

Test Report (PFAS)

No.: CANEC25019768434

Date: Aug 19, 2025

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Client Name: FOSHAN BLUE ROCKET ELECTRONICS CO.,LTD.

Client Address: NO.45 GUXIN ROAD,CHANCHENG DISTRICT,FOSHAN,GUANGDONG,P.R.C.

Sample Name: SOT-23 Semiconductor Device

Model No.: SOT-23

Client Ref. Information: SOT-323,SOD-123,SOD-323,SOD-123FL,SOT-89,SOP-8,SOP-7,ESOP-8,SOT-363,SOT-223,SOT23-6,SOT23-5,SOT23-3,SOT-523,SOD-523,TO-92,TO-92LM, TO-126F,TO-126,TO-277,TO-252,TO-251,TO-263,TO-262,TO-220,TO-220F,TO-220FL, TO-3P,TO-3PH,TO-3PL,TO-3PN,TSOT23-6, PDFN3x3,PDFN5x6, DFN8x8, PDFN3x2, HTSS0P-16,DFN0603,DFN1x1,DFN2x2,DFN3x3,DFN1006,DFN1.6x1.2,DFN3x2,DFN5x4,QFN3x3,QFN4x4,UMSB,SMC,GBU,SMA,GBJ,SMB ,MBS,SMBF ,KBP,SM AF ,MBF,ABS,ABF,UMB,KBP,DO-41,DBF , DBS , KBJ, GBP, TOLL-8L,DFN9*6,DFN5*6,QFN2*2

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

SGS Job No.: GZP25-023039

Sample Receiving Date: Aug 12, 2025

Testing Period: Aug 12, 2025 ~ Aug 19, 2025

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:

630 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	Pass
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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Allie Chen
Approved Signatory

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Test Sample:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0197684-0001.C001	"SOT-23 Semiconductor Device"

630 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 reporting list of PFAS)

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 regulation 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.

Remark: Results & photo(s) of this report refer to test report CANEC25019768432.

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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Appendix:

(1) List of PFAS, its salts & derivatives

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
1		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 ₂ H ₄ OH) ₂)	70225-14-8	--
7		Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3	--
8		N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)		--

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
23		Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H 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		Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
28	FOSAA, its salts	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		N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
35	N-EtFOSAA, its salts	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	--
36		2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	--
37		Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8	--
38		Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	--
39	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.010
40	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)		



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
73		Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH ₄)	149724-40-3	--
74		Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1	--
75		2-(Perfluorooctyl)ethan (8:		

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
101	8:8 PFPi, its salts	8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	0.010
102		Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPi-Na)	500776-69-2	--
103		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5	--
104		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6	--
105	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1	0.100
106	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
107		8:2 Fluorotelomer diammonium phosphate	93857-44-4	-
108		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	-
109		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	-
110		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	-
111		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	-
112		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	-
113		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	-
114	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
115		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
116		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4	--
117		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
118		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
119		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
120		Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	--
121		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 ₂ H ₅) ₂	77032-27-0	--
122		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	--
123		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7	--
124		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9	--
125		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 ₆ H ₅))	95682-67-0	--

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126		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9Cl) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2	--
127		Perfluorononanoate (anion)	72007-68-2	--
128		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0	--
129		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
130		Perfluorononanyl chloride (PFNA-Cl)	52447-23-1	--
131		Perfluorononanyl fluoride (PFNA-F)	558-95-2	--
132	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
133		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
134		Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7	--
135		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
136		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
137		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
138		Perfluorodecanoate (anion)	73829-36-4	--
139		Perfluorodecanoic anhydride (PFDA-A)	942199-24-8	--
140		Nonadecafluorodecanoyl chloride (PFDA-Cl)	307-38-0	--
141		Nonadecafluorodecanoyl Fluoride (PFDA-F)	--	--
142		PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8
143	Perfluoroundecanoic acid sodium salt (PFUnDA-Na)		60871-96-7	--
144	Ammonium perfluoroundecanoate (PFUnDA-NH ₄)		4234-23-5	--
145	Potassium perfluoroundecanoate (PFUnDA-K)		30377-53-8	--
146	Calcium perfluoroundecanoate (PFUnDA-Ca)		97163-17-2	--
147	Perfluoroundecanoate (anion)		196859-54-8	--
148	PFDoDA, its salts	Perfluorododecanoic Acid (PFDoDA)	307-55-1	0.010
149		Ammonium tricosfluorododecanoate (PFDoDA-NH ₄)	3793-74-6	--
150		Perfluorododecanoate (anion)	171978-95-3	--
151	PFTrDA, its salts	Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.010
152		Ammonium perfluorotridecanoate (PFTrDA-NH ₄)	4288-72-6	--
153		Sodium perfluorotridecanoate (PFTrDA-Na)	60872-01-7	--
154		Perfluorotridecanoate (anion)	862374-87-6	--
155	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
156		Perfluorotetradecanoate (anion)	365971-87-5	--
157	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
158		Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010

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159	PFDS, its salts	Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
160		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--
161		Ammonium perfluorodecanesulfonate (PFDS-NH ₄)	67906-42-7	--
162		Perfluorodecane sulfonate (anion)	126105-34-8	--
163		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
164		Perfluorodecanesulphonyl fluoride (PFDS-F)	307-51-7	--
165		Perfluorodecanesulphonyl chloride (PFDS-Cl)	32779-61-6	--
166	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100
167	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0.100
168	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	0.100
169	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
170	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.100
171		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
172		2-(Perfluorodecyl)ethane-1-sulfonyl chloride (10:2 FTS-Cl)	27619-91-6	--
173	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	0.100
174	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	0.100
175	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
176		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
177		ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4	--
178		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
179		Perfluorononane sulfonate (anion)	474511-07-4	--
180		Perfluorononanesulphonyl fluoride (PFNS-F)	68259-06-3	--
181	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
182		Perfluoroundecanesulfonate (anion)	441296-91-9	--
183	PFDoDS, its salts	Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	0.010
184		Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1	--
185		Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3	--
186		Perfluorododecane sulfonate (anion)	343629-43-6	--
187	PFTrDS, its salts	Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	0.010
188		Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
208		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	--
209		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	--
210		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	--
211		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 ₂ O ₂)	1462414-59-0	--
212		Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-I(C ₆ H ₅) ₂)	153443-35-7	--
213		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	--
214		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))		

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223		Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
224		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃)	425670-70-8	--
225		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
226		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0	--
227		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-, compd. with N,N-diethylethanamine (1:1)(PFHxS-N(C ₂ H ₅) ₃)	72033-41-1	--
228		Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1) (9Cl) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	866621-50-3	--
229		Sulfonium, (4-methylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2	--
230		Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4,5,5,6,6,6,6,7-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)	911027-68-4	--
231		1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1	--
232		Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-SC ₂₈ H ₃₁ O ₄)	928049-42-7	--
233		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
234		Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{3,7}]dec-2-yl 2-methyl-2-propenoate, 3-hydroxytricyclo[3.3.1.1 ^{3,7}]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (PFHxS-Sulfonium, propenoate polymer)	911027-69-5	--
235		Perfluorohexane sulfonate (anion)	108427-53-8	--
236		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P(C ₄ H ₉) ₄)	2310194-12-6	--
237	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010

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238	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
239	--	N-[3-(dimethylamino)propyl] tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
240	--	2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200
241	--	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
242	--	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
243	--	1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl- (50.*7E)	68555-75-9	0.010
244	--	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
245	EtFHxSAA, its salts	Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
246		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
247		Perfluorohexane Acid (PFHxA)	307-24-4	0.010
248		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
249		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
250		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
251		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
252		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
253		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
254		Perfluorohexanoic anhydride	308-13-4	--
255		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2	--
256		Perfluorohexanoate (anion)	92612-52-7	--
257		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
258		Perfluorohexanoyl bromide (PFHxA-Br)		

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
264		1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
265		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
266		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
267	6:2 FTS, its salts	Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2	--
268		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	--
269		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
270		2-(Perfluorohexyl)ethanesulfonyl chloride (6:2 FTS-Cl)	27619-89-2	--
271		2-(Perfluorohexyl)ethanesulfonyl fluoride (6:2 FTS-F)	--	--
272	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃)	51851-37-7	0.500
273	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	
274	--	1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH ₃) ₃)	85857-16-5	0.200
275	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
276	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
277	--	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
278	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
279	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
280		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH ₄ NH ₄)	1000852-37-8	-
281	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
282	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
283	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl)	102488-47-1	0.200
284	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
285	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200
286	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
287		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP ₂ OH-Na(PFH ₃ PA-Na))	1189052-95-6	--

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288	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH)	423-46-1	0.200
289	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
290	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
291	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
292	--	1-(perfluorohexyl)octane (F ₆ H ₈)	133331-77-8	0.200
293	--	1H,1H-Tridecafluoroheptylamine (6:1 FTNH ₂)	423-49-4	0.200
294	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
295		6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	0.010
296	6:6 PFPi, its salts	Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPi-Na)	70609-44-8	--
297		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb)	500776-72-7	--
298		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er)	500776-73-8	--
299		Perfluorobutane Acid (PFBA)		

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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
339		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	--
340		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	--
341		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8	--
342		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
343		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	56773-55-8	--
344		Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5	--
345		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	--
346		Perfluorobutane sulfonate (anion)	45187-15-3	--
347		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
348		Triethylammonium perfluorobutane sulfonate	182059-38-7	--
349		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1)	334529-55-4	--
350		1-Hexadecylpyridinium perfluoro-1-butanesulfonate	334529-62-3	--
351		1-Butylpyridinium perfluoro-1-butanesulfonate	334529-64-5	--
352		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate	495417-51-1	--
353		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1)	722538-68-3	--
354		Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
355		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	

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365		7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
366		Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
367		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1	--
368	HPFHpA, its salts	7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
369		Potassium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-K)	--	--
370		Lithium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Li)	--	--
371		7H-Perfluoroheptanoyl chloride (HPFHpA-Cl)	41405-35-0	--
372		7H-Perfluoroheptanoyl fluoride (HPFHpA-F)	5927-65-1	--
373		Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
374		Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
375		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
376		Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	--
377		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
378	PFHpS, its salts	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	--
379		Perfluoroheptane sulfonate (anion)	146689-46-5	--
380		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
381		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--
382		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
383		Perfluoroheptanesulfonyl fluoride (PFHpS-F)	335-71-7	--
384		Perfluoroheptanesulfonyl chloride (PFHpS-Cl)	33018-82-5	--
385		Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
386		Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
387		Potassium perfluoroheptanoate (PFHpA-K)		



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
422	5:3 FTCA, its salts	2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	--
423	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
424		Hentriacontafluorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
425	PFODA, its salts	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
426		Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
427	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
428	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
429		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)	958445-44-8	--
430		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
431		Potassium 2,2,3-trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA-K)	1087271-46-2	--
432		2,2,3-Trifluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]propanoate (ADONA (anion))	2127366-90-7	--
433	PFMPA, its salts	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
434		Perfluoro-3-methoxypropanoic anhydride (PFMPAA)	42566-65-4	--
435	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
436	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
437	9Cl-PF ₃ ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF ₃ ONS)	756426-58-1	0.010
438		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF ₃ ONS-K)	73606-19-6	--
439		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF ₃ ONS-NH ₄)	1383434-28-3	--
440		Perfluoro(2-[(6-chlorohexyl)oxy]ethanesulfonate) (9Cl-PF ₃ ONS(anion))	1621485-21-9	--
441	11Cl-PF ₃ OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF ₃ OUdS)	763051-92-9	0.010
442		Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF ₃ OUdS-K)	83329-89-9	--
443		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 ₃ OUdS (anion))	2196242-82-5	--



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No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
		heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K)		
472		Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
473		Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH4)	13043-05-5	--
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550		N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	--
551		Diphenylammonium Trifluoromethanesulfonate	164411-06-7	--
552		1-(3-aminoazetid-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	--
553		Guanidine trifluoromethanesulfonic acid	153756-25-3	--
554		Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	--
555		Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9	--
556		O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	--
557		Trifluoromethanesulfonyl chloride	421-83-0	--
558		(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	--
559		Trifluoromethanesulfonyl bromide	15458-53-4	--
560		Mercury(II) trifluoromethanesulfonate(TFMS-Hg)	49540-00-3	--
561		Dysprosium(III) tris(trifluoromethanesulfonate)(TFMS-Dy)	139177-62-1	--
562		Manganese bis(trifluoromethanesulfonate)(TFMS-Mn)	55120-76-8	--
563		Pentaammine(trifluoromethanesulfonato)osmium(I II) triflate	83781-30-0	--
564		Lutetium(III) trifluoromethanesulfonate(TFMS-Lu)	126857-69-0	--
565		Terbium(III) trifluoromethanesulfonate(TFMS-Tb)	148980-31-8	--
566		Neodymium(III) trifluoromethanesulfonate(TFMS-Nd)	34622-08-7	--
567		Ammonium trifluoromethanesulfonate(TFMS-NH ₄)	38542-94-8	--
568		Holmium(III) trifluoromethanesulfonate(TFMS-Ho)	139177-63-2	--
569		Trifluoromethanesulfonate	37181-39-8	--
570		Praseodymium(III) trifluoromethanesulfonate(TFMS-Pr)	52093-27-3	--
571		Bismuth(III) trifluoromethanesulfonate(TFMS-Bi)	88189-03-1	--
572		Europium(III) trifluoromethanesulfonate(TFMS-Eu)	52093-25-1	--
573		Erbium(III) trifluoromethanesulfonate(TFMS-Er)	139177-64-3	--
574		Gallium(III) trifluoromethanesulfonate(TFMS-Ga)	74974-60-0	--
575		N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9	--
576		Methanesulfonic acid, trifluoro-, calcium salt(TFMS-Ga)	55120-75-7	--
577		Thallium(1+) trifluoromethanesulfonate(TFMS-Tl)	73491-36-8	--
578		Hafnium(IV) Trifluoromethanesulfonate(TFMS-Hf)	161337-67-3	--



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611		Lead(II) trifluoroacetate(TFA-Pb)	4146-73-0	--
612		Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh)	72654-51-4	--
613		Thulium tris(trifluoroacetate)(TFA-Tm)	70237-00-2	--
614		Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb)	87863-62-5	--
615		Zinc bis(trifluoroacetate)(TFA-Zn)	21907-47-1	--
616		Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru)	61612-84-8	--
617		Magnesium 2,2,2-trifluoroacetate(TFA-Mg)	123333-72-2	--
618		Copper(2+) trifluoroacetate(TFA-Cu)	123333-88-0	--
619		Bis(pentafluoroethylsulfonyl)imide	152894-10-5	0.020
620		Lithium Bis(pentafluoroethanesulfonyl)imide	132843-44-8	--
621		Bis(perfluoroethylsulfonyl)imide anion	129318-46-3	--
622		Sodium bis((perfluoroethyl)sulfonyl)amide	152894-04-7	--
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1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) ^^	37858-04-1
10:2 FTOH, its possible source	
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) ^^	2144-54-9
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) ^^	17741-60-5
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) ^^	37858-05-2
6:2 FTOH, its possible source	
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) ^^	2144-53-8
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) ^^	17527-29-6
MeFHxSE, its possible source	
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
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
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) ^^	67584-57-0
Et-FHxSE, its possible source	



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quantified with solvent extraction methods .The results received by solvent extraction with subsequent GC-MS or GC-MS/MS or HPLC-MS/MS analysis reflect only extractable PFAS.



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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



