



Per-(Poly) Fluoroalkyl Substances (PFAS)

Key Contacts

Trent Temperly
trent.temperly@gel.com
(317) 370-9644

Analysis of Per-(Poly) Fluoroalkyl Substances (PFAS)

GEL Laboratories, LLC (GEL) offers analysis of PFAS by EPA Method 537.1 for drinking water and offer Method 537.1 modified for liquid, solid, tissue, and Aqueous Film Forming Foams (AFFF) samples using LC/MS/MS technology to detect and differentiate the compounds. GEL holds DoD ELAP ISO17025:2017 accreditation for these methods, the modification being fully compliant with QSM 5.3 Table B-15. GEL is NELAP certified for drinking water, non-potable water, and liquid and solid wastes (including soils) using these methods.

A complete list of more than 40 PFAS compounds (including GenX) offered and associated limits are provided on the back of this document.

Our extensive history supporting the Department of Defense, coupled with our dedicated team of chemists makes GEL the right choice for meeting your data quality objectives for projects requiring PFAS analysis.

Snapshot of PFAS Methodology and Capability:

- GEL has four AB SCIEX Triple Quad 5500 LC/MS/MS Systems dedicated to this analysis.
- Full compliance with QSM 5.3 Table B-15 for Non-potable Water, AFFF, Liquid and Solid Wastes
- Full compliance with EPA Method 537.1 for Drinking Water
- NELAP Certified for Drinking Water, Non-Potable Water, and Liquids and Solid Wastes
- Multiple state certifications in all matrices, where available
- EPA Method 533 in development

Analyte	CAS Number	Water Limits			Soil Limits		
		MDL (ng/L)	LOD (ng/L)	LOQ (ng/L)	MDL (ug/Kg)	LOD (ug/Kg)	LOQ (ug/Kg)
1H, 1H, 2H, 2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	1.32	2.64	3.84	0.33	0.66	1
Hexafluoropropyleneoxide dimer acid (HFPO-DA) (Gen-X)	13252-13-6	0.66	1.32	2	0.165	0.33	0.5
Perfluorooctadecanoic acid (PFODA)	16517-11-6	1.32	2.64	4	N/A	N/A	N/A
N-Ethylperfluorooctane sulfonamido ethanol (NEtFOSE)	1691-99-2	1.32	2.64	4	0.395	0.79	1
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.8	1.6	2	0.2	0.4	0.5
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.66	1.32	2	0.165	0.33	0.5
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	2355-31-9	1.32	2.64	4	0.33	0.66	1
N-Methylperfluorooctane sulfonamido ethanol (NMeFOSE)	24448-09-7	1.32	2.64	4	0.39	0.78	1
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.66	1.32	2	0.165	0.33	0.5
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.66	1.32	1.88	0.165	0.33	0.5
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	1.32	2.64	3.8	0.39	0.78	1
2-Perfluorooctyl ethanoic acid (8:2 FTA) (FOEA)	27854-31-5	1.32	2.64	2	0.33	0.66	1
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	2991-50-6	1.32	2.64	4	0.275	0.55	1
Perfluorohexanoic acid (PFHxA)	307-24-4	0.8	1.6	2	0.2	0.4	0.5
Perfluorododecanoic acid (PFDOA)	307-55-1	0.66	1.32	2	0.165	0.33	0.5
N-Methylperfluorooctane sulfonamide (NMeFOSA)	31506-32-8	1.32	2.64	4	0.435	0.87	1
Perfluorooctanoic acid (PFOA)	335-67-1	0.8	1.6	2	0.2	0.4	0.5
Perfluorodecanoic acid (PFDA)	335-76-2	0.78	1.56	2	0.37	0.74	1
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.66	1.32	1.94	0.165	0.33	0.5
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.66	1.32	1.82	0.165	0.33	0.5
4,4,5,5,6,6-Heptafluorohexanoic acid (3:3 FTCA)	356-02-5	0.66	1.32	2	0.165	0.33	0.5
Perfluorobutanoic acid (PFBA)	375-22-4	0.8	1.6	2	0.2	0.4	0.5
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.66	1.32	1.78	0.165	0.33	0.5
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.66	1.32	2	0.165	0.33	0.5
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.66	1.32	1.9	0.185	0.37	0.5
Perfluorononanoic acid (PFNA)	375-95-1	0.66	1.32	2	0.165	0.33	0.5
Perfluorotetradecanoic acid (PFTDA)	376-06-7	0.8	1.6	2	0.2	0.4	0.5
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	1.32	2.64	3.84	0.385	0.77	1
N-Ethylperfluorooctane sulfonamide (EtFOSAm)	4151-50-2	1.32	2.64	4	0.41	0.82	1

		Water Limits			Soil Limits		
2-Perfluorohexyl ethanoic acid (6:2 FTA) (FHEA)	53826-12-3	1.32	2.64	2	0.33	0.66	1
2-Perfluorodecyl ethanoic acid (10:2 FTA) (FDEA)	53826-13-4	1.32	2.64	2	0.33	0.66	1
Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	1.32	2.64	2	N/A	N/A	N/A
Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.7	1.4	1.92	0.165	0.33	0.5
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.66	1.32	2	0.165	0.33	0.5
Perfluorooctane sulfonamide (PFOSAm)	754-91-6	0.66	1.32	2	0.165	0.33	0.5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	756426-58-1	1.32	2.64	3.928	0.33	0.66	1
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	1.32	2.64	3.76	0.4	0.8	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	763051-92-9	1.32	2.64	3.768	0.33	0.66	1
Perfluorododecane sulfonic acid (PFDoS)	79780-39-5	0.66	1.32	2	0.165	0.33	0.484
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	812-70-4	0.66	1.32	2	0.165	0.33	0.5
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	914637-49-3	0.66	1.32	2	0.165	0.33	0.5
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	919005-14-4	0.66	1.32	2	0.33	0.66	1