



EPA Analytical Methods for PFAS in Drinking Water

EPA's new 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 EPA [Method 537.1](#) (published November 2018) 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 | CASRN | Method 533 | Method 537.1 |
|--|--------------|-------------|------------|--------------|
| 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid | 11Cl-PF3OUdS | 763051-92-9 | x | x |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid | 9Cl-PF3ONS | 756426-58-1 | x | x |
| 4,8-Dioxa-3H-perfluorononanoic acid | ADONA | 919005-14-4 | x | x |
| Hexafluoropropylene oxide dimer acid | HFPO-DA | 13252-13-6 | x | x |
| Perfluorobutanesulfonic acid | PFBS | 375-73-5 | x | x |
| Perfluorodecanoic acid | PFDA | 335-76-2 | x | x |
| Perfluorododecanoic acid | PFDoA | 307-55-1 | x | x |
| Perfluoroheptanoic acid | PFHpA | 375-85-9 | x | x |
| Perfluorohexanoic acid | PFHxA | 307-24-4 | x | x |
| Perfluorohexanesulfonic acid | PFHxS | 355-46-4 | x | x |
| Perfluorononanoic acid | PFNA | 375-95-1 | x | x |
| Perfluorooctanoic acid | PFOA | 335-67-1 | x | x |
| Perfluorooctanesulfonic acid | PFOS | 1763-23-1 | x | x |
| Perfluoroundecanoic acid | PFUnA | 2058-94-8 | x | x |
| 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid | 4:2FTS | 757124-72-4 | x | |
| 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid | 6:2FTS | 27619-97-2 | x | |
| 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid | 8:2FTS | 39108-34-4 | x | |
| Nonafluoro-3,6-dioxaheptanoic acid | NFDHA | 151772-58-6 | x | |
| Perfluorobutanoic acid | PFBA | 375-22-4 | x | |
| Perfluoro(2-ethoxyethane)sulfonic acid | PFEESA | 113507-82-7 | x | |
| Perfluoroheptanesulfonic acid | PFHpS | 375-92-8 | x | |
| Perfluoro-4-methoxybutanoic acid | PFMBA | 863090-89-5 | x | |
| Perfluoro-3-methoxypropanoic acid | PFMPA | 377-73-1 | x | |
| Perfluoropentanoic acid | PFPeA | 2706-90-3 | x | |
| Perfluoropentanesulfonic acid | PFPeS | 2706-91-4 | x | |
| N-ethyl perfluorooctanesulfonamidoacetic acid | NEtFOSAA | 2991-50-6 | | x |
| N-methyl perfluorooctanesulfonamidoacetic acid | NMeFOSAA | 2355-31-9 | | x |
| Perfluorotetradecanoic acid | PFTA | 376-06-7 | | x |
| Perfluorotridecanoic acid | PFTTrDA | 72629-94-8 | | x |