



Cambridge Isotope Laboratories, Inc.
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ENVIRONMENTAL STANDARDS

Per- and Polyfluoroalkyl Substances (PFAS)



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Introduction

Per- and polyfluoroalkyl 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) ($^{13}\text{C}_2$, 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) ($^{13}\text{C}_3$, 99%)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
ULM-11323-A-1.2	Perfluoropropanoic acid (PFPrA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-10883-1.2	Sodium perfluoro- <i>n</i> -butyrate (PFBA) (2,3,4- $^{13}\text{C}_3$, 99%)	50 µg/mL in methanol	1.2 mL
CLM-8173-1.2	Sodium perfluoro- <i>n</i> -butyrate (PFBA) ($^{13}\text{C}_4$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-11058-1.2	Sodium perfluoro- <i>n</i> -butyrate (PFBA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10931-1.2	Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) (pentanoyl- $^{13}\text{C}_5$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-10960-1.2	Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8340-1.2	Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) ($^{13}\text{C}_6$, 99%)	50 µg/mL in methanol	1.2 mL
CLM-11541-1.2	Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (4,5,6- $^{13}\text{C}_3$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-8342-1.2	Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10624-1.2	Sodium perfluoro- <i>n</i> -heptanoate (PFHpA) ($^{13}\text{C}_7$, 99%)	50 µg/mL in methanol	1.2 mL
CLM-11723-1.2	Sodium perfluoro- <i>n</i> -heptanoic acid (PFHpA) (5,6,7- $^{13}\text{C}_3$, 99%)	100 µg/mL in methanol	1.2 mL
ULM-9516-A-1.2	Perfluoro- <i>n</i> -heptanoic acid (PFHpA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-8005-A-1.2	Perfluoro- <i>n</i> -octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-11727-1.2	Perfluoro- <i>n</i> -octanoic acid (PFOA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-7181-1.2	Perfluoro- <i>n</i> -octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
ULM-11782-1.2	Sodium perfluoro- <i>n</i> -octanoate (PFOA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8060-A-1.2	Perfluoro- <i>n</i> -nonanoic acid (PFNA) ($^{13}\text{C}_9$, 99%)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-11724-1.2	Perfluoro- <i>n</i> -nonanoic acid (PFNA) (7,8,9- $^{13}\text{C}_3$, 99%)	100 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-11537-1.2	Sodium perfluoro- <i>n</i> -nonanoate (PFNA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-8066-A-1.2	Perfluoro- <i>n</i> -nonanoic acid (PFNA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-11039-1.2	Sodium perfluoro- <i>n</i> -decanoate (PFDA) ($^{13}\text{C}_9$, 99%)	50 µg/mL in methanol	1.2 mL
CLM-11538-1.2	Sodium perfluoro- <i>n</i> -decanoate (PFDA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-11038-1.2	Sodium perfluoro- <i>n</i> -decanoate (PFDA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8789-1.2	Sodium perfluoro- <i>n</i> -undecanoate (PFUA) ($^{13}\text{C}_9$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-8084-1.2	Sodium perfluoro- <i>n</i> -undecanoate (PFUA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10593-1.2	Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA) ($^{13}\text{C}_{12}$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-10594-1.2	Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11757-1.2	Sodium perfluoro- <i>n</i> -tridecanoate (PFTrDA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-9955-1.2	Perfluoro- <i>n</i> -tridecanoic acid (PFTrDA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11535-1.2	Sodium perfluoro- <i>n</i> -tetradecanoate (PFTeDA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-9956-A-1.2	Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
CLM-11544-1.2	Sodium perfluoro- <i>n</i> -hexadecanoate (PFHxDA) (1,2,3,4- $^{13}\text{C}_4$, 99%)	50 µg/mL in methanol	1.2 mL
ULM-10721-A-1.2	Perfluoro- <i>n</i> -hexadecanoic acid (PFHxDA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL
ULM-10722-A-1.2	Perfluoro- <i>n</i> -octadecanoic acid (PFODA) (unlabeled)	50 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL

ES-5587-A	Perfluoroalkylcarboxylic acid (PFCA) C_4 - C_{14} Native Mixture	1.2 mL in MeOH (with 4 molar equivalents NaOH)
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Unlabeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)	2000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)	2000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)	2000
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)	2000
Sodium perfluoro- <i>n</i> -octanoate (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> -tridecanoic acid (PFTrA)	2000
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeA)	2000

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

TOP Assay

Catalog No.	Description	Concentration	Amount
CLM-11722-1.2	Perfluoroheptane sulfonamide (PFHpSA) (5,6,7- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
CLM-11723-1.2	Sodium perfluoro- <i>n</i> -heptanoic acid (PFHpA) (5,6,7- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
CLM-11724-1.2	Perfluoro- <i>n</i> -nonanoic acid (PFNA) (7,8,9- ¹³ C ₃ , 99%)	100 µg/mL in MeOH (with 4 molar equivalents NaOH)	1.2 mL

Perfluoroalkyl Sulfonates (PFAS)

Catalog No.	Description	Concentration	Amount
CLM-11766-1.2	Potassium trifluoromethanesulfonate (TFMS) (¹³ C, 99%)	50 µg/mL in methanol	1.2 mL
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 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 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 C ₆ , 99%)	50 µg/mL in methanol	1.2 mL
CLM-11539-1.2	Potassium perfluoro-1-hexanesulfonate (PFHxS) (4,5,6- ¹³ C ₃ , 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 perfluorohexanesulfonate (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 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 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-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-11635-1.2	Potassium perfluoro-1-undecanesulfonate (PFUnDS) (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
ULM-11636-1.2	Potassium perfluoro-1-tridecanesulfonate (PFTrDS) (unlabeled)	50 µg/mL in methanol	1.2 mL

Catalog No.	Description	Amount
ES-5576-A	Perfluoroalkylsulfonate (PFAS) C ₄ -C ₁₀ Native Mixture	1.2 mL in methanol

Unlabeled	(ng/mL)*
Potassium perfluoro-1-butanesulfonate (PFBS)	5000
Sodium perfluoro-1-pentanesulfonate (PFPeS)	5000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers	5000
Sodium perfluoro-1-heptanesulfonate (PFHpS)	5000
Sodium perfluoro-1-octanesulfonate (PFOS)	5000
Sodium perfluoro-1-nonanesulfonate (PFNS)	5000
Potassium perfluoro-1-decanesulfonate (PFDS)	5000

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

Catalog No.	Description	Amount
ES-5670	PARC 10 PFAS Native Mixture	1.2 mL in MeOH (with 4 molar equivalents NaOH)

Unlabeled	(ng/mL)*
Sodium trifluoroacetate (TFA)	2000
Perfluoropropanoic acid (PFPrA)	2000
Sodium perfluoro- <i>n</i> -butyrate (PFBA)	2000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)	2000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)	2000
Sodium trifluoromethanesulfonate (TFMS)	2000
Sodium perfluoroethanesulfonate (PFETs)	2000
Sodium perfluoro-1-propanesulfonate (PFPrS)	2000
Potassium perfluoro-1-butanesulfonate (PFBS)	2000
Sodium perfluoro-1-pentanesulfonate (PFPeS)	2000

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

PFOS/PFOA Mixture

Catalog No.	Description	Amount								
ES-5571	PFOS/PFOA Extraction Standard Mixture	3 mL in methanol								
	<table><tr><th>Labeled</th><th>(ng/mL)*</th></tr><tr><td>Perfluoro-<i>n</i>-octanoic acid (PFOA) (¹³C₈, 99%)</td><td>2000</td></tr><tr><td>Sodium perfluoro-1-octanesulfonate (PFOS) (¹³C₈, 99%)</td><td>2000</td></tr></table> <i>*Gravimetric concentration is based on the salt form, where applicable.</i>	Labeled	(ng/mL)*	Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	2000	Sodium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)	2000			
Labeled	(ng/mL)*									
Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	2000									
Sodium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)	2000									
ES-5572	PFOS/PFOA Injection Standard Mixture	3 mL in methanol								
	<table><tr><th>Labeled</th><th>(ng/mL)*</th></tr><tr><td>Perfluoro-<i>n</i>-nonanoic acid (PFNA) (¹³C₉, 99%)</td><td>2000</td></tr></table> <i>*Gravimetric concentration is based on the salt form, where applicable.</i>	Labeled	(ng/mL)*	Perfluoro- <i>n</i> -nonanoic acid (PFNA) (¹³ C ₉ , 99%)	2000					
Labeled	(ng/mL)*									
Perfluoro- <i>n</i> -nonanoic acid (PFNA) (¹³ C ₉ , 99%)	2000									
ES-5573	PFOS/PFOA Native Standard Mixture	1.2 mL in methanol								
	<table><tr><th>Unlabeled</th><th>(ng/mL)*</th></tr><tr><td>Perfluoro-<i>n</i>-octanoic acid (PFOA)</td><td>5000</td></tr><tr><td>Sodium perfluoro-1-octanesulfonate (PFOS)</td><td>5000</td></tr></table> <i>*Gravimetric concentration is based on the salt form, where applicable.</i>	Unlabeled	(ng/mL)*	Perfluoro- <i>n</i> -octanoic acid (PFOA)	5000	Sodium perfluoro-1-octanesulfonate (PFOS)	5000			
Unlabeled	(ng/mL)*									
Perfluoro- <i>n</i> -octanoic acid (PFOA)	5000									
Sodium perfluoro-1-octanesulfonate (PFOS)	5000									
ES-5649	PFOS/PFOA/PFHxS Labeled Standard Mixture	1.2 mL in methanol								
	<table><tr><th>Labeled</th><th>(ng/mL)*</th></tr><tr><td>Sodium perfluoro-1-octanesulfonate (PFOS) (¹³C₈, 99%)</td><td>2000</td></tr><tr><td>Perfluoro-<i>n</i>-octanoic acid (PFOA) (¹³C₈, 99%)</td><td>2000</td></tr><tr><td>Potassium perfluoro-1-hexanesulfonate (PFHxS) (¹³C₆, 99%)</td><td>2000</td></tr></table> <i>*Gravimetric concentration is based on the free acid, where applicable.</i>	Labeled	(ng/mL)*	Sodium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)	2000	Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	2000	Potassium perfluoro-1-hexanesulfonate (PFHxS) (¹³ C ₆ , 99%)	2000	
Labeled	(ng/mL)*									
Sodium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)	2000									
Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	2000									
Potassium perfluoro-1-hexanesulfonate (PFHxS) (¹³ C ₆ , 99%)	2000									
ES-5648-A	PFOS/PFOA/PFHxS Native Analyte Mixture	1.2 mL in methanol								
	<table><tr><th>Unlabeled</th><th>(ng/mL)*</th></tr><tr><td>Sodium perfluoro-1-octanesulfonate (PFOS)</td><td>5000</td></tr><tr><td>Sodium perfluoro-<i>n</i>-octanoate (PFOA)</td><td>5000</td></tr><tr><td>Potassium perfluoro-1-hexanesulfonate (PFHxS)</td><td>5000</td></tr></table> <i>*Gravimetric concentration is based on the free acid, where applicable.</i>	Unlabeled	(ng/mL)*	Sodium perfluoro-1-octanesulfonate (PFOS)	5000	Sodium perfluoro- <i>n</i> -octanoate (PFOA)	5000	Potassium perfluoro-1-hexanesulfonate (PFHxS)	5000	
Unlabeled	(ng/mL)*									
Sodium perfluoro-1-octanesulfonate (PFOS)	5000									
Sodium perfluoro- <i>n</i> -octanoate (PFOA)	5000									
Potassium perfluoro-1-hexanesulfonate (PFHxS)	5000									

Fluoroethers and Polyethers

Catalog No.	Description	Concentration	Amount
CLM-11543-1.2	Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" (propoxy- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-11542-1.2	Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-11280-A-1.2	Dodecafluoro-3H-4,8-dioxananoic acid (DONA) (unlabeled)	100 µg/mL in MeOH (w/4 molar equivalents NaOH)	1.2 mL
ULM-10843-1.2	Potassium 9-chlorohexadecafluoro-3-oxanone-1-sulfonate (9CI-PF3ONS) (F53B Major) (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-10844-1.2	Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11CI-PF3OUs) (F53B Minor) (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-11230-1.2	Perfluoro-3,6-dioxo-4-methyl-7-octenesulfonic acid (Nafion BP1) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-11231-1.2	7H-Perfluoro-4-methyl-3,6-dioxaoctanesulfonic acid (Nafion BP2) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-11226-1.2	Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-12320-1.2	Perfluoro-2-methoxypropanoic acid (PMPA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-12321-1.2	Perfluoro-2-ethoxypropanoic acid (PEPA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-11223-1.2	Perfluoro-2-methoxyacetic acid (PFMOAA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-10738-A-1.2	Perfluoro-3-methoxypropanoic acid (PFMPA) (unlabeled)	100 µg/mL in MeOH (w/4 molar equivalents NaOH)	1.2 mL
ULM-10739-1.2	Perfluoro-4-methoxybutanoic acid (PFMBA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-10734-A-1.2	Perfluoro-3,6-dioxahexanoic acid (PFDHA) (unlabeled)	100 µg/mL in MeOH (w/4 molar equivalents NaOH)	1.2 mL
ULM-11128-1.2	Perfluoro(2-ethoxyethane) sulfonic acid (PFEEA) (unlabeled)	50 µg/mL in methanol	1.2 mL

Other Fluorinated Compounds

Catalog No.	Description	Concentration	Amount
ULM-11073-1.2	Bis(1H,1H,2H,2H-perfluorodecyl) phosphate (8:2-DiPAP) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11260-1.2	2,2-Difluoromalononic acid (MMF), sodium salt (¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-12303-1.2	2,2-Difluoromalononic acid (MMF), sodium salt (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-11742-1.2	Lithium bis(trifluoromethanesulfonyl)imide (TFSI) (unlabeled)	100 µg/mL in methanol	1.2 mL

Fluorotelomer Sulfonates (FTS)

Catalog No.	Description	Concentration	Amount
CDLM-10753-1.2	Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10757-1.2	Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CDLM-10752-1.2	Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10756-1.2	Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (6:2 FTS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CDLM-10751-1.2	Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10755-1.2	Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS) (unlabeled)	50 µg/mL in methanol	1.2 mL
CDLM-10750-1.2	Sodium 1H,1H,2H,2H-perfluoro-1-dodecanesulfonate (10:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10754-1.2	Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS) (unlabeled)	50 µg/mL in methanol	1.2 mL

Catalog No.	Description	Amount
ES-5661	Fluorotelomer Sulfonates (FTS) Labeled Standard Mixture	1.2 mL in methanol
ES-5661-2X	Fluorotelomer Sulfonates (FTS) Labeled Standard Mixture (2x stock)	1.2 mL in methanol

Labeled	ES-5661 (ng/mL)*	ES-5661-2X (ng/mL)*
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000	2000
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000	2000
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000	2000
Sodium 1H,1H,2H,2H-perfluorododecanesulfonate (10:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000	2000

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

ES-5662	Fluorotelomer Sulfonates (FTS) Native Standard Mixture	1.2 mL in methanol
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Unlabeled	(ng/mL)*
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

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

Fluorotelomer Alcohols (FTOH)

Catalog No.	Description	Concentration	Amount
ULM-10723-1.2	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) (unlabeled)	100 µg/mL in methanol	1.2 mL
CDLM-10709-1.2	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (1,2- ¹³ C ₂ , 99%; 1,1,2,2-D ₄ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10724-1.2	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (unlabeled)	100 µg/mL in methanol	1.2 mL
CDLM-10712-1.2	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (1,2- ¹³ C ₂ , 99%; 1,1,2,2-D ₄ , 98%) CP 95%	50 µg/mL in methanol	1.2 mL
ULM-10727-1.2	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (unlabeled)	100 µg/mL in methanol	1.2 mL
CDLM-10715-1.2	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (1,2- ¹³ C ₂ , 99%; 1,1,2,2-D ₄ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-11175-1.2	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (unlabeled)	50 µg/mL in methanol	1.2 mL

Fluorotelomer Acids (FTA)

Catalog No.	Description	Concentration	Amount
ULM-10725-1.2	2H,2H-Perfluorooctanoic acid (6:2 FTA) (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-10726-1.2	2H,2H-Perfluorodecanoic acid (8:2 FTA) (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-11822-1.2	2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA) (1,2,3- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-11532-1.2	2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA) (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-11823-1.2	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA) (1,2,3- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-11533-1.2	2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA) (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-11534-1.2	2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA) (unlabeled) mix of isomers	100 µg/mL in methanol	1.2 mL

Fluorotelomer Acrylates (FTAcR)

Catalog No.	Description	Concentration	Amount
CDLM-11770-1.2	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2-FTAcR) (¹³ C ₂ , 99%; D ₄ , 98%) w/~200 ppm MeHQ	50 µg/mL in methanol	1.2 mL
ULM-11771-1.2	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2-FTAcR) (unlabeled) w/~200 ppm MeHQ	50 µg/mL in methanol	1.2 mL

Perfluorooctanesulfonamidoacetic Acids (FOSAA)

Catalog No.	Description	Concentration	Amount
DLM-10663-1.2	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (N-methyl-D ₃ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10656-1.2	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL
DLM-10664-1.2	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (N-ethyl-D ₅ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10657-1.2	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL

Perfluorooctanesulfonamides (FOSA)

Catalog No.	Description	Concentration	Amount
ULM-11129-1.2	Perfluorobutanesulfonamide (PFBSA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-11130-1.2	Perfluorohexanesulfonamide (PFHxSA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-11722-1.2	Perfluoroheptanesulfonamide (PFHpSA) (5,6,7- ¹³ C ₃ , 99%)	100 µg/mL in methanol	1.2 mL
CLM-11007-1.2	Perfluorooctanesulfonamide (PFOSA) (¹³ C ₈ , 99%)	50 µg/mL in methanol	1.2 mL
ULM-10977-A-1.2	Perfluorooctanesulfonamide (PFOSA) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL
ULM-11309-1.2	Perfluorooctanesulfonamide (PFOSA) (unlabeled) linear isomer	50 µg/mL in methanol	1.2 mL
DLM-10740-1.2	N-Methylperfluorooctanesulfonamide (N-MeFOSA) (D ₃ , 98%)	100 µg/mL in methanol	1.2 mL
ULM-10779-1.2	N-Methylperfluorooctanesulfonamide (N-MeFOSA) (unlabeled) mix of isomers	100 µg/mL in methanol	1.2 mL
DLM-10741-1.2	N-Ethylperfluorooctanesulfonamide (N-EtFOSA) (D ₅ , 98%)	100 µg/mL in methanol	1.2 mL
ULM-10780-1.2	N-Ethylperfluorooctanesulfonamide (N-EtFOSA) (unlabeled) mix of isomers	100 µg/mL in methanol	1.2 mL

Perfluorooctanesulfonamido Ethanols (FOSE)

Catalog No.	Description	Concentration	Amount
DLM-11035-1.2	<i>N</i> -Methylperfluorooctanesulfonamidoethanol (<i>N</i> -MeFOSE) (<i>N</i> -methyl-D ₃ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-11034-1.2	<i>N</i> -Methylperfluorooctanesulfonamidoethanol (<i>N</i> -MeFOSE) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL
DLM-11037-1.2	<i>N</i> -Ethylperfluorooctanesulfonamidoethanol (<i>N</i> -EtFOSE) (<i>N</i> -ethyl-D ₅ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-11036-1.2	<i>N</i> -Ethylperfluorooctanesulfonamidoethanol (<i>N</i> -EtFOSE) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL

Bile Acid Salts

Catalog No.	Description	Concentration	Amount
ULM-9943-0.01	Taurodeoxycholic acid (TDCA), sodium salt hydrate (unlabeled)	neat	0.01 g
ULM-9561-0.01	Taurochenodeoxycholic acid (TCDCA), sodium salt (unlabeled)	neat	0.01 g
ULM-9885-0.01	Tauroursodeoxycholic acid (TUDCA), dihydrate (unlabeled)	neat	0.01 g

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 equivalents NaOH)

Unlabeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)	2000
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)	2000
Sodium perfluoro- <i>n</i> -octanoate (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> -tridecanoic acid (PFTTrDA)	2000
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)	2000
Potassium perfluoro-1-butanefluorophosphate (PFBS)	2000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers	2000
Perfluorooctanesulfonate (PFOS) mix of isomers	2000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers	2000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic 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 (9CI-PF3ONS) (F53B Major)	2000
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11CI-PF3OUdS) (F53B Minor)	2000
Dodecafluoro-3 <i>H</i> -4,8-dioxanonanoic 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 equivalents NaOH)
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Labeled	(ng/mL)*
Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	1000
Potassium perfluoro-1-octanesulfonate (PFOS) (¹³ C ₈ , 99%)	3000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic 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 equivalents NaOH)
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Labeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (¹³ C ₆ , 99%)	1000
Sodium perfluoro- <i>n</i> -decanoate (PFDA) (¹³ C ₉ , 99%)	1000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic 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 equivalents 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> -octanoate (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-butanefluorobutanesulfonate (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 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS)		1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS)		1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS)		1000
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX"		1000
Dodecafluoro-3 <i>H</i> -4,8-dioxanonanoic acid (DONA)		1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9CI-PF3ONS) (F53B Major)		1000
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11CI-PF3OUdS) (F53B Minor)		1000
Perfluoro-3-methoxypropanoic acid (PFMPA)		1000
Perfluoro-4-methoxybutanoic acid (PFMBA)		1000
Perfluoro-3,6-dioxahexanoic acid (PFDHA)		1000
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)		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 equivalents NaOH)
Labeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA) ($^{13}\text{C}_4$, 99%)		500
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) ($^{13}\text{C}_5$, 99%)		500
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) ($^{13}\text{C}_6$, 99%)		500
Sodium perfluoro- <i>n</i> -heptanoate (PFHpA) ($^{13}\text{C}_7$, 99%)		500
Perfluoro- <i>n</i> -octanoic acid (PFOA) ($^{13}\text{C}_8$, 99%)		500
Perfluoro- <i>n</i> -nonanoic acid (PFNA) ($^{13}\text{C}_9$, 99%)		500
Sodium perfluoro- <i>n</i> -decanoate (PFDA) ($^{13}\text{C}_{10}$, 99%)		500
Sodium perfluoro- <i>n</i> -undecanoate (PFUA) ($^{13}\text{C}_{11}$, 99%)		500
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA) ($^{13}\text{C}_{12}$, 99%)		500
Potassium perfluoro-1-butanedisulfonate (PFBS) ($^{13}\text{C}_4$, 99%)		500
Potassium perfluoro-1-hexanedisulfonate (PFHxS) ($^{13}\text{C}_6$, 99%)		500
Potassium perfluoro-1-octanedisulfonate (PFOS) ($^{13}\text{C}_8$, 99%),		500
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" ($^{13}\text{C}_3$, 99%)		500
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS) ($^{13}\text{C}_2$, 99%; D_4 , 98%)		2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS) ($^{13}\text{C}_2$, 99%; D_4 , 98%)		2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS) ($^{13}\text{C}_2$, 99%; D_4 , 98%)		2000
<i>*Gravimetric concentration is based on the free acid, where applicable.</i>		
ES-5655	EPA Method 533 Isotope Performance Standard PDS	1.2 mL in MeOH (with 4 molar equivalents NaOH)
Labeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA) (2,3,4- $^{13}\text{C}_3$, 99%)		1000
Perfluoro- <i>n</i> -octanoic acid (PFOA) (1,2,3,4,5,6- $^{13}\text{C}_6$, 99%)		1000
Potassium perfluoro-1-octanedisulfonate (PFOS) (1,2,3,4,5- $^{13}\text{C}_5$, 99%)		3000

**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 equivalents NaOH)
Unlabeled		(ng/mL)*
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers		2000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) mix of isomers		2000
Perfluoro- <i>n</i> -tridecanoic acid (PFTrA)		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 equivalents NaOH)

Labeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA) (2,3,4- ¹³ C ₃ , 99%)	1000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) (pentanoyl- ¹³ C ₅ , 99%)	1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (¹³ C ₆ , 99%)	1000
Sodium perfluoro- <i>n</i> -heptanoate (PFHpA) (heptanoyl- ¹³ C ₇ , 99%)	1000
Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	1000
Perfluoro- <i>n</i> -nonanoic acid (PFNA) (¹³ C ₉ , 99%)	1000
Perfluoro- <i>n</i> -decanoic acid (PFDA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA) (dodecanoyl- ¹³ C ₁₂ , 99%)	1000
Sodium perfluoro- <i>n</i> -tetradecanoate (PFTeDA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)	1000
Potassium perfluoro-1-butanefluorobutanesulfonate (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 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Perfluorooctanesulfonamide (PFOSA) (¹³ C ₈ , 99%)	1000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) (<i>N</i> -methyl-D ₃ , 98%)	1000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) (<i>N</i> -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 equivalents NaOH)
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Unlabeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)	2000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)	2000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA)	2000
Perfluoro- <i>n</i> -heptanoic acid (PFHpA)	2000
Sodium perfluoro- <i>n</i> -octanoate (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> -tridecanoic acid (PFTeDA)	2000
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)	2000
Potassium perfluoro-1-butanefluorobutanesulfonate (PFBS)	2000
Sodium perfluoro-1-pentanesulfonate (PFPeS)	2000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers	2000
Sodium perfluoro-1-heptanesulfonate (PFHpS)	2000
Perfluorooctanesulfonic acid (PFOS) mix of isomers	2000
Sodium perfluoro-1-nonanesulfonate (PFNS)	2000
Potassium perfluoro-1-decanesulfonate (PFDS)	2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS)	2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS)	2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS)	2000
Perfluorooctanesulfonamide (PFOSA) mix of isomers	2000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers	2000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid (<i>N</i> -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 equivalents 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
Sodium perfluoro- <i>n</i> -octanoate (PFOA)	500
Perfluoro- <i>n</i> -nonanoic acid (PFNA)	500
Sodium perfluoro- <i>n</i> -decanoate (PFDA)	500
Sodium perfluoro- <i>n</i> -undecanoate (PFUA)	500
Sodium perfluoro- <i>n</i> -dodecanoate (PFDaA)	500
Perfluoro- <i>n</i> -tridecanoic acid (PFTrDA)	500
Perfluoro- <i>n</i> -tetradecanoic acid (PFTeDA)	500
Potassium perfluoro-1-butanedisulfonate (PFBS)	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-decanedisulfonate (PFDS)	500
Potassium perfluoro-1-dodecanedisulfonate (PFDdS)	500
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS)	2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS)	2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -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-3 <i>H</i> -4,8-dioxanonanoic acid (DONA)	2000
Perfluoro-3-methoxypropanoic acid (PFMPA)	1000
Perfluoro-4-methoxybutanoic acid (PFMBA)	1000
Perfluoro-3,6-dioxahexanoic acid (PFDHA)	1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9CI-PF3ONS) (F53B Major)	2000
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11CI-PF3OUdS) (F53B Minor)	2000
Perfluoro(2-ethoxyethane) sulfonic acid (PFEEESA)	1000
2 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> ,3 <i>H</i> -Perfluorohexanoic acid (3:3 FTCA)	2500
2 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> ,3 <i>H</i> -Perfluorooctanoic acid (5:3 FTCA)	12,500
2 <i>H</i> ,2 <i>H</i> ,3 <i>H</i> ,3 <i>H</i> -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 equivalents NaOH)
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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-propanedisulfonate (PFPrS)	2000
Perfluorobutanesulfonamide (PFBSA)	2000
Perfluorohexanesulfonamide (PFHxSA)	2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorododecanedisulfonate (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 equivalents NaOH)
ES-5665	PFAS RM-41 Native Spiking Mixture	5 mL in MeOH (with 4 molar equivalents 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 (PFDaA)	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 (PFBS)	1000
Sodium perfluoro-1-pentanesulfonate (PFPeS)	1000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers	1000
Sodium perfluoro-1-heptanesulfonate (PFHpS)	1000
Perfluorooctanesulfonate (PFOS) mix of isomers	1000
Sodium perfluoro-1-nonanesulfonate (PFNS)	1000
Potassium perfluoro-1-decanesulfonate (PFDS)	1000
Potassium perfluoro-1-dodecanesulfonate (PFDaDS)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -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> -Ethylperfluorooctanesulfonamide (<i>N</i> -EtFOSA) 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
<i>N</i> -Methylperfluorooctanesulfonamidoethanol (<i>N</i> -MeFOSE) mix of isomers	1000
<i>N</i> -Ethylperfluorooctanesulfonamidoethanol (<i>N</i> -EtFOSE) mix of isomers	1000
Sodium tetrafluoro-2-(heptafluoropropoxy) propanoic acid (HFPO-DA) "GenX"	1000
Dodecafluoro-3 <i>H</i> -4,8-dioxanonanoic acid (DONA)	1000
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS) (F53B Major)	1000
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF3OUdS) (F53B Minor)	1000
Perfluoro-3-methoxypropanoic acid (PFMPA)	1000
Perfluoro-4-methoxybutanoic acid (PFMBA)	1000
Perfluoro-3,6-dioxahexanoic acid (PFDHA)	1000
Perfluoro(2-ethoxyethane) sulfonic acid (PFEEESA)	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 equivalents NaOH)

Labeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA) (¹³ C ₃ , 99%)	1000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) (¹³ C ₅ , 99%)	1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (¹³ C ₆ , 99%)	1000
Sodium perfluoro- <i>n</i> -heptanoate (PFHpA) (¹³ C ₇ , 99%)	1000
Perfluoro- <i>n</i> -octanoic acid (PFOA) (¹³ C ₈ , 99%)	1000
Perfluoro- <i>n</i> -nonanoic acid (PFNA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -decanoate (PFDA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA) (¹³ C ₁₂ , 99%)	1000
Sodium perfluoro- <i>n</i> -tetradecanoate (PFTeDA) (1,2,3,4,5,6- ¹³ C ₆ , 99%)	1000
Sodium perfluoro- <i>n</i> -hexadecanoate (PFHxDA) (1,2,3,4- ¹³ C ₄ , 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 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorododecanesulfonate (10:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Perfluorooctanesulfonamide (PFOSA) (¹³ C ₈ , 99%)	1000
<i>N</i> -Methylperfluorooctanesulfonamide (<i>N</i> -MeFOSA) (D ₃ , 98%)	1000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) (D ₃ , 98%)	1000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic acid (<i>N</i> -EtFOSAA) (D ₅ , 98%)	1000
Sodium tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA) "GenX" (¹³ C ₃ , 99%)	1000

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

ES-5641-A	PFAS SIL Superfund Mixture 2	1.2 mL in MeOH (with 4 molar equivalents NaOH)
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Labeled	(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA) (¹³ C ₃ , 99%)	1000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA) (¹³ C ₅ , 99%)	1000
Sodium perfluoro- <i>n</i> -hexanoate (PFHxA) (¹³ C ₆ , 99%)	1000
Perfluoro- <i>n</i> -decanoic acid (PFDA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -undecanoate (PFUA) (¹³ C ₉ , 99%)	1000
Sodium perfluoro- <i>n</i> -dodecanoate (PFDoA) (¹³ C ₁₂ , 99%)	1000
Sodium perfluoro- <i>n</i> -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
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS) (¹³ C ₂ , 99%; D ₄ , 98%)	1000
Perfluorooctanesulfonamide (PFOSA) (¹³ C ₈ , 99%)	1000

*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 equivalents NaOH)
Unlabeled		(ng/mL)*
Sodium perfluoro- <i>n</i> -butyrate (PFBA)		2000
Sodium perfluoro- <i>n</i> -pentanoate (PFPeA)		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 (PFDaA)		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-butanefulfonate (PFBS)		2000
Potassium perfluorohexanesulfonate (PFHxS) mix of isomers		2000
Perfluorooctanesulfonate (PFOS) mix of isomers		2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexanesulfonate (4:2 FTS)		2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctanesulfonate (6:2 FTS)		2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecanesulfonate (8:2 FTS)		2000
Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorododecanesulfonate (10:2 FTS)		2000
Perfluorooctanesulfonamide (PFOSA) mix of isomers		2000
<i>N</i> -Methylperfluorooctanesulfonamide (<i>N</i> -MeFOSA) mix of isomers		2000
<i>N</i> -Methylperfluorooctanesulfonamidoacetic acid (<i>N</i> -MeFOSAA) mix of isomers		2000
<i>N</i> -Ethylperfluorooctanesulfonamidoacetic 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 (PFTriDA)	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-butanedisulfonate (PFBS)	1000
	Sodium perfluoro-1-pentadisulfonate (PFPeS)	1000
	Potassium perfluorohexadisulfonate (PFHxS) mix of isomers	1000
	Sodium perfluoro-1-heptadisulfonate (PFHpS)	1000
	Sodium perfluoro-1-octadisulfonate (PFOS)	1000
	Potassium perfluoro-1-decadisulfonate (PFDS)	1000
	Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorohexadisulfonate (4:2 FTS)	1000
	Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorooctadisulfonate (6:2 FTS)	1000
	Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecadisulfonate (8:2 FTS)	1000
	Sodium 1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorododecadisulfonate (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(1 <i>H</i> ,1 <i>H</i> ,2 <i>H</i> ,2 <i>H</i> -perfluorodecyl)phosphate (8:2-DiPAP)	1000

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

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