

TEST REPORT Job No./Report No TR2785889 Date: 17 April 2026 Page 1 of 45

OPAL AMBALAJ SANAYİ ANONİM ŞİRKETİ
MALIKÖY ANADOLU OSB MAHALLESİ, 29 EKİM CADDESİ NO: 45 SİNCAN / ANKARA
TEL: 05453200655

To the attention of Ahmet Berk Eviner

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	PET STRAP - GREEN
B	PP STRAP - BLACK

Client's reference No. : TR 2785889
Colour : PP-BLACK / PET-GREEN
Reference No. : 02.04 INTERSET
Manufacturer : OPAL AMBALAJ SANAYİ ANONİM ŞİRKETİ
Country of Destination : EUROPE
Sample Receiving Date : 07 April 2026
Test Performing Period : 07 April 2026~17 April 2026

Overall Conclusion : **PASS**

Test Results : Please refer to the next page(s).
Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 2 of 45

Test Parameters	Result	
	A1	B1
Chemical tests		
Heavy Metals (EU Packaging Directive 94/62/EC)	M	M
Chlorinated Paraffins (SCCP) (Synthetic leather, plastic, polymeric coating)	M	-
Chlorinated Compounds-Hexachlorobutadiene and Pentachlorobenzene (POP's)	M	-
Flame Retardants	M	-
UV Absorbers/Stabilizers	M	-
Per- and Polyfluoroalkyl Substances (PFAS) - Polymers (545 PFAS)	M	-
Per- and Polyfluoroalkyl Substances (PFAS) - Polymers	M	-

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

RAVİYE MUTLU
Customer Services Supervisor

Bora Şirinbilek
Hardline C&PC Testing Services Manager




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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 3 of 45

Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	PET STRAP - GREEN	A1	Main	Plastic	Green
B	PP STRAP - BLACK	B1	Main	Plastic	Black

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AB-0690-T
TR2785889
04-26

TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 4 of 45

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) (POP's)¹

Test Method: With reference to ISO 18219-1: 2021. Analysis was performed by GC-NCI-MS

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A1		
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	ND	500	1500
Conclusion	PASS	--	--

- Note :
1. mg/kg = milligram per kilogram
 2. ND = Not Detected
 3. Permissible Limit Was Quoted According To POP Regulation.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 5 of 45

Flame Retardants (POP's)¹

Test Method: SGS In House Test Method RSTS-CHEM-216-1 Analysis by GC-MS

Test Item	CAS NO.	Unit	Result	Reporting Limit	Permissible Limit
			A1		
Tetrabromodiphenyl ether (Tetra-BDE)	40088-47-9 and others	mg/kg	ND	5	10 for each (350 sum)
Pentabromodiphenyl ether (Penta-BDE)	32534-81-9 and others	mg/kg	ND	5	
Hexabromodiphenyl ether (Hexa-BDE)	36483-60-0 and others	mg/kg	ND	5	
Heptabromodiphenyl ether (Hepta-BDE)	68928-80-3 and others	mg/kg	ND	5	
Bis(pentabromophenyl) ether (Deca-BDE)	1163-19-5	mg/kg	ND	5	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α HBCDD, β HBCDD, γ HBCDD)	25637-99-4 / 3194-55-6; 134237-50-6; 134237-51-7; 134237-52-8;	mg/kg	ND	10	75
Conclusion		-	PASS	-	-

Note:

1. mg/kg = ppm, 0.1% = 1000ppm
2. N.D. = Not Detected (<Reporting Limit)
3. "-" = Not regulated
4. * = Exceed the limit
5. Permissible limit was according to POP's

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 6 of 45

Chlorinated Compounds (POP's)¹

Test Method: a) SGS In House Test Method RSTS-CHEM-220-2 Analysis by GC-MS

Test Method: b) SGS In House Test Method RSTS-CHEM-222-2 Analysis by GC-MS

Test Item	CAS NO.	Unit	Result	Reporting Limit	Permissible Limit
			A1		
Hexachlorobutadiene (a)	87-68-3	mg/kg	ND	5	Not Detected
Pentachlorobenzene (a)	608-93-5	mg/kg	ND	5	Not Detected
Polychlorinated biphenyls (PCB) and others (b)	1336-36-3 and others	%	ND	0.0005	≤ 0.2 mg/kg (sum)
Polychlorinated naphthalenes (PCN) (b)	70776-03-3 and others	mg/kg	ND	5	Not Detected
Conclusion			PASS		

Note:

1. mg/kg = ppm, 0.1% = 1000ppm
2. N.D. = Not Detected (<Reporting Limit)
3. "-" = Not regulated
4. * = Exceed the limit
5. Permissible limit was according to POP's

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 7 of 45

UV Absorbers / Stabilizers

Test Method: With reference to ISO 24040:2022 - Analysis by GC-MS

	<u>CAS-No.</u>	<u>Result (mg/kg)</u>
UV 328	25973-55-1	<u>A1</u> n.d.
Conclusion		Pass

Note:

n.d. = not detected
 Reporting Limit = 1 mg/kg
Permissible Limit = 100 mg/kg
 Remark = The limit was according to POP's

European Directive 94/62/EC – Total Lead, Cadmium, Mercury and Hexavalent Chromium content¹

Test Method : SGS In House Test Method CTSL-SOP-RSTS-CHEM-108-2 Digestion by Microwave System - Analysis by ICP-OES/ ICP-MS

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	A1	B1		
Lead (Pb)	ND	7,6	5	--
Cadmium (Cd)	ND	ND	5	--
Mercury (Hg)	ND	ND	5	--
Hexavalent Chromium (Cr(VI))	ND*	ND*	5	--
Total	ND	7,6	--	100
Comment	PASS	PASS	--	--

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. * = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".

4. # = Chromium (Cr(VI)) content confirmation test was applied due to over limit of Chromium Content.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 8 of 45

Per- and Polyfluoroalkyl Substances (PFAS)

Test Method: With reference to EN ISO 23702-1:2023 with modification on sample extraction.
Analysis was conducted by HPLC-MS/MS and GC-MS.

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFOS, its salts			
Perfluorooctanesulfonic acid (PFOS), its salts [#]	1763-23-1	0.01	n.d.
PFOS-related substances			
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.10	n.d.
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.10	n.d.
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) ^α	1691-99-2	0.10	n.d.
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.10	n.d.
Perfluorooctane sulfonamide (PFOSA), its salts [#]	754-91-6	0.10	n.d.
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [#]	2806-24-8	0.10	n.d.
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [#]	2355-31-9	0.10	n.d.
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [#]	2991-50-6	0.10	n.d.
Perfluoro-1-octanesulfonyl fluoride (PFOS-F) / Perfluorooctane sulfonic anhydride (PFOSAN) ⁺	307-35-7/ 423-92-7	0.10	n.d.
Sum of PFOS-related substances	--	--	n.d.
2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC) [§]	423-82-5	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 9 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFOA, its salts			
Perfluorooctanoic acid (PFOA), its salts ^{#a}	335-67-1	0.01	n.d.
PFOA-related substances			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts ^{# @}	39108-34-4	0.10	n.d.
Perfluoro-1-iodooctane (PFOI) ^Δ	507-63-1	0.20	n.d.
2H,2H Perfluorodecane Acid (8:2 FTCA), its salts ^{# @ Δ}	27854-31-5	0.10	n.d.
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) ^{@ α}	678-39-7	0.10	n.d.
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) ^{@ Δ}	2043-53-0	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃) ^{@ Δ}	101947-16-4	0.20	n.d.
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts ^{# @}	678-41-1	0.10	n.d.
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts ^{# @}	34598-33-9	0.10	n.d.
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) ^{@ Δ}	21652-58-4	0.20	n.d.
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.10	n.d.
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl ₃) / 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃) ^{^^ @ Δ}	78560-44-8/ 83048-65-1	0.20	n.d.
2H-Perfluoro-2-decenoic acid (8:2 FTUCA) ^{@ Δ}	70887-84-2	0.10	n.d.
6:8 Perfluorophosphinic acid (6:8 PFPI) ^{§ Δ}	610800-34-5	0.10	n.d.
8:8 Perfluorophosphinic acid (8:8 PFPI) its salts [#]	40143-79-1	0.10	n.d.
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts ^{# @}	57678-03-2	0.10	n.d.
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) ^{@ α}	865-86-1	0.10	n.d.
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH) [@]	39239-77-5	0.10	n.d.
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS), its salts ^{# @}	120226-60-0	0.10	n.d.
10:2 Fluorotelomerphosphatediester (10:2 diPAP), its salts ^{# @}	1895-26-7	0.10	n.d.
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) ^{@ Δ}	70887-94-4	0.10	n.d.
2-Perfluorodecyl ethanoic acid (10:2 FTCA) ^{@ Δ}	53826-13-4	0.10	n.d.
10:2 Fluorotelomerphosphatemonoester (10:2 monoPAP), its salts ^{# @}	57678-05-4	0.20	n.d.
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) ^{@ Δ}	2043-54-1	0.20	n.d.
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) ^{@ Δ}	30046-31-2	0.20	n.d.
Perfluorodecyl iodide (PFDI) ^{@ Δ}	423-62-1	0.20	n.d.
Perfluorododecyl iodide (PFD _{DI}) ^{@ Δ}	307-60-8	0.20	n.d.
Perfluorooctanoyl fluoride (PFOA-F) / Perfluorooctanoic	335-66-0 /	0.10	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 10 of 45

Anhydride +	33496-48-9		
Sum of PFOA-related substances	--	--	n.d.
Methyl perfluorooctanoate (Me-PFOA); Ethyl perfluorooctanoate (Et-PFOA) ^{§ ^}	376-27-2 / 3108-24-5	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @ \$	27905-45-9	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @ \$	1996-88-9	0.20	n.d.
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) @ \$	37858-04-1	0.20	n.d.
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) @ \$	37858-05-2	0.20	n.d.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) @ \$	17741-60-5	0.20	n.d.
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) @ \$	2144-54-9	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 11 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFHxS, its salts			
Perfluorohexanesulfonic acid (PFHxS), its salts [#]	355-46-4	0.01	n.d.
PFHxS-related substances			
N-Methylperfluoro-1-hexane sulfonamide (N-MeFHxSA)	68259-15-4	0.10	n.d.
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.10	n.d.
N-[3-(dimethylamino)propyl] tridecafluorohexane sulphonamide (N-AP-FHxSA)	50598-28-2	0.10	n.d.
N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE) ^α	34455-03-3	0.20	n.d.
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE) ^α	68555-75-9	0.10	n.d.
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]- (EtFHxSAA), its salts [#]	68957-32-4	0.10	n.d.
Perfluorohexylsulfonyl fluoride (PFHxS-F) / Perfluorohexylsulfonyl chloride (PFHxS-Cl) +	423-50-7 / 55591-23-6	0.10	n.d.
Sum of PFHxS-related substances	--	--	n.d.
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) [§]	67584-57-0	0.20	n.d.
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl) sulfonyl]amino]ethyl ester (EtFHxSEMA) [§]	67906-70-1	0.20	n.d.
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl) sulfonyl]amino]ethyl ester (MeFHxSEMA) [§]	67584-61-6	0.20	n.d.

Doc. No.: CTSL-F-5.10-98NF / First Publish Date: 28.08.2014 / Revision Date / No.:7.03.2024 / 10

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 12 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFHxA, its salts			
Perfluorohexane Acid (PFHxA), its salts [#]	307-24-4	0.01	n.d.
PFHxA-related substances			
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) ^α	647-42-7	0.10	n.d.
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI) ^Δ	2043-57-4	0.20	n.d.
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS), its salts [#]	27619-97-2	0.10	n.d.
1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃) ^Δ	51851-37-7	0.50	n.d.
1H,1H,2H,2H-Perfluorooctyltrichlorosilane (6:2 FTSiCl ₃) /1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH ₃) ₃) ^{^^, Δ}	78560-45-9/ 85857-16-5	0.20	n.d.
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I) ^Δ	355-43-1	0.20	n.d.
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane ^Δ	38550-34-4	0.20	n.d.
n-[3-(dimethylamino)propyl] 3,3,4,4,5,5,6,6,7,7,8,8,8 tridecafluorooctanesulphonamide n-oxide	80475-32-7	0.10	n.d.
thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester ^Δ	26650-09-9	0.20	n.d.
6:2 Fluorotelomer phosphate monoester (6:2 monoPAP), its salts [#]	57678-01-0	0.10	n.d.
2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.10	n.d.
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH) ^Δ	34451-26-8	0.20	n.d.
1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl) ^Δ	102488-47-1	0.20	n.d.
1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI) ^Δ	212563-43-4	0.20	n.d.
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI) ^Δ	89889-20-3	0.20	n.d.
Perfluorohexyl ethylphosphonic acid (6:2 FTPA), its salts [#]	252237-40-4	0.10	n.d.
1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-(5:1 FTOH)	423-46-1	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 13 of 45

2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.20	n.d.
4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.20	n.d.
3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2sFTOH)	914637-05-1	0.20	n.d.
1-(perfluorohexyl)octane (F6H8) ^Δ	133331-77-8	0.20	n.d.
1H,1H-Tridecafluoroheptylamine (6:1 FTNH2) ^Δ	423-49-4	0.20	n.d.
2H-Perfluoro-2-octenoic acid (6:2 FTUCA) ^Δ	70887-88-6	0.20	n.d.
6:6 Perfluorophosphinic acid (6:6 PFPi), its salts# ^Δ	40143-77-9	0.10	n.d.
6:8 Perfluorophosphinic acid (6:8 PFPi) [§] ^Δ	610800-34-5	0.10	n.d.
2-Perfluorohexyl ethanoic acid (6:2 FTCA) ^Δ	53826-12-3	0.10	n.d.
3-Perfluoropentyl propanoic acid (5:3 FTCA), its salts#	914637-49-3	0.10	n.d.
n-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl) iodoacetamide ^Δ	852527-50-5	0.10	n.d.
Perfluoroheptanamide (PFHpA-NH2) ^Δ	2358-22-7	0.20	n.d.
6:2 Fluorotelomer phosphate diester (6:2 diPAP), its salts#	57677-95-9	0.10	n.d.
Perfluorohexanoyl fluoride (PFHxA-F) / Perfluorohexanoic anhydride / Perfluorohexanoyl chloride (PFHxA-Cl) +	355-38-4 / 308-13-4/ 335-53-5	0.10	n.d.
Sum of PFHxA-related substances	--	--	n.d.
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) [§]	17527-29-6	0.20	n.d.
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) [§]	2144-53-8	0.20	n.d.
Conclusion	--	--	PASS

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AB-0690-T

TR2785889

04-26

TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 14 of 45

Requirement:
PFOS, its salts 25 ppb (0.025 mg/kg)
PFOS-related substances 1 mg/kg (total)
Reference to Regulation (EU) 2025/718 amending Part A to Annex I to Regulation (EU) 2019/1021

PFOA, its salts 25 ppb (0.025 mg/kg)
PFOA-related substances 1 mg/kg (each or total)
Reference to Regulation (EU) 2020/784 amending Annex I to Regulation (EU) 2019/1021; and Switzerland ORRChem Annex 1.16 of Art. 3 in SR 814.81

PFHxS, its salts 25 ppb (0.025 mg/kg)
PFHxS-related substances 1 mg/kg (each or total)

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

PFHxA, its salts 25 ppb (0.025 mg/kg) (total)
PFHxA-related substances 1 mg/kg (total)
Reference to Regulation (EU) 2024/2462 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council as regards undecafluorohexanoic acid (PFHxA), its salts and PFHxA-related substances.

Note: Permissible limit was according to POP's

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 15 of 45

Appendix 1 – List of individual PFAS, its salts and derivatives

Note: The listed salts/derivatives are analyzed through their corresponding PFAS.

Substances	CAS No.	Substances	CAS No.
PFOA, its salts & derivatives			
Perfluorooctanoic Acid (PFOA)	335-67-1	Pentadecafluorooctanoate (anion)	45285-51-6
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	Perfluorooctanoic Anhydride	33496-48-9
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	Perfluorooctanoate	32609-65-7
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	N,N,N-Trimethylmethanaminium	277749-00-5
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	Tetrapropylammonium perfluorooctanoate	98065-31-7
Ammonium perfluorooctanoate (APFO)	3825-26-1	Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	1376936-03-6
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	95658-47-2
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	1514-68-7
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium (PFOA-Cr3+)	68141-02-6	Pentadecafluorooctanoic acid-1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	927835-01-6
Pentadecafluorooctanoic acid—piperazine (PFOA-NH(C ₄ H ₁₀ N))	423-52-9	N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate	
PFOS, its salts & derivatives			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Potassium perfluorooctane sulfonate (PFOS-K)	2795-39-3	Perfluorooctanesulfonate	45298-90-6
Sodium perfluorooctane sulfonate (PFOS-Na)	4021-47-0	Triethylammonium perfluorooctane sulfonate (PFOS-NH(C ₂ H ₅) ₃)	54439-46-2
Lithium perfluorooctane sulfonate (PFOS-Li)	29457-72-5	Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5
Ammonium perfluorooctane sulfonate (PFOS-NH ₄)	29081-56-9	N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8	N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) / PFOS-TEA	56773-42-3	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
Magnesium bis(heptadecafluoro octanesulphonate) (PFOS-Mg)	91036-71-4	1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7	N,N,N-Triethyldecane-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro octanesulfonate	71463-74-6	Tetrabutylphosphonium perfluorooctane sulfonate	2185049-59-4

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 16 of 45

Perfluorooctanesulfonic acid diethylamine salt (PFOS-C4H11N)	2205029-08-7	Heptyldimethyl{2-[(2-methylprop-2-enyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C15H30NO2)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7		
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1		

Appendix 2 – The listed substances are likely hydrolyzed and released to corresponding PFAS when treated with strong alkaline solvents. It contributes to the amount of corresponding PFAS if present in the sample.

Substances	CAS No.	Substances	CAS No.
Possible Source contributes to PFOA			
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	Methyl perfluorooctanoate (Me-PFOA)	376-27-2

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 17 of 45

PFHxS, its salts & derivatives			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	Bis(4-tert-butylphenyl)iodanium tridecafluorohexane-1-sulfonate	213740-81-9
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5	Bis(4-methylphenyl)(phenyl)sulfanium tridecafluorohexane-1-sulfonate	341548-85-4
Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with perfluorohexanesulfonic acid (1:2)	421555-73-9
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9	Perfluorohexanesulfonic acid, Gallium(3+) salt (3:1) (PFHxS-Ga)	341035-71-0
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH ₄)	68259-08-5	Perfluorohexanesulfonic acid, Scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
Benzyltriphenylphosphanium tridecafluorohexane-1-sulfonate (PFHxS-BTPP)	1000597-52-3	Perfluorohexanesulfonic acid, Neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
N,N,N-Tributylbutan-1-amium tridecafluorohexane-1-sulfonate	108427-54-9	Perfluorohexanesulfonic acid, Yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
Tetraethylammonium perfluorohexane sulfonate	108427-55-0	Cesium perfluorohexanesulfonate (PFHxS-Cs)	92011-17-1
Tridecafluorohexane-1-sulfonic acid-pyrrolidine	1187817-57-7	Perfluorohexanesulfonic acid, Zinc salt (PFHxS-Zn)	70136-72-0
4-[[4-(Diethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-diethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-24-0	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, perfluorohexanesulfonate (1:1)	421555-74-0
4-[[4-(Dimethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-27-3	Tris(4-tert-butylphenyl)sulfanium tridecafluorohexane-1-sulfonate	425670-70-8
4-[[4-(Dimethylamino)phenyl][4-(phenylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-28-4	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-45-0	Triethylammonium perfluorohexane sulfonate	72033-41-1
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-69-8	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with perfluorohexanesulfonic acid (1:1)	866621-50-3
Triphenylsulfanium tridecafluorohexane-1-sulfonate (TPS-PFHxS)	144116-10-9	(4-Methylphenyl)diphenylsulfanium tridecafluorohexane-1-sulfonate	910606-39-2
1-(Carboxymethyl)-4-(2-{4-[4-(2,2-diphenylethyl)phenyl]-1H,2H,3H,3aH,4H,8bH-cyclopenta[b]indol-7-yl}ethenyl)quinolin-1-ium tridecafluorohexane-1-sulfonate	1462414-59-0	{4-[(2-Methylprop-2-enoyl)oxy]phenyl}diphenylsulfanium tridecafluorohexane-1-sulfonate	911027-68-4
Diphenyliodonium tridecafluorohexane-1-sulfonate	153443-35-7	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium, 19-[4-(1,1-dimethylethyl)phenyl]-6,7,9,10,12,13-hexahydro-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexane sulfonate (1:1)	928049-42-7
Tetramethylammonium perfluorohexane sulfonate (PFHxS-TMA)	189274-31-5	Perfluorohexylsulfonyl fluoride (PFHxS-F)	423-50-7
Tert-butylazanium;1,1,2,2,3,3,4,4,5,5,6,6,6-tride	202189-84-2	Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 18 of 45

cafluorohexane-1-sulfonate			
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-hexane sulfonic 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	911027-69-5	Perfluorohexane sulfonate (anion)	108427-53-8
Tetrabutylphosphonium perfluorohexane sulfonate	2310194-12-6		
PFHxA, its salts & derivatives			
Perfluorohexane Acid (PFHxA)	307-24-4	Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
Ammonium perfluorohexanoate (APFHx)	21615-47-4	Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2
Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	Perfluorohexanoic anhydride	308-13-4
Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	Perfluorohexanoate (anion)	92612-52-7
Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-C6H15N)	565225-91-4
1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C10H14N2)	985-60-4		

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 19 of 45

Per- and Polyfluoroalkyl Substances (PFAS) - Polymers (545 PFAS)

Test Method: With reference to EN 17681-1:2025 and the Annex E. Analysis was conducted by HPLC-MS/MS and GC-MS.

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFOS, its salts			
Perfluorooctanesulfonic acid (PFOS), its salts [#]	1763-23-1	0.01	n.d.
PFOS-related substances			
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	0.10	n.d.
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	0.10	n.d.
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) ^α	1691-99-2	0.10	n.d.
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	0.10	n.d.
Perfluorooctane sulfonamide (PFOSA), its salts [#]	754-91-6	0.10	n.d.
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts [#]	2806-24-8	0.10	n.d.
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts [#]	2355-31-9	0.10	n.d.
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts [#]	2991-50-6	0.10	n.d.
Perfluoro-1-octanesulfonyl fluoride (PFOS-F) / Perfluorooctane sulfonic anhydride (PFOSAN) ⁺	307-35-7/ 423-92-7	0.10	n.d.
Sum of PFOS-related substances	--	--	n.d.
2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC) [§]	423-82-5	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 20 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFOA, its salts			
Perfluorooctanoic acid (PFOA), its salts ^{#α}	335-67-1	0.01	n.d.
PFOA-related substances			
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts ^{# @}	39108-34-4	0.10	n.d.
Perfluoro-1-iodooctane (PFOI) ^Δ	507-63-1	0.20	n.d.
2H,2H Perfluorodecane Acid (8:2 FTCA), its salts ^{# @ Δ}	27854-31-5	0.10	n.d.
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) ^{@ α}	678-39-7	0.10	n.d.
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) ^{@ Δ}	2043-53-0	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃) ^{@ Δ}	101947-16-4	0.20	n.d.
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts ^{# @}	678-41-1	0.10	n.d.
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts ^{# @}	34598-33-9	0.10	n.d.
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) ^{@ Δ}	21652-58-4	0.20	n.d.
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	0.10	n.d.
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl ₃) / 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃) ^{^^ @ Δ}	78560-44-8/ 83048-65-1	0.20	n.d.
2H-Perfluoro-2-decenoic acid (8:2 FTUCA) ^{@ Δ}	70887-84-2	0.10	n.d.
6:8 Perfluorophosphinic acid (6:8 PFPi) § ^Δ	610800-34-5	0.10	n.d.
8:8 Perfluorophosphinic acid (8:8 PFPi) its salts [#]	40143-79-1	0.10	n.d.
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts ^{# @}	57678-03-2	0.10	n.d.
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) ^{@ α}	865-86-1	0.10	n.d.
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH) [@]	39239-77-5	0.10	n.d.
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS), its salts ^{# @}	120226-60-0	0.10	n.d.
10:2 Fluorotelomerphosphatediester (10:2 diPAP), its salts ^{# @}	1895-26-7	0.10	n.d.
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) ^{@ Δ}	70887-94-4	0.10	n.d.
2-Perfluorodecyl ethanoic acid (10:2 FTCA) ^{@ Δ}	53826-13-4	0.10	n.d.
10:2 Fluorotelomerphosphatemonoester (10:2 monoPAP), its salts ^{# @}	57678-05-4	0.20	n.d.
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) ^{@ Δ}	2043-54-1	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 21 of 45

1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) @ Δ	30046-31-2	0.20	n.d.
Perfluorodecyl iodide (PFDI) @ Δ	423-62-1	0.20	n.d.
Perfluorododecyl iodide (PFDoDI) @ Δ	307-60-8	0.20	n.d.
Perfluorooctanoyl fluoride (PFOA-F) / Perfluorooctanoic Anhydride +	335-66-0 / 33496-48-9	0.10	n.d.
Sum of PFOA-related substances	--	--	n.d.
Methyl perfluorooctanoate (Me-PFOA); Ethyl perfluorooctanoate (Et-PFOA) \$ ^	376-27-2 / 3108-24-5	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @ \$	27905-45-9	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @ \$	1996-88-9	0.20	n.d.
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) @ \$	37858-04-1	0.20	n.d.
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) @ \$	37858-05-2	0.20	n.d.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) @ \$	17741-60-5	0.20	n.d.
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) @ \$	2144-54-9	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 22 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
C9-C14 PFCA, its salts			
Perfluorononane Acid (PFNA), its salts [#]	375-95-1	0.01	n.d.
Perfluorodecane Acid (PFDA), its salts [#]	335-76-2	0.01	n.d.
Perfluoroundecanoic Acid (PFUnDA), its salts [#]	2058-94-8	0.01	n.d.
Perfluorododecanoic Acid (PFDoDA), its salts [#]	307-55-1	0.01	n.d.
Perfluorotridecanoic Acid (PFTrDA), its salts [#]	72629-94-8	0.01	n.d.
Perfluorotetradecanoic Acid (PFTDA), its salts [#]	376-06-7	0.01	n.d.
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	0.01	n.d.
Sum of C9-C14 PFCA, its salts	--	--	n.d.
C9-C14 PFCA-related substances			
Perfluorodecane sulfonic Acid (PFDS), its salts [#]	335-77-3	0.10	n.d.
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) [@]	865-86-1	0.10	n.d.
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH) [@]	39239-77-5	0.10	n.d.
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS), its salts ^{#@}	120226-60-0	0.10	n.d.
1H,1H,2H,2H-Perfluorododecyl iodide (10:2 FTI) ^{@Δ}	2043-54-1	0.20	n.d.
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI) ^{@Δ}	30046-31-2	0.20	n.d.
Perfluorononane sulfonic acid (PFNS), its salts [#]	68259-12-1	0.10	n.d.
Perfluoroundecane sulfonic acid (PFUnDS), its salts [#]	749786-16-1	0.10	n.d.
Perfluorododecane sulfonic acid (PFDoDS), its salts [#]	79780-39-5	0.10	n.d.
Perfluorotridecane sulfonic acid (PFTrDS), its salts [#]	791563-89-8	0.10	n.d.
10:2 Fluortelomerphosphatediester (10:2 diPAP), its salts ^{#@}	1895-26-7	0.10	n.d.
Perfluorodecyl iodide (PFDI) ^{@Δ}	423-62-1	0.20	n.d.
Perfluorododecyl iodide (PFDoDI) ^{@Δ}	307-60-8	0.20	n.d.
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) ^{@Δ}	70887-94-4	0.10	n.d.
2-Perfluorodecyl ethanoic acid (10:2 FTCA) ^{@Δ}	53826-13-4	0.10	n.d.
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts ^{#@}	39108-34-4	0.10	n.d.
2H,2H Perfluorodecane Acid (8:2 FTCA) [@] , its	27854-31-5	0.10	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 23 of 45

salts# ^Δ			
1H,1H,2H,2H-Perfluorodecan-1-ol (8:2 FTOH) @ ^α	678-39-7	0.10	n.d.
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI) @ ^Δ	2043-53-0	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃) @ ^Δ	101947-16-4	0.20	n.d.
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-hepta decafluorodecyl) hydrogen phosphate (8:2 diPAP), its salts # @	678-41-1	0.10	n.d.
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA), its salts # @	34598-33-9	0.10	n.d.
1H,1H,2H-Heptadecafluoro-1-decene (PFDE) @ ^Δ	21652-58-4	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyltrichlorosilane (8:2 FTSiCl ₃) / 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane (8:2 FTSi(OCH ₃) ₃) ^{Λ, @, Δ}	78560-44-8/ 83048-65-1	0.20	n.d.
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP), its salts # @	57678-03-2	0.10	n.d.
10:2 Fluortelomerphosphatemonoester (10:2 monoPAP), its salts # @	57678-05-4	0.20	n.d.
2H-Perfluoro-2-decenoic acid (8:2 FTUCA) @ ^Δ	70887-84-2	0.10	n.d.
Sum of C9-C14-related substances	-	-	n.d.
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) @ ^{\$}	17741-60-5	0.20	n.d.
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA) @ ^{\$}	2144-54-9	0.20	n.d.
1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc) @ ^{\$}	37858-05-2	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) @ ^{\$}	27905-45-9	0.20	n.d.
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) @ ^{\$}	1996-88-9	0.20	n.d.
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc) @ ^{\$}	37858-04-1	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 24 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFHxS, its salts			
Perfluorohexanesulfonic acid (PFHxS), its salts [#]	355-46-4	0.01	n.d.
PFHxS-related substances			
N-Methylperfluoro-1-hexane sulfonamide (N-MeFHxSA)	68259-15-4	0.10	n.d.
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	0.10	n.d.
N-[3-(dimethylamino)propyl] tridecafluorohexane sulphonamide (N-AP-FHxSA)	50598-28-2	0.10	n.d.
N-Ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-1-hexanesulfonamide (Et-FHxSE) ^α	34455-03-3	0.20	n.d.
1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE) ^α	68555-75-9	0.10	n.d.
Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]- (EtFHxSAA), its salts [#]	68957-32-4	0.10	n.d.
Perfluorohexylsulfonyl fluoride (PFHxS-F) / Perfluorohexylsulfonyl chloride (PFHxS-Cl) +	423-50-7 / 55591-23-6	0.10	n.d.
Sum of PFHxS-related substances	--	--	n.d.
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) [§]	67584-57-0	0.20	n.d.
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl) sulfonyl]amino]ethyl ester (EtFHxSEMA) [§]	67906-70-1	0.20	n.d.
2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl) sulfonyl]amino]ethyl ester (MeFHxSEMA) [§]	67584-61-6	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 25 of 45

Test result per sample mass unit	CAS-No.	Reporting Limit mg/kg	Result
			A1
PFHxA, its salts			
Perfluorohexane Acid (PFHxA), its salts [#]	307-24-4	0.01	n.d.
PFHxA-related substances			
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) ^α	647-42-7	0.10	n.d.
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI) ^Δ	2043-57-4	0.20	n.d.
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS), its salts [#]	27619-97-2	0.10	n.d.
1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃) ^Δ	51851-37-7	0.50	n.d.
1H,1H,2H,2H-Perfluorooctyltrichlorosilane (6:2 FTSiCl ₃) /1H,1H,2H,2H-Perfluorooctyltrimethoxysilane (6:2 FTSi(OCH ₃) ₃) ^{^^, Δ}	78560-45-9/ 85857-16-5	0.20	n.d.
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I) ^Δ	355-43-1	0.20	n.d.
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane ^Δ	38550-34-4	0.20	n.d.
n-[3-(dimethylamino)propyl] 3,3,4,4,5,5,6,6,7,7,8,8,8 tridecafluorooctanesulphonamide n-oxide	80475-32-7	0.10	n.d.
thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester ^Δ	26650-09-9	0.20	n.d.
6:2 Fluorotelomer phosphate monoester (6:2 monoPAP), its salts [#]	57678-01-0	0.10	n.d.
2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA)	27854-30-4	0.10	n.d.
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH) ^Δ	34451-26-8	0.20	n.d.
1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl) ^Δ	102488-47-1	0.20	n.d.
1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI) ^Δ	212563-43-4	0.20	n.d.
4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI) ^Δ	89889-20-3	0.20	n.d.
Perfluorohexyl ethylphosphonic acid (6:2 FTPA), its salts [#]	252237-40-4	0.10	n.d.
1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-(5:1 FTOH)	423-46-1	0.20	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 26 of 45

2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH)	375-82-6	0.20	n.d.
4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH)	80806-68-4	0.20	n.d.
3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2sFTOH)	914637-05-1	0.20	n.d.
1-(perfluorohexyl)octane (F6H8) ^Δ	133331-77-8	0.20	n.d.
1H,1H-Tridecafluoroheptylamine (6:1 FTNH2) ^Δ	423-49-4	0.20	n.d.
2H-Perfluoro-2-octenoic acid (6:2 FTUCA) ^Δ	70887-88-6	0.20	n.d.
6:6 Perfluorophosphinic acid (6:6 PFPi), its salts# ^Δ	40143-77-9	0.10	n.d.
6:8 Perfluorophosphinic acid (6:8 PFPi) § ^Δ	610800-34-5	0.10	n.d.
2-Perfluorohexyl ethanoic acid (6:2 FTCA) ^Δ	53826-12-3	0.10	n.d.
3-Perfluoropentyl propanoic acid (5:3 FTCA), its salts#	914637-49-3	0.10	n.d.
n-(4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononyl) iodoacetamide ^Δ	852527-50-5	0.10	n.d.
Perfluoroheptanamide (PFHpA-NH2) ^Δ	2358-22-7	0.20	n.d.
6:2 Fluorotelomer phosphate diester (6:2 diPAP), its salts#	57677-95-9	0.10	n.d.
Perfluorohexanoyl fluoride (PFHxA-F) / Perfluorohexanoic anhydride / Perfluorohexanoyl chloride (PFHxA-Cl) +	355-38-4 / 308-13-4/ 335-53-5	0.10	n.d.
Sum of PFHxA-related substances	--	--	n.d.
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) §	17527-29-6	0.20	n.d.
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) §	2144-53-8	0.20	n.d.
Conclusion	--	--	PASS

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 27 of 45

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			A1
Other PFAS substances			
Perfluorobutane acid (PFBA), its salts [#]	375-22-4	1.0	n.d.
Perfluorobutanesulfonic acid (PFBS), its salts [#]	375-73-5	1.0	n.d.
Perfluoropentane acid (PFPeA), its salts [#]	2706-90-3	1.0	n.d.
Perfluoroheptane acid (PFHpA), its salts [#]	375-85-9	1.0	n.d.
Perfluoroheptanesulfonic acid (PFHpS), its salts [#]	375-92-8	1.0	n.d.
7H-Dodecanefluoroheptane acid (HPFHpA), its salts [#]	1546-95-8	1.0	n.d.
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) α	2043-47-2	1.0	n.d.
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HFPO-DA), its salts&isomers&derivatives [#]	13252-13-6	1.0	n.d.
1H, 1H, 2H, 2H-Perfluorohexanesulfonic Acid (4:2 FTS), its salts [#]	757124-72-4	1.0	n.d.
Perfluoropentane sulfonic acid (PFPeS), its salts [#]	2706-91-4	1.0	n.d.
Hexadecanoic acid, hentriacontafuoro- (PFHxDA), its salts [#]	67905-19-5	1.0	n.d.
Octadecanoic acid, pentatriacontafuoro- (PFODA), its salts [#]	16517-11-6	1.0	n.d.
4,8-Dioxa-3H-perfluorononanoic acid (ADONA), its salts [#]	919005-14-4	1.0	n.d.
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	1.0	n.d.
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	1.0	n.d.
Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	1.0	n.d.
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS), its salts [#]	756426-58-1	1.0	n.d.
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS), its salts [#]	763051-92-9	1.0	n.d.
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA) , its salts [#]	113507-82-7	1.0	n.d.
3-Perfluoropropyl propanoic acid (3:3 FTCA) , its salts [#]	356-02-5	1.0	n.d.
Perfluoropentadecanoic Acid (PFPeDA), its salts [#]	141074-63-7	1.0	n.d.
Perfluorobutane sulfon amides (PFBSA)	30334-69-1	1.0	n.d.
1,1,2,2,3,3,4,4,4-Nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulfonamide	34454-97-2	1.0	n.d.
11H-Perfluoroundecanoic acid (11H-PFU _n DA), its salts [#]	1765-48-6	1.0	n.d.
Pentafluoropropionic acid (PFPrA), its salts [#] Δ	422-64-0	1.0	n.d.
Hexafluoropropylene oxide trimer acid (HFPO-TA), its salts [#]	13252-14-7	1.0	n.d.
Perfluoroethane sulfonic acid (PFEtS) , its salts [#]	354-88-1	1.0	n.d.

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 28 of 45

6:2 Fluorotelomer phosphate diester (6:2 diPAP), its salts [#]	57677-95-9	1.0	n.d.
Bis(trifluoromethane)sulfonimide (TFSI) its salts [#]	82113-65-3	1.0	n.d.
Trifluoromethane sulfonic acid (TFMS) , its salts ^{# Δ}	1493-13-6	1.0	n.d.
Perfluoropropate sulfonic acid (PFPrS), its salts [#]	423-41-6	1.0	n.d.
1-pefluoroheptyl ethanol (7:2 secondary) (7:2sFTOH) ^Δ	24015-83-6	1.0	n.d.
4:2 Fluorotelomer iodide (4:2 FTI) ^Δ	2043-55-2	1.0	n.d.
Perfluoroheptane-1-sulfonic acid (PFHpSi), its salts [#]	769067-51-8	1.0	n.d.
Perfluorooctylphosphoic acid (PFOPA), its salts ^{# Δ}	40143-78-0	1.0	n.d.
1H,1H-Perfluorooctylamine (7:1 FTNH ₂) ^Δ	307-29-9	1.0	n.d.
N-methylperfluoro-1-butanefulfonamide (MeFBSA)	68298-12-4	1.0	n.d.
Trifluoroacetic acid (TFA) , its salts ^{# Δ}	76-05-1	1.0	n.d.
1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA) [§]	52591-27-2	1.0	n.d.
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) [§]	1799-84-4	1.0	n.d.
Perfluorobutyramide (PFBA-NH ₂) [§]	662-50-0	1.0	n.d.
Conclusion	--	--	INFO only
Sum of PFAS	--	--	n.d.
Overall Conclusion	--	--	PASS

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 29 of 45

Note:

n.d. = not detected

* = Exceeds the limit

@ PFAS classified as both PFOA-related substances and C9-C14 PFCA-related substances

§ PFAS classified as both PFOA-related substances and PFHxA-related substances.

^ As the extraction is performed with Methanol, EtPFOA will convert to MePFOA. Thus, the sum of both is considered and calculated.

^^ 8:2 FTSiCl3 cannot be analytically distinguished from 8:2 FTSi(OCH3)3 with current method. Thus, the sum of both is considered and calculated. The same is applied to (6:2 FTSiCl3) and 6:2 FTSi(OCH3)3.

+ These PFAS substances will be reported as their acid forms because of the possible conversion in the test conditions.

Salts or derivatives of the substance are listed in Appendix 1

° The possible source of substances are listed in Appendix 2

△ These PFAS can undergo degradation or cannot be directly analyzed by GC-MS, when treated with strong alkaline solvents. Therefore, the extractable content of these PFAS in the sample is determined by the methanol extraction described in Annex E.

§ These PFAS are likely hydrolyzed to release other concerned PFAS listed in Appendix 2 and contribute to the total amount of the related PFAS if present in the sample, when treated with strong alkaline solvents. Therefore, the extractable content of these PFAS in the sample is determined by the methanol extraction described in Annex E. However, these PFAS are not taken into the consideration in the total amount of the respective PFAS groups.

Requirement:

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

PFOS-related substances 1 mg/kg (total)

Reference to Regulation (EU) 2025/718 amending Part A to Annex I to Regulation (EU) 2019/1021

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

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

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

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

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

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

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

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

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

PFHxA, its salts 25 ppb (0.025 mg/kg) (total)

PFHxA-related substances 1 mg/kg (total)

Reference to Regulation Regulation (EU) 2024/2462 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council as regards undecafluorohexanoic acid (PFHxA), its salts and PFHxA-related substances.

PFAS (polymeric PFAS excluded)

Sum of PFAS (targeted PFAS analysis, where 25 ppb (0.025 mg/kg)

applicable with prior degradation of precursors, 250 ppb (0.25 mg/kg)

polymeric PFAS excluded)

Reference to Regulation (EU) 2025/40 on packaging and packaging waste.

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AB-0690-T
TR2785889
04-26

TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 30 of 45

Other PFAS

Information only

Doc. No.: CTSL-F-5.10-98NF / First Publish Date: 28.08.2014 / Revision Date / No.:7.03.2024 / 10

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 31 of 45

Appendix 1 – List of individual PFAS, its salts and derivatives

Note: The listed salts/derivatives are analyzed through their corresponding PFAS.

Substances	CAS No.	Substances	CAS No.
PFOA, its salts & derivatives			
Perfluorooctanoic Acid (PFOA)	335-67-1	Pentadecafluorooctanoate (anion)	45285-51-6
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	Perfluorooctanoic Anhydride	33496-48-9
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	Perfluorooctanoate	32609-65-7
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	N,N,N-Trimethylmethanaminium	277749-00-5
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	Tetrapropylammonium perfluorooctanoate	98065-31-7
Ammonium perfluorooctanoate (APFO)	3825-26-1	Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂)	1376936-03-6
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6	Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	95658-47-2
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9	Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N)	1514-68-7
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium (PFOA-Cr3+)	68141-02-6	Pentadecafluorooctanoic acid-1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	927835-01-6
Pentadecafluorooctanoic acid—piperazine (PFOA-NH(C ₄ H ₁₀ N))	423-52-9	N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate	
8:2 FTCA, its salts			
2H,2H Perfluorodecane Acid (8:2 FTCA)	27854-31-5	Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
PFOS, its salts & derivatives			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Potassium perfluorooctane sulfonate (PFOS-K)	2795-39-3	Perfluorooctanesulfonate	45298-90-6
Sodium perfluorooctane sulfonate (PFOS-Na)	4021-47-0	Triethylammonium perfluorooctane sulfonate (PFOS-NH(C ₂ H ₅) ₃)	54439-46-2
Lithium perfluorooctane sulfonate (PFOS-Li)	29457-72-5	Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5
Ammonium perfluorooctane sulfonate (PFOS-NH ₄)	29081-56-9	N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8	N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) / PFOS-TEA	56773-42-3	Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
Magnesium bis(heptadecafluoro octanesulphonate) (PFOS-Mg)	91036-71-4	1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
Perfluoro-1-octanesulfonyl fluoride (PFOS-F)	307-35-7	N,N,N-Triethyldecane-1-aminium	773895-92-4

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 32 of 45

		heptadecafluorooctane-1-sulfonate	
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6	Tetrabutylphosphonium perfluorooctane sulfonate	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-C4H11N)	2205029-08-7	Heptyldimethyl(2-[(2-methylprop-2-enyl)oxy]ethyl)azanium heptadecafluorooctane-1-sulfonate (PFOS-C15H30NO2)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7		
PFNA, its salts & derivatives			
Perfluorononane Acid (PFNA)	375-95-1	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-ethylethanamine (1:1) (PFNA-N(C4H11))	77032-27-0
Sodium heptadecafluorononanoate (PFNA-Na)	21049-39-8	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with N-methylmethanamine (1:1) (PFNA-N(C2H7))	77032-24-7
Perfluorononanoate ammonium salt (PFNA-NH ₄)	4149-60-4	Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9Cl) (PFNA-N(C6H15))	327176-80-7
Potassium perfluorononanoate (PFNA-K)	21049-38-7	Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9Cl) (PFNA-N(C5H11))	95682-66-9
Lithium perfluorononanoate (PFNA-Li)	60871-92-3	Nonanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-, compd. with benzenamine (1:1) (PFNA-N(C6H7))	95682-67-0
Silver perfluorononanoate (PFNA-Ag)	7358-16-9	Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9Cl) (PFNA-N(C6H13))	328531-06-2
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6	Perfluorononanoate (anion)	72007-68-2
4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C11H12N4O3S)	298703-33-0	Perfluorononanoic anhydride (PFNAA)	228407-54-3
PFDA, its salts			
Perfluorodecane Acid (PFDA)	335-76-2	Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Sodium nonadecafluorodecanoate (PFDA-Na)	3830-45-3	Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7	Perfluorodecanoate (anion)	73829-36-4
Potassium perfluorodecanoate (PFDA-K)	51604-85-4	Perfluorodecanoic anhydride (PFDA)	942199-24-8
PFUnDA, its salts			
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Sodium perfluoroundecanoate (PFUnDA-Na)	60871-96-7	Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5	Perfluoroundecanoate (anion)	196859-54-8
PFDODA, its salts			
Perfluorododecanoic Acid (PFDODA)	307-55-1		
Ammonium tricosafuorododecanoate (PFDODA-NH ₄)	3793-74-6	Perfluorododecanoate (anion)	171978-95-3
PFDS, its salts & derivatives			
Perfluorodecane sulfonic Acid (PFDS)	335-77-3	Perfluorodecanesulfonic acid ammonium salt (PFDS-NH ₄)	67906-42-7

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 33 of 45

Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7	Perfluorodecane sulfonate (anion)	126105-34-8
Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8	Perfluorodecane sulfonic anhydride (PFDSA)	51667-62-0
8:3 FTCA, its salts			
2H,2H,3H,3H-Perfluoroundecanoic Acid (8:3 FTCA)	34598-33-9	2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li)	67304-23-8
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K)	83310-58-1		
PFHxS, its salts & derivatives			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	Bis(4-tert-butylphenyl)iodanium tridecafluorohexane-1-sulfonate	213740-81-9
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, sodium salt (PFHxS-Na)	82382-12-5	Bis(4-methylphenyl)(phenyl)sulfanium tridecafluorohexane-1-sulfonate	341548-85-4
Potassium perfluorohexane-1-sulphonate (PFHxS-K)	3871-99-6	Sulfonium, (thiodi-4,1-phenylene)bis[diphenyl-, salt with perfluorohexanesulfonic acid (1:2)	421555-73-9
Perfluorohexane Sulfonic acid, lithium salt (PFHxS-Li)	55120-77-9	Perfluorohexanesulfonic acid, Gallium(3+) salt (3:1) (PFHxS-Ga)	341035-71-0
Perfluorohexane Sulfonic acid, ammonium salt (PFHxS-NH ₄)	68259-08-5	Perfluorohexanesulfonic acid, Scandium(3+) salt (3:1) (PFHxS-Sc)	350836-93-0
Benzyltriphenylphosphonium tridecafluorohexane-1-sulfonate (PFHxS-BTPP)	1000597-52-3	Perfluorohexanesulfonic acid, Neodymium(3+) salt (3:1) (PFHxS-Nd)	41184-65-0
N,N,N-Tributylbutan-1-aminium tridecafluorohexane-1-sulfonate	108427-54-9	Perfluorohexanesulfonic acid, Yttrium(3+) salt (3:1) (PFHxS-Y)	41242-12-0
Tetraethylammonium perfluorohexane sulfonate	108427-55-0	Cesium perfluorohexanesulfonate (PFHxS-Cs)	92011-17-1
Tridecafluorohexane-1-sulfonic acid-pyrrolidine	1187817-57-7	Perfluorohexanesulfonic acid, Zinc salt (PFHxS-Zn)	70136-72-0
4-[[4-(Diethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-diethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-24-0	Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, perfluorohexanesulfonate (1:1)	421555-74-0
4-[[4-(Dimethylamino)phenyl][4-(ethylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-27-3	Tris(4-tert-butylphenyl)sulfanium tridecafluorohexane-1-sulfonate	425670-70-8
4-[[4-(Dimethylamino)phenyl][4-(phenylamino)naphthalen-1-yl]methylidene]-N,N-dimethylcyclohexa-2,5-dien-1-iminium tridecafluorohexane-1-sulfonate	1310480-28-4	Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-16-0
Beta-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-45-0	Triethylammonium perfluorohexane sulfonate	72033-41-1
Gamma-Cyclodextrin, compd. with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexane-1-sulfonate	1329995-69-8	Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with perfluorohexanesulfonic acid (1:1)	866621-50-3
Triphenylsulfanium tridecafluorohexane-1-sulfonate (TPS-PFHxS)	144116-10-9	(4-Methylphenyl)diphenylsulfanium tridecafluorohexane-1-sulfonate	910606-39-2
1-(Carboxymethyl)-4-(2-{4-[4-(2,2-diphenylethenyl)phenyl]-1H,2H,3H,3aH,4H,8bH-cyclopenta[b]indol-7-yl}ethenyl)quinolin-1-ium tridecafluorohexane-1-sulfonate	1462414-59-0	{4-[(2-Methylprop-2-enoyl)oxy]phenyl}diphenylsulfanium tridecafluorohexane-1-sulfonate	911027-68-4
Diphenyliodonium tridecafluorohexane-1-sulfonate	153443-35-7	Dibenzo[k,n][1,4,7,10,13]tetraoxathiacyclopentadecinium,	928049-42-7

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 34 of 45

		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-hexane sulfonate (1:1)	
Tetramethylammonium perfluorohexane sulfonate (PFHxS-TMA)	189274-31-5	Perfluorohexylsulfonyl fluoride (PFHxS-F)	423-50-7
Tert-butylazanium; 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexane sulfonate	202189-84-2	Perfluorohexylsulfonyl chloride (PFHxS-Cl)	55591-23-6
Sulfonium, [4-[(2-methyl-1-oxo-2-propenyl)oxy]phenyl]diphenyl-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexane sulfonic 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	911027-69-5	Perfluorohexane sulfonate (anion)	108427-53-8
Tetrabutylphosphonium perfluorohexane sulfonate	2310194-12-6		
PFHxA, its salts & derivatives			
Perfluorohexane Acid (PFHxA)	307-24-4	Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
Ammonium perfluorohexanoate (APFHx)	21615-47-4	Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4	Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl)	423-47-2
Potassium perfluorohexanoate (PFHxA-K)	3109-94-2	Perfluorohexanoic anhydride	308-13-4
Silver perfluorohexanoate (PFHxA-Ag)	336-02-7	Perfluorohexanoate (anion)	92612-52-7
Perfluorohexanoyl chloride (PFHxA-Cl)	335-53-5	Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-C6H15N)	565225-91-4
1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C10H14N2)	985-60-4		
PFBA, its salts			
Perfluorobutane Acid (PFBA)	375-22-4	Silver perfluorobutanoate (PFBA-Ag)	3794-64-7
Sodium perfluorobutanoate (PFBA-Na)	2218-54-4	Lithium perfluorobutanoate (PFBA-Li)	4146-76-3
Potassium heptafluorobutanoate (PFBA-K)	2966-54-3	Butanoic acid, heptafluoro-, compd. with piperazine (2:1) (9Cl)	375-04-2
Ammonium perfluorobutanoate (PFBA-NH ₄)	10495-86-0	Perfluorobutanoate (anion)	45048-62-2
PFBS, its salts & derivatives			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0
Potassium perfluorobutanesulfonate (PFBS-K)	29420-49-3	Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	867373-18-0
Perfluorobutane sulfonic acid hydrate (PFBS-H ₂ O)	59933-66-3	Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7
Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1	1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 35 of 45

Lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5	1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1001557-05-6
Ammonium perfluorobutanesulfonate (PFBS-NH ₄)	68259-10-9	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
Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3	Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl] diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	857285-80-4
Triphenylsulfonium perfluorobutanesulfonate (TPS-PFBS)	144317-44-2	1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	124472-66-8
Tetrabutyl-phosphonium perfluorobutanesulfonate	220689-12-3	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1)	502457-69-4
N,N,N,-Triethylethanaminium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulfonate	25628-08-4	1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	56773-55-8
N-Morpholinium perfluorobutanesulfonate	503155-89-3	Perfluorobutanesulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5
Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate	194999-85-4	1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4
1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonic acid, compound with 2,2'-iminodiethanol (1:1)	70225-18-2	Perfluorobutane sulfonate (anion)	45187-15-3
Perfluorobutanesulfonyl fluoride (PFBS-F)	375-72-4	1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate	EC: 468-770-4
Perfluorobutanesulphonyl chloride (PFBS-Cl)	2991-84-6	Triethylammonium perfluorobutane sulfonate	182059-38-7
Sulfonium, dimethylphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	220133-51-7	N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanesulfonate (1:1)	334529-55-4
Thiophenium, 1-(4-butoxy-1-naphthalenyl)tetrahydro-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	209482-18-8	1-Hexadecylpyridinium perfluoro-1-butanesulfonate	334529-62-3
1-Butanaminium, N,N,N-tributyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) Tetrabutylammonium nonafluorobutanesulfonate	108427-52-7	1-Butylpyridinium perfluoro-1-butanesulfonate	334529-64-5
Iodonium, diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	194999-82-1	N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanesulfonate	495417-51-1
Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	241806-75-7	Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanesulfonic acid (1:1)	722538-68-3
PFPeA, its salts & derivatives			
Perfluoropentane Acid (PFPeA)	2706-90-3	Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3
Sodium perfluoropentanoate (PFPeA-Na)	2706-89-0	Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4
Potassium perfluoropentanoate (PFPeA-K)	336-23-2	Perfluoropentanoate	45167-47-3
Ammonium perfluoropentanoate (PFPeA-NH ₄)	68259-11-0	Nonafluoropentanoic acid - 1-benzylthiourea (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S)	64808-55-5

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 36 of 45

Perfluoropentanoic anhydride (PFPeAA)	308-28-1		
PFHpA, its salts			
Perfluoroheptane Acid (PFHpA)	375-85-9	Caesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6
Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5	Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5
Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5	Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1
Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4	Perfluoroheptanoate (anion)	120885-29-2
PFHpS, its salts & derivatives			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9
Sodium perfluoroheptanesulfonate (PFHpS-Na)	21934-50-9	Perfluoroheptane sulfonate	146689-46-5
Potassium perfluoroheptanesulfonate (PFHpS-K)	60270-55-5	Triethylammonium perfluoroheptane sulfonate	72033-40-0
Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4	Tetraethylammonium perfluoroheptane sulfonate	439863-97-5
Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9	Perfluoroheptane sulfonic anhydride (PFHpSA)	140429-92-1
HFPO-DA, its salts & derivatives & isomers			
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (HFPO-DA)	13252-13-6	Perfluoro(2-propoxypropanoate)	122499-17-6
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)- (isomer)	75579-39-4	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)prop anoic acid--N-propylpropan-1-amine (1/1)	165951-17-7
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)- (isomer)	75579-40-7	Triethylammonium perfluoro-2-propoxypropanoate	165951-18-8
Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, ammonium salt (HFPO-DA-NH ₄)	62037-80-3	4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propa noate	298703-31-8
Potassium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propio nate (HFPO-DA-K)	67118-55-2	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionyl fluoride (HFPO-DA-F)	2062-98-8
Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propa noate	67963-75-1	2,3,6-Triiodobenzoic acid (1-methyl-3-piperidiny)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-C14H16I3NO2)	2412106-69-3
PFPeS, its salts & derivatives			
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sul phonate	70225-17-1
Sodium perfluoropentanesulfonate (PFPeS-Na)	630402-22-1	Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6
Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1	Perfluoropentane sulfonate (anion)	175905-36-9
Ammonium perfluoropentanesulfonate (PFPeS-NH ₄)	68259-09-6	Triethylammonium perfluoropentane sulfonate	72033-42-2
Perfluoropentane sulfonic anhydride (PFPeSA)	161877-72-1		
PFNS, its salts			
Perfluorononane sulfonic acid (PFNS)	68259-12-1	Ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Sodium perfluorononanesulfonate (PFNS-Na)	98789-57-2	Perfluorononane sulfonate (anion)	474511-07-4

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 37 of 45

Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5		
PFUnDS, its salts			
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1	Perfluoroundecanesulfonate (anion)	441296-91-9
PFDoDS, its salts			
Perfluorododecane sulfonic acid (PFDoDS)	79780-39-5	Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3
Sodium perfluorododecanesulfonate (PFDoDS-Na)	1260224-54-1	Perfluorododecane sulfonate (anion)	343629-43-6
PFTrDS, its salts			
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8	Sodium perfluorotridecanesulfonate (PFTrDS-Na)	174675-49-1
8:2 diPAP, its salts			
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) hydrogen phosphate (8:2 diPAP)	678-41-1	Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2diPAP-NH4)	93776-20-6
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2 diPAP-Na)	114519-85-6	8:2 Fluorotelomer phosphate diester ion (1-)	1411713-91-1
Bis(2-hydroxyethyl)ammonium bis(perfluorooctyl)ethyl hydrogen phosphate	57677-97-1		
8:2 FTS, its salts			
1H,1H,2H,2H-Perfluorododecanesulfonic acid (8:2 FTS)	39108-34-4	Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na)	27619-96-1
Potassium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-K)	438237-73-1	Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH4)	149724-40-3
2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion))	481071-78-7		
PFOSA, its salts			
Perfluorooctane sulfonamide (PFOSA)	754-91-6	Perfluorooctanesulfonamide Potassium salt (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	Perfluorooctanesulfonamide Ammonium salt (PFOSA-NH4)	76752-72-2
Perfluorooctanesulfonamide Sodium salt (PFOSA-Na)	76752-78-8	Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C6H15N)	76752-82-4
PFTrDA, its salts			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	Perfluorotridecanoate (anion)	862374-87-6
Ammonium perfluorotridecanoate (PFTrDA-NH4)	4288-72-6	Sodium perfluorotridecanoate (PFTrDA-Na)	60872-01-7
PFTDA, its salts			
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	Perfluorotetradecanoate (anion)	365971-87-5
11H-PFUnDA, its salts			
11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH4)	5081-02-7
Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-K)	307-71-1	11-H-Perfluoroundecanoate (11H-PFUnDA(anion))	69681-37-4
HPFHpA, its salts			
7H-Dodecafluoroheptane Acid (HPFHpA)	1546-95-8	Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH4)	376-34-1

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 38 of 45

Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7	7-H-Perfluoroheptanoate (HPFHpA(anion))	69681-35-2
6:2 FTS, its salts			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2	6:2 Fluorotelomer sulfonate ammonium salt (6:2 FTS-NH4)	59587-39-2
6:2 Fluorotelomer sulfonate sodium salt (6:2 FTS-Na)	27619-94-9	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-, barium salt (2:1) (6:2 FTS-Ba)	1807944-82-6
6:2 Fluorotelomer sulfonate potassium salt (6:2 FTS-K)	59587-38-1	2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion))	425670-75-3
4:2 FTS, its salts			
1H, 1H, 2H, 2H-Perfluorohexanesulfonic Acid (4:2 FTS)	757124-72-4	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt (4:2 FTS-Na)	27619-93-8
4:2 Fluorotelomer sulfonate (4:2FTS(anion))	414911-30-1		
ADONA, its salts			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3
Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH4)	958445-44-8		
9Cl-PF3ONS, its salts			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfoni c acid (9Cl-PF3ONS)	756426-58-1	Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfon ate	1383434-28-3
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfona te	73606-19-6		
11Cl-PF3OUdS, its salts			
11-Chloroeicosafuoro-3-oxaundecane-1-sulfoni c acid	763051-92-9	Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfon ate	83329-89-9
PFPPrA, its salts			
Pentafluoropropionic acid (PFPPrA)	422-64-0	Potassium pentafluoropropionate (PFPPrA-K)	378-76-7
Sodium pentafluoropropionate (PFPPrA-Na)	378-77-8	Ammonium pentafluoropropionate (PFPPrA-NH4)	2730-58-7
Silver pentafluoropropionate (PFPPrA-Ag)	509-09-1		
HFPO-TA, its salts & derivatives			
Hexafluoropropylene oxide trimer acid (HFPO-TA)	13252-14-7	Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH4)	13043-05-5
Propanoic acid, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]-, potassium salt (HFPO-TA-K)	67118-57-4	Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F)	2641-34-1
Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na)	67963-76-2		
EtFHxSAA, its salts			

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 39 of 45

Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]- (EtFHxSAA)	68957-32-4	Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4
Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6		
10:2 FTS, its salts			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	1H,1H,2H,2H-Perfluorododecane sulfonic acid sodium salt (10:2 FTS-Na)	108026-35-3
8:8 PFPI, its salts			
8:8 Perfluorophosphinic acid (8:8 PFPI)	40143-79-1	Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na)	500776-69-2
Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er)	500776-70-5	Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb)	500776-71-6
8:2 monoPAP, its salts			
8:2 Fluorotelomer phosphate monoester (8:2 monoPAP)	57678-03-2	8:2 Fluorotelomer diammonium phosphate	93857-44-4
Disodium 1H,1H,2H,2H-perfluorodecylphosphate	438237-75-3	Ammonium bis[2-(perfluorohexyl)ethyl] phosphate	1764-95-0
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctanol phosphate ammonium salt	92401-44-0	Sodium 1H,1H,2H,2H-perfluorooctylphosphate	144965-22-0
Monopotassium monoperofluorohexyl ethylphosphate	150033-28-6	Ammonium 2-(perfluorohexyl)ethyl hydrogen phosphate	2353-52-8
FOSAA, its salts			
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts			
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5		
N-EtFOSAA, its salts			
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH4)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9		
10:2 diPAP, its salts			
10:2 Fluorotelomerphosphatediester (10:2 diPAP)	1895-26-7	Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C4H11O2)	57677-98-2
6:2 monoPAP, its salts			
6:2 Fluorotelomer phosphate monoester (6:2 monoPAP)	57678-01-0	Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH4NH4)	1000852-37-8

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 40 of 45

6:2 FTPA, its salts			
Perfluorohexyl ethylphosphonic acid (6:2 FTPA)	252237-40-4	Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP 2OH-Na(PFHEPA-Na))	1189052-95-6
6:6 PFPI, its salts			
6:6 Perfluorophosphinic acid (6:6 PFPI)	40143-77-9	Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPI-Na)	70609-44-8
Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt	500776-72-7 (6:6 PFPI-Yb)	Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPI-Er)	500776-73-8
PFHxDA, its salts			
Hexadecanoic acid, hentriacontafuoro-(PFHxDA)	67905-19-5	Hentriacontafuoroheptadecanoate anion (PFHxDA(anion))	1214264-30-8
PFODA, its salts			
Octadecanoic acid, pentatriacontafuoro-(PFODA)	16517-11-6	Perfluorooctadecanoate anion (PFODA(anion))	798556-82-8
PFPeDA, its salts			
Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	Nonacosafuoropentadecanoate (PFPeDA(anion))	1214264-29-5
6:2 diPAP, its salts			
6:2 Fluorotelomer phosphate diester (6:2 diPAP)	57677-95-9	Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na)	407582-79-0
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		
TFSI, its salts			
Bis(trifluoromethane)sulfonimide (TFSI)	82113-65-3	1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide	223437-11-4
Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide	405514-94-5	Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li)	90076-65-6
1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide	433337-23-6		
10:2 monoPAP, its salts			
10:2 Fluorotelomerphosphatemonoester (10:2 monoPAP)	57678-05-4	10:2 Fluorotelomer diammonium dihydrogen phosphate	93857-45-5
TFMS, its salts & derivatives			
Trifluoromethane sulfonic acid (TFMS)	1493-13-6	Trifluoromethane sulfonic acid Sodium salt (TFMS-Na)	2926-30-9
Silver trifluoromethanesulfonate (TFMS-Ag)	2923-28-6	Zinc trifluoromethanesulfonate (TFMS-Zn)	54010-75-2
Scandium trifluoromethanesulfonate (TFMS-Sc)	144026-79-9	Trifluoromethanesulfonic anhydride	358-23-6
Lithium trifluoromethanesulfonate (TFMS-Li)	33454-82-9	Copper(II) trifluoromethanesulfonate (TFMS-Cu)	34946-82-2
Barium trifluoromethanesulfonate (TFMS-Ba)	2794-60-7	Cerium(IV) trifluoromethanesulfonate (TFMS-Ce)	107792-63-2
Magnesium trifluoromethanesulfonate (TFMS-Mg)	60871-83-2	Potassium trifluoromethanesulfonate (TFMS-K)	2926-27-4
Nickel(II) Trifluoromethanesulfonate (TFMS-Ni)	60871-84-3	Tin(II) trifluoromethanesulfonate (TFMS-Sn)	62086-04-8

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 41 of 45

Yttrium(III) trifluoromethanesulfonate (TFMS-Y)	52093-30-8	Iron(III) trifluoromethanesulfonate (TFMS-Fe)	63295-48-7
Cerium(III) Trifluoromethanesulfonate (TFMS-Ce)	76089-77-5	Tetrabutylammonium trifluoromethanesulfonate	35895-70-6
Methyltrioctylammonium trifluoromethanesulfonate	121107-18-4	Imidazole trifluoromethanesulfonate	29727-06-8
Trifluoroacetyl Trifluoromethanesulfonate	68602-57-3	Lanthanum(III) trifluoromethanesulfonate (TFMS-La)	52093-26-2
Indium(III) trifluoromethanesulfonate (TFMS-In)	128008-30-0	Samarium(III) trifluoromethanesulfonate (TFMS-Sm)	52093-28-4
Ytterbium(III) trifluoromethanesulfonate (TFMS-Yb)	54761-04-5	Thulium(III) trifluoromethanesulfonate (TFMS-Tm)	141478-68-4
Tetraethylammonium trifluoromethanesulfonate	35895-69-3	1-Fluoro-3,5-dichloropyridinium triflate	107264-06-2
Triethylamine salt of trifluoromethanesulfonic acid	646-58-2	Triphenylphosphonium anhydride triflate	72450-51-2
N,N-Diethyl-6-(diethylamino)-9-(2-(methoxycarbonyl)phenyl)-3H-xanthene-3-ylideneammonium trifluoromethanesulfonate	120611-30-5	Diphenylammonium Trifluoromethanesulfonate	164411-06-7
1-(3-aminoazetidin-1-yl)prop-2-en-1-one, trifluoromethanesulfonic acid	2060047-56-3	Guanidine trifluoromethanesulfonic acid	153756-25-3
Trifluoromethanesulfonic acid--1-ethyl-1H-imidazole (1/1)	501693-46-5	Ruthenium(3+), (OC-6-22)-, salt with trifluoromethanesulfonic acid (1:3)	74468-24-9
O-Pivaloylhydroxylamine trifluoromethanesulfonate	1293990-73-4	Trifluoromethanesulfonyl chloride	421-83-0
(2-Pyridylmethyl)sulfonyl chloride triflate	882564-09-2	Trifluoromethanesulfonyl bromide	15458-53-4
Mercury(II) trifluoromethanesulfonate (TFMS-Hg)	49540-00-3	Dysprosium(III) tris(trifluoromethanesulfonate) (TFMS-Dy)	139177-62-1
Manganese bis(trifluoromethanesulfonate) (TFMS-Mn)	55120-76-8	Pentaammine(trifluoromethanesulfonato)osmium(III) triflate	83781-30-0
Lutetium(III) trifluoromethanesulfonate (TFMS-Lu)	126857-69-0	Terbium(III) trifluoromethanesulfonate (TFMS-Tb)	148980-31-8
Neodymium(III) trifluoromethanesulfonate (TFMS-Nd)	34622-08-7	Ammonium trifluoromethanesulfonate (TFMS-NH4)	38542-94-8
Holmium(III) trifluoromethanesulfonate (TFMS-Ho)	139177-63-2	Trifluoromethanesulfonate	37181-39-8
Praseodymium(III) trifluoromethanesulfonate (TFMS-Pr)	52093-27-3	Bismuth(III) trifluoromethanesulfonate (TFMS-Bi)	88189-03-1
Europium(III) trifluoromethanesulfonate (TFMS-Eu)	52093-25-1	Erbium(III) trifluoromethanesulfonate (TFMS-Er)	139177-64-3
Gallium(III) trifluoromethanesulfonate (TFMS-Ga)	74974-60-0	N,N,N-Triethyl-2,2,2-trifluoroethan-1-aminium trifluoromethanesulfonate	380230-73-9
Methanesulfonic acid, trifluoro-, calcium salt (TFMS-Ca)	55120-75-7	Thallium(1+) trifluoromethanesulfonate (TFMS-Tl)	73491-36-8
Hafnium(IV) Trifluoromethanesulfonate (TFMS-Hf)	161337-67-3		
PFPrS, its salts			

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 42 of 45

Perfluoropropate sulfonic acid (PFPrS)	423-41-6	Perfluoropropanesulfonic acid sodium salt (PFPrS-Na)	359868-82-9
PFOPa, its salts			
Perfluorooctylphosphonic acid (PFOPA)	40143-78-0	(Heptadecafluorooctyl)phosphonic acid--4-methylaniline(1:1)	1263361-03-0
PFHpSi, its salts			
Perfluoroheptane-1-sulfinic acid (PFHpSi)	769067-51-8	1-heptanesulfinic Acid Sodium Salt (PFHpSi-Na)	68555-66-8
5:3-FTCA its salts			
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	2H,2H,3H,3H-Perfluorooctanoate (anion) 5:3 FTCA (anion)	1799325-94-2
PFEESA, its salts			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	113507-82-7	Potassium perfluoro(2-ethoxyethane) sulfonate (PFEESA-K)	117205-07-9
Sodium perfluoro(2-ethoxyethane) sulfonate (PFEESA-Na)	113507-87-2		
3:3 FTCA, its salts			
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	4,4,5,5,6,6,6-Heptafluorohexanoate (3:3 FTCA(anion))	1169706-83-5
PFEtS, its salts			
Perfluoroethane sulfonic acid (PFEtS)	354-88-1	Pentafluoroethanesulfonate (PFEtS (anion))	108410-37-3
Potassium pentafluoroethane-1-sulfonate (PFEtS-K)	2837-92-5		
TFA, its salts			
Trifluoroacetic acid (TFA)	76-05-1	Sodium trifluoroacetate (TFA-Na)	2923-18-4
Thallium(III) trifluoroacetate (TFA-Tl)	23586-53-0	Lithium Trifluoroacetate (TFA-Li)	2923-17-3
Silver trifluoroacetate (TFA-Ag)	2966-50-9	Cesium Trifluoroacetate (TFA-Cs)	21907-50-6
Potassium trifluoroacetate (TFA-K)	2923-16-2	Ammoniumtrifluoroacetate (TFA-NH4)	3336-58-1
Mercury(II) trifluoroacetate (TFA-Hg)	13257-51-7	Palladium(II) trifluoroacetate (TFA-Pd)	42196-31-6
Trifluoroacetate / Trifluoroacetic acid anion (TFA anion)	14477-72-6	Dimethyl[(trifluoroacetyl)oxy]sulfanium trifluoroacetate	57738-66-6
Aluminium tris(trifluoroacetate)+D586 (TFA-Al)	36554-89-9	Barium bis(trifluoroacetate) (TFA-Ba)	60884-92-6
Erbium tris(trifluoroacetate) (TFA-Er)	70236-99-6	Indium trifluoroacetate (TFA-In)	36554-90-2
Lanthanum tris(trifluoroacetate) (TFA-La)	70236-92-9	Nickel(2+) trifluoroacetate (TFA-Ni)	16083-14-0
Lead(II) trifluoroacetate (TFA-Pb)	4146-73-0	Acetic acid, trifluoro-, rhodium(2+) salt (TFA-Rh)	72654-51-4
Thulium tris(trifluoroacetate) (TFA-Tm)	70237-00-2	Ytterbium(3+) tris(trifluoroacetate) (TFA-Yb)	87863-62-5

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AB-0690-T
TR2785889
04-26

TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 43 of 45

Zinc bis(trifluoroacetate) (TFA-Zn)	21907-47-1	Ruthenium(II) 2,2,2-trifluoroacetate (TFA-Ru)	61612-84-8
Magnesium 2,2,2-trifluoroacetate (TFA-Mg)	123333-72-2	Copper(2+) trifluoroacetate (TFA-Cu)	123333-88-0

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 44 of 45

Appendix 2 – The listed substances are likely hydrolyzed and released to corresponding PFAS when treated with strong alkaline solvents. It contributes to the amount of corresponding PFAS if present in the sample.

Substances	CAS No.	Substances	CAS No.
Possible Source contributes to PFOA			
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	Methyl perfluorooctanoate (Me-PFOA)	376-27-2
Possible Source contributes to 4:2 FTOH			
1H,1H,2H,2H-Nonafluorohexyl acrylate (4:2 FTA)	52591-27-2	1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4
Possible Source of 6:2 FTOH			
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
Possible Source contributes to 8:2 FTOH			
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9
1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)	37858-04-1		
Possible Source contributes to 10:2 FTOH			
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		
Possible Source contributes to MeFHxSE			
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	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
Possible Source contributes to N-EtFOSE			
2-(N-ethylperfluorooctanesulfamido)ethyl acrylate (EtFOSAC)	423-82-5		
Possible Source contributes to Et-FHxSE			
2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester (EtFHxSEMA)	67906-70-1		
Possible Source contributes to PFHpA			
Perfluoroheptanamide (PFHpA-NH ₂)	2358-22-7		
Possible Source contributes to PFBA			
Perfluorobutyramide (PFBA-NH ₂)	662-50-0		

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TEST REPORT

Job No./Report No TR2785889

Date:17 April 2026

Page 45 of 45



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End of Test Report

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