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Preparation, Separation,
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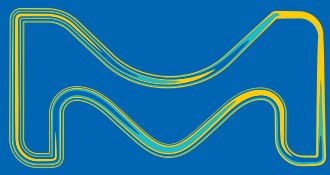
Data Sheet



Detection of PFAS contaminants after filtration with hydrophobic or hydrophilic 0.2 µm and 0.45 µm polypropylene disc filters in Swinnex® devices using modified EPA 537.1.

Compound	Abbreviation(s)	Standard	RL (ppb)	MDL (ppb)	Millipore® PPTG Hydrophobic PP, 0.2 µm (AVE of 3 devices)[a]	Millipore® PPTH Hydrophobic PP, 0.45 µm (AVE of 3 devices)[a]	Millipore® PPHG Hydrophilic PP, 0.2 µm (AVE of 3 devices)[a]	Millipore® PPHH Hydrophilic PP, 0.45 µm (AVE of 2 devices)[a]
Perfluoroalkyl Carboxylic Acids								
Perfluoro-n-butanoic acid	PFBA	$^{13}C_4$-PFBA	0.0040	0.0020	ND	ND	ND	ND
Perfluoro-n-pentanoic acid	PFPeA	$^{13}C_5$-PFPeA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-hexanoic acid	PFHxA	$^{13}C_5$-PFHxA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-heptanoic acid	PFHpA	$^{13}C_4$-PFHpA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-octanoic acid	PFOA	$^{13}C^8$-PFOA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-nonanoic acid	PFNA	$^{13}C_9$-PFNA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-decanoic acid	PFDA	$^{13}C_6$-PFDA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-undecanoic acid	PFUnDA	$^{13}C_7$-PFUnA	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-dodecanoic acid	PFDoDA	$^{13}C_2$-PFDoA	0.0020	0.0010	ND[b]	ND[b]	ND	ND
Perfluoro-n-tridecanoic acid	PFTrDA	$^{13}C_2$-PFTeDA / $^{13}C_2$-PFDoA	0.0020	0.0010	ND[b]	ND[b]	ND	ND
Perfluoro-n-tetradecanoic acid	PFTeDA	$^{13}C_2$-PFTeDA	0.0020	0.0010	ND[b]	ND[b]	ND	ND
Perfluoroalkyl Sulfonic Acids								
Perfluoro-n-butanesulfonic acid	PFBS	$^{13}C_3$-PFBS	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-pentanesulfonic acid	PFPeS	$^{13}C_3$-PFHxS	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-hexanesulfonic acid	PFHxS	$^{13}C_3$-PFHxS	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-heptanesulfonic acid	PFHpS	$^{13}C_8$-PFOS	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-octanesulfonic acid	PFOS	$^{13}C_8$-PFOS	0.0020	0.0010	ND	ND	ND	ND

Compound	Abbreviation(s)	Standard	RL (ppb)	MDL (ppb)	Millipore® PPTG Hydrophobic PP, 0.2 µm (AVE of 3 devices)[a]	Millipore® PPTH Hydrophobic PP, 0.45 µm (AVE of 3 devices)[a]	Millipore® PPHG Hydrophilic PP, 0.2 µm (AVE of 3 devices)[a]	Millipore® P PHH Hydrophilic PP, 0.45 µm (AVE of 2 devices)[a]
Perfluoro-n-n onanesulfonic acid	PFNS	$^{13}C_8$-PFOS	0.0020	0.0010	ND	ND	ND	ND
Perfluoro-n-decanesulfonic acid	PFDS	$^{13}C_8$-PFOS	0.0020	0.0010	ND	ND	ND	ND
Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid	4:2 FTS / 4:2 FTSA	$^{13}C_2$-4:2FTS	0.0080	0.0020	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid	6:2 FTS / 6:2 FTSA	$^{13}C_2$-6:2FTS	0.0080	0.0020	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid	8:2 FTS / 8:2 FTSA	$^{13}C_2$-8:2FTS	0.0080	0.0020	ND	ND	ND	ND
Perfluorooctane Sulfonamides								
Perfluorooctane sulfonamide	PFOSA / FOSA	$^{13}C_8$-FOSA	0.0040	0.0020	ND	ND	ND	ND
Perfluorooctane Sulfonamidoacetic Acids								
N-methyl Perfluorooctane sulfonamidoacetic acid	N-MeFOSAA	D_3-NMeFOSAA	0.0040	0.0020	ND	ND	ND	ND
N-ethyl Perfluorooctane sulfonamidoacetic acid	N-EtFOSAA	D_5-NEtFOSAA	0.0040	0.0020	ND[b]	ND[b]	ND	ND
Per and Polyfluoroether Carboxylic Acids								
Hexafluoropropylene oxide dimer acid	GenX / HFPO-DA	$^{13}C_3$-HFPO-DA	0.0040	0.0020	ND	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid	ADONA / DONA	$^{13}C_3$-HFPO-DA	0.0080	0.0020	ND	ND	ND	ND
Per and Polyfluoroether Sulfonic Acids								
Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	$^{13}C_3$-HFPO-DA	0.0080	0.0020	ND	ND	ND	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	$^{13}C_3$-HFPO-DA	0.0080	0.0020	ND	ND	ND	ND

[a]Three replicate devices per lot tested, one lot per catalog number tested

[b]Associated ID standard outside of control limits for all three devices tested; 13C2-PFDoDA, 13C2-PFTeDA, d5-EtFOSAA

Abbreviations: RL = reporting limit; MDL = minimum detection limit; PP = polypropylene; philic = hydrophilic; phobic = hydrophobic; ND = not detected

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