



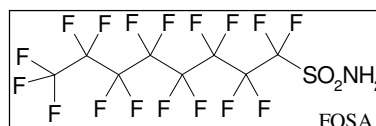
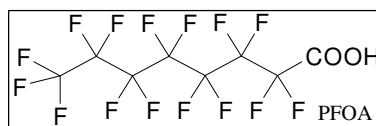
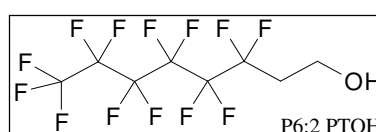
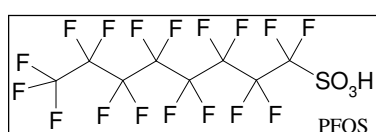
BMF 20 - Perfluorinated Organic Compounds

Perfluorinated Organic Compounds (PFCs) are used in numerous commercial products like fire protection agents, textile protection agents, floor polishers, detergents, paints, paper treatment agents and electronic equipment.

The first PFAs (PFCs = Perfluorinated alkanolic acids, alcohols and sulfonic acids) were based on Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA). However, due to environmental reports with warning about the bioaccumulation of these compounds, new and more readily biodegradable substances have been introduced. Typically, these are various telomeric acids, alcohols and sulfonamides.



The biodegradation-route of the commercial telomers is currently under investigation and new metabolites are likely to be found. Chiron now offers a large range of PFCs and its telomeric acid, alcohols and possible metabolites.



PFAs - Perfluorinated alkanolic acids and alcohols

PFA Sulfonic acids:	2041.4-50-ME	Perfluorobutane sulfonic acid	PFBS
	2719.4-50-ME	Perfluorobutane sulphonate, potassium salt	PFBS-K
	8581.6-50-ME	Perfluorohexane sulfonic acid, potassium salt	PFHxS-K
	2037.8-50-ME	Perfluorooctane sulfonic acid	PFOS
	2193.8-50-ME	Perfluorooctane sulfonic acid, potassium salt	PFOS-K
	8012.8-100MG	Perfluorooctane sulfonylfluoride	
	2192.8-50-ME	Perfluoro-4-ethylcyclohexane sulfonic acid, potassium salt	
Telomeric PFA Sulfonic acid:	2559.8-50-ME	1H,1H,2H,2H-Perfluorooctane sulfonic acid	
PFA Sulfonamides:	2043.8-50-AN	Perfluorooctane sulfonamide	FOSA
PFA Acids:	2190.3-50-ME	Perfluoropropionic acid, sodium salt	PFPrA-Na
	2810.4-50-ME	Perfluorobutyric acid	PFBA
	2189.4-50-ME	Perfluorobutyric acid, sodium salt	PBBA-Na
	2834.5-50-ME	5H-Perfluoropentanoic acid	5H PFPA
	2819.5-50-ME	n-Perfluoropentanoic acid	PFPA
	2590.6-50-ME	Perfluorohexanoic acid	PFHxA
	2820.7-50-ME	Perfluorocyclohexanoic acid	PFCyHxA
	2835.7-50-ME	7H-Perfluoroheptanoic acid	7H PFHPA
	2821.7-50-ME	n-Perfluoroheptanoic acid	PFHpA
	2042.8-50-ME	n-Perfluorooctanoic acid	PFOA
	2822.8-50-ME	n-Perfluorooctanoic acid, ammonium salt	PFOA-NH4
	2191.8-50-ME	Perfluorooctanoic acid, sodium salt	PFOA-Na
	2836.9-50-ME	9H-Perfluorononanoic acid	9H PFNA
	2715.9-50-ME	Perfluorononanoic acid	PFNA
	2823.10-50-ME	n-Perfluorodecanoic acid	PFDA
	2824.10-50-ME	Perfluoro-3,7-dimethyloctanoic acid	PF3,7DiMeOA
	2825.11-50-ME	11H-Perfluoroundecanoic acid	11H PFUndA
	2874.11-50-ME	Perfluoroundecanoic acid	PFUndA
	2826.12-50-ME	n-Perfluorododecanoic acid	PFDodA
	2827.14-50-ME	Perfluorotetradecanoic acid	PFTedA
	2828.16-50-ME	Perfluorohexadecanoic acid	PFHxdA
	2829.18-50-ME	Perfluorooctadecanoic acid	PFOdA
Telomeric acids :	2830.6-50-ME	2H,2H,3H,3H-Perfluorohexanoic acid	3:3 FTCA
	2831.9-50-ME	2H,2H,3H,3H-Perfluorononanoic acid	6:3 FTCA
	2832.9-50-ME	1H,1H-Perfluoro-3,5,5-trimethylhexanoic acid	3,5,5-TriMe 5:1
	8548.10-50-ME	2H,2H-Perfluorodecanoic acid	H2PFDA
	8547.11-50-ME	2H,2H,3H,3H-Perfluoroundecanoic acid	H4PFUnA

Unsaturated telomeric acid:	2833.6-50-ME	2 <i>H</i> ,3 <i>H</i> -Perfluorohex-2-enoic acid	3:3 FTUCA
PFA Acid Internal standards:	2834.5-50-ME	5 <i>H</i> -Perfluoropentanoic acid	5H PFBA
	2835.7-50-ME	7 <i>H</i> -Perfluoroheptanoic acid	7H PFHPA
	2836.9-50-ME	9 <i>H</i> -Perfluorononanoic acid	9H PFNA
	2825.11-50-ME	11 <i>H</i> -Perfluoroundecanoic acid	11H PFUnDA
PFA amides:	2837.4-50-ME	Perfluorobutyramide	
	2838.8-50-ME	Perfluorooctanamide	
		PFA alcohols	
Telomeric alcohols:	2839.4-50-ME	3,3,4,4,4-Perfluorobutan-1-ol	2:2 FTOH
	2860.5-50-ME	1 <i>H</i> ,1 <i>H</i> ,5 <i>H</i> -Perfluoropentan-1-ol	5H 4:1 FTOH
	8802.6-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorohexan-1-ol (2-Perfluorobutyl ethanol)	4:2 FTOH
	2841.6-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> ,3 <i>H</i> -Perfluorohexan-1-ol	3:3 FTOH
	2842.6-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorohexan-1-ol	5:1 FTOH
	2861.7-50-ME	1 <i>H</i> ,1 <i>H</i> ,7 <i>H</i> -Perfluoroheptan-1-ol	7H 6:1 FTOH
	2843.7-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluoroheptan-1-ol	6:1 FTOH
	2147.8-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorooctan-1-ol	6:2 FTOH
	2146.8-50-ME	1 <i>H</i> ,1 <i>H</i> ,8 <i>H</i> -Perfluorooctane-1-ol	8H 7:1 FTOH
	2145.8-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorooctane-1-ol	7:1 FTOH
	2844.9-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> ,3 <i>H</i> -Perfluorononan-1-ol	6:3 FTOH
	2847.9-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluoro-7-methyloctan-1-ol	7Me 6:1 FTOH
	2846.9-50-ME	1 <i>H</i> ,1 <i>H</i> ,9 <i>H</i> -Perfluorononan-1-ol	9H 8:1 FTOH
	2845.9-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorononan-1-ol	8:1 FTOH
	2851.10-50-ME	1 <i>H</i> ,1 <i>H</i> ,10 <i>H</i> ,10 <i>H</i> -Perfluoro-1,10-decanediol	1:8:1 FTdiOH
	2849.10-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorodecan-1-ol	8:2 FTOH
	2848.10-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorodecan-1-ol	9:1 FTOH
	2850.10-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluoro-3,7-dimethyloctan-1-ol	3,7-DiMe 7:1 FTOH
	2854.11-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluoro-9-methyldecan-1-ol	9Me 8:2 FTOH
	2853.11-50-ME	1 <i>H</i> ,1 <i>H</i> ,11 <i>H</i> -Perfluoroundecan-1-ol	11H 10:1 FTOH
	2852.11-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluoroundecan-1-ol	10:1 FTOH
	2767.12-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorododecan-1-ol	10:2 FTOH
	3821.13-50-ME	1 <i>H</i> ,1 <i>H</i> ,13 <i>H</i> -Perfluorotridecan-1-ol	13H 12:1 FTOH
	2855.14-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorotetradecan-1-ol	13:1 FTOH
	2856.16-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorohexadecan-1-ol	15:1 FTOH
	2857.18-50-ME	1 <i>H</i> ,1 <i>H</i> -Perfluorooctadecan-1-ol	17:1 FTOH
Allylic alcohols:	2858.6-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> -Perfluorohex-2-en-1-ol	Allylic 3:3 FTOH
	2859.9-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> -Perfluoronon-2-en-1-ol	Allylic 6:3 FTOH
Internal Standards:	2860.5-50-ME	1 <i>H</i> ,1 <i>H</i> ,5 <i>H</i> -Perfluoropentan-1-ol	5H 4:1 FTOH
	2861.7-50-ME	1 <i>H</i> ,1 <i>H</i> ,7 <i>H</i> -Perfluoroheptan-1-ol	7H 6:1 FTOH
	2146.8-50-ME	1 <i>H</i> ,1 <i>H</i> ,8 <i>H</i> -Perfluorooctane-1-ol	8H 7:1 FTOH
	9825.10-10MG	1 <i>D</i> ,1 <i>D</i> ,2 <i>H</i> ,2 <i>H</i> -1-Hydroxyperfluorodecan	
PFA aldehydes:	2862.7-50-ME	7 <i>H</i> -Perfluoroheptanal	
PFA esters:	9228.13-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorodecyl acrylate	8:2 FTO acrylic acid, Repellion 120 C1
	9520.13-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorodecyl acrylate-d3	8:2 FTO acrylic acid-d3
	9519.14-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorodecyl methacrylate	8:2 FTO methacrylic acid
	9521.14-50-ME	1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -Perfluorodecyl methacrylate-d5	8:2 FTO methacrylic acid-d5
Fluoroalkanes:	8400.6-1ML	Perfluoro- <i>n</i> -hexane	
	8401.7-1ML	Perfluoroheptane, isomer mixture	
	8402.8-1ML	Perfluoro- <i>n</i> -octane	
	8403.9-1ML	Perfluoro- <i>n</i> -nonane	
	8404.10-100MG	Perfluoro- <i>n</i> -decane	
	8405.11-1G	1 <i>H</i> -Perfluoro- <i>n</i> -undecane	
	8406.12-100MG	Perfluoro- <i>n</i> -dodecane	
	8407.13-1G	Perfluoro- <i>n</i> -tridecane	
	8408.14-100MG	Perfluoro- <i>n</i> -tetradecane	
	8409.15-100MG	Perfluoro- <i>n</i> -pentadecane	
	8410.16-100MG	Perfluoro- <i>n</i> -hexadecane	
	8414.20-100MG	Perfluoro- <i>n</i> -eicosane	
Cyclic fluoroalkanes/PAHs:	8416.10-10G	Perfluorodecalin (mix <i>E/Z</i>)	
	8417.14-10G	Perfluoro(ethyl)dimethyldecalin	
	8418.14-10G	Perfluoroperhydrophenanthrene	
	8029.10-10G	Perfluoronaphthalene	
Chlorinated fatty acids:	3746.18-100-ME	9-Chloro- /10-Chlorooctadecanoic acid	
	3745.16-100-ME	7,8-Dichlorohexadecanoic acid	
	3622.18-100-ME	9,10-Dichlorooctadecanoic acid	
	3747.18-100-ME	9,10-/, 9,13-/, 10,12-/, 10,13-	
	3748.18-100-ME	9,10,12,13-Tetrachlorooctadecanoic acid	

