water using Solid Phase Extraction (SPE) and Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS). The method was updated in 2018 by the USEPA to 537.1 which expanded the scope to 18 PFAS compounds.

Method 537 Native Compound Standard

M-537 — **1 mL**

50 µg/mL each in ACN: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

PFAS compounds may exist in linear and branched forms, with each lot potentially having a different ratio. If both isomers are present, the ratio will be listed on the Certificate of Analysis. If no ratio appears, the standard contains only the linear isomer.

PFAS EPA Methods

Method 1621 Adsorbable Organic Fluorine (AOF) in Aqueous Matrices by CIC

Method 1621 Fluorine Working Standard

M-1621-WS-1 — **1 mL**

100 µg/mL in Water

Fluoride

Adsorbable Organic Fluorine Standard (AOF)

AOF-001S — **1 mL**

100 µg/mL in MeOH

4-Fluorobenzoic acid

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

These standards contain the 40 PFAS described in USEPA Method 1633. Method 1633 is for the analysis of PFAS in aqueous, solid, biosolids and tissue samples using LC-MS/MS technique.

Method 1633 Mix 1

M-1633-1-CN-10X — **1 mL**

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

Perfluoro-n-butanoic acid	80
Perfluoro-n-pentanoic acid	40
Perfluoro-n-hexanoic acid	20
Perfluoro-n-heptanoic acid	20
Perfluoro-n-octanoic acid	20
Perfluoro-n-nonanoic acid	20
Perfluoro-n-decanoic acid	20
Perfluoro-n-undecanoic acid	20
Perfluoro-n-dodecanoic acid	20
Perfluoro-n-tridecanoic acid	20
Perfluoro-n-tetradecanoic acid	20

Method 1633 Mix 2

M-1633-2-CN-10X — **1 mL**

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

Perfluorobutane-1-sulfonic acid	20
Perfluoropentanesulfonic acid	20
Perfluorohexane-1-sulfonic acid	20
Perfluoroheptanesulfonic acid	20
Perfluorooctane-1-sulfonic acid	20
Perfluorononanesulfonic acid	20
Perfluorodecane-1-sulfonic acid	20
Perfluorododecanesulfonic acid	20
1H,1H,2H,2H-Perfluorohexanesulfonic acid	80
1H,1H,2H,2H-Perfluorooctane sulfonic acid	80
1H,1H,2H,2H-Perfluorodecanesulfonic acid	80

Method 1633 Mix 3A

M-1633-3A-CN-10X — **1 mL**

20 µg/mL each in ACN — 5 comps.

Sulfluramid
Perfluorooctane sulfonamide
N-Methylperfluoro-1-octanesulfonamide
N-Ethylperfluoro-1-octanesulfonamidoacetic acid
N-Methylperfluoro-1-octanesulfonamidoacetic acid

Method 1633 Mix 3B

M-1633-3B-CN-10X — **1 mL**

100 µg/mL each in ACN — 2 comps.

N-Methylperfluorooctanesulfonamidoethanol
N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide

Method 1633 Mix 4A

M-1633-4A-CN-R1-5X ❄ — **1 mL**

At stated conc (µg/mL) in ACN — 8 comps.

Perfluoro-3-methoxypropanoic acid	10
Perfluoro(4-methoxybutanoic) acid	10
Nonafluoro-3,6-dioxaheptanoic acid	10
Perfluoro(2-ethoxyethane)sulphonic acid	10
3-Perfluoropropyl propanoic acid	20
2H,2H,3H,3H-Perfluorooctanoic acid	100
2H,2H,3H,3H-Perfluorodecanoic acid	100
4,8-Dioxa-3H-perfluorononanoic acid	10

Method 1633 Mix 4B

M-1633-4B-CN — **1 mL**

2 µg/mL in ACN:MeOH (96:4) — 2 comps.

9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

PFAS-002S — **1 mL**

100 µg/mL in MeOH

Perfluoro(2-methyl-3-oxahexanoic) acid (HFPO-DA)

Technical Notes

For improved stability, PFAS-002S is offered separately from Mix 4A

❄ Cold Pack required to maintain integrity of product.

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

This Certified Reference Material (CRM) contains the 24 PFAS based on EPA 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
Perfluoropentanesulfonic acid
Perfluorohexane-1-sulfonic acid
Perfluoroheptanesulfonic acid
Perfluorooctane-1-sulfonic acid
Perfluorononanesulfonic acid
Perfluorodecane-1-sulfonic acid
1H,1H,2H,2H-Perfluorohexanesulfonic acid
1H,1H,2H,2H-Perfluorooctane sulfonic acid
1H,1H,2H,2H-Perfluorodecanesulfonic acid
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
N-ethylperfluoro-1-octanesulfonamidoacetic acid
N-methylperfluoro-1-octanesulfonamidoacetic acid
Perfluorooctane sulfonamide

Technical Notes

NaOH is added for stability to multi-component PFAS standards

PFAS 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
- 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
- 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. These target spike standards include 44 native PFAS listed in the test method at a varied concentration.

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
- Perfluoroheptanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- 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

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

Technical Notes

PFAS compounds may exist in linear and branched forms, with each lot potentially having a different ratio. If both isomers are present, the ratio will be listed on the Certificate of Analysis. If no ratio appears, the standard contains only the linear isomer.

PFAS ASTM and ISO Methods

ASTM D8535 PFAS in Soil/Biosolids by LC-MS/MS

D8535 PFAS in Soil/Biosolids Target Spike 1

D-8535-TS-1 **1 mL**

2 µg/mL in each 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
- Perfluoroheptanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoropentanesulfonic acidL
- 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

D8535 PFAS in Soil/Biosolids Target Spike 2

D-8535-TS-2 **1 mL**

2 µg/mL in each 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

D8535 PFAS in Soil/Biosolids Target Spike 3

D-8535-TS-3 **1 mL**

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

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

ASTM D8591 Determination of Fluorotelomer Alcohols (FTOHs) in Test Chamber Air by TD-GC-MS/MS

D8591 Fluorotelomer Alcohols Stock Solution

D-8591 **1 mL**

500 µg/mL each in PT MeOH 4 comps.

- 1H,1H,2H,2H-Perfluorohexan-1-ol (2-Perfluorobutyl ethanol)
- 1H,1H,2H,2H-Perfluorooctan-1-ol
- 1H,1H,2H,2H-Perfluoro-1-decanol
- 1H,1H,2H,2H-Perfluorododecan-1-ol

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

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 Standards. This ISO 21675 CRM includes the 30 native PFAS required by the test method.

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.)

PFAS EN and FDA Methods

EN 17892:2024 PFAS in Drinking Water

EN 17892:2024 PFAS in Drinking Water

EN-17892-PFAS — **1 mL**

2 µg/mL each in ACN : MeOH (96:04) — 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
- Perfluorobutane-1-sulfonic acid
- Perfluoropentanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctane-1-sulfonic acid
- Perfluorononanesulfonic acid
- Perfluorodecane-1-sulfonic acid
- Perfluoroundecanesulfonic acid
- Perfluorododecanesulfonic acid
- Perfluorotridecanesulfonic acid
- 1H,1H,2H,2H-Perfluorohexanesulfonic acid
- 1H,1H,2H,2H-Perfluorooctane sulfonic acid
- 1H,1H,2H,2H-Perfluorodecanesulfonic acid
- Perfluorooctane sulfonamide
- N-ethylperfluoro-1-octanesulfonamidoacetic acid
- Perfluoro(2-methyl-3-oxahexanoic) acid
- 4,8-Dioxa-3H-perfluorononanoic acid
- Perfluoro-3-methoxypropanoic acid
- 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid

FDA Method C-010.02 & C-010.04 PFAS Reference Standard

Due to major health risks associated with exposure to PFAS, USFDA has developed test method C-010.02 for PFAS Testing in Processed Food. This method is intended to test for PFAS in different food matrices such as infant formula, bread and pancake syrup. This formulation includes all native PFAS compounds listed in the method to offer efficiency and confidence when testing for these chemicals.

FDA Method C-010.02 PFAS in Food

PFAS-FDA — **1 mL**

2 µg/mL each in MeOH — 16 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
- Perfluorobutane-1-sulfonic acid
- Perfluoropentanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctane-1-sulfonic acid
- Ammonium perfluoro(2-methyl-3-oxahexanoate) (GenX)
- Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate
- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
- Sodium dodecafluoro-3H-4,8-dioxanonanoate

FDA Method C-010.03 PFAS in Food

PFAS-FDA-R1 — **1 mL**

2 µg/mL each in ACN : MeOH (96:04) — 30 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
- Perfluorobutane-1-sulfonic acid
- Perfluoropentanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoroheptanesulfonic acid
- Perfluorooctane-1-sulfonic acid
- Perfluorononanesulfonic acid
- Perfluorodecane-1-sulfonic acid
- Perfluoroundecanesulfonic acid
- Perfluorododecanesulfonic acid
- Perfluorotridecanesulfonic acid
- Perfluorooctane sulfonamide
- 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
- 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
- Perfluoro(2-methyl-3-oxahexanoic) acid
- 4,8-Dioxa-3H-perfluorononanoic acid
- 1H,1H,2H,2H-Perfluorohexanesulfonic acid
- 1H,1H,2H,2H-Perfluorooctane sulfonic acid
- 1H,1H,2H,2H-Perfluorodecanesulfonic acid
- 1H,1H,2H,2H-Perfluorododecane sulfonic acid

PFAS AOAC Methods

AOAC SMPR 2023.003 PFAS in Food

These CRMs encompass all targeted compounds in AOAC SMPR 2023.003 for PFAS contaminants commonly found in produce, beverages, dairy products, eggs and other food dietary products.

PFAS in Food Reference Standard 1

AOAC-PFAS-MIX-001 — **1 mL**

2 µg/mL each in ACN : MeOH (96:04) — 30 comps.

Perfluoro-n-butanoic acid	Perfluoro-n-tetradecanoic acid	Perfluorotridecanesulfonic acid
Perfluoro-n-pentanoic acid	Perfluorobutane-1-sulfonic acid	Perfluorooctane sulfonamide
Perfluoro-n-hexanoic acid	Perfluoropentanesulfonic acid	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
Perfluoro-n-heptanoic acid	Perfluorohexane-1-sulfonic acid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
Perfluoro-n-octanoic acid	Perfluoroheptanesulfonic acid	Perfluoro(2-methyl-3-oxahexanoic) acid
Perfluoro-n-nonanoic acid	Perfluorooctane-1-sulfonic acid	4,8-Dioxa-3H-perfluorononanoic acid
Perfluoro-n-decanoic acid	Perfluorononanesulfonic acid	1H,1H,2H,2H-Perfluorohexanesulfonic acid
Perfluoro-n-undecanoic acid	Perfluorodecane-1-sulfonic acid	1H,1H,2H,2H-Perfluorooctane sulfonic acid
Perfluoro-n-dodecanoic acid	Perfluoroundecanesulfonic acid	1H,1H,2H,2H-Perfluorodecanesulfonic acid
Perfluoro-n-tridecanoic acid	Perfluorododecanesulfonic acid	1H,1H,2H,2H-Perfluorododecane sulfonic acid

PFAS in Food Reference Standard 3

AOAC-PFAS-MIX-003 — **1 mL**

2 µg/mL each in ACN : MeOH (96:04) — 2 comps.

Capstone A
Capstone B

PFAS in Food Reference Standard 4

AOAC-PFAS-MIX-004 — **1 mL**

2 µg/mL each in ACN : MeOH (96:04) — 4 comps.

1H,1H,2H,2H-Perfluorohexan-1-ol (2-Perfluorobutyl ethanol
1H,1H,2H,2H-Perfluorooctan-1-ol
1H,1H,2H,2H-Perfluoro-1-decanol
1H,1H,2H,2H-Perfluorododecan-1-ol

PFAS in Food Reference Singles

Each in 100 µg/mL in ACN

Mono[2-(perfluorooctyl)ethyl] phosphate (8:2-MonoPAP)	**PFAP-001S**	1 mL
Bis[2-(perfluorohexyl)ethyl]phosphate (6:2-DiPAP)	**PFAP-002S**	1 mL
1H,1H,2H,2H-Perfluoro-1-decanol	**PFAP-004S**	1 mL
1H,1H,2H,2H-Perfluorododecan-1-ol	**PFAS-001S**	1 mL

AOAC 2023.003 PFAS in Food Set

AOAC-PFAS-SET — **7 x 1 mL**

AOAC-PFAS-MIX-001, AOAC-PFAS-MIX-003, AOAC-PFAS-MIX-004, PFAP-001S, PFAP-002S, PFAP-003S, PFAP-003S

AOAC SMPR 2025.001 PFAS in Food Packaging Materials

These CRMs include all targeted compounds in AOAC SMPR 2025.001 for identifying PFAS contaminants in packaging materials that contact food.

AOAC 2025.001 PFAS in Food Contact Materials

PFAS-FCM-SET — **7 x 1 mL**

PFAP-001S-M-0.02X, PFAP-002S-M-0.02X, PFAP-006S-M-0.02X, PFAP-007S-M-0.02X, PFAP-008S-M-0.02X, PFAS-001S-0.02X, PFAS-FCM-MIX-001, PFAS-FCM-MIX-002

PFAS in Food Contact Materials Singles

Each in 2 µg/mL in MeOH

Mono[2-(perfluorooctyl)ethyl] phosphate (8:2-MonoPAP)	**PFAP-001S-M-0.02X**	1 mL
Bis[2-(perfluorohexyl)ethyl]phosphate (6:2-DiPAP)	**PFAP-002S-M-0.02X**	1 mL
Bis(2-(ethyl((perfluorooctyl)sulfonyl)amino)ethyl) hydrogen phosphate	**PFAP-006S-M-0.02X**	1 mL
Bis[2-(perfluorodecyl)ethyl] phosphate (10:2 diPAP)	**PFAP-007S-M-0.02X**	1 mL
[2-(perfluorooctyl)ethyl], [2-(perfluorohexyl)ethyl] phosphate (6:2/8:2 diPAP)	**PFAP-008S-M-0.02X**	1 mL
1H,1H,2H,2H-Perfluorododecan-1-ol	**PFAS-001S-0.02X**	1 mL

PFAS in Food Contact Materials Mix 1

PFAS-FCM-MIX-001 — **1 mL**

2 µg/mL each in ACN : MeOH (96:04) — 28 comps.

1H,1H,2H,2H-Perfluorooctane sulfonic acid	Perfluoroundecanesulfonic acid	Perfluoro-n-undecanoic acid
1H,1H,2H,2H-Perfluorodecanesulfonic acid	Perfluorododecanesulfonic acid	Perfluoro-n-dodecanoic acid
Perfluorooctane sulfonamide	Perfluorotridecanesulfonic acid	Perfluoro-n-tridecanoic acid
1H,1H,2H,2H-Perfluorohexanesulfonic acid	Perfluoro-n-butanoic acid	Perfluoro-n-tetradecanoic acid
Perfluorobutane-1-sulfonic acid	Perfluoro-n-pentanoic acid	4,8-Dioxa-3H-perfluorononanoic acid
Perfluoropentanesulfonic acid	Perfluoro-n-hexanoic acid	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
Perfluorohexane-1-sulfonic acid	Perfluoro-n-heptanoic acid	Perfluoroheptanesulfonic acid
Perfluorooctane-1-sulfonic acid	Perfluoro-n-octanoic acid	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid
Perfluorononanesulfonic acid	Perfluoro-n-nonanoic acid	
Perfluorodecane-1-sulfonic acid	Perfluoro-n-decanoic acid	

PFAS in Food Contact Materials Mix 2

PFAS-FCM-MIX-002 — **1 mL**

2 µg/mL each in ACN — 18 comps.

1H,1H,2H,2H-Perfluorododecane sulfonic acid	3-Perfluoropropyl propanoic acid	Perfluorooctane sulfonamidoacetic acid
2-(Perfluorohexyl)ethyl methacrylate	2H,2H,3H,3H-Perfluorooctanoic acid	N-ethylperfluoro-1-octanesulfonamidoacetic acid
2H-Perfluoro-2-octenoic acid	2H,2H,3H,3H-Perfluorodecanoic acid	2-(Perfluorohexyl)ethyl acylate
2H-Perfluoro-2-dodecenoic acid	1H,1H,2H,2H-Perfluorooctan-1-ol	2H,2H-Perfluorooctanoic acid
2H,2H-Perfluorodecanoic acid	1H,1H,2H,2H-Perfluoro-1-decanol	Perfluorohexadecanoic acid
2H,2H-Perfluorododecanoic acid	1H,1H,2H,2H-Perfluorododecan-1-ol	Perfluoro(2-methyl-3-oxahexanoic) acid

Other PFAS Methods

Consumer Product Safety Commission (CPSC) PFAS in Consumer Products

PFAS are widely used in consumer products for their water-repellent and fire-resistant properties. However, they have been linked to adverse effects on the environment and human health. PFAS-CPSC-SET includes 46 PFAS compounds found in consumer products targeted by the Consumer Product Safety Commission (CPSC).

PFAS in Consumer Products Set
PFAS-CPSC-SET **4 x 1 mL**
PFAS-CPSC-01, PFAS-CPSC-02, PFAS-CPSC-03, PFAS-CPSC-04

PFAS in Consumer Products Mix 1
PFAS-CPSC-01 **1 mL**
2 µg/mL 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
- Perfluoroheptanesulfonic acid
- Perfluorohexane-1-sulfonic acid
- 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

PFAS in Consumer Products Mix 2
PFAS-CPSC-02 **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

PFAS in Consumer Products Mix 3
PFAS-CPSC-03 **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

PFAS in Consumer Products Mix 4
PFAS-CPSC-04 **1 mL**
100 µg/mL each in MeOH 2 comps.

- Bis[2-(perfluorohexyl)ethyl]phosphate
- Bis[2-(perfluorooctyl)ethyl] phosphate

PFAS in Textiles

PFAS in Textiles Reference Standard
PFAS-TXTL-MIX-001 **1 mL**
2 µg/mL each in ACN 6 comps.

- Perfluoro-n-dodecanoic acid
- Perfluoro-n-decanoic acid
- Perfluoro-n-tridecanoic acid
- Perfluoro-n-tetradecanoic acid
- Perfluoro-n-undecanoic acid
- Perfluoro-n-nonanoic acid

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

Canadian Drinking Water PFAS Standard

Canadian Drinking Water PFAS Standard
CDW-PFAS **1 mL**
2 µg/mL each in MeOH 9 comps.

- Perfluoro-n-octanoic acid
- Perfluorooctane-1-sulfonic acid
- Perfluoro-n-butanoic acid
- Perfluorobutane-1-sulfonic acid
- Perfluorohexane-1-sulfonic acid
- Perfluoro-n-pentanoic acid
- Perfluoro-n-hexanoic acid
- Perfluoro-n-heptanoic acid
- Perfluoro-n-nonanoic acid

Other PFAS Methods

UK Drinking Water Inspectorate

These CRMs include all 48 PFAS compounds that the Drinking Water Inspectorate (DWI) in the UK has listed in their updated guidance for PFAS in drinking water.

UK Drinking Water Inspectorate PFAS Set
DWI-PFAS-SET — **4 x 1 mL**
DWI-PFAS-MIX-001, DWI-PFAS-MIX-002, DWI-PFAS-MIX-003, PFOS-041S-0.02X

Drinking Water Inspectorate PFAS Reference Standard Mix I
DWI-PFAS-MIX-001 — **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

Drinking Water Inspectorate PFAS Reference Standard Mix II
DWI-PFAS-MIX-002 — **1 mL**
2 µg/mL each in MeOH:Water 95:5 — 12 comps.

- Nonafluoro-3,6-dioxaheptanoic acid
- Sulfluramid
- 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol
- Perfluoro(2-ethoxyethane)sulphonic acid
- 3-Perfluoropropyl propanoic acid
- Perfluorododecanesulfonic acid
- 2H,2H,3H,3H-Perfluorooctanoic acid
- Perfluoro-3-methoxypropanoic acid
- Perfluoro(4-methoxybutanoic) acid
- 2H,2H,3H,3H-Perfluorodecanoic acid
- N-Methylperfluoro-1-octanesulfonamide
- N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide

Drinking Water Inspectorate PFAS Reference Standard Mix III
DWI-PFAS-MIX-003 — **1 mL**
2 µg/mL each in MeOH:Water 95:5 — 17 comps.

- Perfluoro-n-butanoic acid
- Perfluoropentanesulfonic acid
- Perfluoro-1-butanesulfonamide
- Capstone B
- 1H,1H,2H,2H-Perfluorooctane sulfonic acid
- Perfluoro-1-hexanesulfonamide
- Perfluoroheptanesulfonic acid
- 1H,1H,2H,2H-Perfluorodecanesulfonic acid
- Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid
- Perfluorononanesulfonic acid
- Perfluorooctane sulfonamidoacetic acid
- Perfluorodecane-1-sulfonic acid
- Perfluorohexadecanoic acid
- Perfluorooctadecanoic acid (PFODA)
- 1H,1H,2H,2H-Perfluorohexanesulfonic acid
- Perfluoroundecanesulfonic acid
- Perfluoro-n-pentanoic acid

Potassium perfluoro-4-ethylcyclohexane sulfonate (PFECHS)
PFOS-041S-0.02X — **1 mL**
2 µg/mL in MeOH

- Potassium perfluoro-4-ethylcyclohexane sulfonate

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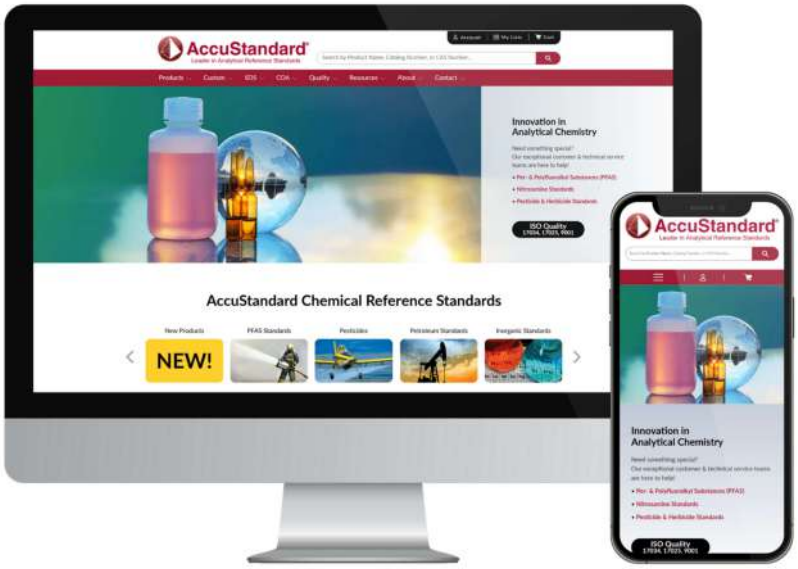

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Email: orders@accustandard.com

Mail: AccuStandard, Inc.
125 Market Street
New Haven, CT 06513
USA

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