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ENVIRONMENTAL STANDARDS

Per- and Polyfluoroalkyl Substances (PFAS)



Introduction

Per- and polyfluoralkyl substances (PFAS) are a class of industrial chemicals that are used to resist grease, oil, water, and heat. They are most commonly used in the manufacture of water- and stain-resistant fabrics and carpeting, food packaging, and fire-fighting foams.

PFAS have been one of the most discussed classes of chemical pollutants in recent years due to their widespread use, prevalence and persistence in the environment, and human-exposure concerns. Regulatory agencies worldwide have begun proposing or enacting bans on certain PFAS compounds to protect the environment and

human health from additional PFAS accumulation and exposure. And with ever-decreasing allowable limits, the need for more analytical standards is increasingly important.

CIL has been working diligently to produce high-purity stable isotope-labeled and native individual and multi-component PFAS standards to assist with ongoing environmental and biomonitoring studies. More standards are being developed and released as new compounds of concern are identified and standardized methods are established.

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Chemical purity for unlabeled/native compounds is 97-99% or greater unless otherwise specified; chemical purity for labeled compounds is 95-99% or greater unless otherwise specified.



Standards for Environmental Analysis

Through our collaborations with environmental testing laboratories, regulatory agencies, and research institutions around the world, CIL has developed numerous products to assist a wide range of testing applications. You will find more than 3,000 products developed specifically for trace and ultratrace analysis by isotope dilution mass spectrometry (IDMS). As new technology and methodologies advance, CIL maintains a leadership role in developing new standards and standard mixtures to keep pace with these new procedures. You will find throughout this catalog many new products developed in various solvents for use in not only new GC-MS applications, but also LC-MS methods that continue to gain importance as an integral part of the environmental testing laboratory.

Perfluorocarboxylic Acids (PFCA)

Catalog No.	Description	Concentration	Amount
CLM-11046-1.2	Sodium trifluoroacetate (TFA) (¹³ C ₂ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-11087-1.2	Sodium trifluoroacetate (TFA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11324-A-1.2	Perfluoropropanoic acid (PFPRA) (¹³ C ₃ , 99%)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
ULM-11323-A-1.2	Perfluoropropanoic acid (PFPRA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-10883-1.2	Sodium perfluoro-n-butyratate (PFBA) (2,3,4- ¹³ C ₃ , 99%)	50 µg/mL in methanol	1.2 mL
CLM-8173-1.2	Sodium perfluoro-n-butyratate (PFBA) (¹³ C ₄ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-11058-1.2	Sodium perfluoro-n-butyratate (PFBA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10931-1.2	Sodium perfluoro-n-pentanoate (PFPeA) (pentanoyl- ¹³ C ₅ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-10960-1.2	Sodium perfluoro-n-pentanoate (PFPeA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8340-1.2	Sodium perfluoro-n-hexanoate (PFHxA) (¹³ C ₆ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8342-1.2	Sodium perfluoro-n-hexanoate (PFHxA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10624-1.2	Sodium perfluoro-n-heptanoate (PFHpA) (¹³ C ₇ , 99%)	50 µg/mL in methanol	1.2 mL
CLM-11723-1.2	Sodium perfluoro-n-heptanoic acid (PFHpA) (5,6,7- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-9516-A-1.2	Perfluoro-n-heptanoic acid (PFHpA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-8005-A-1.2	Perfluoro-n-octanoic acid (PFOA) (¹³ C ₈ , 99%)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-11727-1.2	Perfluoro-n-octanoic acid (PFOA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
ULM-11782-1.2	Sodium perfluoro-n-octanoate (PFOA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8060-A-1.2	Perfluoro-n-nonanoic acid (PFNA) (¹³ C ₉ , 99%)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-11724-1.2	Perfluoro-n-nonanoic acid (PFNA) (7,8,9- ¹³ C ₃ , 99%)	100 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-11537-1.2	Sodium perfluoro-n-nonanoate (PFNA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8066-A-1.2	Perfluoro-n-nonanoic acid (PFNA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-11039-1.2	Sodium perfluoro-n-decanoate (PFDA) (¹³ C ₉ , 99%)	50 µg/mL in methanol	1.2 mL
CLM-11538-1.2	Sodium perfluoro-n-decanoate (PFDA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-11038-1.2	Sodium perfluoro-n-decanoate (PFDA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8789-1.2	Sodium perfluoro-n-undecanoate (PFUA) (¹³ C ₉ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8084-1.2	Sodium perfluoro-n-undecanoate (PFUA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10593-1.2	Sodium perfluoro-n-dodecanoate (PFDoA) (¹³ C ₁₂ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-10594-1.2	Sodium perfluoro-n-dodecanoate (PFDoA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9955-1.2	Perfluoro-n-tridecanoic acid (PFTrDA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11535-1.2	Sodium perfluoro-n-tetradecanoate (PFTeDA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-9956-A-1.2	Perfluoro-n-tetradecanoic acid (PFTeDA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL
CLM-11544-1.2	Sodium perfluoro-n-hexadecanoate (PFHxDA) (1,2,3,4- ¹³ C ₄ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-10721-1.2	Perfluoro-n-hexadecanoic acid (PFHxDA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-10722-A-1.2	Perfluoro-n-octadecanoic acid (PFODA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalent NaOH)	1.2 mL

ES-5587	Perfluoroalkylcarboxylic acid (PFCA) C ₄ -C ₁₄ , Native Mixture	1.2 mL in methanol
Unlabeled (ng/mL)*		
Perfluoro-n-butyrlic acid (PFBA)	2000	
Perfluoro-n-pentanoic acid (PFPA)	2000	
Sodium perfluoro-n-hexanoate (PFHxA)	2000	
Perfluoro-n-heptanoic acid (PFHpA)	2000	
Perfluoro-n-octanoic acid (PFOA)	2000	
Perfluoro-n-nonanoic acid (PFNA)	2000	
Sodium perfluoro-n-decanoate (PFDA)	2000	
Sodium perfluoro-n-undecanoate (PFUA)	2000	
Sodium perfluoro-n-dodecanoate (PFDoA)	2000	
Perfluoro-n-tridecanoic acid (PFTrA)	2000	
Perfluoro-n-tetradecanoic acid (PFTeA)	2000	

*Gravimetric concentration is based on the salt form, where applicable.

Perfluoroalkyl Sulfonates (PFAS)

Catalog No.	Description	Concentration	Amount
ULM-11678-1.2	Sodium trifluoromethanesulfonate (TFMS) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-11676-1.2	Sodium perfluoroethanesulfonate (PFEtS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11677-1.2	Potassium perfluoro-1-propanesulfonate (PFPrS) ($^{13}\text{C}_3$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-11655-1.2	Sodium perfluoro-1-propanesulfonate (PFPrS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-9523-1.2	Potassium perfluoro-1-butanesulfonate (PFBS) ($^{13}\text{C}_4$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-9521-1.2	Potassium perfluoro-1-butanesulfonate (PFBS) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9520-1.2	Sodium perfluoro-1-pentanesulfonate (PFPeS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-9526-1.2	Potassium perfluoro-1-hexanesulfonate (PFHxS) ($^{13}\text{C}_6$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-12310-1.2	Potassium perfluoro-1-hexanesulfonate (PFHxS) (unlabeled) linear isomer	50 µg/mL in methanol	1.2 mL
ULM-9524-1.2	Potassium perfluorohexamersulfonate (PFHxS) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL
ULM-9531-1.2	Sodium perfluoro-1-heptanesulfonate (PFHpS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11340-1.2	Potassium perfluoro-1-octanesulfonate (PFOS) ($^{13}\text{C}_8$, 99%)	50 µg/mL in methanol	1.2 mL
CLM-11540-1.2	Potassium perfluoro-1-octanesulfonate (PFOS) (1,2,3,4,5- $^{13}\text{C}_5$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-11563-1.2	Potassium perfluoro-1-octanesulfonate (PFOS) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9001-1.2	Sodium perfluoro-1-octanesulfonate (PFOS) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-10655-1.2	Perfluorooctanesulfonate (PFOS) (unlabeled) mix of isomers	50 µg/ml in methanol	1.2 mL
ULM-9530-1.2	Sodium perfluoro-1-nonanesulfonate (PFNS) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-12322-1.2	Potassium perfluoro-1-decanesulfonate (PFDS) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-11557-1.2	Potassium perfluoro-1-dodecanesulfonate (PFDoDS) (unlabeled)	50 µg/mL in methanol	1.2 mL

Catalog No.	Description	Amount
ES-5576-A	Perfluoroalkylsulfonate (PFAS) $\text{C}_4\text{-C}_{10}$ Native Mixture	1.2 mL in methanol
Unlabeled (ng/mL)*		
Potassium perfluoro-1-butanesulfonate (PFBS)		
Sodium perfluoro-1-pentanesulfonate (PFPeS)		
Potassium perfluorohexamersulfonate (PFHxS) mix of isomers		
Sodium perfluoro-1-heptanesulfonate (PFHpS)		
Sodium perfluoro-1-octanesulfonate (PFOS)		
Sodium perfluoro-1-nonanesulfonate (PFNS)		
Potassium perfluoro-1-decanesulfonate (PFDS)		

*Gravimetric concentration is based on the salt form, where applicable.

ES-5670	PARC 10 PFAS Native Mixture	1.2 mL in MeOH (with 4 molar equivalents NaOH)
Unlabeled (ng/mL)*		
Sodium trifluoroacetate (TFA)		
Perfluoropropanoic acid (PFPrA)		
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)		
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)		
Sodium trifluoromethanesulfonate (TFMS)		
Sodium perfluoroethanesulfonate (PFEtS)		
Sodium perfluoro-1-propanesulfonate (PFPrS)		
Potassium perfluoro-1-butanesulfonate (PFBS)		
Sodium perfluoro-1-pentanesulfonate (PFPeS)		

*Gravimetric concentration is based on the free acid, where applicable.

PFOS/PFOA Mixtures

Catalog No.	Description	Amount					
ES-5570	PFOS/PFOA Calibration Series CS1-CS5	5 × 0.25 mL in methanol					
ES-5570-CS0.25	PFOS/PFOA Calibration Series CS0.25	0.25 mL in methanol					
<i>All concentrations are in ng/mL*</i>							
Unlabeled		CS0.25**	CS1	CS2	CS3	CS4	CS5
Perfluoro- <i>n</i> -octanoic acid (PFOA)		0.5	2	10	50	200	1000
Sodium perfluoro-1-octanesulfonate (PFOS)		0.5	2	10	50	200	1000
Extraction							
Perfluoro- <i>n</i> -octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)		50	50	50	50	50	50
Sodium perfluoro-1-octanesulfonate (PFOS) ($^{13}\text{C}_8$, 99%)		50	50	50	50	50	50
Injection							
Perfluoro- <i>n</i> -nonanoic acid (PFNA) ($^{13}\text{C}_9$, 99%)		50	50	50	50	50	50
<i>*Gravimetric concentration is based on the salt form, where applicable. **Not included in ES-5570 – available for separate purchase.</i>							
ES-5571	PFOS/PFOA Extraction Standard Mixture	3 mL in methanol					
Labeled		<i>(ng/mL)*</i>					
Perfluoro- <i>n</i> -octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)		2000					
Sodium perfluoro-1-octanesulfonate (PFOS) ($^{13}\text{C}_8$, 99%)		2000					
<i>*Gravimetric concentration is based on the salt form, where applicable.</i>							
ES-5572	PFOS/PFOA Injection Standard Mixture	3 mL in methanol					
Labeled		<i>(ng/mL)*</i>					
Perfluoro- <i>n</i> -nonanoic acid (PFNA) ($^{13}\text{C}_9$, 99%)		2000					
<i>*Gravimetric concentration is based on the salt form, where applicable.</i>							
ES-5573	PFOS/PFOA Native Standard Mixture	1.2 mL in methanol					
Unlabeled		<i>(ng/mL)*</i>					
Perfluoro- <i>n</i> -octanoic acid (PFOA)		5000					
Sodium perfluoro-1-octanesulfonate (PFOS)		5000					
<i>*Gravimetric concentration is based on the salt form, where applicable.</i>							
ES-5649	PFOS/PFOA/PFHxS Labeled Standard Mixture	1.2 mL in methanol					
Labeled		<i>(ng/mL)*</i>					
Sodium perfluoro-1-octanesulfonate (PFOS) ($^{13}\text{C}_8$, 99%)		2000					
Perfluoro- <i>n</i> -octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)		2000					
Potassium perfluoro-1-hexanesulfonate (PFHxS) ($^{13}\text{C}_6$, 99%)		2000					
<i>*Gravimetric concentration is based on the free acid, where applicable.</i>							
ES-5648-A	PFOS/PFOA/PFHxS Native Analyte Mixture	1.2 mL in methanol					
Unlabeled		<i>(ng/mL)*</i>					
Sodium perfluoro-1-octanesulfonate (PFOS)		5000					
Sodium perfluoro- <i>n</i> -octanoate (PFOA)		5000					
Potassium perfluoro-1-hexanesulfonate (PFHxS)		5000					
<i>*Gravimetric concentration is based on the free acid, where applicable.</i>							

EPA Method 537.1 Mixtures

Catalog No.	Description	Amount
ES-5631-A	Method 537.1 Analyte Primary Dilution Standard (PDS)	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		(ng/mL)*
Sodium perfluoro-n-hexanoate (PFHxA)		2000
Perfluoro-n-heptanoic acid (PFHpA)		2000
Perfluoro-n-octanoic acid (PFOA)		2000
Perfluoro-n-nonanoic acid (PFNA)		2000
Sodium perfluoro-n-decanoate (PFDA)		2000
Sodium perfluoro-n-undecanoate (PFUA)		2000
Sodium perfluoro-n-dodecanoate (PFDoA)		2000
Perfluoro-n-tridecanoic acid (PFTrDA)		2000
Perfluoro-n-tetradecanoic acid (PFTeDA)		2000
Potassium perfluoro-1-butanesulfonate (PFBS)		2000
Potassium perfluorohexamersulfonate (PFHxS) mix of isomers		2000
Perfluoroctanesulfonate (PFOS) mix of isomers		2000
<i>N</i> -Methylperfluoroctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers		2000
<i>N</i> -Ethylperfluoroctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) mix of isomers		2000
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX"		2000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) (F53B Major)		2000
Potassium 11-chloroeicosfluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) (F53B Minor)		2000
Dodecafluoro-3H-4,8-dioxanonoic acid (DONA)		2000

*Gravimetric concentration is based on the free acid, where applicable.

ES-5610-A	Method 537.1 Internal Standard Primary Dilution Standard (ISPDS)	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		(ng/mL)*
Perfluoro-n-octanoic acid (PFOA) (¹³ C ₈ , 99%)		1000
Potassium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)		3000
<i>N</i> -Methylperfluoroctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) (<i>N</i> -methyl-D ₃ , 98%)		4000

*Gravimetric concentration is based on the free acid, where applicable.

ES-5632-A	Method 537.1 Surrogate Primary Dilution Standard (SUR PDS)	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		(ng/mL)*
Sodium perfluoro-n-hexanoate (PFHxA) (¹³ C ₆ , 99%)		1000
Sodium perfluoro-n-decanoate (PFDA) (¹³ C ₉ , 99%)		1000
<i>N</i> -Ethylperfluoroctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) (<i>N</i> -ethyl-D ₅ , 98%)		4000
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" (¹³ C ₃ , 99%)		1000

*Gravimetric concentration is based on the free acid, where applicable.

EPA Method 533 Mixture

Catalog No.	Description	Amount
ES-5654	EPA Method 533 Native Analyte PDS	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		1000
Sodium perfluoro- <i>n</i> -pentanoate (PPeA)		1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)		1000
Perfluoro- <i>n</i> -heptanoic acid (PFHpa)		1000
Perfluoro- <i>n</i> -octanoic acid (PFOA)		1000
Perfluoro- <i>n</i> -nonanoic acid (PFNA)		1000
Sodium perfluoro- <i>n</i> -decanoate (PFDA)		1000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA)		1000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA)		1000
Potassium perfluoro-1-butanesulfonate (PFBS)		1000
Sodium perfluoro-1-pentanesulfonate (PFPS)		1000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		1000
Sodium perfluoro-1-heptanesulfonate (PFHpS)		1000
Perfluorooctanesulfonate (PFOS) mix of isomers		1000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (6:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)		1000
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX"		1000
Dodecafluoro-3H-4,8-dioxanonanoic acid (DONA)		1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) (F53B Major)		1000
Potassium 11-chloroeicosfluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) (F53B Minor)		1000
Perfluoro-3-methoxypropanoic acid (PFMPA)		1000
Perfluoro-4-methoxybutanoic acid (PFMBA)		1000
Perfluoro-3,6-dioxaheptanoic acid (PFDHA)		1000
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		1000

*Gravimetric concentration is based on the free acid, where applicable.

EPA Method 533 Mixtures

Catalog No.	Description	Amount
ES-5656	EPA Method 533 Isotope Dilution Standard PDS	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		
	Sodium perfluoro- <i>n</i> -butyrate (PFBA) (¹³ C ₄ , 99%)	500
	Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) (¹³ C ₅ , 99%)	500
	Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (¹³ C ₆ , 99%)	500
	Sodium perfluoro- <i>n</i> -heptanoate (PFHpA) (¹³ C ₇ , 99%)	500
	Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	500
	Perfluoro- <i>n</i> -nonanoic acid (PFNA) (¹³ C ₉ , 99%)	500
	Sodium perfluoro- <i>n</i> -decanoate (PFDA) (¹³ C ₉ , 99%)	500
	Sodium perfluoro- <i>n</i> -undecanoate (PFUA) (¹³ C ₉ , 99%)	500
	Sodium perfluoro- <i>n</i> -dodecanoate (PFDmA) (¹³ C ₁₂ , 99%)	500
	Potassium perfluoro-1-butanesulfonate (PFBS) (¹³ C ₄ , 99%)	500
	Potassium perfluoro-1-hexanesulfonate (PFHxS) (¹³ C ₆ , 99%)	500
	Potassium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)	500
	Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" (¹³ C ₃ , 99%)	500
	Sodium 1H,1H,2H,2H-perfluorohexamersulfonate (4:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	2000
	Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	2000
	Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	2000

*Gravimetric concentration is based on the free acid, where applicable.

ES-5655*	EPA Method 533 Isotope Performance Standard PDS	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		
	Sodium perfluoro- <i>n</i> -butyrate (PFBA) (2,3,4- ¹³ C ₃ , 99%)	1000
	Sodium perfluoro- <i>n</i> -octanoate (PFOA) (¹³ C ₆ , 99%)	1000
	Potassium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₅ , 99%)	3000

*Currently in production. Please contact CIL or your CIL representative for a delivery estimate.

**Gravimetric concentration is based on the free acid, where applicable.

UCMR 5 Supplemental Mixture

Catalog No.	Description	Amount
ES-5664	UCMR 5 Supplemental Native PFAS 4-Component Mix	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		
	N-Methylperfluoroctanesulfonamidoacetic acid (N-MeFOSAA) mix of isomers	2000
	N-Ethylperfluoroctanesulfonamidoacetic acid (N-EtFOSAA) mix of isomers	2000
	Perfluoro- <i>n</i> -tridecanoic acid (PFTmA)	2000
	Perfluoro- <i>n</i> -tetradecanoic acid (PFTeA)	2000

*Gravimetric concentration is based on the free acid, where applicable.

EPA Method 8327 Mixtures

Catalog No.	Description	Amount
ES-5643-A	Method 8327 Surrogate Spiking Mixture	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		(ng/mL)*
Sodium perfluoro-n-butylate (PFBA) (2,3,4- ¹³ C ₃ , 99%)		1000
Sodium perfluoro-n-pentanoate (PFPeA) (pentanoyl- ¹³ C ₅ , 99%)		1000
Sodium perfluoro-n-hexanoate (PFHxA) (¹³ C ₆ , 99%)		1000
Sodium perfluoro-n-heptanoate (PFHpA) (heptanoyl- ¹³ C ₇ , 99%)		1000
Perfluoro-n-octanoic acid (PFOA) (¹³ C ₈ , 99%)		1000
Perfluoro-n-nonanoic acid (PFNA) (¹³ C ₉ , 99%)		1000
Perfluoro-n-decanoic acid (PFDA) (¹³ C ₉ , 99%)		1000
Sodium perfluoro-n-undecanoate (PFUA) (¹³ C ₉ , 99%)		1000
Sodium perfluoro-n-dodecanoate (PFDmA) (dodecanoyl- ¹³ C ₁₂ , 99%)		1000
Sodium perfluoro-n-tetradecanoate (PFTeDA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)		1000
Potassium perfluoro-1-butanesulfonate (PFBS) (¹³ C ₄ , 99%)		1000
Potassium perfluoro-1-hexanesulfonate (PFHxS) (¹³ C ₆ , 99%)		1000
Potassium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)		1000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)		1000
Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)		1000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)		1000
Perfluoroctanesulfonamide (PFOSA) (¹³ C ₈ , 99%)		1000
N-Methylperfluoroctanesulfonamidoacetic acid (N-MeFOSAA) (N-methyl-D ₃ , 98%)		1000
N-Ethylperfluoroctanesulfonamidoacetic acid (N-EtFOSAA) (N-ethyl-D ₅ , 98%)		1000

*Gravimetric concentration is based on the free acid, where applicable.

ES-5642	Method 8327 Target Analyte Mixture	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		(ng/mL)*
Sodium perfluoro-n-butylate (PFBA)		2000
Sodium perfluoro-n-pentanoate (PFPeA)		2000
Sodium perfluoro-n-hexanoate (PFHxA)		2000
Perfluoro-n-heptanoic acid (PFHpA)		2000
Perfluoro-n-octanoic acid (PFOA)		2000
Perfluoro-n-nonanoic acid (PFNA)		2000
Sodium perfluoro-n-decanoate (PFDA)		2000
Sodium perfluoro-n-undecanoate (PFUA)		2000
Sodium perfluoro-n-dodecanoate (PFDmA)		2000
Perfluoro-n-tridecanoic acid (PFTrDA)		2000
Perfluoro-n-tetradecanoic acid (PFTeDA)		2000
Potassium perfluoro-1-butanesulfonate (PFBS)		2000
Sodium perfluoro-1-pentanesulfonate (PFPeS)		2000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		2000
Sodium perfluoro-1-heptanesulfonate (PFHpS)		2000
Perfluoroctanesulfonic acid (PFOS) mix of isomers		2000
Sodium perfluoro-1-nonanesulfonate (PFNS)		2000
Potassium perfluoro-1-decanesulfonate (PFDS)		2000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)		2000
Perfluoroctanesulfonamide (PFOSA) mix of isomers		2000
N-Methylperfluoroctanesulfonamidoacetic acid (N-MeFOSAA) mix of isomers		2000
N-Ethylperfluoroctanesulfonamidoacetic acid (N-EtFOSAA) mix of isomers		2000

*Gravimetric concentration is based on the free acid, where applicable.

EPA Method 1633 Mixtures

Catalog No.	Description	Amount
ES-5667	PFAS 40 Multi-Class Native Standard Solution	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		
		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		2000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)		1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)		500
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)		500
Perfluoro- <i>n</i> -octanoic acid (PFOA) linear isomer only		500
Perfluoro- <i>n</i> -nonanoic acid (PFNA) linear isomer only		500
Sodium perfluoro- <i>n</i> -decanoate (PFDA)		500
Sodium perfluoro- <i>n</i> -undecanoate (PFUA)		500
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA)		500
Perfluoro- <i>n</i> -tridecanoic acid (PFTrDA)		500
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)		500
Potassium perfluoro-1-butanesulfonate (PBFS)		500
Sodium perfluoro-1-pentanesulfonate (PFPeS)		500
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		500
Sodium perfluoro-1-heptanesulfonate (PFHpS)		500
Perfluorooctanesulfonate (PFOS) mix of isomers		500
Sodium perfluoro-1-nonanesulfonate (PFNS)		500
Potassium perfluoro-1-decanesulfonate (PFDS)		500
Potassium perfluoro-1-dodecanesulfonate (PFDoDS)		500
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (6:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)		2000
Perfluorooctanesulfonamide (PFOSA) mix of isomers		500
<i>N</i> -Methylperfluorooctanesulfonamide (<i>N</i> -MeFOSA) mix of isomers		500
<i>N</i> -Ethylperfluorooctanesulfonamide (<i>N</i> -EtFOSA) mix of isomers		500
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers		500
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) mix of isomers		500
<i>N</i> -Methylperfluorooctanesulfonamidoethanol (<i>N</i> -MeFOSE) mix of isomers		5000
<i>N</i> -Ethylperfluorooctanesulfonamidoethanol (<i>N</i> -EtFOSE) mix of isomers		5000
Sodium tetrafluoro-2-(heptafluoropropoxy) propanoic acid (HFPO-DA) "GenX"		2000
Dodecafluoro-3H-4,8-dioxanonanoic acid (DONA)		2000
Perfluoro-3-methoxypropanoic acid (PFMPA)		1000
Perfluoro-4-methoxybutanoic acid (PFMBA)		1000
Perfluoro-3,6-dioxaheptanoic acid (PFDH)		1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) (F53B Major)		2000
Potassium 11-chloroeicosfluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUDS) (F53B Minor)		2000
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)		1000
2H,2H,3H-Perfluorohexanoic acid (3:3 FTCA)		2500
2H,2H,3H-Perfluorooctanoic acid (5:3 FTCA)		12,500
2H,2H,3H-Perfluorodecanoic acid (7:3 FTCA) mix of isomers		12,500

*Gravimetric concentration is based on the free acid, where applicable.

ES-5669	8-Component PFAS 1633 Supplemental Mix	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		
		(ng/mL)*
Perfluoropropanoic acid (PFPrA)		8000
Perfluoro- <i>n</i> -hexadecanoic acid (PFHxDA)		2000
Perfluoro- <i>n</i> -octadecanoic acid (PFODA)		2000
Sodium perfluoro-1-propanesulfonate (PFPrS)		2000
Perfluorobutanesulfonamide (PFBSA)		2000
Perfluorohexanesulfonamide (PFHxSA)		2000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS)		2000
Lithium bis(trifluoromethanesulfonyl)imide (TFSI)		2000

*Gravimetric concentration is based on the free acid, where applicable.

PFAS Mixture

Catalog No.	Description	Amount
ES-5665-1.2	PFAS RM-41 Native Spiking Mixture	1.2 mL in MeOH (with 4 molar equivalent NaOH)
ES-5665	PFAS RM-41 Native Spiking Mixture	5 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		1000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)		1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)		1000
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)		1000
Perfluoro- <i>n</i> -octanoic acid (PFOA)		1000
Perfluoro- <i>n</i> -nonanoic acid (PFNA)		1000
Sodium perfluoro- <i>n</i> -decanoate (PFDA)		1000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA)		1000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDa)		1000
Perfluoro- <i>n</i> -tridecanoic acid (PFTrDA)		1000
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)		1000
Perfluoro- <i>n</i> -hexadecanoic acid (PFHxDA)		1000
Perfluoro- <i>n</i> -octadecanoic acid (PFODA)		1000
Sodium perfluoro-1-propanesulfonate (PFPrS)		1000
Potassium perfluoro-1-butanesulfonate (PPBS)		1000
Sodium perfluoro-1-pentanesulfonate (PFPeS)		1000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		1000
Sodium perfluoro-1-heptanesulfonate (PFHps)		1000
Perfluoroctanesulfonate (PFOS) mix of isomers		1000
Sodium perfluoro-1-nonanesulfonate (PFNS)		1000
Potassium perfluoro-1-decanesulfonate (PFDS)		1000
Potassium perfluoro-1-dodecanesulfonate (PFDODS)		1000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (8:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS)		1000
Perfluoroctanesulfonamide (PFOSA) mix of isomers		1000
N-Methylperfluoroctanesulfonamide (N-MeFOSA) mix of isomers		1000
N-Ethylperfluoroctanesulfonamide (N-EtFOSA) mix of isomers		1000
N-Methylperfluoroctanesulfonamidoacetic acid (N-MeFOSAA) mix of isomers		1000
N-Ethylperfluoroctanesulfonamidoacetic acid (N-EtFOSAA) mix of isomers		1000
N-Methylperfluoroctanesulfonamidoethanol (N-MeFOSE) mix of isomers		1000
N-Ethylperfluoroctanesulfonamidoethanol (N-EtFOSE) mix of isomers		1000
Sodium tetrafluoro-2-(heptafluoropropoxy) propanoic acid (HFPO-DA) "GenX"		1000
Dodecafluoro-3H-4,8-dioxanonanoic acid (DONA)		1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) (F53B Major)		1000
Potassium 11-chloroeicosfluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) (F53B Minor)		1000
Perfluoro-3-methoxypropanoic acid (PFMPA)		1000
Perfluoro-4-methoxybutanoic acid (PFMBA)		1000
Perfluoro-3,6-dioxaheptanoic acid (PFDHA)		1000
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)		1000

*Gravimetric concentration is based on the free acid, where applicable.

PFAS Mixtures

Catalog No.	Description	Amount
ES-5640-A	PFAS SIL Superfund Mixture 1	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		(ng/mL)*
Sodium perfluoro-n-butrate (PFBA) ($^{13}\text{C}_3$, 99%)		1000
Sodium perfluoro-n-pentanoate (PFPeA) ($^{13}\text{C}_5$, 99%)		1000
Sodium perfluoro-n-hexanoate (PFHxA) ($^{13}\text{C}_6$, 99%)		1000
Sodium perfluoro-n-heptanoate (PFHpA) ($^{13}\text{C}_7$, 99%)		1000
Perfluoro-n-octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)		1000
Perfluoro-n-nonanoic acid (PFNA) ($^{13}\text{C}_9$, 99%)		1000
Sodium perfluoro-n-decanoate (PFDA) ($^{13}\text{C}_{10}$, 99%)		1000
Sodium perfluoro-n-undecanoate (PFUA) ($^{13}\text{C}_{11}$, 99%)		1000
Sodium perfluoro-n-dodecanoate (PFDoA) ($^{13}\text{C}_{12}$, 99%)		1000
Sodium perfluoro-n-tetradecanoate (PFTeDA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)		1000
Sodium perfluoro-n-hexadecanoate (PFHxDA) (1,2,3,4- $^{13}\text{C}_4$, 99%)		1000
Potassium perfluoro-1-butanesulfonate (PFBS) ($^{13}\text{C}_4$, 99%)		1000
Potassium perfluoro-1-hexanesulfonate (PFHxS) ($^{13}\text{C}_6$, 99%)		1000
Potassium perfluoro-1-octanesulfonate (PFOS) ($^{13}\text{C}_8$, 99%)		1000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS) ($^{13}\text{C}_2$, 99%; D ₄ , 98%)		1000
Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS) ($^{13}\text{C}_2$, 99%; D ₄ , 98%)		1000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (8:2 FTS) ($^{13}\text{C}_2$, 99%; D ₄ , 98%)		1000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS) ($^{13}\text{C}_2$, 99%; D ₄ , 98%)		1000
Perfluoroctanesulfonamide (PFOSA) ($^{13}\text{C}_8$, 99%)		1000
N-Methylperfluoroctanesulfonamide (N-MeFOSA) (D ₃ , 98%)		1000
N-Methylperfluoroctanesulfonamidoacetic acid (N-MeFOSAA) (D ₃ , 98%)		1000
N-Ethylperfluoroctanesulfonamidoacetic acid (N-EtFOSAA) (D ₅ , 98%)		1000
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" ($^{13}\text{C}_3$, 99%)		1000

*Gravimetric concentration is based on the free acid, where applicable.

ES-5641*	PFAS SIL Superfund Mixture 2	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Labeled		(ng/mL)**
Sodium perfluoro-n-butrate (PFBA) ($^{13}\text{C}_3$, 99%)		
Sodium perfluoro-n-pentanoate (PFPeA) ($^{13}\text{C}_5$, 99%)		1000
Sodium perfluoro-n-hexanoate (PFHxA) ($^{13}\text{C}_6$, 99%)		1000
Perfluoro-n-decanoic acid (PFDA) ($^{13}\text{C}_9$, 99%)		1000
Sodium perfluoro-n-undecanoate (PFUA) ($^{13}\text{C}_{11}$, 99%)		1000
Sodium perfluoro-n-dodecanoate (PFDoA) ($^{13}\text{C}_{12}$, 99%)		1000
Perfluoro-n-tetradecanoic acid (PFTeDA) ($^{13}\text{C}_2$, 99%)		1000
Potassium perfluoro-1-butanesulfonate (PFBS) ($^{13}\text{C}_4$, 99%)		1000
Potassium perfluoro-1-hexanesulfonate (PFHxS) ($^{13}\text{C}_6$, 99%)		1000
Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS) ($^{13}\text{C}_2$, 99%; D ₄ , 98%)		1000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (8:2 FTS) ($^{13}\text{C}_2$, 99%; D ₄ , 98%)		1000
Perfluoroctanesulfonamide (PFOSA) ($^{13}\text{C}_8$, 99%)		1000

*Currently in production. Please contact CIL or your CIL representative for a delivery estimate.

**Gravimetric concentration is based on the free acid, where applicable.

PFAS Mixture

Catalog No.	Description	Amount
ES-5639-A	PFAS Superfund Mixture 1	1.2 mL in MeOH (with 4 molar equivalent NaOH)
Unlabeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		2000
Sodium perfluoro- <i>n</i> -pentanoate (PPeA)		2000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)		2000
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)		2000
Perfluoro- <i>n</i> -octanoic acid (PFOA)		2000
Perfluoro- <i>n</i> -nonanoic acid (PFNA)		2000
Sodium perfluoro- <i>n</i> -decanoate (PFDA)		2000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA)		2000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA)		2000
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)		2000
Perfluoro- <i>n</i> -hexadecanoic acid (PFHxDA)		2000
Perfluoro- <i>n</i> -octadecanoic acid (PFODA)		2000
Potassium perfluoro-1-butanesulfonate (PBFS)		2000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		2000
Perfluoroctanesulfonate (PFOS) mix of isomers		2000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluoroctanesulfonate (6:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)		2000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS)		2000
Perfluoroctanesulfonamide (PFOSA) mix of isomers		2000
<i>N</i> -Methylperfluoroctanesulfonamide (<i>N</i> -MeFOSA) mix of isomers		2000
<i>N</i> -Methylperfluoroctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers		2000
<i>N</i> -Ethylperfluoroctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) mix of isomers		2000
Tetrafluoro-2-(heptafluoropropoxy) propanoic acid (HFPO-DA) "GenX"		2000

*Gravimetric concentration is based on the free acid, where applicable.

PFAS Mixture

Catalog No.	Description	Amount
ES-5636-A	PFAS EF-28 Native Mixture	1.2 mL in methanol
Unlabeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		1000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)		1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)		1000
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)		1000
Perfluoro- <i>n</i> -octanoic acid (PFOA)		1000
Perfluoro- <i>n</i> -nonanoic acid (PFNA)		1000
Sodium perfluoro- <i>n</i> -decanoate (PFDA)		1000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA)		1000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA)		1000
Perfluoro- <i>n</i> -tridecanoic acid (PFTrDA)		1000
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)		1000
Perfluoro- <i>n</i> -hexadecanoic acid (PFHxDA)		1000
Perfluoro- <i>n</i> -octadecanoic acid (PFODA)		1000
Potassium perfluoro-1-butanesulfonate (PFBS)		1000
Sodium perfluoro-1-pentanesulfonate (PFPeS)		1000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		1000
Sodium perfluoro-1-heptanesulfonate (PFHpS)		1000
Sodium perfluoro-1-octanesulfonate (PFOS)		1000
Potassium perfluoro-1-decanesulfonate (PDS)		1000
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (6:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)		1000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS)		1000
Perfluorooctanesulfonamide (PFOSA) mix of isomers		1000
<i>N</i> -Methylperfluorooctanesulfonamide (<i>N</i> -MeFOSA) mix of isomers		1000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers		1000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) mix of isomers		1000
Bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2-DiPAP)		1000

*Gravimetric concentration is based on the free acid, where applicable.

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