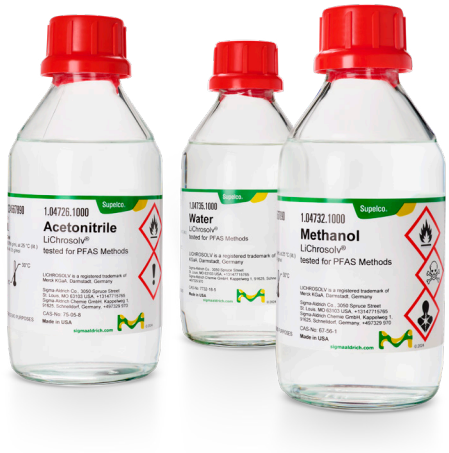
Supelco®
Analytical Products

MERCK

High-purity solvents tested for PFAS methods

Per- and polyfluorinated alkyl substances (PFAS) are synthetic compounds that pose significant health and environmental risks due to their toxicity and persistence in the environment, necessitating effective testing. The US EPA has established guidelines for PFAS testing, which require the use of exceptionally pure solvents in analytical methods to avoid contamination that could lead to misleading results. Ensuring solvent purity is crucial for accurate detection and quantification of PFAS levels in liquid chromatography-mass spectrometry (LC-MS) analyses.

LiChrosolv® solvents, tested for PFAS methods, are engineered to meet the demands of this critical application. Each batch undergoes rigorous testing against all analytes outlined in EPA methods EPA 533, EPA 537.1, and EPA 1633. These solvents are designed to minimize background interference and contain no PFAS compounds above the limit values defined by each EPA method. This ensures reliable and effective testing, facilitating the identification and quantitation of PFAS analytes while eliminating the risk of false positive or negative results in LC-MS/MS analysis.



Product Table

Cat. No.	Product Description	Size
1.04726.1000	Acetonitrile tested for PFAS Methods LiChrosolv®	1 L
1.04732.1000	Methanol tested for PFAS Methods LiChrosolv®	1 L
1.04735.1000	Water tested for PFAS Methods LiChrosolv®	1 L

PFAS testing features

- QC Batch Tested: 40 PFAS analytes tested according to EPA 533 (25 analytes), EPA 537.1 (18 analytes), and EPA 1633 (40 analytes).
- Lot to lot consistency: Multiple batches validated by a third-party accredited testing laboratory and internal laboratories

Features and Benefits

- Application Security: Quality control on 40 PFAS analytes according to EPA 533, EPA 537.1, and EPA 1633.
- Time and Cost Savings: EPA 1633 requires batch validation unless the vendor tests for PFAS analytes listed in this method.
- Lowest Impurity Profile: Ensures an interference-free baseline.
- LC-MS Suitability: ESI/APCI (+) ≤ 2 ppb; ESI/APCI (-) ≤ 10 ppb.
- Minimized Contamination: Borosilicate glass bottles reduce contamination with metal ions.
- Trace Metal Impurity Control: Levels of trace metal impurities are minimized to ≤5 ppb, reducing metal ion adduct formation.
- Microfiltration: Solvents are filtered through a 0.2 µm filter to ensure purity.

PFAS analyte			Method		
Abbreviation	CAS Number	Analyte Name	EPA 533	EPA 537.1	EPA 1633
Perfluoroalkyl carboxylic acids					
PFBA	375-22-4	Perfluorobutanoic acid	x		x
PFPeA	2706-90-3	Perfluoropentanoic acid	x		x
PFHxA	307-24-4	Perfluorohexanoic acid	x	x	x
PFHpA	375-85-9	Perfluoroheptanoic acid	x	x	x
PFOA	335-67-1	Perfluorooctanoic acid	x	x	x
PFNA	375-95-1	Perfluorononaoic acid	x	x	x
PFDA	335-76-2	Perfluorodecanoic acid	x	x	x
PFUnA	2058-94-8	Perfluoroundecanoic acid	x	x	x
PFDoA	307-55-1	Perfluorododecanoic acid	x	x	x
PFTrDA	72629-94-8	Perfluorotridecanoic acid		x	x
PFTA / PFTeDA	376-06-7	Perfluorotetradecanoic acid		x	x
Perfluoroalkyl sulfonic acids					
PFBS	375-73-5	Perfluorobutanesulfonic acid	x	x	x
PFPeS	2706-91-4	Perfluoropentansulfonic acid	x		x
PFHxS	355-46-4	Perfluorohexanesulfonic acid	x	x	x
PFHpS	375-92-8	Perfluoroheptanesulfonic acid	x		x
PFOS	1763-23-1	Perfluorooctanesulfonic acid	x	x	x
PFNS	68259-12-1	Perfluorononanesulfonic acid			x
PFDS	335-77-3	Perfluorodecanesulfonic acid			x
PFDoS	79780-39-5	Perfluorododecanesulfonic acid			x
Fluorotelomer sulfonic acids					
4:2FTS	757124-72-4	1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid	x		x
6:2FTS	27619-97-2	1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid	x		x
8:2FTS	39108-34-4	1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid	x		x
Perfluorooctane sulfonamides					
PFOSA	754-91-6	Perfluorooctanesulfonamide			x
NMeFOSA	31506-32-8	N-methyl perfluorooctanesulfonamide			x
NEtFOSA	4151-50-2	N-ethyl perfluorooctanesulfonamide			x
Perfluorooctane sulfonamidoacetic acids					
NMeFOSAA	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid		x	x
NEtFOSAA	2991-50-6	N-ethyl perfluorooctancesulfonamidoacetic acid		x	x
Perfluorooctane sulfonamide ethanols					
NMeFOSE	24448-09-7	N-methyl perfluorooctanesulfonamidoethaol			x
NEtFOSE	1691-99-2	N-ethyl perfluorooctanesulfonamidoethanol			x
Per- and Polyfluoroether carboxylic acids					
HFPO-DA	13252-13-6	Hexafluoropropylene oxide dimer acid	x	x	x
ADONA	919005-14-4	4,8-Dioxa-3H-perfluorononaoic acid	x	x	x
PFMPA	377-73-1	Perfluoro-3-methoxypropanoic acid	x		x
PFMBA	863090-89-5	Perfluoro-4-methoxybutanoic acid	x		x
NFDHA	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid	x		x
Ether sulfonic acids					
9Cl-PF3ONS	756426-58-1	9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	x	x	x
11Cl-PF3OUDS	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	x	x	x
PFEESA	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid	x		x
Fluorotelomer carboxylic acids					
3:3FTCA	356-02-5	3-Perfluoropropyl propanoic acid			x
5:3FTCA	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid			x
7:3FTCA	812-70-4	3-Perfluoroheptyl propanoic acid			x

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