



## Test Report

No.T32420331485SC

Date: Sep 30, 2024

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FMC MANUFACTURING CO., LTD  
17/F YAN'S TOWER, 25-27 WONG CHUK HANG ROAD

The following samples were submitted and identified by/on behalf of the client as:

EDIBLE RICE STRAW

Case No. : CA324203321539  
Style/Item No. : 6.0MM/13.0MM DIA)X20CM  
Agent : FMC  
Manufacturer : ECOSTRAWS  
Country of Origin : VIETNAM  
Sample Receiving Date : SEP 20, 2024  
Testing Period : SEP 20, 2024 – SEP 30, 2024

Test Requested	Conclusion
Perfluorinated and Polyfluorinated Chemicals (PFAS) - All materials	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.

Lam Chi Ho, Jacko  
Senior Chemist

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**Test Results:**
**Perfluorinated and Polyfluorinated Chemicals (PFAS) - All materials**

Test Method: With reference to EN ISO 23702-1:2023, EN 17681-1:2022 and EN 17681-2:2022.  
Analysis was conducted by HPLC-MS/MS and GC-MS.

Test result per sample surface area unit	CAS-No.	Reporting Limit	Result 1
<b>PFOS, its salts and related compounds</b>			
Perfluorooctanesulfonic acid (PFOS), its salts <sup>#</sup>	1763-23-1	1.0	n.d.
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	1.0	n.d.
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	1.0	n.d.
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	1.0	n.d.
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	1.0	n.d.
Perfluorooctane sulfonamide (PFOSA), its salts <sup>#</sup>	754-91-6	1.0	n.d.
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	1.0	n.d.
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	1.0	n.d.
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	1.0	n.d.
<b>Sum of PFOS, its salts and related compounds</b>	--	--	n.d.

Test result per sample mass unit	CAS-No.	Reporting Limit	Result 1
<b>PFOA, its salts</b>			
Perfluorooctanoic acid (PFOA), its salts <sup>#</sup>	335-67-1	0.01	n.d.
<b>PFOA-related compounds</b>			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) @ its salts <sup>#</sup>	39108-34-4	0.10	n.d.
Methyl perfluorooctanoate (Me-PFOA); Ethyl perfluorooctanoate (Et-PFOA) ^	376-27-2 / 3108-24-5	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @	27905-45-9	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @	1996-88-9	0.20	n.d.
Perfluoro-1-iodooctane (PFOI)	507-63-1	0.20	n.d.

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2H,2H Perfluorodecane Acid (8:2 FTCA) @, its salts <sup>#</sup>	27854-31-5	0.10	n.d.
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) @	678-39-7	0.10	n.d.
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) @	2043-53-0	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ) @	101947-16-4	0.20	n.d.
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP) @ its salts <sup>#</sup>	678-41-1	0.10	n.d.
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA) @ its salts <sup>#</sup>	34598-33-9	0.10	n.d.
1H,1H,2H-Heptafluorodecyl-1-decene (PFDE) @	21652-58-4	0.20	n.d.
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.10	n.d.
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl <sub>3</sub> ) / 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) <sup>^^</sup> ,@	78560-44-8/ 83048-65-1	0.20	n.d.
2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.10	n.d.
6:8 Perfluorophosphinic acid (6:8 PFPI) §	610800-34-5	0.10	n.d.
8:8 Perfluorophosphinic acid (8:8 PFPI)	40143-79-1	0.10	n.d.
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) @	37858-04-1	0.20	n.d.
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) @	57678-03-2	0.10	n.d.
			n.d.
<b>Sum of PFOA-related compounds</b>	--	--	n.d.

Test result per sample mass unit			<b>Result</b>
	<b>CAS-No.</b>	<b>Reporting Limit</b>	<b>1</b>
<b>C9-C14 PFCA, its salts</b>			
Perfluorononane Acid (PFNA), its salts <sup>#</sup>	375-95-1	0.01	n.d.
Perfluorodecane Acid (PFDA), its salts <sup>#</sup>	335-76-2	0.01	n.d.
Perfluoroundecanoic Acid (PFUnDA), its salts <sup>#</sup>	2058-94-8	0.01	n.d.
Perfluorododecanoic Acid (PFDoDA), its salts <sup>#</sup>	307-55-1	0.01	n.d.
Perfluorotridecanoic Acid (PFTTrDA), its salts <sup>#</sup>	72629-94-8	0.01	n.d.
Perfluorotetradecanoic Acid (PFTDA), its salts <sup>#</sup>	376-06-7	0.01	n.d.

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Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.01	n.d.
<b>Sum of C9-C14 PFCA, its salts</b>	--	--	n.d.
<b>C9-C14 PFCA-related substances</b>			
Perfluorodecane sulfonic Acid (PFDS), its salts <sup>#</sup>	335-77-3	0.10	n.d.
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.10	n.d.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.20	n.d.
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.20	n.d.
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.10	n.d.
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS), its salts <sup>#</sup>	120226-60-0	0.10	n.d.
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI)	2043-54-1	0.20	n.d.
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.20	n.d.
Perfluorononane sulfonic acid (PFNS), its salts <sup>#</sup>	68259-12-1	0.10	n.d.
Perfluoroundecane sulfonic acid (PFUnDS), its salts <sup>#</sup>	749786-16-1	0.10	n.d.
Perfluorododecane sulfonic acid (PFDoDS), its salts <sup>#</sup>	79780-39-5	0.10	n.d.
Perfluorotridecane sulfonic acid (PFTrDS), its salts <sup>#</sup>	791563-89-8	0.10	n.d.
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.10	n.d.
Perfluorodecyl iodide (PFDI)	423-62-1	0.20	n.d.
Perfluorododecyl iodide (PFDoDI)	307-60-8	0.20	n.d.
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.10	n.d.
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.10	n.d.
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	0.20	n.d.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) @its salts <sup>#</sup>	39108-34-4	0.10	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @	27905-45-9	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @	1996-88-9	0.20	n.d.
2H,2H Perfluorodecane Acid (8:2 FTCA) @, its salts <sup>#</sup>	27854-31-5	0.10	n.d.
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) @	678-39-7	0.10	n.d.

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1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) @	2043-53-0	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ) @	101947-16-4	0.20	n.d.
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP) # @ its salts #	678-41-1	0.10	n.d.
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA) # @ its salts #	34598-33-9	0.10	n.d.
1H,1H,2H-Heptafluoro-1-decene (PFDE) @	21652-58-4	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl <sub>3</sub> ) / 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH <sub>3</sub> ) <sub>3</sub> ) ^^, @	78560-44-8/ 83048-65-1	0.20	n.d.
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) @	37858-04-1	0.20	n.d.
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), @	57678-03-2	0.10	n.d.
<b>Sum of C9-C14-related substances</b>	-	-	n.d.

Test result per sample mass unit			<b>Result</b>
	<b>CAS-No.</b>	<b>Reporting Limit</b>	<b>1</b>
<b>PFHxS, its salts</b>			
Perfluorohexanesulfonic acid (PFHxS), its salts #	355-46-4	0.01	n.d.
<b>PFHxS-related compounds</b>			
N-Methylperfluoro-1-hexane sulfonamide (N-MeFHxSA)	68259-15-4	0.10	n.d.
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.10	n.d.
N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.10	n.d.
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.20	n.d.
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester (MeFHxSEMA)	67584-61-6	0.20	n.d.
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester (EtFHxSEMA)	67906-70-1	0.20	n.d.

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1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N- (2-hydroxyethyl)-N-methyl-(MeFHxSE)	68555-75-9	0.10	n.d.
Glycine, N-ethyl-N- [(1,1,2,2,3,3,4,4,5,5,6,6,6- tridecafluorohexyl)sulfonyl]- (EtFHxSAA), its salts <sup>#</sup>	68957-32-4	0.10	n.d.
<b>Sum of PFHxS-related compounds</b>	--	--	n.d.

### Specimen Description:

1.Ivory plastic (Straw)

Note: n.d. = not detected  
@ PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances  
§ PFAS classified as both PFOA-related compounds and PFHxA-related substances  
^ As the extraction is performed with Methanol, EtPFOA will convert to MePFOA. Thus, the sum of both must be calculated and considered.  
^^ 8:2 FTSiCl<sub>3</sub> can not be analytically distinguished from 8:2 FTSi(OCH<sub>3</sub>)<sub>3</sub> with current method. Thus, the sum of both must be calculated and considered.  
# Substances refer to its salts/derivative listed in Appendix 1  
\* = Exceeds the limit

### Requirement:

PFOS, its salts and related compounds

Textile or other coated materials 1 µg/m<sup>2</sup>

Recommended requirement with reference to commission regulation (EU) 2019/1021 ; and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81

PFOA, its salts 25 ppb (0.025 mg/kg)

PFOA-related compounds 1 mg/kg (each or total)

Recommended requirement with reference to Regulation (EU) 2020/784 amending Annex I to Regulation (EU) 2019/1021; and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81

C9-C14 PFCA, their salts 25 ppb (0.025 mg/kg) (total)

C9-C14 PFCA-related substances 260 ppb (0.26 mg/kg) (total)

Recommended requirement with reference to commission regulation (EU) 2021/1297 amending Annex XVII to Regulation (EC) 1907/2006 and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81

PFHxS, its salts 25 ppb (0.025 mg/kg)

PFHxS-related compounds 1 mg/kg (each or total)

Recommended requirement with reference to Regulation (EU) 2023/1608 amending Annex I to Regulation (EU) 2019/1021; and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81

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Other PFAS

Information only

Requirement:  
All listed PFAS

Information only

**Remark:**

When statement of conformity is made, unless inherent in the requested specification, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w = U_{95}$ ) in ILAC-G8:09/2019 Clause 4.2.3.

"Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."

"Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.

"Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%."

**Sample Photo:**

Pic.1



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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**Appendix 1 – List of PFAS its salts & derivatives**

Note: Salts of listed PFAS is subjected to the detection of its parent PFAS

Substances	CAS No.	Substances	CAS No.
<b>PFOA, its salts &amp; derivatives</b>			
Perfluorooctanoic Acid (PFOA)	335-67-1	Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium (PFOA-Cr3+)	68141-02-6
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	Pentadecafluorooctanoic acid—piperazine (PFOA-NH(C4H10N))	423-52-9
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	Pentadecafluorooctanoate (anion)	45285-51-6
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	Perfluorooctanoic Anhydride	33496-48-9
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Ammonium perfluorooctanoate (APFO)	3825-26-1	Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	Tetrapropylammonium perfluorooctanoate	277749-00-5
<b>8:2 FTCA, its salts</b>			
2H,2H Perfluorodecane Acid (8:2 FTCA)	27854-31-5	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C4H9)4)	882489-14-7
<b>PFOS, its salts &amp; derivatives</b>			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C4H9)4)	111873-33-7
Potassium perfluorooctane sulfonate (PFOS-K)	2795-39-3	Perfluorooctanesulfonate	45298-90-6
Sodium perfluorooctane sulfonate (PFOS-Na)	4021-47-0	Triethylammonium perfluorooctane sulfonate	54439-46-2
Lithium perfluorooctane sulfonate (PFOS-Li)	29457-72-5	Tetramethylammonium perfluorooctane sulfonate	56773-44-5
Ammonium perfluorooctane sulfonate (PFOS-NH4)	29081-56-9	N,N,N-Tripentylpentan-1-aminium heptadecafluorooctane-1-sulfonate	56773-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH2(C2H4OH)2)	70225-14-8	N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate	124472-68-0
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C2H5)4) / PFOS-TEA	56773-42-3	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C10H21)2(CH3)2)	251099-16-8	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
Magnesium bis(heptadecafluoro octanesulphonate) (PFOS-Mg)	91036-71-4	1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7	N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	Tetrabutylphosphonium perfluorooctane sulfonate	2185049-59-4
<b>PFNA, its salts</b>			
Perfluorononane Acid (PFNA)	375-95-1	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) (PFNA-N(C4H11))	77032-27-0
Sodium heptadecafluorononanoate (PFNA-Na)	21049-39-8	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-N(C2H7))	77032-24-7
Perfluorononanoate ammonium salt (PFNA-NH4)	4149-60-4	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-N(C6H15))	327176-80-7
Potassium perfluorononanoate (PFNA-K)	21049-38-7	Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-N(C5H11))	95682-66-9
Lithium perfluorononanoate (PFNA-Li)	60871-92-3	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-N(C6H7))	95682-67-0

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Silver perfluorononanoate (PFNA-Ag)	7358-16-9	Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9Cl) (PFNA-N(C6H13))	328531-06-2
Methanaminium perfluorononanoate (PFNA-NH <sub>3</sub> (CH <sub>3</sub> ))	77032-23-6	Perfluorononanoate (anion)	72007-68-2
<b>PFDA, its salts</b>			
Perfluorodecane Acid (PFDA)	335-76-2	Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Sodium nonadecafluorodecanoate (PFDA-Na)	3830-45-3	Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
Perfluorodecanoate ammonium salt (PFDA-NH <sub>4</sub> )	3108-42-7	Perfluorodecanoate (anion)	73829-36-4
Potassium perfluorodecanoate (PFDA-K)	51604-85-4		
<b>PFUnDA, its salts</b>			
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Sodium perfluoroundecanoate (PFUnDA-Na)	60871-96-7	Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
Ammonium perfluoroundecanoate (PFUnDA-NH <sub>4</sub> )	4234-23-5	Perfluoroundecanoate (anion)	196859-54-8
<b>PFDODA, its salts</b>			
Perfluorododecanoic Acid (PFDODA)	307-55-1	Sodium perfluorododecanoate (PFDODA-Na)	60872-01-7
Ammonium tricosafuorododecanoate (PFDODA-NH <sub>4</sub> )	3793-74-6	Perfluorododecanoate (anion)	171978-95-3
<b>PFDS, its salts</b>			
Perfluorodecane sulfonic Acid (PFDS)	335-77-3	Perfluorodecanesulfonic acid ammonium salt (PFDS-NH <sub>4</sub> )	67906-42-7
Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	Perfluorodecane sulfonate (anion)	126105-34-8
Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8		
<b>8:3 FTCA, its salts</b>			
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA)	34598-33-9	2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1		
<b>PFHxS, its salts &amp; derivatives</b>			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	Bis(4-tert-butylphenyl)iodanium tridecafluorohexane-1-sulfonate	213740-81-9
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5	Bis(4-methylphenyl)(phenyl)sulfanium tridecafluorohexane-1-sulfonate	341548-85-4
Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with perfluorohexanesulfonic acid (1:2)	421555-73-9
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9	Perfluorohexanesulfonic acid, Gallium(3+) salt (3:1) (PFHxS-Ga)	341035-71-0
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH <sub>4</sub> )	68259-08-5	Perfluorohexanesulfonic acid, Scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
Benzyltriphenylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-BTPP)	1000597-52-3	Perfluorohexanesulfonic acid, Neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
N,N,N-Tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9	Perfluorohexanesulfonic acid, Yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
Tetraethylammonium perfluorohexane sulfonate	108427-55-0	Cesium perfluorohexanesulfonate (PFHxS-Cs)	92011-17-1
Tridecafluorohexane-1-sulfonic acid-pyrrolidine	1187817-57-7	Perfluorohexanesulfonic acid, Zinc salt (PFHxS-Zn)	70136-72-0
4-[[4-(Diethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-diethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-24-0	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, perfluorohexanesulfonate (1:1)	421555-74-0
4-[[4-(Dimethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-27-3	Tris(4-tert-butylphenyl)sulfanium tridecafluorohexane-1-sulfonate	425670-70-8
4-[[4-(Dimethylamino)phenyl][4-(phenylamino)naphthalen-1-yl]methylidene]-	1310480-28-4	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0

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N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate			
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-45-0	Triethylammonium perfluorohexane sulfonate	72033-41-1
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-69-8	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with perfluorohexanesulfonic acid (1:1)	866621-50-3
Triphenylsulfonium tridecafluorohexane-1-sulfonate (TPS-PFHxS)	144116-10-9	(4-Methylphenyl)diphenylsulfonium tridecafluorohexane-1-sulfonate	910606-39-2
1-(Carboxymethyl)-4-(2-[4-(2,2-diphenylethenyl)phenyl]-1H,2H,3H,3aH,4H,8bH-cyclopenta[b]indol-7-yl)ethenylquinolin-1-ium tridecafluorohexane-1-sulfonate	1462414-59-0	{4-[(2-Methylprop-2-enoyl)oxy]phenyl}diphenylsulfonium tridecafluorohexane-1-sulfonate	911027-68-4
Diphenyliodonium tridecafluorohexane-1-sulfonate	153443-35-7	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)	928049-42-7
Tetramethylammonium perfluorohexane sulfonate (PFHxS-TMA)	189274-31-5	Perfluorohexylsulfonfyl fluoride (PFHxS-F)	423-50-7
Tert-butylazanium;1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	202189-84-2	Perfluorohexylsulfonfyl chloride (PFHxS-Cl)	55591-23-6
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 <sup>3,7</sup> ]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 <sup>3,7</sup> ]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate	911027-69-5	Perfluorohexane sulfonate (anion)	108427-53-8
Tetrabutylphosphonium perfluorohexane sulfonate	2310194-12-6		
<b>PFHxA, its salts &amp; derivatives</b>			
Perfluorohexane Acid (PFHxA)	307-24-4	Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
Ammonium perfluorohexanoate (APFHx)	21615-47-4	Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2
Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	Perfluorohexanoic anhydride	308-13-4
Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	Perfluorohexanoate (anion)	92612-52-7
<b>PFBA, its salts</b>			
Perfluorobutane Acid (PFBA)	375-22-4	Silver perfluorobutanoate (PFBA-Ag)	3794-64-7
Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	Lithium perfluorobutanoate (PFBA-Li)	4146-76-3
Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	Butanoic acid, heptafluoro-, compd. with piperazine (2:1) (9Cl)	375-04-2
Ammonium perfluorobutanoate (PFBA-NH <sub>4</sub> )	10495-86-0	Perfluorobutanoate (anion)	45048-62-2
<b>PFBS, its salts &amp; derivatives</b>			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0
Potassium perfluorobutanesulfonate (PFBS-K)	29420-49-3	Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	867373-18-0
Perfluorobutane sulfonic acid hydrate (PFBS-H <sub>2</sub> O)	59933-66-3	Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7
Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0

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Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	1001557-05-6
Ammonium perfluorobutanesulfonate (PFBS-NH <sub>4</sub> )	68259-10-9	2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	374571-81-0
Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	857285-80-4
Triphenylsulfonium perfluorobutanesulfonate (TPS-PFBS)	144317-44-2	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	124472-66-8
Tetrabutyl-phosphonium perfluorobutanesulfonate	220689-12-3	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1)	502457-69-4
N,N,N-Triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate	25628-08-4	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	56773-55-8
N-Morpholinium perfluorobutanesulfonate	503155-89-3	Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH <sub>3</sub> ) <sub>4</sub> )	25628-17-5
Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanefluoride	194999-85-4	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4
1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-18-2	Perfluorobutane sulfonate (anion)	45187-15-3
Perfluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4
Perfluorobutanesulfonyl chloride (PFBS-Cl)	2991-84-6	Triethylammonium perfluorobutane sulfonate	182059-38-7
Sulfonium, dimethylphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	220133-51-7	N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanefluoride (1:1)	334529-55-4
Thiophenium, 1-(4-butoxy-1-naphthalenyl)tetrahydro-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	209482-18-8	1-Hexadecylpyridinium perfluoro-1-butanefluoride	334529-62-3
1-Butanaminium, N,N,N-tributyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1) Tetrabutylammonium nonafluorobutanesulfonate	108427-52-7	1-Butylpyridinium perfluoro-1-butanefluoride	334529-64-5
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	194999-82-1	N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanefluoride	495417-51-1
Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	241806-75-7	Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanefluoride (1:1)	722538-68-3
<b>PFPeA, its salts</b>			
Perfluoropentane Acid (PFPeA)	2706-90-3	Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3
Sodium perfluoropentanoate (PFPeA-Na)	2706-89-0	Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4
Potassium perfluoropentanoate (PFPeA-K)	336-23-2	Perfluoropentanoate	45167-47-3
Ammonium perfluoropentanoate (PFPeA-NH <sub>4</sub> )	68259-11-0		
<b>PFHpA, its salts</b>			
Perfluoroheptane Acid (PFHpA)	375-85-9	Caesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6
Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5
Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1
Ammonium perfluoroheptanoate (PFHpA-NH <sub>4</sub> )	6130-43-4	Perfluoroheptanoate (anion)	120885-29-2
<b>PFHpS, its salts</b>			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9
Sodium perfluoroheptanesulfonate (PFHpS-Na)	21934-50-9	Perfluoroheptane sulfonate	146689-46-5
Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	Triethylammonium perfluoroheptane sulfonate	72033-40-0
Ammonium perfluoroheptanesulfonate (PFHpS-NH <sub>4</sub> )	68259-07-4	Tetraethylammonium perfluoroheptane sulfonate	439863-97-5
Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9		
<b>HFPO-DA, its salts &amp; derivatives &amp; isomers</b>			

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2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HFPO-DA)	13252-13-6	Perfluoro(2-propoxypropanoate)	122499-17-6
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)- (isomer)	75579-39-4	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)- (isomer)	75579-40-7	Triethylammonium perfluoro-2-propoxypropanoate	165951-18-8
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, ammonium salt (HFPO-DA-NH <sub>4</sub> )	62037-80-3	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8
Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate (HFPO-DA-K)	67118-55-2	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionyl fluoride (HFPO-DA-F)	2062-98-8
Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1		
<b>PFPeS, its salts</b>			
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1
Sodium perfluoropentanesulfonate (PFPeS-Na)	630402-22-1	Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6
Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	Perfluoropentane sulfonate anion)	175905-36-9
Ammonium perfluoropentanesulfonate (PFPeS-NH <sub>4</sub> )	68259-09-6	Triethylammonium perfluoropentane sulfonate	72033-42-2
<b>PFNS, its salts</b>			
Perfluorononane sulfonic acid (PFNS)	68259-12-1	Ammonium nonadecafluorononanesulphonate (PFNS-NH <sub>4</sub> )	17202-41-4
Sodium perfluorononanesulfonate (PFNS-Na)	98789-57-2	Perfluorononane sulfonate (anion)	474511-07-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5		
<b>PFUnDS, its salts</b>			
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	Perfluoroundecanesulfonate (anion)	441296-91-9
<b>PFDODS, its salts</b>			
Perfluorododecane sulfonic acid (PFDODS)	79780-39-5	Sodium perfluorododecanesulfonate (PFDODS-K)	85187-17-3
Sodium perfluorododecanesulfonate (PFDODS-Na)	1260224-54-1	Perfluorododecane sulfonate (anion)	343629-43-6
<b>PFTrDS, its salts</b>			
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	Sodium perfluorotridecanesulfonate (PFTrDS-Na)	174675-49-1
<b>8:2 diPAP, its salts</b>			
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2 diPAP)	678-41-1	Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt	93776-20-6
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6	8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1		
<b>8:2 FTS, its salts</b>			
1H,1H,2H,2H-Perfluorododecanesulfonic acid (8:2 FTS)	39108-34-4	Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1
Potassium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-K)	438237-73-1	Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH <sub>4</sub> )	149724-40-3
<b>PFOSA, its salts</b>			
Perfluorooctane sulfonamide (PFOSA)	754-91-6	Perfluorooctanesulfonamide Potassium salt (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	Perfluorooctanesulfonamide Ammonium salt (PFOSA-NH <sub>4</sub> )	76752-72-2
Perfluorooctanesulfonamide Sodium salt (PFOSA-Na)	76752-78-8		

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PFTrDA, its salts			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	Perfluorotridecanoate (anion)	862374-87-6
Ammonium perfluorotridecanoate (PFTrDA-NH <sub>4</sub> )	4288-72-6		
PFTDA, its salts			
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	Perfluorotetradecanoate (anion)	365971-87-5
11H-PFUnDA, its salts			
11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH <sub>4</sub> )	5081-02-7
Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-K)	307-71-1		
HPFHpA, its salts			
7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH <sub>4</sub> )	376-34-1
Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7		
6:2 FTS, its salts			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	6:2 Fluorotelomer sulfonate ammonium salt (6:2 FTS-NH <sub>4</sub> )	59587-39-2
6:2 Fluorotelomer sulfonate sodium salt (6:2 FTS-Na)	27619-94-9	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6
6:2 Fluorotelomer sulfonate potassium salt (6:2 FTS-K)	59587-38-1		
4:2 FTS, its salts			
1H, 1H, 2H, 2H-Perfluorohexanesulfonic Acid (4:2 FTS)	757124-72-4	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt (4:2 FTS-Na)	27619-93-8
ADONA, its salts			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3
Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH <sub>4</sub> )	958445-44-8		
9CI-PF3ONS, its salts			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate	1383434-28-3
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	73606-19-6		
11CI-PF3OUdS, its salts			
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	763051-92-9	Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate	83329-89-9
PFPrA, its salts			
Pentafluoropropionic acid (PFPrA)	422-64-0	Potassium pentafluoropropionate (PFPrA-K)	378-76-7
Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	Ammonium pentafluoropropionate (PFPrA-NH <sub>4</sub> )	2730-58-7
Silver pentafluoropropionate (PFPrA-Ag)	509-09-1		
HFPO-TA, its salts & derivatives			
Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH <sub>4</sub> )	13043-05-5
Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K)	67118-57-4	Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1
Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2		
EtFHxSAA, its salts			

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Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]- (EtFHxSAA)	68957-32-4	Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4
Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6		
<b>10:2 FTS, its salts</b>			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	1H,1H,2H,2H-Perfluorododecane sulfonic acid sodium salt (10:2 FTS-Na)	108026-35-3

\*\*\*End of Report\*\*\*

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