Test Report (PFAS)

No.: SHAEC26035574101 **Date:** Nov 12, 2026

Client Name: Langfang Qili Technology Co., Ltd.

Client Address: Room 301 , Building2, North of Yaohua Road, East of Huaxiang Roa, Langfang Development Zone, Langfang, Hebei,CHINA

Sample Name: Sodium polyacrylate

Client Ref. Information: POLYMER HYDROGEL WATER ENHANCER

Main Substance: Sodium polyacrylate

Manufacturer: Langfang Qili Technology Co., Ltd.

Origin of the Product(s): langfang Hebei China

The above sample(s) and information were provided by the client.

SGS Job No.: TICRSTS261104100432FBM4

Sample Receiving Date: Nov 06, 2026

Testing Period: Nov 06, 2026 ~ Nov 12, 2026

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Summary:

750 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Dora Hu
Approved Signatory

Scan to see the report

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Test Sample:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA26-0355741-0001.C001	White powder

750 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method:
Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS and GC-MS or GC-MS/MS.

Test Results: (Substances in the PFAS list)

Substance Name	CAS No.	A1 Concentration (mg/kg)	MDL (mg/kg)
All tested PFAS in list	-	ND	-

Notes:
(1) The table above only shows detected PFAS, and PFAS that below MDL are not reported. Please refer to Appendix for the full list of tested PFAS.
(2) MDL = Method Detection Limit, ND = Not detected (lower than MDL).
(3) The target PFAS is prohibited, and this test requirement is quoted from the client. If PFAS is detected, it is recommended to refer to relevant regulations to confirm the relevant requirements of PFAS.
(4) ^=Substances refer to its salts/derivative listed in Appendix.
(5) The conclusion is only applicable to the substance list in the report.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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(1) List of 750 PFAS, its salts & derivatives

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
1	PFOS, its salts & derivatives	Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.010
2		Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3	--
3		Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5	--
4		Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0	--
5		Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9	--
6		Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8	--
7		Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3	--
8		N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8	--
9		TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7	--
10		Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7	--
11		Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4	--
12		Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	--
13		Perfluorooctanesulfonate	45298-90-6	--
14		Triethylammonium perfluorooctane sulfonate (PFOS-$NH(C_2H_5)_3$)	54439-46-2	--
15		Tetramethylammonium perfluorooctane sulfonate (PFOS-$N(CH_3)_4$)	56773-44-5	--
16		N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9	--
17		N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0	--
18		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8	--
19		Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0	--
20		1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4	--
21		N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4	--
22		Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P ($C_4H_9)_4$))	2185049-59-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
23		Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7	--
24		heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3	--
25		Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7	--
26		Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9	--
27	FOSAA, its salts	Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
28		N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	--
29		N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	--
30		N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	--
31	N-MeFOSAA, its salts	N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.010
32		2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	--
33		Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	--
34		Cyclo-hexachloro (N-methyl- (N-(perfluorooctylsulphonyl) glycinato-O1:O1')) dihydroxytrichromium	97298-47-0	--
35	N-EtFOSAA, its salts	N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
36		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	--
37		2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	--
38		Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH_4)	2991-52-8	--
39		Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	--
40		Diaquatetrachloro[mu-[N-ethyl-N-[(perfluorooctyl) sulfonyl]glycinato-O1:O1']]-mu-hydroxybis[2-methylpropanol]dichromium	68891-96-3	--
41	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.010
42	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.010
43	--	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
44	--	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.010
45	PFOSA, its salts	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.010
46		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	--
47		Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	--
48		Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	--
49		Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2	--
50		Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$)	76752-82-4	--
51	PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.010
52		Sodium perfluorooctanoate (PFOA-Na)	335-95-5	--
53		Potassium perfluorooctanoate (PFOA-K)	2395-00-8	--
54		Silver perfluorooctanoate (PFOA-Ag)	335-93-3	--
55		Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	--
56		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	--
57		Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	--
58		Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	--
59		Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	--
60		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6	--
61		Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH($C_4H_{10}N$))	423-52-9	--
62		Pentadecafluorooctanoate (anion)	45285-51-6	--
63		Perfluorooctanoic Anhydride	33496-48-9	--
64		N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9	--
65		Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7	--
66		Tetrapropylammonium perfluorooctanoate	277749-00-5	--
67		Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H_2O)$_2$)	98065-31-7	--
68		Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6	--
69		Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C_5H_5N)	95658-47-2	--
70		pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
71		N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-$C_{11}H_{26}N$)	927835-01-6	--
72		Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8	--
73		Perfluorooctanoyl Bromide (PFOA-Br)	222037-87-8	--
74	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
75		Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1	--
76		Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH_4)	149724-40-3	--
77		Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1	--
78		2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7	--
79		2-(Perfluorooctyl)ethanesulfonyl chloride (8:2 FTS-Cl)	27619-90-5	--
80	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.200
81	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.200
82	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	0.100
83	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	0.100
84	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.200
85	8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5	0.010
86		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C_4H_9)$_4$)	882489-14-7	--
87	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
88	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	0.100
89	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC_2H_5)$_3$)	101947-16-4	0.100
90	8:2diPAP, its salts	Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2diPAP)	678-41-1	0.010
91		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
92		Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	--
93		Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH_4)	93776-20-6	--
94		8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1	--
95	8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
96		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
97		2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	--
98	--	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	0.100
99	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
100	--	1H,1H,2H,2H-Perfluorodecyltrichlorosilane	78560-44-8	0.100
101	--	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	83048-65-1	
102	--	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.010
103	6:8 PFPi, its salts	6:8 Perfluorophosphinic acid (6:8 PFPi)	610800-34-5	0.010
104		Sodium perfluorohexylperfluorooctylphosphinate (6:8 PFPi-Na)	2361298-14-6	--
105	8:8 PFPi, its salts	8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	0.010
106		Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPi-Na)	500776-69-2	--
107		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5	--
108		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6	--
109	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	0.100
110	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
111		8:2 Fluorotelomer diammonium phosphate	93857-44-4	-
112		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	-
113		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	-
114		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	-
115		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	-
116		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	-
117		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	-
118	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
119		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
120		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH_4)	4149-60-4	--
121		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
122		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
123		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
124		Methanaminium perfluorononanoate (PFNA-$NH_3(CH_3)$)	77032-23-6	--
125		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-$NH_2(C_2H_5)_2$)	77032-27-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
126		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-$NH_2(CH_3)_2$)	77032-24-7	--
127		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-$NH(C_2H_5)_3$)	327176-80-7	--
128		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-$NH_2(C_5H_{10})$)	95682-66-9	--
129		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-$NH_3(C_6H_5)$)	95682-67-0	--
130		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-$NH_3(C_6H_{11})$)	328531-06-2	--
131		Perfluorononanoate (anion)	72007-68-2	--
132		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-$C_{11}H_{12}N_4O_3S$)	298703-33-0	--
133		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
134		Perfluorononanoyl chloride (PFNA-Cl)	52447-23-1	--
135		Perfluorononanoyl fluoride (PFNA-F)	558-95-2	--
136		Heptadecafluorononanoyl Bromide (PFNA-Br)	261503-42-8	--
137	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
138		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
139		Perfluorodecanoate ammonium salt (PFDA-NH_4)	3108-42-7	--
140		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
141		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
142		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
143		Perfluorodecanoate (anion)	73829-36-4	--
144		Perfluorodecanoic anhydride (PFDAA)	942199-24-8	--
145		Nonadecafluorodecanoyl chloride (PFDA-Cl)	307-38-0	--
146		Nonadecafluorodecanoyl Fluoride (PFDA-F)	--	--
147	PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010
148		Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
149		Ammonium perfluoroundecanoate (PFUnDA-NH_4)	4234-23-5	--
150		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
151		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
152		Perfluoroundecanoate (anion)	196859-54-8	--
153	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
154		Ammonium tricosafluorododecanoate (PFDoDA-NH_4)	3793-74-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
155		Perfluorododecanoate (anion)	171978-95-3	--
156		Sodium perfluoro-n-dodecanoic acid (PFDoDA-Na)	307-67-5	--
157	PFTrDA, its salts	Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.010
158		Ammonium perfluorotridecanoate (PFTrDA-NH_4)	4288-72-6	--
159		Sodium perfluorotridecanoate (PFTrDA-Na)	60872-01-7	--
160		Perfluorotridecanoate (anion)	862374-87-6	--
161	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
162		Perfluorotetradecanoate (anion)	365971-87-5	--
163	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
164	PFDS, its salts	Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010
165		Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
166		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--
167		Ammonium perfluorodecanesulfonate (PFDS-NH_4)	67906-42-7	--
168		Perfluorodecane sulfonate (anion)	126105-34-8	--
169		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
170		Perfluorodecanesulphonyl fluoride (PFDS-F)	307-51-7	--
171		Perfluorodecanesulphonyl chloride (PFDS-Cl)	32779-61-6	--
172	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
173	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.100
174	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.100
175	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
176	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.100
177		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
178		2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6	--
179	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	0.100
180	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.100
181	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
182		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
183		ammonium nonadecafluorononanesulphonate (PFNS-NH_4)	17202-41-4	--
184		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
185		Perfluorononane sulfonate (anion)	474511-07-4	--
186		Perfluorononanesulfonyl fluoride (PFNS-F)	68259-06-3	--
187	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
188		Perfluoroundecanesulfonate (anion)	441296-91-9	--
189	PFDoDS, its salts	Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	0.010
190		Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1	--
191		Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3	--
192		Perfluorododecane sulfonate (anion)	343629-43-6	--
193	PFTrDS, its salts	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.010
194		Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	--
195	10:2 diPAP, its salts	10:2 Fluorotelomer phosphate diester (10:2 diPAP)	1895-26-7	0.100
196		Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-$C_4H_{11}O_2$)	57677-98-2	--
197	--	Perfluorodecyl iodide (PFDI)	423-62-1	0.100
198	--	Perfluorododecyl iodide (PFDoDI)	307-60-8	0.100
199	--	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.010
200	--	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.010
201	--	1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)	37858-05-2	0.100
202	PFHxS, its salts & derivatives	Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.010
203		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--
204		Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
205		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, lithium salt (1:1) (PFHxS-Li)	55120-77-9	--
206		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH_4)	68259-08-5	--
207		Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	1000597-52-3	--
208		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C_4H_9)$_4$)	108427-54-9	--
209		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C_2H_5)$_4$)	108427-55-0	--
210		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC_4H_9)	1187817-57-7	--
211		Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-,	1310480-24-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
		1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (Calculated in terms of PFHxS) (PFHxS-$(NC_{10}H_{14})_3C_5H_4$)		
212		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$(NC_8H_{10})_2C_{13}H_{12}$)	1310480-27-3	--
213		Methanaminium, N-[4-[[4-(dimethylamino)phenyl][4-(phenylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$(NC_8H_{10})_2C_{17}H_{12}$)	1310480-28-4	--
214		Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1) (PFHxS-$C_{42}H_{70}O_{35}$)	1329995-45-0	--
215		Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid ion(1-)(1:1)(PFHxS-$C_{48}H_{80}O_{40}$)	1329995-69-8	--
216		Sulfonium, triphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (TPS-PFHxS)	144116-10-9	--
217		Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$C_{44}H_{37}N_2O_2$)	1462414-59-0	--
218		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$I(C_6H_5)_2$)	153443-35-7	--
219		Methanaminium, N,N,N-trimethyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (PFHxS-TMA)	189274-31-5	--
220		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd.with 2-methyl-2-propanamine (1:1)(PFHxS-$NH_2(CH_3)_3$)	202189-84-2	--
221		Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-$I(C_6H_4)_2(C_4H_9)_2$)	213740-81-9	--
222		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga)	341035-71-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
223		Sulfonium, bis(4-methylphenyl)phenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C_7H_7)$_2$$C_6H_5$)	341548-85-4	--
224		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1)(PFHxS-Sc)	350836-93-0	--
225		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1)(PFHxS-Nd)	41184-65-0	--
226		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1)(PFHxS-Y)	41242-12-0	--
227		Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:2)(PFHxS-S_3(C_6H_5)$_4$(C_6H_4)$_2$)	421555-73-9	--
228		Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I (C_6H_4)$_2$(C_5H_{11})	421555-74-0	--
229		Perfluorohexanesulphonyl fluoride (PFHxS-F)	423-50-7	--
230		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C_6H_4)$_3$(C_4H_9)$_3$)	425670-70-8	--
231		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
232		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C_2H_5O)$_2$)	70225-16-0	--
233		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)(PFHxS-N(C_2H_5)$_3$)	72033-41-1	--
234		Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9CI) (PFHxS-I(C_6H_4)$_2$(C_4H_9)$_2$)	866621-50-3	--
235		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C_6H_5)$_2$$C_7H_7$)	910606-39-2	--
236		Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C_6H_5)$_2$$C_{10}H_9O_2$)	911027-68-4	--
237		1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs)	92011-17-1	--
238		Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-,	928049-42-7	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
		1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-$SC_{28}H_{31}O_4$)		
239		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
240		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[3.3.1.13,7]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer)	911027-69-5	--
241		Perfluorohexane sulfonate (anion)	108427-53-8	--
242		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P ($C_4H_9)_4$))	2310194-12-6	--
243	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
244	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
245	--	N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
246	--	2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200
247	--	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	67584-61-6	0.200
248	--	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	67906-70-1	0.200
249	--	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	0.010
250	EtFHxSAA, its salts	Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl] (EtFHxSAA)	68957-32-4	0.010
251		Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
252		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
253	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
254		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
255		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
256		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
257		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
258		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
259		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
260		Perfluorohexanoic anhydride	308-13-4	--
261		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8CI,9CI)	423-47-2	--
262		Perfluorohexanoate (anion)	92612-52-7	--
263		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
264		Perfluorohexanoyl bromide (PFHxA-Br)	1404193-66-3	--
265		Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-$C_6H_{15}N$)	565225-91-4	--
266		1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-$C_{10}H_{14}N_2$)	985-60-4	--
267	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
268	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
269	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.200
270	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
271		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
272		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
273		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH_4)	59587-39-2	--
274		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	--
275		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
276		2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	--
277		2-(Perfluorohexyl)ethanesulfonyl fluoride (6:2 FTS-F)	--	--
278	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC_2H_5)$_3$)	51851-37-7	0.500
279	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
280	--	1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH_3)$_3$)	85857-16-5	
281	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
282	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
283	--	N-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide n-oxide	80475-32-7	0.100

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
284	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
285	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
286		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH_4NH_4)	1000852-37-8	--
287		Disodium- 6:2 Fluorotelomer phosphate (6:2 monoPAPs-Na_2)	150033-29-7	--
288	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
289	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
290	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe$_2$Cl)	102488-47-1	0.200
291	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
292	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200
293	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
294		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP$_2$OH-Na(PFHXPA-Na))	1189052-95-6	--
295	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH)	423-46-1	0.200
296	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
297	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
298	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
299	--	1-(perfluorohexyl)octane (F_6H_8)	133331-77-8	0.200
300	--	1H,1H-Tridecafluoroheptylamine (6:1 FTNH$_2$)	423-49-4	0.200
301	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
302	6:6 PFPi, its salts	6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	0.010
303		Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPi-Na)	70609-44-8	--
304		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7	--
305		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8	--
306	PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4	0.010
307		Ammonium perfluorobutanoate (PFBA-NH_4)	10495-86-0	--
308		Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	--
309		Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	--
310		Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	--
311		Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
312		Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	--
313		Perfluorobutanoate (anion)	45048-62-2	--
314		4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1) (PFBA-$C_6H_4ClF_6N_2P$)	--	--
315		Heptafluorobutanoic acid-1-phenylpiperazine (1:1) (PFBA-$C_{10}H_{14}N_2$)	2263-11-8	--
316		Perfluorobutanoic anhydride (PFBAA)	336-59-4	--
317		Heptafluorobutanoic acid calcium salt (PFBA-Ca)	2366-98-5	--
318		Rhodium(II) perfluorobutyrate dimer (PFBA-Rh)	73755-28-9	--
319		Perfluorobutyryl chloride (PFBA-Cl)	375-16-6	--
320		Perfluorobutanoyl fluoride (PFBA-F)	335-42-2	--
321		Heptafluorobutanoyl Bromide (PFBA-Br)	375-13-3	--
322		4-Chlorobenzenediazonium perfluorobutanoate perfluorobutanoic acid (1:1:1)	--	--
323		N5-(5-Hydroxy-4,6-dimethylpyrimidin-2-yl)-L-ornithine- heptafluorobutanoic acid (1/2)	936233-19-1	--
324	PFBS, its salts & derivatives	Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.010
325		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
326		Perfluorobutanesulfonic Acid Hydrate (PFBS-H_2O)	59933-66-3	--
327		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--
328		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
329		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S$(CH_3)_2C_6H_5$)	220133-51-7	--
330		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P$(C_4H_9)_4$)	220689-12-3	--
331		N,N,N,-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N$(C_2H_5)_4$)	25628-08-4	--
332		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
333		Morpholinium perfluorobutanesulfonate (PFBS-NC_4H_9O)	503155-89-3	--
334		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
335		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH_4)	68259-10-9	--
336		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-$SC_{18}H_{23}O$)	209482-18-8	--
337		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
338		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
339		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I$(C_6H_4)_2(C_4H_9)_2$)	194999-85-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
340		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH($C_2H_5O)_2$)	70225-18-2	--
341		Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N($C_4H_9)_4$))	108427-52-7	--
342		Diphenyliodanium nonafluorobutane-1-sulfonate((PFBS-I($C_6H_5)_2$))	194999-82-1	--
343		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	241806-75-7	--
344		Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0	--
345		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	--
346		Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7	--
347		1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0	--
348		1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1001557-05-6	--
349		2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	374571-81-0	--
350		Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	857285-80-4	--
351		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8	--
352		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
353		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	56773-55-8	--
354		Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N($CH_3)_4$)	25628-17-5	--
355		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	
356		Perfluorobutane sulfonate (anion)	45187-15-3	--
357		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
358		Triethylammonium perfluorobutane sulfonate	182059-38-7	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
359		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1)	334529-55-4	--
360		1-Hexadecylpyridinium perfluoro-1-butanesulfonate	334529-62-3	--
361		1-Butylpyridinium perfluoro-1-butanesulfonate	334529-64-5	--
362		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate	495417-51-1	--
363		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1)	722538-68-3	--
364		N-Ethyl-N-methyl-N-propylammonium perfluorobutanesulfonate	1186599-90-5	--
365		[4-(2-Methylpropyl)phenyl]-diphenylsulfanium;1,1,2,2,3,3,4, 4,4-nonafluorobutane-1-sulfonate	1375211-36-1	--
366		Diphenyl 4-tertbutylphenylsulfonium nonafluorobutanesulfonate	258872-05-8	--
367		Diphenyl(4-methylphenyl)sulfonium nonafluorobutanesulfonate	284474-28-8	--
368		Trimethylsilyl nonafluorobutanesulfonate	68734-62-3	--
369	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
370		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
371		Potassium perfluoropentanoate (PFPeA-K)	336-23-2	--
372		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
373		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
374		Ammonium perfluoropentanoate(PFPeA-NH_4)	68259-11-0	--
375		Perfluoropentanoate (anion)	45167-47-3	--
376		Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-$C_8H_{10}N_2S$)	64808-55-5	--
377		Perfluoropentanoic anhydride (PFPeAA)	308-28-1	--
378		Perfluoropentanoyl chloride (PFPeA-Cl)	375-60-0	--
379		Perfluoropentanoyl fluoride (PFPeA-F)	375-62-2	--
380		Nonafluoropentanoyl bromide (PFPeA-Br)	159623-35-5	--
381	HPFHpA, its salts	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
382		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
383		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH_4)	376-34-1	--
384		7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
385		Potassium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-K)	--	--
386		Lithium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Li)	--	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
387		7H-Perfluoroheptanoyl chloride (HPFHpA-Cl)	41405-35-0	--
388		7H-Perfluoroheptanoyl fluoride (HPFHpA-F)	5927-65-1	--
389		7H-Perfluoroheptanoyl bromide (HPFHpA-Br)	141893-84-7	--
390	PFHpS, its salts	Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
391		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
392		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
393		Ammonium perfluoroheptanesulfonate (PFHpS-NH_4)	68259-07-4	--
394		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
395		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	--
396		Perfluoroheptane sulfonate (anion)	146689-46-5	--
397		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
398		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--
399		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
400		Perfluoroheptanesulfonyl fluoride (PFHpS-F)	335-71-7	--
401		Perfluoroheptanesulfonyl chloride(PFHpS-Cl)	33018-82-5	--
402	PFHpA, its salts	Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
403		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
404		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
405		Ammonium perfluoroheptanoate (PFHpA-NH_4)	6130-43-4	--
406		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--
407		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
408		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
409		Perfluoroheptanoate (anion)	120885-29-2	--
410		Perfluoroheptanoic anhydride (PFHpAA)	78225-99-7	--
411		Perfluoroheptanoyl chloride (PFHpA-Cl)	52447-22-0	--
412		Perfluoroheptanoyl fluoride (PFHpA-F)	375-84-8	--
413	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010
414		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH_4)	62037-80-3	--
415		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--
416		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
417		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-	75579-39-4	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
418		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-	75579-40-7	--
419		Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1	--
420		Perfluoro(2-propoxypropanoate)	122499-17-6	--
421		2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	--
422		Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	--
423		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	--
424		2,3,6-Triiodobenzoic acid (1-methyl-3-piperidinyl)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-$C_{14}H_{16}I_3NO_2$)	2412106-69-3	--
425	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
426		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--
427		4:2 Fluorotelomer sulfonate (4:2 FTS(anion))	414911-30-1	--
428	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
429		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
430		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
431		Ammonium perfluoropentanesulfonate (PFPeS-NH_4)	68259-09-6	--
432		Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	--
433		Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	--
434		Perfluoropentane sulfonate (anion)	175905-36-9	--
435		Triethylammonium perfluoropentane sulfonate	72033-42-2	--
436		Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	--
437	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010
438	5:3 FTCA, its salts	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010
439		2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	--
440	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
441		Hentriacontafluorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
442	--	Perfluoroheptadecanoic acid (PFHpDA)	57475-95-3	0.010
443		Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
444	PFODA, its salts	Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
445		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-pentatriacontafluorooctadecanoate	--	--
446		Sodium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-pentatriacontafluorooctadecanoate	--	--
447		Lithium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-pentatriacontafluorooctadecanoate	--	--
448	--	Perfluorononadecanoic acid (PFNDA)	133921-38-7	0.010
449	--	Eicosanoic acid, nonatriacontafluoro (C_{20} PFCA)	68310-12-3	0.010
450	--	Perfluoroheneicosanoic acid (C_{21} PFCA)	2920913-30-8	0.010
451	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
452	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
453		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH_4)	958445-44-8	--
454		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
455		Potassium 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA-K)	1087271-46-2	--
456		2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA (anion))	2127366-90-7	--
457	PFMPA, its salts	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
458		Perfluoro-3-methoxypropanoic anhydride (PFMPAA)	42566-65-4	--
459	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
460	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
461	9Cl-PF_3ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF_3ONS)	756426-58-1	0.010
462		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF_3ONS-K)	73606-19-6	--
463		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF_3ONS-NH_4)	1383434-28-3	--
464		Perfluoro(2-((6-chlorohexyl)oxy)ethanesulfonate) (9Cl-PF_3ONS(anion))	1621485-21-9	--
465		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF_3OUdS)	763051-92-9	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
466	11Cl-PF_3OUdS, its salts	Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF_3OUdS-K)	83329-89-9	--
467		2-[(8-Chloro-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-hexadecafluorooctyl)oxy]-1,1,2,2-tetrafluoroethanesulfonate (11Cl-PF_3OUdS (anion))	2196242-82-5	--
468	PFEESA, its salts	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.010
469		Potassium perfluoro(2-ethoxyethane) sulfonate (PFEESA-K)	117205-07-9	--
470		Sodium perfluoro(2-ethoxyethane) sulfonate (PFEESA-Na)	113507-87-2	--
471	3:3 FTCA, its salts	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
472		4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion))	1169706-83-5	--
473		Sodium 3-(perfluoropropyl)propanoate (3:3 FTCA-Na)	1207462-13-2	--
474	PFPeDA, its salts	Pentadecanoic acid, nonacosafluoro (PFPeDA)	141074-63-7	0.010
475		Nonacosafluoropentadecanoate (PFPeDA(anion))	1214264-29-5	--
476	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
477	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.200
478	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.200
479	PFBSA, its salts	Perfluorobutane sulfonamides (PFBSA)	30334-69-1	0.100
480		Nonafluorobutanesulfonamide ammonia salt (FBSA-NH4)	131003-86-6	--
481		Potassium (perfluorobutanesulfonyl)azanide (FBSA-K)	289042-19-9	--
482	--	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC_3H_8O)	34454-97-2	0.010
483	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
484		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-K)	307-71-1	--
485		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafluoroundecanoate (11H-PFUnDA-NH_4)	5081-02-7	--
486		11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	--
487	PFPrA, its salts	Pentafluoropropionic acid (PFPrA)	422-64-0	0.100
488		Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	--
489		Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	--
490		Potassium pentafluoropropionate (PFPrA-K)	378-76-7	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
491		Ammonium pentafluoropropionate (PFPrA-NH_4)	2730-58-7	--
492		Perfluoropropanoate (PFPrA(anion))	44864-55-3	--
493		Pentafluoropropanoic acid-1-phenylpiperazine (1/1) (PFPrA-$C_{10}H_{14}N_2$)	893-87-8	--
494		Pentafluoropropanoic acid-piperazine (1/1) (PFPrA-$C_4H_{10}N_2$)	1690-94-4	--
495		Imidazole perfluoropropionic acid salt (PFPrA-$C_3H_4N_2$)	200705-90-4	--
496	HFPO-TA, its salts	Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	0.200
497		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	--
498		Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
499		Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH_4)	13043-05-5	--
500		Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1	--
501		Triethylaminium perfluoro-2-(2-propoxypropoxy)propanoate (HFPO-TA-$NH(C_2H_5)_3$)	165951-19-9	--
502		Methanaminium perfluoro-2-(2-propoxypropoxy)propanoate	328065-29-8	--
503		2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propanoic acid--N-methylmethanamine (1/1)	328065-54-9	--
504	PFEtS, its salts	Perfluoroethane sulfonic acid (PFEtS)	354-88-1	0.010
505		Pentafluoroethanesulfonate (PFEtS (anion))	108410-37-3	--
506		Potassium pentafluoroethane-1-sulfonate (PFEtS-K)	2837-92-5	--
507	6:2 diPAP, its salts	6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	0.010
508		Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0	--
509		Bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) phosphate ion(1-) (6:2 diPAP(Anion))	667465-18-1	--
510	TFSI, its salts	Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	0.010
511		1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4	--
512		Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	--
513		Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li)	90076-65-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
514		1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	--
515		Zinc(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Zn)	168106-25-0	--
516		Manganese(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Mn)	207861-55-0	--
517		Nickel bis(trifluoromethylsulfonyl)imide ($(TFSI)_2$-Ni)	207861-63-0	--
518		Copper(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Cu)	162715-14-2	--
519		(OC-6-11)-Tris(1,1,1-trifluoro-N-((trifluoromethyl)sulfonyl-kappaO) methanesulfonamidato-kappaO)iron ($(TFSI)_3$-Fe)	207861-59-4	--
520		Copper(II) trifluoromethanesulfonimide hydrate ($(TFSI)_2$-CuH_2O)	1334406-76-6	--
521		Silver Bis(trifluoromethanesulfonyl)imide (TFSI-Ag)	189114-61-2	--
522		Copper bis(trifluoromethylsulfonyl)imide (TFSI-Cu)	291300-50-0	--
523		Barium(II) Bis(trifluoromethanesulfonyl)imide ($(TFSI)_2$-Ba)	168106-22-7	--
524		Strontium bis(trifluoromethylsulfonyl)imide	862121-57-1	--
525		1-Methylimidazole Bis(trifluoromethanesulfonyl)imide	353239-08-4	--
526		1-Ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	174899-82-2	--
527		1,2-Dimethyl-3-propylimidazolium bis(trifluoromethylsulfonyl)imide	169051-76-7	--
528		Magnesium bis(trifluoromethylsulfonyl)imide (TFSI-Mg)	133395-16-1	--
529		1-Methyl-3-propylimidazolium Bis(trifluoromethanesulfonyl)imide	216299-72-8	--
530		1-Butyl-1-methylpiperidinium bis(trifluoromethylsulfonyl)imide	623580-02-9	--
531		1-Methyl-3-n-octylimidazolium Bis(trifluoromethanesulfonyl)imide	178631-04-4	--
532		Tris[bis(trifluoromethylsulfonyl)amino] ytterbium ($(TFSI)_3$-Yb)	175438-43-4	--
533		Butyltrimethylammonium bis(trifluoromethylsulfonyl)imide	258273-75-5	--
534		Cobalt bis(trifluoromethylsulfonyl)imide ($(TFSI)_2$-Co)	207861-61-8	--
535		Potassium Bis(trifluoromethanesulfonyl)imide (TFSI-K)	90076-67-8	--
536		1-Methyl-1-propylpiperidin-1-ium Bis((trifluoromethyl)sulfonyl)amide	608140-12-1	--
537		1-Ethyl-2,3-dimethylimidazolium Bis(trifluoromethanesulfonyl)imide	174899-90-2	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
538		1-Methyl-1-propylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-05-6	--
539		1,1,1-trifluoro-N-trifluoromethanesulfonyl-N-((N-trifluoromethanesulfonyltrifluoromethanesulfonamido)calcio)methanesulfonamide ($(TFSI)_2$-Ca)	165324-09-4	--
540		Choline bis(trifluoromethylsulfonyl)imide	827027-25-8	--
541		1-Dodecyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide	404001-48-5	--
542		1-Ethyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide	223436-99-5	--
543		Diethylmethylsulfonium bis(trifluoromethylsulfonyl)imide	792188-85-3	--
544		Bis(trifluoromethylsulfonyl)azanide;mercury(2+) ($(TFSI)_2$-Hg)	104715-41-5	--
545		Cerium(III) Bis(trifluoromethanesulfonyl)imide (TFSI-Ce)	1046099-39-1	--
546		Cadmium bis{bis[(trifluoromethyl)sulfonyl]azanide} (TFSI-Cd)	1263295-73-3	--
547		Bis(trifluoromethanesulfonyl)imide Lanthanum(III) Salt (TFSI-La)	168106-26-1	--
548		Scandium(III) bis(trifluoromethylsulfonyl)imide (TFSI-Sc)	176726-07-1	--
549		Yttrium(III) bis(trifluoromethanesulfonyl)imide (TFSI-Y)	189114-86-1	--
550		Vanadium tris(bis(trifluoromethanesulfon)imide) (TFSI-V)	207861-54-9	--
551		Iron(II) bis(trifluoromethanesulfonyl)imide (TFSI-Fe)	207861-57-2	--
552		Tin(II) bis(trifluoromethylsulfonyl)imide (TFSI-Sn)	460096-08-6	--
553		Cesium bis(trifluoromethanesulfonyl)imide (TFSI-Cs)	91742-16-4	--
554		Sodium bis(trifluoromethanesulfonyl)imide (TFSI-Na)	91742-21-1	--
555	10:2 monoPAP, its salts	10:2 Fluorotelomer phosphate monoester (10:2 monoPAP)	57678-05-4	0.100
556		10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5	--
557		3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10, 11,11,12.12,12-Henicosafluorododecyl dihydrogen phosphate cyclohexylamine	2514858-66-1	--
558	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.010
559	TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.010
560		Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	--
561		Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
562		Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	--
563		Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	--
564		Trifluoromethanesulfonic anhydride	358-23-6	--
565		Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	--
566		Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	--
567		Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	--
568		Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	--
569		Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	--
570		Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	--
571		Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	--
572		Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	--
573		Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	--
574		Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	--
575		Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	--
576		Tetrabutylammonium trifluoromethanesulfonate	35895-70-6	--
577		Methyltrioctylammonium trifluoromethanesulfonate	121107-18-4	--
578		Imidazole trifluoromethanesulfonate	29727-06-8	--
579		Trifluoroacetyl Trifluoromethanesulfonate	68602-57-3	--
580		Lanthanum(III) trifluoromethanesulfonate(TFMS-La)	52093-26-2	--
581		Indium(III) trifluoromethanesulfonate(TFMS-In)	128008-30-0	--
582		Samarium(III) trifluoromethanesulfonate(TFMS-Sm)	52093-28-4	--
583		Ytterbium(III) trifluoromethanesulfonate(TFMS-Yb)	54761-04-5	--
584		Thulium(III) trifluoromethanesulfonate(TFMS-Tm)	141478-68-4	--
585		Tetraethylammonium trifluoromethanesulfonate	35895-69-3	--
586		1-Fluoro-3,5-dichloropyridinium triflate	107264-06-2	--
587		Triethylamine salt of trifluoromethanesulfonic acid	646-58-2	--
588		Triphenylphosphonium anhydride triflate	72450-51-2	--
589		N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	--
590		Diphenylammonium Trifluoromethanesulfonate	164411-06-7	--
591		1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	--
592		Guanidine trifluoromethanesulfonic acid	153756-25-3	--
593		Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
594		Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9	--
595		O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	--
596		Trifluoromethanesulfonyl chloride	421-83-0	--
597		(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	--
598		Trifluoromethanesulfonyl bromide	15458-53-4	--
599		Mercury(II) trifluoromethanesulfonate(TFMS-Hg)	49540-00-3	--
600		Dysprosium(III) tris(trifluoromethanesulfonate)(TFMS-Dy)	139177-62-1	--
601		Manganese bis(trifluoromethanesulfonate)(TFMS-Mn)	55120-76-8	--
602		Pentaammine(trifluoromethanesulfonato)osmium(II) triflate	83781-30-0	--
603		Lutetium(III) trifluoromethanesulfonate(TFMS-Lu)	126857-69-0	--
604		Terbium(III) trifluoromethanesulfonate(TFMS-Tb)	148980-31-8	--
605		Neodymium(III) trifluoromethanesulfonate(TFMS-Nd)	34622-08-7	--
606		Ammonium trifluoromethanesulfonate(TFMS-NH_4)	38542-94-8	--
607		Holmium(III) trifluoromethanesulfonate(TFMS-Ho)	139177-63-2	--
608		Trifluoromethanesulfonate	37181-39-8	--
609		Praseodymium(III) trifluoromethanesulfonate(TFMS-Pr)	52093-27-3	--
610		Bismuth(III) trifluoromethanesulfonate(TFMS-Bi)	88189-03-1	--
611		Europium(III) trifluoromethanesulfonate(TFMS-Eu)	52093-25-1	--
612		Erbium(III) trifluoromethanesulfonate(TFMS-Er)	139177-64-3	--
613		Gallium(III) trifluoromethanesulfonate(TFMS-Ga)	74974-60-0	--
614		N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9	--
615		Methanesulfonic acid, trifluoro-, calcium salt(TFMS-Ca)	55120-75-7	--
616		Thallium(1+) trifluoromethanesulfonate(TFMS-Tl)	73491-36-8	--
617		Hafnium(IV) Trifluoromethanesulfonate(TFMS-Hf)	161337-67-3	--
618		1-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Pentadecafluorooctyl)pyridinium trifluoromethanesulfonate	25061-59-0	--
619		Tetrapropylammonium trifluoromethanesulphonate (TFMS- $N(C_3H_7)_4$)	35925-48-5	--
620		(Heptafluoropropyl)(phenyl)iodanium trifluoromethanesulfonate	77758-79-3	--
621		Phenyl(tridecafluorohexyl)iodanium trifluoromethanesulfonate	77758-84-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
622		(Heptadecafluorooctyl)(phenyl)iodanium trifluoromethanesulfonate	77758-89-5	--
623		(1,1,1,2,3,3,3-Heptafluoropropan-2-yl)(phenyl)iodanium trifluoromethanesulfonate	82959-18-0	--
624		Triethylmethylammonium triflate	90756-35-7	--
625		Pentafluoroanilinium trifluoromethanesulfonate	912823-79-1	--
626		Tributylmethylammonium trifluoromethanesulfonate	944557-37-3	--
627		1-Ethylpyridinium trifluoromethanesulfonate	3878-80-6	--
628		Lanthanum trifluoromethanesulfonate--water (1/3/1)	34629-21-5	--
629		Yttrium trifluoromethanesulfonate--water (1/3/1)	34629-25-9	--
630		Copper(2+) trifluoromethanesulfonate--benzene (1/2/1)	42152-46-5	--
631		Trifluoromethanesulfonic acid--water (1/1)	49789-04-0	--
632		Pyridinium trifluoromethanesulfonate	52193-54-1	--
633		2-Ethenyl-1-(prop-2-en-1-yl)thian-1-ium trifluoromethanesulfonate	66120-38-5	--
634		Tributyltin trifluoromethanesulfonate	68725-14-4	--
635		Morpholin-4-ium trifluoromethanesulfonate	77534-70-4	--
636		2-Chloro-1-methylpyridinium trifluoromethanesulphonate	84030-18-2	--
637		1-Fluoropyridinium triflate	107263-95-6	--
638		1,3-Dimethyl-1H-imidazol-3-ium trifluoromethanesulfonate	121091-30-3	--
639		1-Ethyl-3-methylimidazolium trifluoromethanesulfonate	145022-44-2	--
640		1-Butyl-3-methylimidazolium trifluoromethanesulfonate	174899-66-2	--
641		1-Ethyl-2,3-dimethylimidazolium trifluoromethanesulfonate	174899-72-0	--
642	PFPrS, its salts	Perfluoropropanesulfonic acid (PFPrS)	423-41-6	0.010
643		Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	--
644		perfluoropropane sulfonate	110676-15-8	--
645		Potassium heptafluoropropanesulfonate	40365-23-9	--
646	--	1-perfluoroheptyl ethanol (7:2 secondary) (7:2sFTOH)	24015-83-6	0.200
647	--	4:2 Fluorotelomer iodide (4:2 FTI)	2043-55-2	0.200
648	PFHpSi, its salts	Perfluoroheptane-1-sulfinic acid (PFHpSi)	769067-51-8	0.010
649		1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	--
650		Perfluorooctyl phosphoric acid (PFOPA)	40143-78-0	0.010

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
651	PFOPA, its salts	(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1)	1263361-03-0	--
652	--	1H,1H-Perfluorooctylamine (7:1 $FTNH_2$)	307-29-9	0.200
653	--	Perfluoroheptanamide ($PFHpA-NH_2$)	2358-22-7	0.100
654	--	Perfluorobutyramide ($PFBA-NH_2$)	662-50-0	0.200
655	--	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.200
656	--	N-methylperfluoro-1-butanesulfonamide (MeFBSA)	68298-12-4	0.010
657	--	N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE)	34455-03-3	0.010
658	TFA, its salts	Trifluoroacetic acid (TFA)	76-05-1	1.000
659		Sodium trifluoroacetate (TFA-Na)	2923-18-4	--
660		Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0	--
661		Lithium Trifluoroacetate (TFA-Li)	2923-17-3	--
662		Silver trifluoroacetate (TFA-Ag)	2966-50-9	--
663		Cesium Trifluoroacetate (TFA-Cs)	21907-50-6	--
664		Potassium trifluoroacetate (TFA-K)	2923-16-2	--
665		Ammoniumtrifluoroacetate ($TFA-NH_4$)	3336-58-1	--
666		Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7	--
667		Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6	--
668		Trifluoroacetate / Trifluoroacetic acid anion(TFA anion)	14477-72-6	--
669		Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate	57738-66-6	--
670		Aluminium tris(trifluoroacetate)(TFA-Al)	36554-89-9	--
671		Barium bis(trifluoroacetate)(TFA-Ba)	60884-92-6	--
672		Erbium tris(trifluoroacetate)(TFA-Er)	70236-99-6	--
673		Indium trifluoroacetate(TFA-In)	36554-90-2	--
674		Lanthanum tris(trifluoroacetate)(TFA-La)	70236-92-9	--
675		Nickel(2+) trifluoroacetate(TFA-Ni)	16083-14-0	--
676		Lead(II) trifluoroacetate(TFA-Pb)	4146-73-0	--
677		Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh)	72654-51-4	--
678		Thulium tris(trifluoroacetate)(TFA-Tm)	70237-00-2	--
679		Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb)	87863-62-5	--
680		Zinc bis(trifluoroacetate)(TFA-Zn)	21907-47-1	--
681		Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru)	61612-84-8	--
682		Magnesium 2,2,2-trifluoroacetate(TFA-Mg)	123333-72-2	--
683		Copper(2+) trifluoroacetate(TFA-Cu)	123333-88-0	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
684		Methyltrioctylammonium trifluoroacetate	121107-16-2	--
685		Chromium(3+) tris(trifluoroacetate)(TFA-Cr)	16712-29-1	--
686		Tetraethylammonium trifluoroacetate(TFA-$N(C_2H_5)_4$)	30093-29-9	--
687		Tetrabutylammonium trifluoroacetate(TFA-$N(C_4H_9)_4$)	39481-22-6	--
688		Europium(3+) trifluoroacetate-water (1/3/3)(TFA-$Eu.H_2O$)	94079-71-7	--
689	BETI, its salts	Bis(pentafluoroethylsulfonyl)imide	152894-10-5	0.020
690		Lithium Bis(pentafluoroethanesulfonyl)imide	132843-44-8	--
691		Bis(perfluoroethylsulfonyl)imide anion	129318-46-3	--
692		Sodium bis((perfluoroethyl)sulfonyl)amide	152894-04-7	--
693		Potassium bis((perfluoroethyl)sulfonyl)amide	221203-22-1	--
694		1-Ethyl-3-methylimidazolium bis(perfluoroethylsulfonyl)imide	216299-76-2	--
695	--	Perfluoro-2-ethoxypropanoic acid(PEPA)	267239-61-2	0.010
696	PFDPA, its salts	Perfluorodecylphosphonic acid (PFDPA)	52299-26-0	0.010
697		Perfluorodecylphosphonic Acid 4-Methylbenzamine	--	--
698		Perfluorodecylphosphonic Acid Di-4-toluidine Salt	--	--
699	PFHxPA, its salts	Perfluorohexyl phosphonic acid	40143-76-8	0.010
700		Perfluorohexylphosphonic Acid 4-Methylbenzamine	1263361-02-9	--
701	--	((Perfluorooctyl)ethyl)phosphonic acid	80220-63-9	0.020
702	--	3-(Perfluorobutyl)propanoic acid	80705-13-1	0.010
703	--	Perfluoro-3,6,9-trioxaundecane-1,11-dioic acid	55621-18-6	0.020
704	--	Perfluorononanedioic acid	23453-64-7	0.020
705	--	Perfluorooctanedioic acid	678-45-5	0.020
706	--	Perfluamine	338-83-0	10.000
707	HFAC, its salts	Hexafluoroacetylacetone (HFAC)	1522-22-1	0.010
708		Strontium hexafluoroacetylacetonate (HFAC-Sr)	121012-89-3	--
709		Calcium hexafluoroacetylacetonate (HFAC-Ca)	121012-90-6	--
710		Bismuth(III) hexafluoroacetylacetonate (HFAC-Bi)	141364-06-9	--
711		Nickel(2+) bis(1,1,1,5,5,5-hexafluoro-2,4-dioxopentan-3-ide) (HFAC-Ni)	14949-69-0	--
712		Copper(II) hexafluoroacetylacetonate hydrate (HFAC- $Cu·H_2O$)	155640-85-0	--
713		Thorium hexafluoroacetylacetonate (HFAC-Th)	18865-75-3	--
714		Yttrium hexafluoroacetylacetonate (HFAC-Y)	18911-76-7	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
715		Erbium(III) hexafluoroacetylacetonate hydrate (HFAC- Er·H_2O)	18923-92-7	--
716		Scandium(III) hexafluoroacetylacetonate (HFAC-Sc)	18990-42-6	--
717		Cobalt(2+) bis[(2Z)-1,1,1,5,5,5-hexafluoro-4-oxo-2-penten- 2-olate] (HFAC-Co)	19648-83-0	--
718		Magnesium bis(1,1,1,5,5,5-hexafluoro-4-oxo-2-penten-2- olate) (HFAC-Mg)	19648-85-2	--
719		Manganese(2+) bis[(2Z)-1,1,1,5,5,5-hexafluoro-4-oxo-2- penten-2-olate] (HFAC-Mn)	19648-86-3	--
720		Sodium hexafluoroacetylacetonate (HFAC-Na)	22466-49-5	--
721		Caesium (2Z)-1,1,1,5,5,5-hexafluoro-4-oxo-2-penten-2- olate (HFAC-Cs)	22518-56-5	--
722		Barium hexafluoroacetylacetonate (HFAC-Ba)	314071-48-2	--
723		Indium hexafluoropentanedionate (HFAC-In)	34110-72-0	--
724		Tin(II) hexafluoroacetylacetonate (HFAC-Sn)	51319-99-4	--
725		Palladium(II) hexafluoroacetylacetonate (HFAC-Pd)	64916-48-9	--
726	--	Perfluoro-N-methylmorpholine	382-28-5	10.000
727	--	4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol (BPAF)	1478-61-1	10.000
728	PFTriODA, its salts	Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid (PFTriODA)	65294-16-8	0.010
729		Perfluoro-(2,5,8-trimethyl-3,6,9-trioxadodecanoic) acid potassium salt	67963-77-3	--
730		Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]propoxy]-, ammonium salt (1:1)	--	--
731	PFDeDA, its salts	Perfluorodecanedioic acid (PFDeDA)	307-78-8	0.010
732		Disodium;2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorodecanedioate	--	--
733		Dilithium;2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorodecanedioate	--	--
734	9H-PFNA, its salts	9H-Perfluorononanoic acid (9H-PFNA)	76-21-1	0.100
735		Sodium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate	--	--
736		Sodium 9-chloro-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate	--	--
737		potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate	--	--
738		Potassium 9-chloroperfluorononanoate	1415963-94-8	--
739		Ammonium hexadecafluorononanoate	1868-86-6	--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
740		Lithium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate	--	--
741		Lithium 9-chloro-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluorononanoate	--	--
742	HFPDSI, its salts	1,1,2,2,3,3-Hexafluoropropane-1,3-disulfonimide (HFPDSI)	84246-29-7	0.010
743		Potassium 1,1,2,2,3,3-Hexafluoropropane-1,3-disulfonimide (HFPDSI-K)	588668-97-7	--
744		Lithium 1,1,2,2,3,3-Hexafluoropropane-1,3-disulfonimide (HFPDSI-Li)	189217-62-7	--
745	--	(Perfluorodecyl)ethylene	30389-25-4	0.200
746	--	2,2,3,3,4,4,4-Heptafluoro-1-butanol	375-01-9	0.500
747	--	Ethyl perfluorononanoate	30377-52-7	0.200
748	--	Nonafluoropentanamide	13485-61-5	0.100
749	--	1,1,1,3,3,3-Hexafluoro-2-propanol	920-66-1	0.200
750	--	N-Methyl-N-(trimethylsilyl)heptafluorobutyramide	53296-64-3	0.200

(2) Results of PFPeDA, PFHpDA, PFNDA, C_{20} PFCA, C_{21} PFCA were semi-quantified using a perfluoroalkanoic acid whose carbon-chain length is close to that of the analyte.

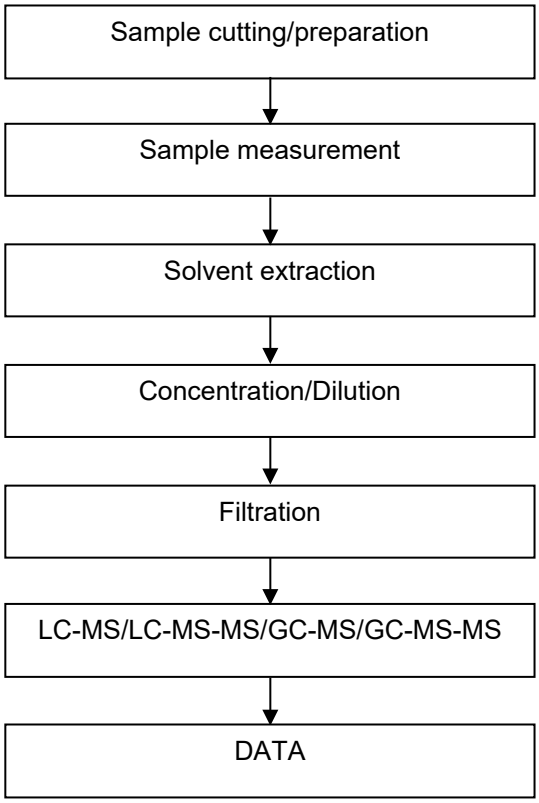
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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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Sample photos:



SHA26-0355741-0001.C001

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