ROMIL INFORMATION!
PURE CHEMISTRY

PFAS Detection Limits

ROMIL ultra pfas Solvents

ROMIL ultra pfas solvents undergo a rigorous use test to ensure suitability for analysis of poly- and per-fluoroalkyl substances resulting in an ultra low background of pfas analytes. Using complementary methods developed in our laboratories a broad range of PFAS analytes are controlled by their detection limits using LC-MS.

The US Environmental Protection Agency (EPA) has established methods for PFAS contaminants in drinking water. The table compares the EPA's Lowest Concentration Minimum Reporting Limit (LCMRL) against our control limits. In all cases our control limits are well below the EPA values thus ensuring consistently reliable analysis. Indeed, the anecdotal evidence from our users indicates that *ROMIL ultra pfas* solvents are free of PFAS impurities even down to low ppt (parts per trillion) levels.

PFAS Analyte	Abbreviation	Detection Limit on column (ppb)	EPA Method	LCMRL on column (ppb)
Perfluorobutanoic Acid	**PFBA**	<0.1	533	3.25
Perfluoro-4-oxapentanoic Acid	**PF4OPeA:PFMPA**	<0.1	533	0.95
Perfluoro-5-oxahexanoic Acid	**PF5OHxA:PFMBA**	<0.1	533	0.93
Perfluoro-3,6-dioxaheptanoic Acid	**NFDHA**	<0.1	533	4.00
Perfluoro-1-butanesulphonic Acid	**PFBS**	<0.1	533 537.1	0.88 1.58
Perfluorohexanoic Acid	**PFHxA**	<0.1	533 537.1	1.33 0.43
Perfluoro(2-ethoxyethane)sulphonic Acid	**PFEESA**	<0.1	533	0.65
1H,1H,2H,2H-Perfluorohexanesulphonic Acid	**4:2FTS**	<0.1	533	1.18
Perfluoro-1-pentanesulphonic Acid	**PFPeS**	<0.1	533	1.58
Perfluoroheptanoic Acid	**PFHpA**	<0.1	533 537.1	0.65 0.16
4,8-Dioxa-3H-perfluorononanoic Acid (Dodecafluoro-3H-4,8-dioanonanoic Acid)	**ADONA**	<0.1	533 537.1	0.85 0.14
Perfluorohexane-1-sulphonic Acid	**PFHxS**	<0.1	533 537.1	0.93 0.60
Perfluorooctanoic Acid	**PFOA**	<0.1	533 537.1	0.85 0.21
1H,1H,2H,2H-Perfluorooctanesulphonic Acid	**6:2FTS**	<0.1	533	0.350
Perfluoro-1-heptanesulphonic Acid	**PFHpS**	<0.1	533	1.28
Perfluorononanoic Acid	**PFNA**	<0.1	533 537.1	1.20 0.21
Perfluoro-1-octanesulfonamide	**PFOSA**	<1	-	-
Heptadecafluoroocatnesulphonic Acid	**PFOS**	<0.1	533 537.1	1.10 0.68
Perfluorodecanoic Acid	**PFDA**	<0.1	533 537.1	0.58 0.83

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PFAS Analyte	Abbreviation	Detection Limit on column (ppb)	EPA Method	LCMRL on column (ppb)
1H,1H,2H,2H-Perfluorodecanesulphonic Acid	**8:2FTS**	<0.1	533	2.28
9-Chlorohexadecfluoro-3-oxanonane-1-sulphonic Acid	**9Cl-PF3ONS**	<0.1	533 537.1	0.35 0.45
Perfluoro-1-nonanesulphonic Acid	**PFNS**	<1	-	-
Perfluoroundecanoic Acid	**PFUnA**	<0.1	533 537.1	0.68 1.30
N-Methylperfluorooctanesulphonamidoacetic Acid	**NMeFOSAA**	<0.1	537.1	1.08
N-Ethylperfluorooctanesulphonamidoacetic Acid	**NEtFOSAA**	<0.1	537.1	1.20
Perfluoro-1-decanesulphonic Acid	**PFDS**	<0.1	-	-
Perfluorododecanoic Acid	**PFDoA**	<0.1	533 537.1	0.55 0.33
11-Chloroeicosafluoro-3-oxaundecane-1-sulphonic Acid	**11Cl-PF3OUdS**	<0.1	533 537.1	0.40 0.38
Perfluorotridecanoic Acid	**PFTrDA (PFTriA)**	<0.1	537.1	0.13
Perfluorotetradecanoic Acid	**PFTeDA (PFTreA)**	<0.1	537.1	0.30