

有機フッ素化合物 標準液

Perfluorinated Compounds(PFCs)

2020



PFC-CVS-C

Catalogue Number	Product (methanol solution)	Qty/Conc				
		PFC-C-CS1 (ng/ml)	PFC-C-CS2 (ng/ml)	PFC-C-CS3 (ng/ml)	PFC-C-CS4 (ng/ml)	PFC-C-CS5 (ng/ml)
用 PFC-CVS-C	PFC-C-CS5				1 kit	
	Calibration Solution CS1 - CS5				(5 ampoules)	
PFC-C-CS1	CS1				200µl	
PFC-C-CS2	CS2				200µl	
PFC-C-CS3	CS3				200µl	
PFC-C-CS4	CS4				200µl	
PFC-C-CS5	CS5				200µl	
Native PFCs						
Perfluoro-n-butanoic acid	PFBA	2.0	10	50	200	1000
Perfluoro-n-pentanoic acid	PPPeA	2.0	10	50	200	1000
Perfluoro-n-hexanoic acid	PFHxA	2.0	10	50	200	1000
Perfluoro-n-heptanoic acid	PFHpA	2.0	10	50	200	1000
Perfluoro-n-octanoic acid	PFOA	2.0	10	50	200	1000
Perfluoro-n-nonanoic acid	PFNA	2.0	10	50	200	1000
Perfluoro-n-decanoic acid	PFDA	2.0	10	50	200	1000
Perfluoro-n-undecanoic acid	PFUdA	2.0	10	50	200	1000
Perfluoro-n-dodecanoic acid	PFDoA	2.0	10	50	200	1000
Perfluoro-n-tridecanoic acid	PFTrDA	2.0	10	50	200	1000
Perfluoro-n-tetradecanoic acid	PFTeDA	2.0	10	50	200	1000
Perfluoro-n-hexadecanoic acid	PFHxDA	2.0	10	50	200	1000
Perfluoro-n-octadecanoic acid	PFODA	2.0	10	50	200	1000
Potassium perfluoro-1-butanesulfonate	L-PFBS	2.0	10	50	200	1000
Sodium perfluoro-1-pentanesulfonate	L-PPPeS	2.0	10	50	200	1000
Sodium perfluoro-1-hexanesulfonate	L-PFHxS	2.0	10	50	200	1000
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	2.0	10	50	200	1000
Sodium perfluoro-1-octanesulfonate	L-PFOS	2.0	10	50	200	1000
Sodium perfluoro-1-nonanesulfonate	L-PFNS	2.0	10	50	200	1000
Sodium perfluoro-1-decanesulfonate	L-PFDS	2.0	10	50	200	1000
Sodium perfluoro-1-dodecanesulfonate	L-PFDoS	2.0	10	50	200	1000
Mass-Labelled PFCs Extraction Standards						
Perfluoro-n-[1,2,3,4- ¹³ C ₄]butanoic acid	MPFBA	50	50	50	50	50
Perfluoro-n-[1,2,3,4,5- ¹³ C ₅]pentanoic acid	M5PPeA	50	50	50	50	50
Perfluoro-n-[1,2,3,4,6- ¹³ C ₅]hexanoic acid	M5PFHxA	50	50	50	50	50
Perfluoro-n-[1,2,3,4- ¹³ C ₄]heptanoic acid	M4PFHpA	50	50	50	50	50
Perfluoro-n-[¹³ C ₈]octanoic acid	M8PFOA	50	50	50	50	50
Perfluoro-n-[¹³ C ₉]nonanoic acid	M9PFNA	50	50	50	50	50
Perfluoro-n-[1,2,3,4,5,6- ¹³ C ₆]decanoic acid	M6PFDA	50	50	50	50	50
Perfluoro-n-[1,2,3,4,5,6,7- ¹³ C ₇]undecanoic acid	M7PFUdA	50	50	50	50	50
Perfluoro-n-[1,2- ¹³ C ₂]dodecanoic acid	MPFDoA	50	50	50	50	50
Perfluoro-n-[1,2- ¹³ C ₂]tetradecanoic acid	M2PFTeDA	50	50	50	50	50
Sodium perfluoro-1-[2,3,4- ¹³ C ₃]butanesulfonate	M3PFBS	50	50	50	50	50
Sodium perfluoro-1-[1,2,3- ¹³ C ₃]hexanesulfonate	M3PFHxS	50	50	50	50	50
Sodium perfluoro-[¹³ C ₈]octanesulfonate	M8PFOS	50	50	50	50	50
Mass-Labelled PFCs Injection Standards						
Perfluoro-n-[1,2,3,4- ¹³ C ₃]butanoic acid	M3PFBA	50	50	50	50	50
Perfluoro-n-[1,2- ¹³ C ₂]octanoic acid	M2PFOA	50	50	50	50	50
Perfluoro-n-[1,2- ¹³ C ₂]decanoic acid	MPFDA	50	50	50	50	50
Sodium perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonate	MPFOS	50	50	50	50	50

NOTE: Listed concentrations are reported as the salt.

用 第一種特定化學物質

PFC-CVS-C

Catalogue Number	Product (methanol solution)	Qty/Conc		
		MPFAC-C-ES (ng/ml)	MPFAC-C-IS (ng/ml)	PFAC-MXC (ng/ml)
用 MPFAC-C-ES	Mass-Labelled PFC Extraction Standards Soluiton	—	—	1.2ml
用 MPFAC-C-IS	Mass-Labelled PFC Injection Standards Soluiton	—	—	1.2ml
用 PFAC-MXC	Native PFC Stock Soluiton	—	—	1.2ml
Native PFCs				
Perfluoro-n-butanoic acid	PFBA	—	—	2000
Perfluoro-n-pentanoic acid	PPPeA	—	—	2000
Perfluoro-n-hexanoic acid	PFHxA	—	—	2000
Perfluoro-n-heptanoic acid	PFHpA	—	—	2000
Perfluoro-n-octanoic acid	PFOA	—	—	2000
Perfluoro-n-nonanoic acid	PFNA	—	—	2000
Perfluoro-n-decanoic acid	PFDA	—	—	2000
Perfluoro-n-undecanoic acid	PFUdA	—	—	2000
Perfluoro-n-dodecanoic acid	PFDoA	—	—	2000
Perfluoro-n-tridecanoic acid	PFTrDA	—	—	2000
Perfluoro-n-tetradecanoic acid	PFTeDA	—	—	2000
Perfluoro-n-hexadecanoic acid	PFHxDA	—	—	2000
Perfluoro-n-octadecanoic acid	PFODA	—	—	2000
Potassium perfluoro-1-butanesulfonate	L-PFBS	—	—	2000
Sodium perfluoro-1-pentanesulfonate	L-PPPeS	—	—	2000
Sodium perfluoro-1-hexanesulfonate	L-PFHxS	—	—	2000
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	—	—	2000
Sodium perfluoro-1-octanesulfonate	L-PFOS	—	—	2000
Sodium perfluoro-1-nonanesulfonate	L-PFNS	—	—	2000
Sodium perfluoro-1-decanesulfonate	L-PFDS	—	—	2000
Sodium perfluoro-1-dodecanesulfonate	L-PFDoS	—	—	2000
Mass-Labelled PFCs Extraction Standards				
Perfluoro-n-[1,2,3,4- ¹³ C ₄]butanoic acid	MPFBA	2000	—	—
Perfluoro-n-[1,2,3,4,5- ¹³ C ₅]pentanoic acid	M5PPeA	2000	—	—
Perfluoro-n-[1,2,3,4,6- ¹³ C ₅]hexanoic acid	M5PFHxA	2000	—	—
Perfluoro-n-[1,2,3,4- ¹³ C ₄]heptanoic acid	M4PFHpA	2000	—	—
Perfluoro-n-[¹³ C ₈]octanoic acid	M8PFOA	2000	—	—
Perfluoro-n-[¹³ C ₉]nonanoic acid	M9PFNA	2000	—	—
Perfluoro-n-[1,2,3,4,5,6- ¹³ C ₆]decanoic acid	M6PFDA	2000	—	—
Perfluoro-n-[1,2,3,4,5,6,7- ¹³ C ₇]undecanoic acid	M7PFUdA	2000	—	—
Perfluoro-n-[1,2- ¹³ C ₂]dodecanoic acid	MPFDoA	2000	—	—
Perfluoro-n-[1,2- ¹³ C ₂]tetradecanoic acid	M2PFTeDA	2000	—	—
Sodium perfluoro-1-[2,3,4- ¹³ C ₃]butanesulfonate	M3PFBS	2000	—	—
Sodium perfluoro-1-[1,2,3- ¹³ C ₃]hexanesulfonate	M3PFHxS	2000	—	—
Sodium perfluoro-[¹³ C ₈]octanesulfonate	M8PFOS	2000	—	—
Mass-Labelled PFCs Injection Standards				
Perfluoro-n-[1,2,3,4- ¹³ C ₃]butanoic acid	M3PFBA	—	2000	—
Perfluoro-n-[1,2- ¹³ C ₂]octanoic acid	M2PFOA	—	2000	—
Perfluoro-n-[1,2- ¹³ C ₂]decanoic acid	MPFDA	—	2000	—
Sodium perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonate	MPFOS	—	2000	—

NOTE: Listed concentrations are reported as the salt.

NATIVE LINEAR PERFLUOROALKYLSULFONATES (PFSAs)

Catalogue Number	Product (methanol solution)	Qty/Conc	
L-PFPrS	Sodium perfluoro-1-propanesulfonate	1.2 ml	50 µg/ml
L-PFBS	Potassium perfluoro-1-butanesulfonate	1.2 ml	50 µg/ml
L-PFPeS	Sodium perfluoro-1-pentanesulfonate	1.2 ml	50 µg/ml
L-PFHxS	Sodium perfluoro-1-hexanesulfonate	1.2 ml	50 µg/ml
L-PFHpS	Sodium perfluoro-1-heptanesulfonate	1.2 ml	50 µg/ml
用 L-PFOS	Sodium perfluoro-1-octanesulfonate	1.2 ml	50 µg/ml
用 L-PFOSK	Potassium perfluoro-1-octanesulfonate	1.2 ml	50 µg/ml
L-PFNS	Sodium perfluoro-1-nonanesulfonate	1.2 ml	50 µg/ml
L-PFDS	Sodium perfluoro-1-decanesulfonate	1.2 ml	50 µg/ml
L-PFDsO	Sodium perfluoro-1-dodecanesulfonate	1.2 ml	50 µg/ml

NOTE: Listed concentrations are reported as the salt.

NATIVE PERFLUOROALKYLSULFONATES: SOLUTION/MIXTURE

Catalogue Number	Product (methanol solution)	Qty/Conc	
用 PFS-MXA	Native PFAS Solution/Mixture	1.2 ml	
Potassium perfluoro-1-butanesulfonate		2 µg/ml	
Sodium perfluoro-1-hexanesulfonate		2 µg/ml	
Sodium perfluoro-1-heptanesulfonate		2 µg/ml	
Sodium perfluoro-1-octanesulfonate		2 µg/ml	
Sodium perfluoro-1-decanesulfonate		2 µg/ml	

NOTE: Listed concentrations are reported as the salt.

NATIVE CHLORO-PERFLUOROALKYLSULFONATE

Catalogue Number	Product (methanol solution)	Qty/Conc	
8CI-PFOS	Sodium 8-chloroperfluoro-1-octanesulfonate	1.2 ml	50 µg/ml

NOTE: Listed concentrations are reported as the salt.

NATIVE PERFLUOROETHYLCYCLOHEXANESULFONATE

Catalogue Number	Product (methanol solution)	Qty/Conc	
PFECHS	Perfluoro-4-ethylcyclohexanesulfonate	1.2 ml	50 µg/ml

NOTE: Listed concentrations are reported as the salt.

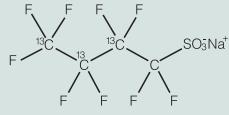
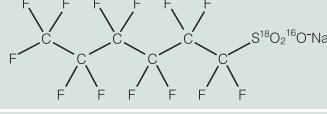
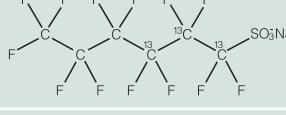
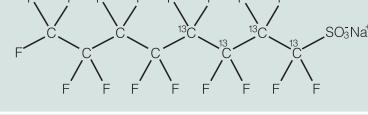
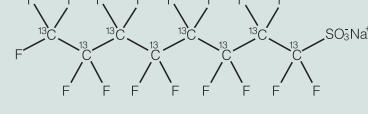
NATIVE BRANCHED PERFLUOROALKYLSULFONATES

Catalogue Number	Product (methanol solution)	Qty/Conc	
br-PFHxSK	L-PFHxS with branched isomers (Potassium Salt)	1.2 ml	50 µg/ml
用 br-PFOSK	L-PFOSK with branched isomers	1.2 ml	50 µg/ml
用 T-PFOS	Potassium perfluorooctanesulfonate (Technical Grade)	1.2 ml	50 µg/ml
NaP3MHpS	Sodium perfluoro-3-methylheptanesulfonate	1.2 ml	50 µg/ml
NaP6MHpS	Sodium perfluoro-6-methylheptanesulfonate	1.2 ml	50 µg/ml
ipPFNS	Sodium perfluoro-7-methyloctanesulfonate	1.2 ml	50 µg/ml

NOTE: Listed concentrations are reported as the salt.

用 第一種特定化學物質

MASS-LABELLED PERFLUOROALKYLSULFONATES

Catalogue Number	Product
M3PFBS	 <p>Sodium perfluoro-1-[2,3,4-¹³C₃]butanesulfonate 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; >99% ¹³C₃</p>
MPFHxS	 <p>Sodium perfluoro-1-hexane[¹⁸O₂]sulfonate 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; >94% ¹⁸O₂</p>
M3PFHxs	 <p>Sodium perfluoro-1-[1,2,3-¹³C₃]hexanesulfonate 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; >99% ¹³C₃</p>
用 MPFOS	 <p>Sodium perfluoro-1-[1,2,3,4-¹³C₄]- octanesulfonate 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; >99% ¹³C₄</p>
用 M8PFOS	 <p>Sodium perfluoro-[¹³C₈]octanesulfonate 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; >99% ¹³C₈</p>

NOTE: Listed concentrations are reported as the salt.

NATIVE LINEAR PERFLUOROALKYLCARBOXYLIC ACIDS (PFCAs)

Catalogue Number	Product (methanol solution)	Qty/Conc
PFBA	Perfluoro-n-butanoic acid	1.2 ml 50 µg/ml
PPeA	Perfluoro-n-pentanoic acid	1.2 ml 50 µg/ml
PFHxA	Perfluoro-n-hexanoic acid	1.2 ml 50 µg/ml
PFHpA	Perfluoro-n-heptanoic acid	1.2 ml 50 µg/ml
PFOA	Perfluoro-n-octanoic acid	1.2 ml 50 µg/ml
T-PFOA	Perfluorooctanoic acid (Technical Grade)	1.2 ml 50 µg/ml
PFNA	Perfluoro-n-nonanoic acid	1.2 ml 50 µg/ml
ipPFNA	Perfluoro-7-methyloctanoic acid (purity 90%)	1.2 ml 45 µg/ml
PFDA	Perfluoro-n-decanoic acid	1.2 ml 50 µg/ml
PFUdA	Perfluoro-n-undecanoic acid	1.2 ml 50 µg/ml
PFDoA	Perfluoro-n-dodecanoic acid	1.2 ml 50 µg/ml
PFTrDA	Perfluoro-n-tridecanoic acid	1.2 ml 50 µg/ml
PFTeDA	Perfluoro-n-tetradecanoic acid	1.2 ml 50 µg/ml
PFHxDA	Perfluoro-n-hexadecanoic acid	1.2 ml 50 µg/ml
PFODA	Perfluoro-n-octadecanoic acid	1.2 ml 50 µg/ml

用 第一種特定化学物質

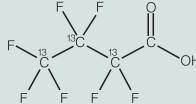
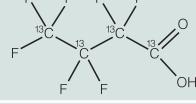
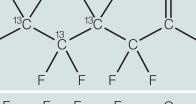
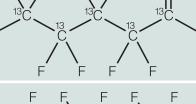
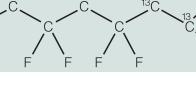
NATIVE PERFLUOROALKYLCARBOXYLIC ACIDS: SOLUTION/MIXTURE

Catalogue Number	Product (methanol solution)	Qty/Conc
PFC-MXA	Native PFCA Solution/Mixture	1.2 ml
Perfluoro-n-butanoic acid	2 µg/ml	
Perfluoro-n-pentanoic acid	2 µg/ml	
Perfluoro-n-hexanoic acid	2 µg/ml	
Perfluoro-n-heptanoic acid	2 µg/ml	
Perfluoro-n-octanoic acid	2 µg/ml	
Perfluoro-n-nonanoic acid	2 µg/ml	
Perfluoro-n-decanoic acid	2 µg/ml	
Perfluoro-n-undecanoic acid	2 µg/ml	
Perfluoro-n-dodecanoic acid	2 µg/ml	
Perfluoro-n-tridecanoic acid	2 µg/ml	
Perfluoro-n-tetradecanoic acid	2 µg/ml	

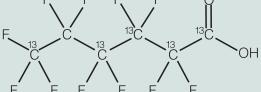
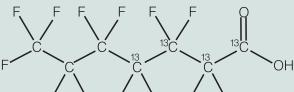
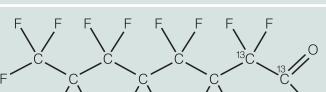
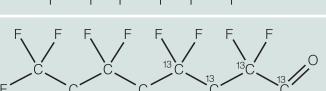
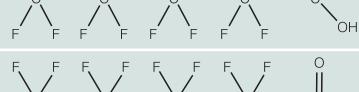
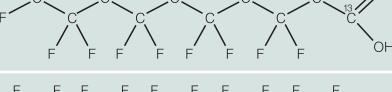
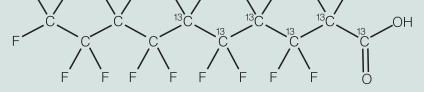
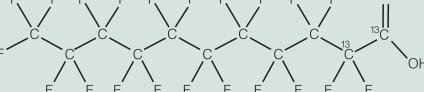
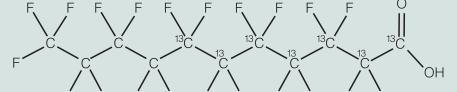
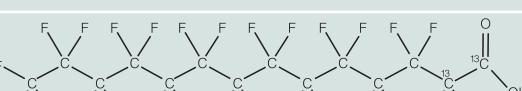
NATIVE BRANCHED PERFLUOROALKYLCARBOXYLIC ACIDS

Catalogue Number	Product (methanol solution)	Qty/Conc
T-PFOA	Technical Ammonium Perfluorooctanoate	1.2 ml 50 µg/ml
P3MHpA	Perfluoro-3-methylheptanoic acid	1.2 ml 50 µg/ml
P4MOA	Perfluoro-4-methyloctanoic acid	1.2 ml 50 µg/ml
ipPFNA	Perfluoro-7-methyloctanoic acid	1.2 ml 50 µg/ml
P355TMHxA	Perfluoro-3,5,5-trimethylhexanoic acid	1.2 ml 50 µg/ml
P37DMOA	Perfluoro-3,7-dimethyloctanoic acid	1.2 ml 50 µg/ml

MASS-LABELLED PERFLUOROALKYLCARBOXYLIC ACIDS

Catalogue Number	Product
M3PFBA	 Perfluoro-n-[2,3,4- ¹³ C ₃]butanoic acid 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; >99% 2,3,4- ¹³ C ₃
MPFBA	 Perfluoro-n-[1,2,3,4- ¹³ C ₄]butanoic acid 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; >99% ¹³ C ₄
M3PFPeA	 Perfluoro-n-[3,4,5- ¹³ C ₅]pentanoic acid 1.2ml 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; >99% 3,4,5- ¹³ C ₅
M5PFPeA	 Perfluoro-n-[1,2,3,4,5- ¹³ C ₅]pentanoic acid 1.2ml 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; >99% ¹³ C ₅
MPFHxA	 Perfluoro-n-[1,2- ¹³ C ₂]hexanoic acid 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; >99% ¹³ C ₂

MASS-LABELLED PERFLUOROALKYLCARBOXYLIC ACIDS

Catalogue Number	Product
M5PFHxA	 <p>Perfluoro-n-[1,2,3,4,6-¹³C₅]hexanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₅</p>
M4PFHpA	 <p>Perfluoro-n-[1,2,3,4,-¹³C₄]heptanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₄</p>
M2PFOA	 <p>Perfluoro-n-[1,2,-¹³C₂]octanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₂</p>
MPFOA	 <p>Perfluoro-n-[1,2,3,4,-¹³C₄]octanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₄</p>
M8PFOA	 <p>Perfluoro-n-[¹³C₈]octanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; 97.9% ¹³C₈ and 2.1% ¹³C₄</p>
MPFNA	 <p>Perfluoro-n-[1,2,3,4,5-¹³C₅]nonanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₅</p>
M9PFNA	 <p>Perfluoro-n-[¹³C₉]nonanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₉</p>
MPFDA	 <p>Perfluoro-n-[1,2,-¹³C₂]decanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₂</p>
MPFDA-A	 <p>Perfluoro-n-[1,2,-¹³C₂]decanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in acetonitrile >99% linear; >99% ¹³C₂</p>
M6PFDA	 <p>Perfluoro-n-[1,2,3,4,5,6-¹³C₆]decanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₆</p>
MPFUdA	 <p>Perfluoro-n-[1,2,-¹³C₂]undecanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₂</p>
M7PFUdA	 <p>Perfluoro-n-[1,2,3,4,5,6,7-¹³C₇]undecanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₇</p>
MPFDoA	 <p>Perfluoro-n-[1,2,-¹³C₂]dodecanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₂</p>
M2PFTeDA	 <p>Perfluoro-n-[1,2,-¹³C₂]tetradecanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₂</p>
M2PFHxDA	 <p>Perfluoro-n-[1,2,-¹³C₂]hexadecanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol >99% linear; >99% ¹³C₂</p>

MIXED NATIVE PFCAs AND PFASs: SOLUTION/MIXTURE

Catalogue Number	Product (methanol solution)	Qty/Conc
用 PFAC-MXA	Native PFCAs and PFASs Solution/Mixture	1.2 ml
Perfluoro-n-butanoic acid		5 µg/ml
Perfluoro-n-pentanoic acid		5 µg/ml
Perfluoro-n-hexanoic acid		5 µg/ml
Perfluoro-n-heptanoic acid		5 µg/ml
Perfluoro-n-octanoic acid		5 µg/ml
Perfluoro-n-nonanoic acid		5 µg/ml
Perfluoro-n-decanoic acid		5 µg/ml
Potassium perfluoro-1-butanesulfonate		5 µg/ml
Sodium perfluoro-1-hexanesulfonate		5 µg/ml
Sodium perfluoro-1-octanesulfonate		5 µg/ml
用 PFAC-MXB	Native PFCAs and PFASs Solution/Mixture	1.2 ml
Perfluoro-n-butanoic acid		2 µg/ml
Perfluoro-n-pentanoic acid		2 µg/ml
Perfluoro-n-hexanoic acid		2 µg/ml
Perfluoro-n-heptanoic acid		2 µg/ml
Perfluoro-n-octanoic acid		2 µg/ml
Perfluoro-n-nonanoic acid		2 µg/ml
Perfluoro-n-decanoic acid		2 µg/ml
Perfluoro-n-undecanoic acid		2 µg/ml
Perfluoro-n-dodecanoic acid		2 µg/ml
Perfluoro-n-tridecanoic acid		2 µg/ml
Perfluoro-n-tetradecanoic acid		2 µg/ml
Perfluoro-n-hexadecanoic acid		2 µg/ml
Perfluoro-n-octadecanoic acid		2 µg/ml
Potassium perfluoro-1-butanesulfonate		2 µg/ml
Sodium perfluoro-1-hexanesulfonate		2 µg/ml
Sodium perfluoro-1-octanesulfonate		2 µg/ml
Sodium perfluoro-1-decanesulfonate		2 µg/ml

MIXED MASS-LABELLED PFCAs AND PFASs: SOLUTION/MIXTURE

Catalogue Number	Product (methanol solution)	Qty/Conc
用 MPFAC-MXA	Mass-Labelled PFCAs and PFASs Solution/Mixture	1.2 ml
Perfluoro-n-[1,2,3,4- ¹³ C ₄]butanoic acid		2 µg/ml
Perfluoro-n-[1,2- ¹³ C ₂]hexanoic acid		2 µg/ml
Perfluoro-n-[1,2,3,4- ¹³ C ₄]octanoic acid		2 µg/ml
Perfluoro-n-[1,2,3,4,5- ¹³ C ₅]nonanoic acid		2 µg/ml
Perfluoro-n-[1,2- ¹³ C ₂]decanoic acid		2 µg/ml
Perfluoro-n-[1,2- ¹³ C ₂]undecanoic acid		2 µg/ml
Perfluoro-n-[1,2- ¹³ C ₂]dodecanoic acid		2 µg/ml
Sodium perfluoro-1-hexane[¹⁸ O ₂]sulfonate		2 µg/ml
Sodium perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonate		2 µg/ml

NOTE: Listed concentrations for the perfluoroalkylsulfonates are reported as the salt.

MIXED NATIVE PFAS: SOLUTION/MIXTURES

Catalogue Number	Product (methanol/4% isopropanol,/ <1% water)	Qty/Conc
用 PFAC-24PAR	Native PFAS Precision and Recovery Standard Solution	1.2 ml
Perfluoro-n-butanoic acid	PFBA	2000
Perfluoro-n-pentanoic acid	PPPeA	2000
Perfluoro-n-hexanoic acid	PFHxA	2000
Perfluoro-n-heptanoic acid	PFHpA	2000
Perfluoro-n-octanoic acid	PFOA	2000
Perfluoro-n-nonanoic acid	PFNA	2000
Perfluoro-n-decanoic acid	PFDA	2000
Perfluoro-n-undecanoic acid	PFUdA	2000
Perfluoro-n-dodecanoic acid	PFDoA	2000
Perfluoro-n-tridecanoic acid	PTFTrDA	2000
Perfluoro-n-tetradecanoic acid	PFTeDA	2000
Perfluoro-1-octanesulfonamide	FOSA	2000
N-methylperfluoro-1-octanesulfonamidoacetic acid	N-MeFOSAA	2000
N-ethylperfluoro-1-octanesulfonamidoacetic acid	N-EtFOSAA	2000
 Potassium perfluoro-1-butanesulfonate	L-PFBS	2000
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	2000
Potassium perfluorohexanenesulfonate	PFHxSK: linear isomer	1620
	PFHxSK: Σ branched isomers	378
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	2000
Potassium perfluorooctanenesulfonate	PFOSK: linear isomer	1580
	PFOSK: Σ branched isomers	422
Sodium perfluoro-1-nonanesulfonate	L-PFNS	2000
Sodium perfluoro-1-decanesulfonate	L-PFDS	2000
Sodium 1H,1H,2H,2H-perfluorohexane sulfonate	4:2FTS	2000
Sodium 1H,1H,2H,2H-perfluoroctane sulfonate	6:2FTS	2000
Sodium 1H,1H,2H,2H-perfluorodecane sulfonate	8:2FTS	2000

NOTE: Listed concentrations are reported as the salt.

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MIXED NATIVE PFAS: SOLUTION/MIXTURES

Catalogue Number	Product (methanol/6% isopropanol,/ <1% water)	Qty/Conc
用PFAC-30PAR	Native PFAS Precision and Recovery Standard Solution	1.2 ml
Perfluoro-n-butanoic acid	PFBA	1000
Perfluoro-n-pentanoic acid	PPPeA	1000
Perfluoro-n-hexanoic acid	PFHxA	1000
Perfluoro-n-heptanoic acid	PFHpA	1000
Perfluoro-n-octanoic acid	PFOA	1000
Perfluoro-n-nonanoic acid	PFNA	1000
Perfluoro-n-decanoic acid	PFDA	1000
Perfluoro-n-undecanoic acid	PFUdA	1000
Perfluoro-n-dodecanoic acid	PFDoA	1000
Perfluoro-n-tridecanoic acid	PFTrDA	1000
Perfluoro-n-tetradecanoic acid	PFTeDA	1000
Perfluoro-1-butanesulfonamide	FBSA	1000
Perfluoro-1-hexanesulfonamide	FHxSA	1000
Perfluoro-1-octanesulfonamide	FOSA	1000
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	1000
N-methylperfluoro-1-octanesulfonamidoacetic acid	N-MeFOSAA: linear isomer N-MeFOSAA: Σ branched isomers	760 240
N-ethylperfluoro-1-octanesulfonamidoacetic acid	N-EtFOSAA: linear isomer N-EtFOSAA: Σ branched isomers	775 225
Potassium perfluoro-1-butanesulfonate	L-PFBS	1000
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	1000
Potassium perfluorohexanenesulfonate	PFHxSK: linear isomer PFHxSK: Σ branched isomers	811 189
Sodium perfluoro-1-heptanesulfonate	L-PFHPS	1000
Potassium perfluoroctanenesulfonate	PFOSK: linear isomer PFOSK: Σ branched isomers	788 211
Sodium perfluoro-1-nonanesulfonate	L-PFNS	1000
Sodium perfluoro-1-decanesulfonate	L-PFDS	1000
Sodium 1H,1H,2H,2H-perfluorohexane sulfonate	4:2FTS	1000
Sodium 1H,1H,2H,2H-perfluoroctane sulfonate	6:2FTS	1000
Sodium 1H,1H,2H,2H-perfluorodecane sulfonate	8:2FTS	1000
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9CI-PF3ONS	1000
Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate	11CI-PF3OUdS	1000

NOTE: Listed concentrations are reported as the salt.

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MIXED NATIVE PFAS: SOLUTION/MIXTURES

Catalogue Number	Product (methanol <1% water)	Qty/Conc
EPA-537PDS-R1	EPA Method 537 Analyte Primary Dilution Standard (branched/linear mix)	1.2 ml
Perfluoro-n-hexanoic acid	PFHxA	2000
Perfluoro-n-heptanoic acid	PFHpA	2000
Perfluoro-n-octanoic acid	PFOA	2000
Perfluoro-n-nonanoic acid	PFNA	2000
Perfluoro-n-decanoic acid	PFDA	2000
Perfluoro-n-undecanoic acid	PFUdA	2000
Perfluoro-n-dodecanoic acid	PFDoA	2000
Perfluoro-n-tridecanoic acid	PFTrDA	2000
Perfluoro-n-tetradecanoic acid	PFTeDA	2000
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	2000
N-methylperfluoro-1-octanesulfonamidoacetic acid	N-MeFOSAA: linear isomer N-MeFOSAA: Σ branched isomers	1520 480
N-ethylperfluoro-1-octanesulfonamidoacetic acid	N-EtFOSAA: linear isomer N-EtFOSAA: Σ branched isomers	1550 450
Potassium perfluoro-1-butanesulfonate	L-PFBS	2000
Potassium perfluorohexanenesulfonate	PFHxSK: linear isomer PFHxSK: Σ branched isomers	1620 378
Potassium perfluoroctanenesulfonate	PFOSK: linear isomer PFOSK: Σ branched isomers	1580 422
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9CI-PF3ONS	1000
Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate	11CI-PF3OUdS	1000

NOTE: Listed concentrations are reported as the salt.

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MIXED NATIVE PFAS: SOLUTION/MIXTURES

Catalogue Number	Product (methanol <1% water)	Qty/Conc
EPA-537PDSL-R1	EPA Method 537 Analyte Primary Dilution Standard (linear isomers only)	1.2 ml
Perfluoro-n-hexanoic acid	PFHxA	2000
Perfluoro-n-heptanoic acid	PFHpA	2000
Perfluoro-n-octanoic acid	PFOA	2000
Perfluoro-n-nonanoic acid	PFNA	2000
Perfluoro-n-decanoic acid	PFDA	2000
Perfluoro-n-undecanoic acid	PFUdA	2000
Perfluoro-n-dodecanoic acid	PFDoA	2000
Perfluoro-n-tridecanoic acid	PFTrDA	2000
Perfluoro-n-tetradecanoic acid	PFTeDA	2000
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	2000
N-methylperfluoro-1-octanesulfonamidoacetic acid	N-MeFOSAA	2000
N-ethylperfluoro-1-octanesulfonamidoacetic acid	N-EtFOSAA	2000
Potassium perfluoro-1-butanesulfonate	L-PFBS	2000
Sodium perfluoro-1-hexanesulfonate	L-PFHxS	2000
Sodium perfluoro-1-octanesulfonate	L-PFOS	2000
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9CI-PF3ONS	2000
Potassium 11-chloroeicosafauro-3-oxaundecane-1-sulfonate	11CI-PF3OUdS	2000

NOTE: Listed concentrations are reported as the salt.

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MIXED NATIVE PFAS: SOLUTION/MIXTURES

Catalogue Number	Product (methanol <1% water)	Qty/Conc
EPA-533PAR	EPA Method 533 Native Analyte Primary Dilution Standard (br/linear mix)	1.2 ml
Perfluoro-n-butanoic acid	PFBA	500
Perfluoro-n-pentanoic acid	PPPeA	500
Perfluoro-n-hexanoic acid	PFHxA	500
Perfluoro-n-heptanoic acid	PFHpA	500
Perfluoro-n-octanoic acid	PFOA	500
Perfluoro-n-nonanoic acid	PFNA	500
Perfluoro-n-decanoic acid	PFDA	500
Perfluoro-n-undecanoic acid	PFUdA	500
Perfluoro-n-dodecanoic acid	PFDoA	500
Perfluoro-n-tridecanoic acid	PFTrDA	500
Perfluoro-n-tetradecanoic acid	PFTeDA	500
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	500
Perfluoro-4-oxapentanoic acid	PF4OPeA	500
Perfluoro-5-oxahexanoic acid	PF5OHxA	500
Perfluoro-3,6-dioxaheptanoic acid	3,6-OPFHpA	500
Potassium perfluoro-1-butanesulfonate	L-PFBS	500
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	500
Potassium perfluorohexanesulfonate	PFHxSK: linear isomer	406
	PFHxSK: Σ branched isomers	94.5
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	500
Potassium perfluorooctanesulfonate	PFOSK: linear isomer	394
	PFOSK: Σ branched isomers	106
Sodium 1H,1H,2H,2H-perfluorohexane sulfonate	4:2FTS	500
Sodium 1H,1H,2H,2H-perfluoroctane sulfonate	6:2FTS	500
Sodium 1H,1H,2H,2H-perfluorododecane sulfonate	8:2FTS	500
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	500
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9CI-PF3ONS	500
Potassium 11-chloroeicosafafluoro-3-oxaundecane-1-sulfonate	11CI-PF3OUdS	500
Potassium perfluoro(2-ethoxyethane)sulfonate	PFEESA	500

PFAC-MXF	Native Replacement PFAS Solution/Mixture	1.2 ml
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3-heptafluoropropoxy)propanoic acid	HFPO-DA	2000
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9CI-PF3ONS	2000
Potassium 11-chloroeicosafafluoro-3-oxaundecane-1-sulfonate	11CI-PF3OUdS	2000

PFAC-MXG	Native Perfluoroether-Carboxylic Acids and -Sulfonate Solution/Mixture	1.2 ml
Perfluoro-4-oxapentanoic acid	PF4OPeA	2000
Perfluoro-5-oxahexanoic acid	PF5OHxA	2000
Perfluoro-3,6-dioxaheptanoic acid	3,6-OPFHpA	2000
Potassium perfluoro(2-ethoxyethane)sulfonate	PFEESA	2000

NOTE: Listed concentrations are reported as the salt.

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MIXED MASS-LABELLED PFAS: SOLUTION/MIXTURES

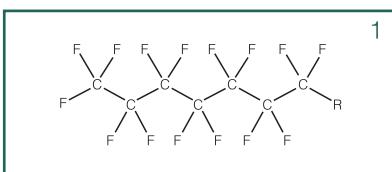
Catalogue Number	Product (methanol <1% water)	Qty/Conc
EPA-537SS-R1	EPA Method 537 Surrogate Primary Dilution Standard (SUR PDS)	1.2 ml
Perfluoro-n-[1,2- ¹³ C ₂]hexanoic acid	MPFHxA	1000
Perfluoro-n-[1,2- ¹³ C ₂]decanoic acid	MPFDA	1000
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)- ¹³ C ₃ -propanoic acid	M3HFPO-DA	1000
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	4000
用 EPA-537IS	EPA Method 537 Internal Standard Primary Dilution Standard (IS PDS)	1.2 ml
Perfluoro-n-[1,2- ¹³ C ₂]octanoic acid	M2PFOA	1000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	4000
Sodium perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonate	MPFOS	3000
Catalogue Number	Product (methanol/2% isopropanol,/ <1% water)	Qty/Conc
用 MPFAC-24ES	Mass-Labelled PFAS Extraction Standard Solution	1.2 ml
Perfluoro-n-[1,2,3,4- ¹³ C ₄]butanoic acid	MPFBA	1000
Perfluoro-n-[1,2,3,4,5- ¹³ C ₅]pentanoic acid	M5PFPeA	1000
Perfluoro-n-[1,2,3,4,6- ¹³ C ₅]hexanoic acid	M5PFHxA	1000
Perfluoro-n-[1,2,3,4- ¹³ C ₄]heptanoic acid	M4PFHpA	1000
Perfluoro-n-[¹³ C ₈]octanoic acid	M8PFOA	1000
Perfluoro-n-[¹³ C ₉]nonanoic acid	M9PFNA	1000
Perfluoro-n-[1,2,3,4,5,6- ¹³ C ₆]decanoic acid	M6PFDA	1000
Perfluoro-n-[1,2,3,4,5,6,7- ¹³ C ₇]undecanoic acid	M7PFUdA	1000
Perfluoro-n-[1,2- ¹³ C ₂]dodecanoic acid	MPFDoA	1000
Perfluoro-n-[1,2- ¹³ C ₂]tetradecanoic acid	M2PFTeDA	1000
Perfluoro-1-[¹³ C ₈]octanesulfonamide	M8FOSA	1000
N-methyl-d3-perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1000
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1000
Sodium perfluoro-1-[2,3,4- ¹³ C ₃]butanesulfonate	M3PFBS	1000
Sodium perfluoro-1-[1,2,3- ¹³ C ₃]hexanesulfonate	M3PFHxS	1000
Sodium perfluoro-[¹³ C ₈]octanesulfonate (>97%)	M8PFOS	1000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- ¹³ C ₂]hexane sulfonate	M2-4:2FTS	1000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- ¹³ C ₂]decane sulfonate	M2-6:2FTS	1000
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	M2-8:2FTS	1000
Catalogue Number	Product (methanol <1% water)	Qty/Conc
用 EPA-533ES	EPA Method 533 Isotope Dilution Standard PDS	1.2 ml
Perfluoro-n-[1,2,3,4- ¹³ C ₄]butanoic acid	MPFBA	500
Perfluoro-n-[1,2,3,4,5- ¹³ C ₅]pentanoic acid	M5PFPeA	500
Perfluoro-n-[1,2,3,4,6- ¹³ C ₅]hexanoic acid	M5PFHxA	500
Perfluoro-n-[1,2,3,4- ¹³ C ₄]heptanoic acid	M4PFHpA	500
Perfluoro-n-[¹³ C ₈]octanoic acid	M8PFOA	500
Perfluoro-n-[¹³ C ₉]nonanoic acid	M9PFNA	500
Perfluoro-n-[1,2,3,4,5,6- ¹³ C ₆]decanoic acid	M6PFDA	500
Perfluoro-n-[1,2,3,4,5,6,7- ¹³ C ₇]undecanoic acid	M7PFUdA	500
Perfluoro-n-[1,2- ¹³ C ₂]dodecanoic acid	MPFDoA	500
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)- ¹³ C ₃ -propanoic acid	M3HFPO-DA	500
Sodium perfluoro-1-[2,3,4- ¹³ C ₃]butanesulfonate	M3PFBS	500
Sodium perfluoro-1-[1,2,3- ¹³ C ₃]hexanesulfonate	M3PFHxS	500
Sodium perfluoro-[¹³ C ₈]octanesulfonate (>97%)	M8PFOS	500
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- ¹³ C ₂]hexane sulfonate	M2-4:2FTS	2000
Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- ¹³ C ₂]decane sulfonate	M2-6:2FTS	2000
N-ethyl-d5-perfluoro-1-octanesulfonamidoacetic acid	M2-8:2FTS	2000
用 EPA-533IS	EPA Method 533 Isotope Performance Standard PDS	1.2 ml
Perfluoro-n-[2,3,4- ¹³ C ₃]butanoic acid	M3PFBA	1000
Perfluoro-n-[1,2- ¹³ C ₂]octanoic acid	M2PFOA	1000
Sodium perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonate	MPFOS	3000

NOTE: Listed concentrations are reported as the salt.

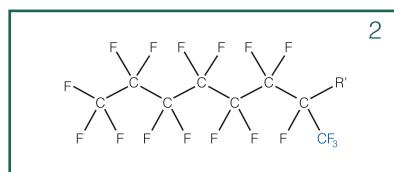
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PFOS/PFOA ISOMERS

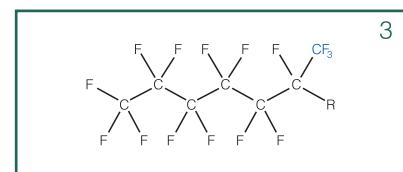
Catalogue Number	Product (methanol solution)	Qty/Conc
P1MHpS	Perfluoro-1-methylheptane sulfonate	200µl 1.00 µg/ml
P3MHpS	Perfluoro-3-methylheptane sulfonate Perfluoro-3-methylheptanoic acid	200µl 1.00 µg/ml 1.90 µg/ml
P4MHpS	Perfluoro-4-methylheptane sulfonate Perfluoro-4-methylheptanoic acid	200µl 1.00 µg/ml 2.20 µg/ml
P5MHpS	Perfluoro-5-methylheptane sulfonate Perfluoro-5-methylheptanoic acid	200µl 1.00 µg/ml 1.96 µg/ml
P6MHpS	Perfluoro-6-methylheptane sulfonate Perfluoro-6-methylheptanoic acid	200µl 1.00 µg/ml 3.10 µg/ml
P55DMHxS	Perfluoro-5,5-dimethylhexane sulfonate Perfluoro-5,5-dimethylhexanoic acid	200µl 1.00 µg/ml 1.95 µg/ml
P45DMHxS	Perfluoro-4,5-dimethylhexane sulfonate Perfluoro-4,5-dimethylhexanoic acid Perfluoro-3,5-dimethylhexane sulfonate Perfluoro-3,5-dimethylhexanoic acid	200µl 1.00 µg/ml 1.22 µg/ml 0.50 µg/ml 0.60 µg/ml



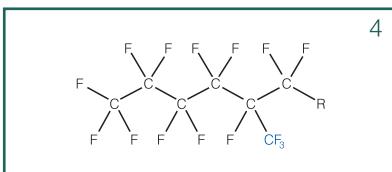
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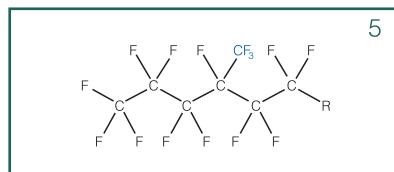
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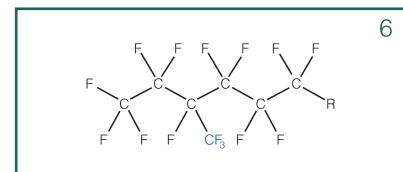
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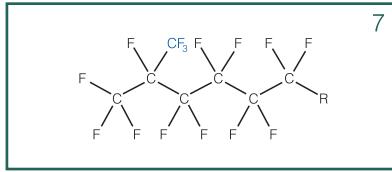
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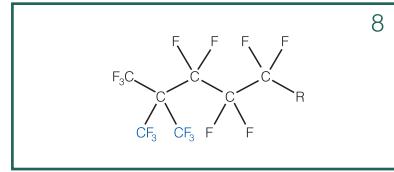
Perfluoro-4-methyl-



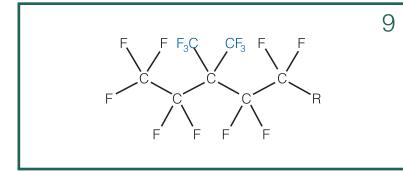
Perfluoro-5-methyl-



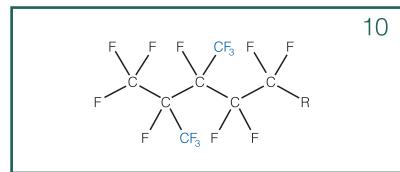
Perfluoro-6-methyl-



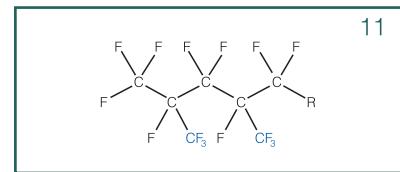
Perfluoro-5,5-dimethyl-



Perfluoro-4,4-dimethyl-



Perfluoro-4,5-methyl-



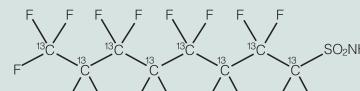
Perfluoro-3,5-dimethyl-

NOTE: R=CO₃⁻ and CF₃SO₃⁻ except for Isomer 2 where R'=SO₃⁻ only

NATIVE PERFLUOROOCTANESULFONAMIDES (FOSAs)

Catalogue Number	Product	Qty/Conc	
FBSA-I	Perfluoro-1-butanesulfonamide in isopropanol	1.2 ml	50 µg/ml
FHxSA-I	Perfluoro-1-hexanesulfonamide in methanol	1.2 ml	50 µg/ml
FOSA-I	Perfluoro-1-octanesulfonamide in methanol	1.2 ml	50 µg/ml
FDSA-I	Perfluoro-1-decanesulfonamide in methanol	1.2 ml	50 µg/ml
N-MeFBSA-M	N-methylperfluoro-1-butanesulfonamide in methanol	1.2 ml	50 µg/ml
N-MeFOSA-M	N-methylperfluoro-1-octanesulfonamide in methanol	1.2 ml	50 µg/ml
N,N-Me2FOSA-M	N,N-dimethylperfluoro-1-octanesulfonamide in methanol	1.2 ml	50 µg/ml
N-EtFOSA-M	N-ethylperfluoro-1-octanesulfonamide in methanol	1.2 ml	50 µg/ml

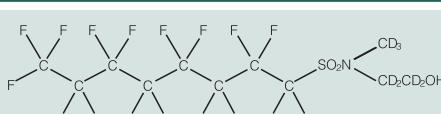
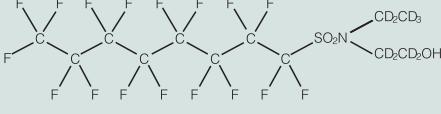
MASS-LABELLED PERFLUOROOCTANESULFONAMIDES

Catalogue Number	Product
M8FOSA-M	 Perfluoro-1-[¹³ C ₈]octanesulfonamide 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; >99% ¹³ C ₈
d-N-MeFOSA-M	 N-methyl-d ₃ -perfluoro-1-octanesulfonamide 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; 98% ² H ₃
d-N-EtFOSA-M	 N-ethyl-d ₅ -perfluoro-1-octanesulfonamide 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; 98% ² H ₅

NATIVE PERFLUOROOCTANESULFONAMIDOETHANOLS (FOSEs)

Catalogue Number	Product (nonane solution)	Qty/Conc	
N-MeFOSE-M	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	1.2 ml	50 µg/ml
N-EtFOSE-M	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	1.2 ml	50 µg/ml

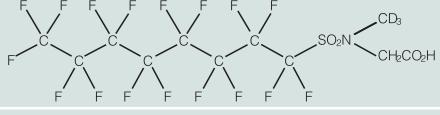
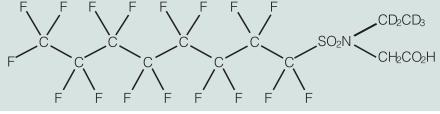
MASS-LABELLED PERFLUOROOCTANESULFONAMIDOETHANOLS

Catalogue Number	Product
d7-N-MeFOSE-M	 2-(N-methyl-d ₃ -perfluoro-1-octane-sulfonamido)ethan-d ₄ -ol 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; 98% ² H ₇
d9-N-EtFOSE-M	 2-(N-ethyl-d ₅ -perfluoro-1-octane-sulfonamido)ethan-d ₄ -ol 1.2 ml; 50 µg/ml (± 2.5 µg/ml); in methanol >99% linear; 98% ² H ₉

NATIVE PERFLUOROOCTANESULFONAMIDOACETIC ACIDS (FOSAAs)

Catalogue Number	Product (methanol solution)	Qty/Conc	
FOSAA	Perfluoro-1-octanesulfonamidoacetic acid	1.2 ml	50 µg/ml
N-MeFOSAA	N-methylperfluoro-1-octanesulfonamidoacetic acid	1.2 ml	50 µg/ml
br-NMeFOSAA	N-methylperfluoro-1-octanesulfonamidoacetic acid isomeric mixture	1.2 ml	50 µg/ml
N-EtFOSAA	N-ethylperfluoro-1-octanesulfonamidoacetic acid	1.2 ml	50 µg/ml
br-NEtFOSAA	N-ethylperfluoro-1-octanesulfonamidoacetic acid isomeric mixture	1.2 ml	50 µg/ml

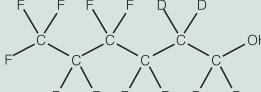
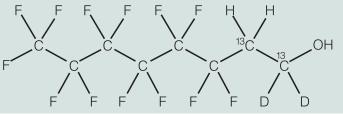
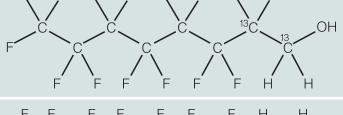
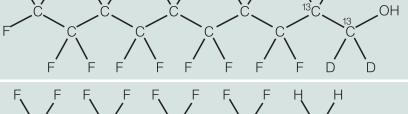
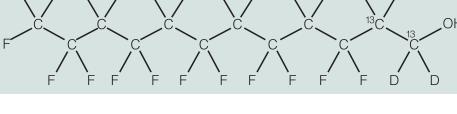
MASS-LABELLED PERFLUOROOCTANESULFONAMIDOACETIC ACIDS

Catalogue Number	Product
d3-N-MeFOSAA	 N-methyl-d ₃ -perfluoro-1-octane - sulfonamidoacetic acid 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; 98% ² H ₃
d5-N-EtFOSAA	 N-ethyl-d ₅ -perfluoro-1-octane - sulfonamidoacetic acid 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol >99% linear; 98% ² H ₅

NATIVE TELOMER ALCOHOLS (FTOHs)

Catalogue Number	Product (methanol solution)	Qty/Conc
FBET	2-Perfluorobutyl ethanol (4:2)	1.2 ml 50 µg/ml
5:2sFTOH	1-Perfluoropentyl ethanol (5:2 secondary)	1.2 ml 50 µg/ml
FHET	2-Perfluorohexyl ethanol (6:2)	1.2 ml 50 µg/ml
7:2sFTOH	1-Perfluoroheptyl ethanol (7:2 secondary)	1.2 ml 50 µg/ml
FOET	2-Perfluoroctyl ethanol (8:2)	1.2 ml 50 µg/ml
FDET	2-Perfluorodecyl ethanol (10:2)	1.2 ml 50 µg/ml

MASS-LABELLED TELOMER ALCOHOLS

Catalogue Number	Product
MFBET	 2-Perfluorobutyl-[1,1,2,2- ² H ₄]-ethanol (4:2) 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol ; > 98% 1,1,2,2- ² H ₄
MFHET	 2-Perfluorohexyl-[1,1- ² H ₂]-[1,2- ¹³ C ₂]-ethanol (6:2) 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol ; 98% 1,1- ² H ₂ ; >99% 1,2- ¹³ C ₂
M2FHET	 2-Perfluorohexyl- [1,2- ¹³ C ₂]-ethanol (6:2) 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol ; >99% 1,2- ¹³ C ₂
MFOET	 2-Perfluoroctyl-[1,1- ² H ₂]-[1,2- ¹³ C ₂]-ethanol (8:2) 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol ; 98% 1,1- ² H ₂ ; >99% 1,2- ¹³ C ₂
M2FOET	 2-Perfluoroctyl- [1,2- ¹³ C ₂]-ethanol (8:2) 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol ; >99% 1,2- ¹³ C ₂
MFDET	 2-Perfluorodecyl-[1,1- ² H ₂]-[1,2- ¹³ C ₂]-ethanol (10:2) 1.2 ml; 50 µg/ml (\pm 2.5 µg/ml); in methanol ; 98% 1,1- ² H ₂ ; >99% 1,2- ¹³ C ₂

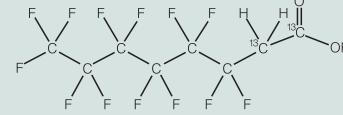
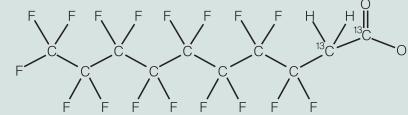
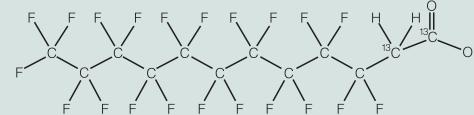
NATIVE TELOMER ACIDS (FTAs)

Catalogue Number	Product (isopropanol solution)	Qty/Conc	
FHEA	2-Perfluorohexyl ethanoic acid (6:2)	1.2 ml	50 µg/ml
FOEA	2-Perfluoroctyl ethanoic acid (8:2)	1.2 ml	50 µg/ml
FDEA	2-Perfluorodecyl ethanoic acid (10:2)	1.2 ml	50 µg/ml
Catalogue Number	Product (methanol solution)		Qty/Conc
FPrPA	3-Perfluoropropyl propanoic acid (3:3)	1.2 ml	50 µg/ml
FPePA	3-Perfluoropentyl propanoic acid (5:3)	1.2 ml	50 µg/ml
FHpPA	3-Perfluoroheptyl propanoic acid (7:3)	1.2 ml	50 µg/ml

NATIVE TELOMER ACIDS: SOLUTION/MIXTURE

Catalogue Number	Product (isopropanol solution)	Qty/Conc
FTA-MXA	Native FTA Solution/Mixture	1.2 ml
2-Perfluorohexyl ethanoic acid (6:2)		2 µg/ml
2-Perfluoroctyl ethanoic acid (8:2)		2 µg/ml
2-Perfluorodecyl ethanoic acid (10:2)		2 µg/ml

MASS-LABELLED TELOMER ACIDS

Catalogue Number	Product
MFHEA	 2-Perfluorohexyl-[1,2- ¹³ C ₂]-ethanoic acid (6:2) 1.2 ml; 50 µg/ml (±2.5 µg/ml); in isopropanol ; >99% ¹³ C ₂
MFOEA	 2-Perfluoroctyl-[1,2- ¹³ C ₂]-ethanoic acid (8:2) 1.2 ml; 50 µg/ml (±2.5 µg/ml); in isopropanol ; >99% ¹³ C ₂
MFDEA	 2-Perfluorodecyl-[1,2- ¹³ C ₂]-ethanoic acid (10:2) 1.2 ml; 50 µg/ml (±2.5 µg/ml); in isopropanol ; >99% ¹³ C ₂

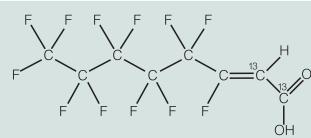
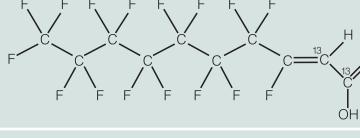
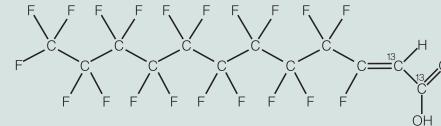
MASS-LABELLED TELOMER ACIDS: SOLUTION/MIXTURE

Catalogue Number	Product (isopropanol solution)	Qty/Conc
MFTA-MXA	Mass-Labelled FTA Solution/Mixture	1.2 ml
2-Perfluorohexyl -[1,2- ¹³ C ₂]-ethanoic acid (6:2)		2 µg/ml
2-Perfluoroctyl -[1,2- ¹³ C ₂]-ethanoic acid (8:2)		2 µg/ml
2-Perfluorodecyl -[1,2- ¹³ C ₂]-ethanoic acid (10:2)		2 µg/ml

NATIVE UNSATURATED TELOMER ACIDS (FTUAs)

Catalogue Number	Product (methanol solution)	Qty/Conc	
FHUEA	2H-Perfluoro-2-octenoic acid (6:2)	1.2 ml	50 µg/ml
FOUEA	2H-Perfluoro-2-decenoic acid (8:2)	1.2 ml	50 µg/ml
FDUEA	2H-Perfluoro-2-dodecenoic acid (10:2)	1.2 ml	50 µg/ml

MASS-LABELLED UNSATURATED TELOMER ACIDS

Catalogue Number	Product
MFHUEA	 <p>2H-Perfluoro-[1,2-¹³C₂]-2-octenoic acid (6:2) 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in isopropanol ; > 99% ¹³C₂</p>
MFOUEA	 <p>2H-Perfluoro-[1,2-¹³C₂]-2-decenoic acid (8:2) 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in isopropanol ; >99% ¹³C₂</p>
MFDUEA	 <p>2H-Perfluoro-[1,2-¹³C₂]-2-dodecenoic acid (10:2) 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in isopropanol ; >99% ¹³C₂</p>

NATIVE CHLOROPERFLUOROETHER SULFONATES (CI-PFESAs)

Catalogue Number	Product (methanol solution)	Qty/Conc	
9CI-PF3ONS	Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	1.2 ml	50 µg/ml
11CI-PF3OUdS	Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	1.2 ml	50 µg/ml

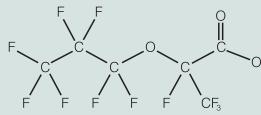
NATIVE POLYFLUOROETHER CARBOXYLATES (PFECAs)

Catalogue Number	Product (methanol solution)	Qty/Conc	
NaDONA	Sodium dodecafluoro-3H-4,8-dioxanonanoate	1.2 ml	50 µg/ml
PF4OPeA	Perfluoro-4-oxapentanoic acid (PFMPA)	1.2 ml	50 µg/ml
PF5OHxA	Perfluoro-5-oxahexanoic acid (PFMBA)	1.2 ml	50 µg/ml
3,6-OPFhpA	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.2 ml	50 µg/ml
P5MeODIOXOAc	Perfluoro([5-methoxy-1,3-dioxolan-4-yl]oxy)acetic acid (C6O4)	1.2 ml	50 µg/ml

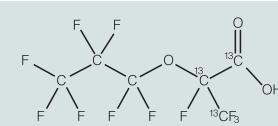
NATIVE POLYFLUOROETHER SULFONATES (PFESAs)

Catalogue Number	Product (methanol solution)	Qty/Conc	
PFEESA	Potassium perfluoro(2-ethoxyethane)sulfonate	1.2 ml	50 µg/ml

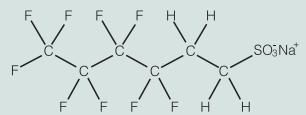
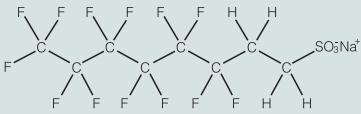
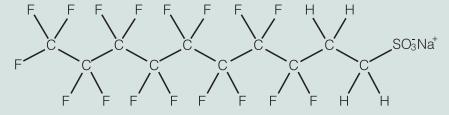
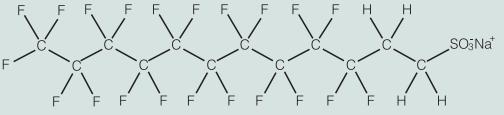
NATIVE HEXAFLUOROPROPYLENE OXIDE DIMER ACID

Catalogue Number	Product
HFPO-DA	 <p>2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol</p>

MASS-LABELLED HEXAFLUOROPROPYLENE OXIDE DIMER ACID

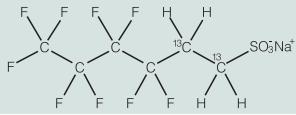
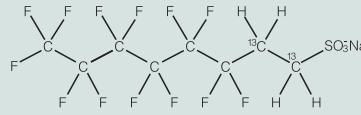
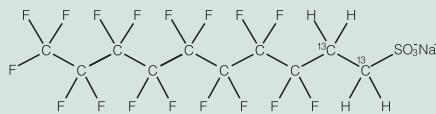
Catalogue Number	Product
M3HFPO-DA	 <p>2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-¹³C₃-propanoic acid 1.2 ml; 50 µg/ml (\pm2.5 µg/ml); in methanol</p>

NATIVE TELOMER SULFONATES(FTSs)

Catalogue Number	Product
4:2FTS	 Sodium 1H,1H,2H,2H,-perfluorohexane sulfonate (4:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
6:2FTS	 Sodium 1H,1H,2H,2H,-perfluoroctane sulfonate (6:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
8:2FTS	 Sodium 1H,1H,2H,2H,-perfluorodecane sulfonate (8:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
10:2FTS	 Sodium 1H,1H,2H,2H-perfluorododecane sulfonate (10:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol

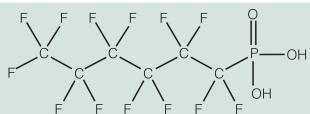
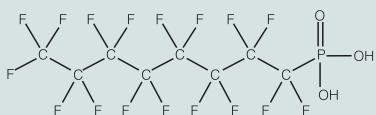
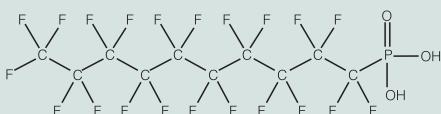
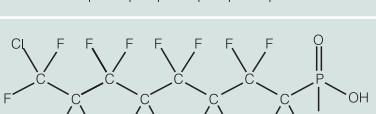
NOTE: Listed concentrations are reported as the salt.

MASS-LABELLED TELOMER SULFONATES (FTSs)

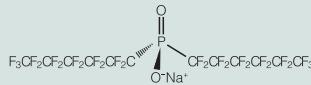
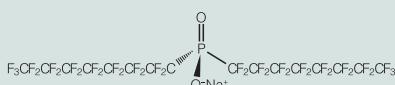
Catalogue Number	Product
M2-4:2FTS	 Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$]-hexane sulfonate (4:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
M2-6:2FTS	 Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$]-octane sulfonate (6:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
M2-8:2FTS	 Sodium 1H,1H,2H,2H-perfluoro-1-[1,2- $^{13}\text{C}_2$]-decane sulfonate (8:2) 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol

NOTE: Listed concentrations are reported as the salt.

NATIVE PERFLUOROALKYLPHOSPHONIC ACIDS (PFAPAs)

Catalogue Number	Product
PFHxPA	 Perfluorohexylphosphonic acid 1.2 ml; 50 µg/ml ($\pm 2.5 \mu\text{g}/\text{ml}$); in methanol ;
PFOPA	 Perfluorooctylphosphonic acid 1.2 ml; 50 µg/ml ($\pm 2.5 \mu\text{g}/\text{ml}$); in methanol ;
PFDPa	 Perfluorodecylphosphonic acid 1.2 ml; 50 µg/ml ($\pm 2.5 \mu\text{g}/\text{ml}$); in methanol ;
Cl-PFHxPA	 6-Chloroperfluorohexylphosphonic acid 1.2 ml; 50 µg/ml ($\pm 2.5 \mu\text{g}/\text{ml}$); in methanol ;
Cl-PFOPA	 8-Chloroperfluorooctylphosphonic acid 1.2 ml; 50 µg/ml ($\pm 2.5 \mu\text{g}/\text{ml}$); in methanol ;

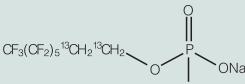
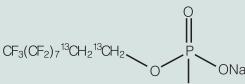
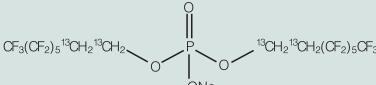
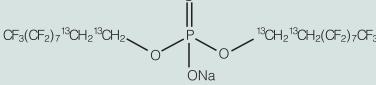
NATIVE SODIUM PERFLUOROALKYL PHOSPHINATES (X:XPFPi)

Catalogue Number	Product
6:6 PFPI	 Sodium bis(perfluorohexyl)phosphinate 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
6:8 PFPI	 Sodium perfluorohexylfluorooctylphosphinate 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
8:8 PFPI	 Sodium bis(perfluoroctyl)phosphinate 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol

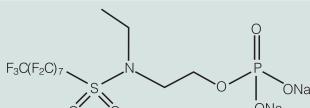
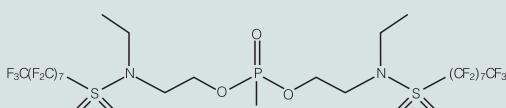
NATIVE POLYFLUORINATED PHOSPHATE ESTERS (PAPs and diPAPs)

Catalogue Number	Product (methanol solution)	Qty/Conc
6:2PAP	Sodium 1H,1H,2H,2H-perfluorooctylphosphate	1.2 ml 50 µg/ml
8:2PAP	Sodium 1H,1H,2H,2H-perfluorodecylphosphate	1.2 ml 50 µg/ml
6:2diPAP	Sodium bis(1H,1H,2H,2H-perfluorooctyl)phosphate	1.2 ml 50 µg/ml
8:2diPAP	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	1.2 ml 50 µg/ml
6:2/8:2diPAP	Sodium (1H,1H,2H,2H-perfluorooctyl-1H,1H,2H,2H-perfluorodecyl)phosphate	1.2 ml 50 µg/ml
8:2diPAP	Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate	1.2 ml 50 µg/ml

MASS-LABELLED POLYFLUORINATED PHOSPHATE ESTERS (M2-PAPs and M4-diPAPs)

Catalogue Number	Product
M2-6:2PAP	 Sodium 1H,1H,2H,2H-[1,2- $^{13}\text{C}_2$]perfluorooctylphosphate 1.2 ml; 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol ; $>99\% \ ^{13}\text{C}_2$
M2-8:2PAP	 Sodium 1H,1H,2H,2H-[1,2- $^{13}\text{C}_2$]perfluorodecylphosphate 1.2 ml; 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol ; $>99\% \ ^{13}\text{C}_2$
M4-6:2diPAP	 Sodium bis(1H,1H,2H,2H-[1,2- $^{13}\text{C}_2$]perfluorooctyl)-phosphate 1.2 ml; 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol ; $>99\% \ ^{13}\text{C}_4$
M4-8:2diPAP	 Sodium bis(1H,1H,2H,2H-[1,2- $^{13}\text{C}_2$]perfluorodecyl)-phosphate 1.2 ml; 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol ; $>99\% \ ^{13}\text{C}_4$

NATIVE POLYFLUORINATED PHOSPHATE ESTERS (SAmPAPs)

Catalogue Number	Product
SAmPAP	 Sodium 2-(N-ethylperfluorooctane-1-sulfonamido)ethyl phosphate 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol
diSAmPAP	 Sodium bis-[2-(N-ethylperfluorooctane-1-sulfonamido)ethyl] phosphate 1.2 ml x 50 µg/ml ($\pm 2.5\mu\text{g}/\text{ml}$); in methanol

NATIVE TELOMER ACRYLATES (X:2FTAc)

Catalogue Number	Product (isooctane solution)	Qty/Conc
8:2FTAc	1H,1H,2H,2H-Perfluorodecyl acrylate	1.2 ml 50 µg/ml
10:2FTAc	1H,1H,2H,2H-Perfluorododecyl acrylate (97%)	1.2 ml 50 µg/ml

NATIVE TELOMER ACETATES (X:2FTOAc)

Catalogue Number	Product (isooctane solution)	Qty/Conc
8:2FTOAc	1H,1H,2H,2H-Perfluorodecyl acetate	1.2 ml 50 µg/ml
10:2FTOAc	1H,1H,2H,2H-Perfluorododecyl acetate	1.2 ml 50 µg/ml

NATIVE AFFF PFAS

Catalogue Number	Product (methanol solution)	Qty/Conc
N-AP-FHxSA	1H,1H,2H,2H-Perfluorododecyl acetate	1.2 ml 50 µg/ml
N-TAmP-FHxSA	N-[3-(perfluoro-1-hexanesulfonamido)propan-1-yl]-N,N,N-trimethylammonium	1.2 ml 50 µg/ml
N-CMAmP-6:2FOSA	N-(carboxymethyl)-N,N-dimethyl-N-[3-(1H,1H,2H,2H-perfluoro-1-octanesulfonamido)propan-1-yl]ammonium (6:2FTAB)	1.2 ml 50 µg/ml
5:3FTB	2-[(4,4,5,5,6,6,7,7,8,8,8-Undecafluoroctyl)dimethylammonio]acetate	1.2 ml 50 µg/ml
5:1:2FTB	2-[(3,4,4,5,5,6,6,7,7,8,8,8-Dodecafluoroctyl)dimethylammonio]acetate	1.2 ml 50 µg/ml

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• PFS-MXA	P3	• EPA-537PDSL-R1	P11
• br-PFOSK	P3	• EPA-533PAR	P12
• T-PFOS	P3	• EPA-537IS	P13
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