

Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 1 of 26

Client Name: KINGBOARD LAMINATES HOLDINGS LIMITED

Client Address: 23/F., DELTA HOUSE, NO.3 ON YIU STREET, SHATIN, N.T. HONG KONG.

Sample Name: FR-4.1

Model No.: HF-140

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

SGS Job No.: GZP25-015712

Sample Receiving Date: Jun 11, 2025

Testing Period: Jun 11, 2025 ~ Jun 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:

545 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

Jany Zhong

Jany Zhong
Approved Signatory

Scan to see the report



2ED629A8



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch

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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 2 of 26

Test Sample:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0137852-0001.C001	Double-side copper-clad laminate

545 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method:

Modified EN 17681-1:2022 and EN 17681-2:2022, 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.

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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Page 3 of 26

Appendix:

1. Appendix: List of 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 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-dimethyldecan-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)	251099-16-8	--
9		TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7	--
10		Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7	--
11		Magnesium bis(heptafluorooctanesulphonate) (PFOS-Mg)	91036-71-4	--
12		Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6	--
13		Perfluorooctanesulfonate	45298-90-6	--
14		Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2	--
15		Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5	--
16		N,N,N-Tripropylpentan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9	--
17		N,N-Dibutyl-N-methylbutan-1-aminium heptafluorooctane-1-sulfonate (PFOS-N(C ₄ H 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 heptafluorooctane-1-sulfonate	773895-92-4	--
22		Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄)	2185049-59-4	--



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No.: CANEC25013785203

Date: Jun 20, 2025

Page 4 of 26

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	FOSAA, its salts	Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	0.010
27		N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	--
28		N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	--
29		N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	--
30	N-MeFOSAA, its salts	N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	0.010
31		2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	--
32		Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	--
33	N-EtFOSAA, its salts	N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	0.010
34		Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	--
35		2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	--
36		Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8	--
37		Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	--
38	--	N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.010
39	--	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.010
40	--	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	0.010
41	--	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.010
42	PFOSA, its salts	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	0.010
43		Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	--
44		Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	--



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Page 5 of 26

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45		Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	--
46		Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2	--
47		Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4	--
48	PFOA, its salts & derivatives	Perfluorooctanoic acid (PFOA)	335-67-1	0.010
49		Sodium perfluorooctanoate (PFOA-Na)	335-95-5	--
50		Potassium perfluorooctanoate (PFOA-K)	2395-00-8	--
51		Silver perfluorooctanoate (PFOA-Ag)	335-93-3	--
52		Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	--
53		Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	--
54		Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	--
55		Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	--
56		Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	--
57		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	--
58		Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9	--
59		Pentadecafluorooctanoate (anion)	45285-51-6	--
60		Perfluorooctanoic Anhydride	33496-48-9	--
61		N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9	--
62		Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7	--
63		Tetrapropylammonium perfluorooctanoate	277749-00-5	--
64		Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7	--
65		Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6	--
66		Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	95658-47-2	--
67		pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7	--
68		N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6	--
69	8:2 FTS, its salts	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	0.010
70		Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1	--
71		Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH ₄)	149724-40-3	--



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Date: Jun 20, 2025

Page 6 of 26

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72		Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1	--
73		2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7	--
74	--	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	0.200
75	--	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	0.200
76	--	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)*	27905-45-9	0.100
77	--	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)*	1996-88-9	0.100
78	--	Perfluoro-1-iodooctane (PFOI)	507-63-1	0.200
79	8:2 FTCA, its salts	2H,2H-Perfluorodecane Acid (8:2 FTCA)	27854-31-5	0.010
80		Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7	--
81	--	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	0.100
82	--	1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)*	2043-53-0	0.100
83	--	1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)*	101947-16-4	0.100
84	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
85		Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6	--
86		Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate	57677-97-1	--
87		Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄)	93776-20-6	--
88		8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1	--
89	8:3 FTCA, its salts	2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA)	34598-33-9	0.010
90		Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1	--
91		2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8	--
92	--	1H,1H,2H-Heptadecafluoro-1-decene (PFDE)*	21652-58-4	0.100
93	--	3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.010
94	--	1H,1H,2H,2H-Perfluorodecyltrichlorosilane*	78560-44-8	0.100
95	--	1H,1H,2H,2H-Perfluorodecyltrimethoxysilane*	83048-65-1	
96	--	2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	0.010
97	--	6:8 Perfluorophosphinic acid (6:8 PFPI)	610800-34-5	0.010
98	8:8 PFPI, its salts	8:8 Perfluorophosphinic acid (8:8 PFPI)	40143-79-1	0.010
99		Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)	500776-69-2	--



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Page 7 of 26

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100		Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPi-Er)	500776-70-5	--
101		Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPi-Yb)	500776-71-6	--
102	--	1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)*	37858-04-1	0.100
103	8:2 monoPAP, its salts	8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	0.100
104		8:2 Fluorotelomer diammonium phosphate	93857-44-4	-
105		Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	-
106		Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0	-
107		3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	-
108		Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0	-
109		Monopotassium monoperfluorohexyl ethylphosphate	150033-28-6	-
110		Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8	-
111	PFNA, its salts	Perfluorononane Acid (PFNA)	375-95-1	0.010
112		Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8	--
113		Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4	--
114		Potassium perfluorononanoate (PFNA-K)	21049-38-7	--
115		Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3	--
116		Silver perfluorononanoate (PFNA-Ag)	7358-16-9	--
117		Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	--
118		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	--
119		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	--
120		Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7	--
121		Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9	--
122		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	--
123		Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2	--
124		Perfluorononanoate (anion)	72007-68-2	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 8 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
125		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S)	298703-33-0	--
126		Perfluorononanoic anhydride (PFNAA)	228407-54-3	--
127	PFDA, its salts	Perfluorodecane Acid (PFDA)	335-76-2	0.010
128		Sodium perfluorodecanoate (PFDA-Na)	3830-45-3	--
129		Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7	--
130		Potassium perfluorodecanoate (PFDA-K)	51604-85-4	--
131		Silver perfluorodecanoate (PFDA-Ag)	5784-82-7	--
132		Lithium perfluorodecanoate (PFDA-Li)	84743-32-8	--
133		Perfluorodecanoate (anion)	73829-36-4	--
134		Perfluorodecanoic anhydride (PFDAA)	942199-24-8	--
135	PFUnDA, its salts	Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	0.010
136		Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7	--
137		Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	--
138		Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8	--
139		Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2	--
140		Perfluoroundecanoate (anion)	196859-54-8	--
141	PFDODA, its salts	Perfluorododecanoic Acid (PFDODA)	307-55-1	0.010
142		Ammonium tricosafuorododecanoate (PFDODA-NH ₄)	3793-74-6	--
143		Perfluorododecanoate (anion)	171978-95-3	--
144	PFTTrDA, its salts	Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	0.010
145		Ammonium perfluorotridecanoate (PFTTrDA-NH ₄)	4288-72-6	--
146		Sodium perfluorotridecanoate (PFTTrDA-Na)	60872-01-7	--
147		Perfluorotridecanoate (anion)	862374-87-6	--
148	PFTDA, its salts	Perfluorotetradecanoic Acid (PFTDA)	376-06-7	0.010
149		Perfluorotetradecanoate (anion)	365971-87-5	--
150	--	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.010
151	PFDS, its salts	Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010
152		Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	--
153		Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	--
154		Ammonium perfluorodecanesulfonate (PFDS-NH ₄)	67906-42-7	--
155		Perfluorodecane sulfonate (anion)	126105-34-8	--
156		Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0	--
157	--	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	0.100



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 9 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
158	--	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)*	17741-60-5	0.100
159	--	1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)*	2144-54-9	0.100
160	--	1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	0.100
161	10:2 FTS, its salts	1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	0.010
162		1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na)	108026-35-3	--
163	--	1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)*	2043-54-1	0.100
164	--	1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)*	30046-31-2	0.100
165	PFNS, its salts	Perfluoro nonane sulfonic acid (PFNS)	68259-12-1	0.010
166		Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2	--
167		ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4	--
168		Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5	--
169		Perfluorononane sulfonate (anion)	474511-07-4	--
170	PFUnDS, its salts	Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	0.010
171		Perfluoroundecanesulfonate (anion)	441296-91-9	--
172	PFDoDS, its salts	Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5	0.010
173		Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1	--
174		Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3	--
175		Perfluorododecane sulfonate (anion)	343629-43-6	--
176	PFTTrDS, its salts	Perfluorotridecane sulfonic acid (PFTTrDS)	791563-89-8	0.010
177		Sodium perfluoro-1-tridecanesulfonate (PFTTrDS-Na)	174675-49-1	--
178	10:2 diPAP, its salts	10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	0.100
179		Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂)	57677-98-2	--
180	--	Perfluorodecyl iodide (PFDI)*	423-62-1	0.100
181	--	Perfluorododecyl iodide (PFDodi)*	307-60-8	0.100
182	--	2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	0.010
183	--	2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	0.010
184	--	1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)*	37858-05-2	0.100
185		Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.010
186		Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 10 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
187	PFHxS, its salts & derivatives	Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6	--
188		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	--
189		Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	68259-08-5	--
190		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	--
191		N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₄ H ₉) ₄)	108427-54-9	--
192		N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄)	108427-55-0	--
193		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, compd. With pyrrolidine (1:1) (PFHxS-NC ₄ H ₉)	1187817-57-7	--
194		Ethanaminium, N-[4-[[4-(diethylamino)phenyl][4-(ethylamino)-1-naphthalenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-ethyl-, 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) ₃ C ₅ H ₄)	1310480-24-0	--
195		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 ₈ H ₁₀) ₂ C ₁₃ H ₁₂)	1310480-27-3	--
196		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 ₈ H ₁₀) ₂ C ₁₇ H ₁₂)	1310480-28-4	--
197		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	--
198		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	--
199		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	--
200		Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-,	1462414-59-0	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 11 of 26

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-C ₄₄ H ₃₇ N ₂ O ₂)		
201		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	--
202		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	--
203		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	--
204		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 ₆ H ₄) ₂ (C ₄ H ₉) ₂)	213740-81-9	--
205		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)(PFHxS-Ga)	341035-71-0	--
206		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 ₇ H ₇) ₂ C ₆ H ₅)	341548-85-4	--
207		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	--
208		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	--
209		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	--
210		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 ₆ H ₅) ₄ (C ₆ H ₄) ₂)	421555-73-9	--
211		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 ₆ H ₄) ₂ (C ₅ H ₁₁))	421555-74-0	--
212		Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7	--
213		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 ₆ H ₄) ₃ (C ₄ H ₉) ₃)	425670-70-8	--
214		1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0	--
215		Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0	--
216		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 ₂ H ₅) ₃)	72033-41-1	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 12 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
217		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 ₆ H ₄) ₂ (C ₄ H ₉) ₂)	866621-50-3	--
218		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 ₆ H ₅) ₂ C ₇ H ₇)	910606-39-2	--
219		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 ₆ H ₅) ₂ C ₁₀ H ₉ O ₂)	911027-68-4	--
220		1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1	--
221		Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-SC ₂₈ H ₃₁ O ₄)	928049-42-7	--
222		Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6	--
223		Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic acid (1:1), polymer with 2-ethyltricyclo[3.3.1.1 ^{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	--
224		Perfluorohexane sulfonate (anion)	108427-53-8	--
225		Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C ₄ H ₉) ₄)	2310194-12-6	--
226	--	N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	0.010
227	--	Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.010
228	--	N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	0.010
229	--	2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	0.200
230	--	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
231	--	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



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 13 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
232	--	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
233	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
234		Potassium N-ethyl-N-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6	--
235		Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4	--
236	PFHxA, its salts & derivatives	Perfluorohexane Acid (PFHxA)	307-24-4	0.010
237		Ammonium perfluorohexanoate (APFHx)	21615-47-4	--
238		Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	--
239		Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	--
240		Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4	--
241		Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	--
242		Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8	--
243		Perfluorohexanoic anhydride	308-13-4	--
244		Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2	--
245		Perfluorohexanoate (anion)	92612-52-7	--
246		Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	--
247		Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N)	565225-91-4	--
248		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	--
249	--	1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	0.100
250	--	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	0.400
251	--	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0.200
252	6:2 FTS, its salts	1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	0.010
253		Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9	--
254		Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1	--
255		Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2	--
256		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	--
257		2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3	--
258	--	1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃)	51851-37-7	0.500



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 14 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
259	--	1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	0.200
260	--	1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH ₃) ₃)	85857-16-5	
261	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I)	355-43-1	0.200
262	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane	38550-34-4	0.200
263	--	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
264	--	thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	26650-09-9	0.200
265	6:2 monoPAP, its salts	6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	0.100
266		Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH ₄ NH ₄)	1000852-37-8	-
267	--	2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.100
268	--	3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH)	34451-26-8	0.200
269	--	1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl)	102488-47-1	0.200
270	--	1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI)	212563-43-4	0.200
271	--	4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI)	89889-20-3	0.200
272	6:2 FTPA, its salts	Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	0.100
273		Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP ₂ OH-Na(PFHEPA-Na))	1189052-95-6	--
274	--	1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro- (5:1 FTOH)	423-46-1	0.200
275	--	2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.200
276	--	4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.200
277	--	3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH)	914637-05-1	0.200
278	--	1-(perfluorohexyl)octane (F ₆ H ₈)	133331-77-8	0.200
279	--	1H,1H-Tridecafluoroheptylamine (6:1 FTNH ₂)	423-49-4	0.200
280	--	2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	0.010
281	6:6 PFPI, its salts	6:6 Perfluorophosphinic acid (6:6 PFPI)	40143-77-9	0.010
282		Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPI-Na)	70609-44-8	--
283		Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPI-Yb)	500776-72-7	--
284		Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPI-Er)	500776-73-8	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 15 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
285	PFBA, its salts	Perfluorobutane Acid (PFBA)	375-22-4	0.010
286		Ammonium perfluorobutanoate (PFBA-NH ₄)	10495-86-0	--
287		Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	--
288		Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	--
289		Silver perfluorobutanoate (PFBA-Ag)	3794-64-7	--
290		Lithium perfluorobutanoate (PFBA-Li)	4146-76-3	--
291		Heptafluorobutanoic acid-piperazine (1:1)	375-04-2	--
292		Perfluorobutanoate (anion)	45048-62-2	--
293	PFBS, its salts & derivatives	Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.010
294		Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3	--
295		Perfluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O)	59933-66-3	--
296		lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	--
297		Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2	--
298		Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)	220133-51-7	--
299		Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P(C ₄ H ₉) ₄)	220689-12-3	--
300		N,N,N-triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate(PFBS-N(C ₂ H ₅) ₄)	25628-08-4	--
301		Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	--
302		Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)	503155-89-3	--
303		Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	--
304		Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄)	68259-10-9	--
305		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O)	209482-18-8	--
306		1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6	--
307		Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	--
308		Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	194999-85-4	--
309		1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1) (PFBS-NH(C ₂ H ₅ O) ₂)	70225-18-2	--
310		Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄))	108427-52-7	--
311		Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂))	194999-82-1	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 16 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
312		Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	241806-75-7	--
313		Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	425670-64-0	--
314		Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	867373-18-0	--
315		Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	1015420-87-7	--
316		1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	905972-83-0	--
317		1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	1001557-05-6	--
318		2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	374571-81-0	--
319		Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	857285-80-4	--
320		1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	124472-66-8	--
321		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4	--
322		1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1)	56773-55-8	--
323		Perfluorobutanefulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5	--
324		1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4	--
325		Perfluorobutane sulfonate (anion)	45187-15-3	--
326		1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4	--
327		Triethylammonium perfluorobutane sulfonate	182059-38-7	--
328		N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanefulfonate (1:1)	334529-55-4	--
329		1-Hexadecylpyridinium perfluoro-1-butanefulfonate	334529-62-3	--
330		1-Butylpyridinium perfluoro-1-butanefulfonate	334529-64-5	--
331		N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanefulfonate	495417-51-1	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 17 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
332		Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1)	722538-68-3	--
333	PFPeA, its salts	Perfluoropentane Acid (PFPeA)	2706-90-3	0.010
334		Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0	--
335		Potassium perfluoropentanoate(PFPeA-K)	336-23-2	--
336		Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3	--
337		Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4	--
338		Ammonium perfluoropentanoate(PFPeA-NH ₄)	68259-11-0	--
339		Perfluoropentanoate (anion)	45167-47-3	--
340		Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S)	64808-55-5	--
341		Perfluoropentanoic anhydride (PFPeAA)	308-28-1	--
342		7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8	0.010
343	HPFHpA, its salts	Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	--
344		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1	--
345		7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2	--
346		Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.010
347	PFHpS, its salts	Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9	--
348		Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	--
349		Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	--
350		Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	--
351		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	--
352		Perfluoroheptane sulfonate (anion)	146689-46-5	--
353		Triethylammonium perfluoroheptane sulfonate	72033-40-0	--
354		Tetraethylammonium perfluoroheptane sulfonate	439863-97-5	--
355		Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1	--
356		Perfluoroheptane Acid (PFHpA)	375-85-9	0.010
357	PFHpA, its salts	Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	--
358		Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	--
359		Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4	--
360		Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6	--
361		Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5	--
362		Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1	--
363		Perfluoroheptanoate (anion)	120885-29-2	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 18 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
364	HFPO-DA, its salts & derivatives	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6	0.010
365		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH ₄)	62037-80-3	--
366		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2	--
367		2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8	--
368		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)-	75579-39-4	--
369		Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)-	75579-40-7	--
370		Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	67963-75-1	--
371		Perfluoro(2-propoxypropanoate)	122499-17-6	--
372		2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1)	165951-17-7	--
373		Triethylaminium perfluoro-2-propoxypropanoate	165951-18-8	--
374		4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate	298703-31-8	--
375		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 ₃ NO ₂)	2412106-69-3	--
376	4:2 FTS, its salts	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	0.010
377		1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	27619-93-8	--
378		4:2 Fluorotelomer sulfonate (4:2 FTS(anion))	414911-30-1	--
379	PFPeS, its salts	Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010
380		Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1	--
381		Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	--
382		Ammonium perfluoropentanesulfonate (PFPeS-NH ₄)	68259-09-6	--
383		Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1	--
384		Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6	--
385		Perfluoropentane sulfonate (anion)	175905-36-9	--
386		Triethylammonium perfluoropentane sulfonate	72033-42-2	--
387		Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1	--
388	--	2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	0.010



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 19 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
389	5:3 FTCA, its salts	3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	0.010
390		2H,2H,3H,3H-Perfluorooctanoate (5:3 FTCA(anion))	1799325-94-2	--
391	PFHxDA, its salts	Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	0.010
392		Hentriacontafuorohexadecanoate anion (PFHxDA(anion))	1214264-30-8	--
393	PFODA, its salts	Perfluorooctadecanoic Acid (PFODA)	16517-11-6	0.010
394		Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8	--
395	--	1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	0.200
396	ADONA, its salts	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	0.010
397		Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)	958445-44-8	--
398		Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3	--
399	--	Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	0.010
400	--	Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	0.010
401	--	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	0.010
402	9Cl-PF ₃ ONS, its salts	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF ₃ ONS)	756426-58-1	0.010
403		Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF ₃ ONS-K)	73606-19-6	--
404		Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF ₃ ONS-NH ₄)	1383434-28-3	--
405	11Cl-PF ₃ OUdS, its salts	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF ₃ OUdS)	763051-92-9	0.010
406		Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate (11Cl-PF ₃ OUdS-K)	83329-89-9	--
407	PFEESA, its salts	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	0.010
408		Potassium perfluoro(2-ethoxyethane) sulfonate (PFEESA-K)	117205-07-9	--
409		Sodium perfluoro(2-ethoxyethane) sulfonate (PFEESA-Na)	113507-87-2	--
410	3:3 FTCA, its salts	3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	0.010
411		4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion))	1169706-83-5	--
412	PFPeDA, its salts	Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	0.100
413		Nonacosafuoropentadecanoate (PFPeDA(anion))	1214264-29-5	--
414	--	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	0.200
415	--	2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	0.200



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 20 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
416	--	1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	0.100
417	--	Perfluorobutane sulfon amides (PFBSA)	30334-69-1	0.100
418	--	1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O)	34454-97-2	0.010
419	11H-PFUnDA, its salts	11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	0.100
420		Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafafluoroundecanoate (11H-PFUnDA-K)	307-71-1	--
421		Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafafluoroundecanoate (11H-PFUnDA-NH ₄)	5081-02-7	--
422		11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4	--
423	PFPrA, its salts	Pentafluoropropionic acid (PFPrA)	422-64-0	0.100
424		Sodium pentafluoropropionate (PFPrA-Na)	378-77-8	--
425		Silver pentafluoropropionate (PFPrA-Ag)	509-09-1	--
426		Potassium pentafluoropropionate (PFPrA-K)	378-76-7	--
427		Ammonium pentafluoropropionate (PFPrA-NH ₄)	2730-58-7	--
428	HFPO-TA, its salts	Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	0.200
429		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	--
430		Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2	--
431		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	--
432		Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1	--
433	PFETs, its salts	Perfluoroethane sulfonic acid (PFETs)	354-88-1	0.010
434		Pentafluoroethanesulfonate (PFETs (anion))	108410-37-3	--
435		Potassium pentafluoroethane-1-sulfonate (PFETs-K)	2837-92-5	--
436	6:2 diPAP, its salts	6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	0.010
437		Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0	--
438		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	--
439	TFSI, its salts	Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	0.010
440		1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 21 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
441		Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	--
442		Lithium Bis(trifluoromethane)sulfonimide (TFSl-Li)	90076-65-6	--
443		1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6	--
444	10:2 monoPAP, its salts	10:2 Fluortelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	0.100
445		10:2 Fluortelomer diammonium dihydrogen phosphate	93857-45-5	--
446	--	N-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl)iodoacetamide	852527-50-5	0.010
447	TFMS, its salts	Trifluoromethane sulfonic acid (TFMS)	1493-13-6	0.010
448		Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9	--
449		Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	--
450		Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2	--
451		Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	--
452		Trifluoromethanesulfonic anhydride	358-23-6	--
453		Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	--
454		Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2	--
455		Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	--
456		Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2	--
457		Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	--
458		Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4	--
459		Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	--
460		Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8	--
461		Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	--
462		Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7	--
463		Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	--
464		Tetrabutylammonium trifluoromethanesulfonate	35895-70-6	--
465		Methyltrioctylammonium trifluoromethanesulfonate	121107-18-4	--
466		Imidazole trifluoromethanesulfonate	29727-06-8	--
467		Trifluoroacetyl Trifluoromethanesulfonate	68602-57-3	--
468		Lanthanum(III) trifluoromethanesulfonate(TFMS-La)	52093-26-2	--
469		Indium(III) trifluoromethanesulfonate(TFMS-In)	128008-30-0	--
470		Samarium(III) trifluoromethanesulfonate(TFMS-Sm)	52093-28-4	--
471		Ytterbium(III) trifluoromethanesulfonate(TFMS-Yb)	54761-04-5	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 22 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
472		Thulium(III) trifluoromethanesulfonate(TFMS-Tm)	141478-68-4	--
473		Tetraethylammonium trifluoromethanesulfonate	35895-69-3	--
474		1-Fluoro-3,5-dichloropyridinium triflate	107264-06-2	--
475		Triethylamine salt of trifluoromethanesulfonic acid	646-58-2	--
476		Triphenylphosphonium anhydride triflate	72450-51-2	--
477		N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	--
478		Diphenylammonium Trifluoromethanesulfonate	164411-06-7	--
479		1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	--
480		Guanidine trifluoromethanesulfonic acid	153756-25-3	--
481		Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	--
482		Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9	--
483		O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	--
484		Trifluoromethanesulfonyl chloride	421-83-0	--
485		(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	--
486		Trifluoromethanesulfonyl bromide	15458-53-4	--
487		Mercury(II) trifluoromethanesulfonate(TFMS-Hg)	49540-00-3	--
488		Dysprosium(III) tris(trifluoromethanesulfonate)(TFMS-Dy)	139177-62-1	--
489		Manganese bis(trifluoromethanesulfonate)(TFMS-Mn)	55120-76-8	--
490		Pentaammine(trifluoromethanesulfonato)osmium(I II) triflate	83781-30-0	--
491		Lutetium(III) trifluoromethanesulfonate(TFMS-Lu)	126857-69-0	--
492		Terbium(III) trifluoromethanesulfonate(TFMS-Tb)	148980-31-8	--
493		Neodymium(III) trifluoromethanesulfonate(TFMS-Nd)	34622-08-7	--
494		Ammonium trifluoromethanesulfonate(TFMS-NH ₄)	38542-94-8	--
495		Holmium(III) trifluoromethanesulfonate(TFMS-Ho)	139177-63-2	--
496		Trifluoromethanesulfonate	37181-39-8	--
497		Praseodymium(III) trifluoromethanesulfonate(TFMS-Pr)	52093-27-3	--
498		Bismuth(III) trifluoromethanesulfonate(TFMS-Bi)	88189-03-1	--
499		Europium(III) trifluoromethanesulfonate(TFMS-Eu)	52093-25-1	--
500		Erbium(III) trifluoromethanesulfonate(TFMS-Er)	139177-64-3	--
501		Gallium(III) trifluoromethanesulfonate(TFMS-Ga)	74974-60-0	--



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Test Report (PFAS)

No.: CANEC25013785203

Date: Jun 20, 2025

Page 23 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
502		N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9	--
503		Methanesulfonic acid, trifluoro-, calcium salt(TFMS-Ga)	55120-75-7	--
504		Thallium(1+) trifluoromethanesulfonate(TFMS-Tl)	73491-36-8	--
505		Hafnium(IV) Trifluoromethanesulfonate(TFMS-Hf)	161337-67-3	--
506	PFPrS, its salts	Perfluoropropate sulfonic acid (PFPrS)	423-41-6	0.010
507		Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9	--
508	--	1-pefluoroheptyl ethanol (7:2 secondary) (7:2sFTOH)	24015-83-6	0.200
509	--	4:2 Fluorotelomer iodide (4:2 FTI)	2043-55-2	0.200
510	PFHpSi, its salts	Perfluoroheptane-1-sulfonic acid (PFHpSi)	769067-51-8	0.010
511		1-heptanesulfonic Acid Sodium Salt (PFHpSi-Na)	68555-66-8	--
512	PFOPA, its salts	Perfluorooctyl phosphonic acid (PFOPA)	40143-78-0	0.010
513		(Heptadecafluorooctyl)phosphonic acid-4-methylaniline (1/1)	1263361-03-0	--
514	--	1H,1H-Perfluorooctylamine (7:1 FTNH ₂)	307-29-9	0.200
515	--	Perfluoroheptanamide (PFHpA-NH ₂)	2358-22-7	0.100
516	--	Perfluorobutyramide (PFBA-NH ₂)	662-50-0	0.200
517	--	1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	0.200
518	--	N-methylperfluoro-1-butanefulfonamide (MeFBSA)	68298-12-4	0.010
519	--	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
520	TFA, its salts	Trifluoroacetic acid (TFA)	76-05-1	1.000
521		Sodium trifluoroacetate (TFA-Na)	2923-18-4	--
522		Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0	--
523		Lithium Trifluoroacetate (TFA-Li)	2923-17-3	--
524		Silver trifluoroacetate (TFA-Ag)	2966-50-9	--
525		Cesium Trifluoroacetate (TFA-Cs)	21907-50-6	--
526		Potassium trifluoroacetate (TFA-K)	2923-16-2	--
527		Ammoniumtrifluoroacetate (TFA-NH ₄)	3336-58-1	--
528		Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7	--
529		Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6	--
530		Trifluoroacetate / Trifluoroacetic acid anion(TFA anion)	14477-72-6	--
531		Dimethyl[(trifluoroacetyl)oxy]sulfonium trifluoroacetate	57738-66-6	--
532		Aluminium tris(trifluoroacetate)(TFA-Al)	36554-89-9	--



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No.: CANEC25013785203

Date: Jun 20, 2025

Page 24 of 26

No.	Group Name	Substance Name	CAS No.	MDL (mg/kg)
533		Barium bis(trifluoroacetate)(TFA-Ba)	60884-92-6	--
534		Erbium tris(trifluoroacetate)(TFA-Er)	70236-99-6	--
535		Indium trifluoroacetate(TFA-In)	36554-90-2	--
536		Lanthanum tris(trifluoroacetate)(TFA-La)	70236-92-9	--
537		Nickel(2+) trifluoroacetate(TFA-Ni)	16083-14-0	--
538		Lead(II) trifluoroacetate(TFA-Pb)	4146-73-0	--
539		Acetic acid, trifluoro-, rhodium(2+) salt(TFA-Rh)	72654-51-4	--
540		Thulium tris(trifluoroacetate)(TFA-Tm)	70237-00-2	--
541		Ytterbium(3+) tris(trifluoroacetate)(TFA-Yb)	87863-62-5	--
542		Zinc bis(trifluoroacetate)(TFA-Zn)	21907-47-1	--
543		Ruthenium(II) 2,2,2-trifluoroacetate(TFA-Ru)	61612-84-8	--
544		Magnesium 2,2,2-trifluoroacetate(TFA-Mg)	123333-72-2	--
545		Copper(2+) trifluoroacetate(TFA-Cu)	123333-88-0	--

2. For textile/leather, * Substances MDL = 0.200mg/kg.



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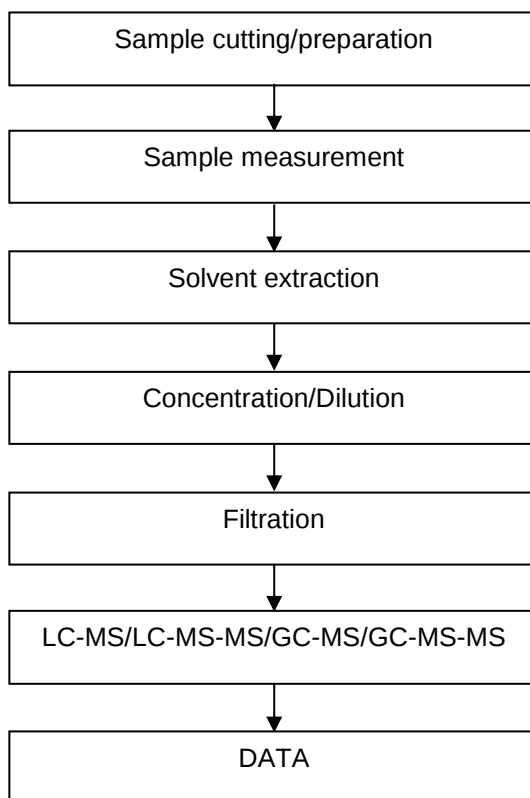
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Page 25 of 26

ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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Page 26 of 26

Sample photos:



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