

EPA Analytical Methods for PFAS in Drinking Water

EPA's recently validated Method 533 focuses on "short-chain" per- and polyfluoroalkyl substances (PFAS) (i.e. those with carbon chain lengths of 4 to 12). [Method 533](#) complements [Method 537.1](#) and can be used to test for 11 additional PFAS. Using both methods, a total of 29 unique PFAS can be effectively measured in drinking water.

Analyte	Abbreviation	CAS #	Method 533	Method 537.1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	11Cl-PF30UdS	763051-92-9	YES	YES
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF30NS	756426-58-1	YES	YES
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4	YES	YES
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6	YES	YES
Perfluorobutanesulfonic acid	PFBS	375-73-5	YES	YES
Perfluorodecanoic acid	PFDA	335-76-2	YES	YES
Perfluorododecanoic acid	PFDoA	307-55-1	YES	YES
Perfluoroheptanoic acid	PFHpA	375-85-9	YES	YES
Perfluorohexanoic acid	PFHxA	307-24-4	YES	YES
Perfluorohexanesulfonic acid	PFHxS	355-46-4	YES	YES
Perfluorononanoic acid	PFNA	375-95-1	YES	YES
Perfluorooctanoic acid	PFOA	335-67-1	YES	YES
Perfluorooctanesulfonic acid	PFOS	1763-23-1	YES	YES
Perfluoroundecanoic acid	PFUnA	2058-94-8	YES	YES
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid	4:2FTS	757124-72-4	YES	NO
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	6:2FTS	27619-97-2	YES	NO
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid	8:2FTS	39108-34-4	YES	NO
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6	YES	NO
Perfluorobutanoic acid	PFBA	375-22-4	YES	NO
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7	YES	NO
Perfluoroheptanesulfonic acid	PFHpS	375-92-8	YES	NO
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5	YES	NO
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1	YES	NO
Perfluoropentanoic acid	PFPeA	2706-90-3	YES	NO
Perfluoropentanesulfonic acid	PFPeS	2706-91-4	YES	NO
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6	NO	YES
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9	NO	YES
Perfluorotetradecanoic acid	PFTA	376-06-7	NO	YES
Perfluorotridecanoic acid	PFTTrDA	72629-94-8	NO	YES