

Test Report

No.: NGBHL24002952601

Date: Jun 05, 2024

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Client Name: ZHEJIANG A-CRYSTAL ELECTRONIC TECHNOLOGY CO.,LTD.

Client Address: 32TH BUILDING,FEIYUE TECHNOLOGY INNOVATION PARK,JIAOJIANG,TAIZHOU,ZHEJIANG.

Sample Description: CRYSTAL UNITS

Style No.: SMD/DIP

Client Ref. Information: SMD3225/1610/2012/5032/7050/8045/PMX145/PMX308/PMX405/PMX406/P

MX206F/PMX206FA/DIP206/DIP309/DIP
49S/49U/PMX206FLF/PMX308FLF/DIP310

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

SGS No.: NBHL24050108130T

Sample Receiving Date: May 29, 2024

Testing Period: May 29, 2024 ~ Jun 05, 2024

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

Testing Performed: Follow selected test(s) as requested by client.

	Test Requirement	Conclusion
1	Targeted 310 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

May Zhang

May Zhang
Approved Signatory

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SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch Chemical Laboratory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0029526-0001.C001	Silvery & grey, golden solid

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

Targeted 310 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method: Modified CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
PFOS, its salts and related compounds				
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND
PFOA-related compounds				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts^	39108-34-4	mg/kg	0.010	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.100	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.100	ND
Perfluoro-1-iodooctane (PFOL)	507-63-1	mg/kg	0.100	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts^	27854-31-5	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.100	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.100	ND
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	mg/kg	0.010	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts^	34598-33-9	mg/kg	0.010	ND
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	mg/kg	0.100	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	mg/kg	0.010	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND
C9-C14 PFCA, their salts				
Perfluorononane Acid (PFNA), its salts^	375-95-1	mg/kg	0.010	ND
Perfluorodecane Acid (PFDA), its salts^	335-76-2	mg/kg	0.010	ND
Perfluoroundecanoic Acid (PFUnDA), its salts^	2058-94-8	mg/kg	0.010	ND
Perfluorododecanoic Acid (PFDoDA), its salts^	307-55-1	mg/kg	0.010	ND
Perfluorotridecanoic Acid (PFTrDA), its salts^	72629-94-8	mg/kg	0.010	ND
Perfluorotetradecanoic Acid (PFTDA), its salts^	376-06-7	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND
Sum of C9-C14 PFCA, their salts	-	mg/kg	-	ND
C9-C14 PFCA-related substances				
Perfluorodecane sulfonic acid (PFDS), its salts^	335-77-3	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.100	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.010	ND
1,1,2,2-Tetrahydroperefluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.100	ND
Perfluorononane sulfonic acid (PFNS), its salts^	68259-12-1	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS), its salts^	749786-16-1	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Perfluorododecane sulfonic acid (PFDoDS), its salts [^]	79780-39-5	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS), its salts [^]	791563-89-8	mg/kg	0.010	ND
10:2 Fluortelomerphosphatediester (10:2 diPAP)	1895-26-7	mg/kg	0.100	ND
Perfluorodecyl iodide (PFDI)	423-62-1	mg/kg	0.100	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS), its salts [^]	39108-34-4	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	0.100	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA), its salts [^]	27854-31-5	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7	mg/kg	0.100	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.100	ND
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	mg/kg	0.010	ND
2H,2H,3H,3H-Perfluoroundecanoic Acid (H ₄ PFUnDA/ 8:3 FTCA), its salts [^]	34598-33-9	mg/kg	0.010	ND
1H,1H,2H-Heptadecafluoro-1-decene (PFDE)	21652-58-4	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecyltrichlorosilane/ 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane	78560-44-8 /83048-65-1	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorodecylmethylchlorosilane	3102-79-2	mg/kg	0.100	ND
2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA)	70887-94-4	mg/kg	0.010	ND
2-Perfluorodecyl ethanoic acid (10:2 FTCA)	53826-13-4	mg/kg	0.010	ND
Sum of C9-C14 PFCA-related substances	-	mg/kg	-	ND
PFHxS, its salts				
Perfluorohexanesulfonic acid (PFHxS), its salts [^]	355-46-4	mg/kg	0.010	ND
PFHxS-related compounds				
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	mg/kg	0.010	ND
2-[methyl[(tridecafluorohexyl) sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	mg/kg	0.500	ND
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	mg/kg	0.100	ND
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	mg/kg	0.100	ND
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	mg/kg	0.010	ND
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	mg/kg	0.010	ND
Sum of PFHxS-related compounds	-	mg/kg	-	ND
Other PFAS				
Perfluorohexane Acid (PFHxA), its salts^	307-24-4	mg/kg	0.010	ND
Perfluorobutane Acid (PFBA), its salts^	375-22-4	mg/kg	0.010	ND
Perfluorobutanesulfonic acid (PFBS), its salts^	375-73-5	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA), its salts^	2706-90-3	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA), its salts^	375-85-9	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS), its salts^	375-92-8	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (HPFHpA), its salts^	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS), its salts^	27619-97-2	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.100	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA), its salts^	13252-13-6	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS), its salts^	757124-72-4	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.010	ND



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N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
Perfluoropentane sulfonic acid (PFPeS), its salts [^]	2706-91-4	mg/kg	0.010	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.010	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.010	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.010	ND
Perfluorooctadecanoic Acid (PFODA), its salts [^]	16517-11-6	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.100	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA), its salts [^]	919005-14-4	mg/kg	0.010	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	mg/kg	0.010	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	mg/kg	0.010	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	mg/kg	0.010	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	mg/kg	0.010	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	mg/kg	0.010	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	mg/kg	0.010	ND
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	mg/kg	0.010	ND
Perfluoropentadecanoic Acid (PFPeDA), its salts [^]	141074-63-7	mg/kg	0.100	ND
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	mg/kg	0.100	ND
2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	mg/kg	0.100	ND
Perfluorooctyl triethoxysilane (POTS)	51851-37-7	mg/kg	0.100	ND
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI)	2043-57-4	mg/kg	0.100	ND
Perfluorobutane sulfon amides	30334-69-1	mg/kg	0.100	ND
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	mg/kg	0.010	ND
11H-Perfluoroundecanoic acid (11H-PFUnDA), its salts [^]	1765-48-6	mg/kg	0.100	ND
Pentafluoropropionate acid (PFPrA), its salts [^]	422-64-0	mg/kg	0.100	ND



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1H,1H,2H,2H-Perfluorooctyltrichlorosilane	78560-45-9	mg/kg	0.100	ND
2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	mg/kg	0.010	ND
2H-Perfluoro-2-octenoic acid (6:2 FTUCA)	70887-88-6	mg/kg	0.010	ND
6:6 Perfluorophosphinic acid (6:6 PFPi)	40143-77-9	mg/kg	0.010	ND
6:8 Perfluorophosphinic acid (6:8 PFPi)	610800-34-5	mg/kg	0.010	ND
8:8 Perfluorophosphinic acid (8:8 PFPi)	40143-79-1	mg/kg	0.010	ND

Notes:

1. ^=Substances refer to its salts/derivative listed in below table.

Substance Name	CAS No.
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH ₄)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3
N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanoate (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
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



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Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N)	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
8:2 FTS, its salts	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4
Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K)	438237-73-1
Ammonium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-NH ₄)	149724-40-3
Sodium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-Na)	27619-96-1
H₂PFDA/8:2 FTCA, its salts	
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA)	27854-31-5
Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄)	882489-14-7
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
Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na)	114519-85-6
H₄PFUnDA/ 8:3 FTCA, its salts	
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA)	34598-33-9
Potassium 2H,2H,3H,3H-Perfluoroundecanoate (H ₄ PFUnDA-K)	83310-58-1
PFNA, its salts	
Perfluorononane Acid (PFNA)	375-95-1
Perfluorononanoate Na-Salt (PFNA-Na)	21049-39-8
Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄)	4149-60-4
Potassium perfluorononanoate (PFNA-K)	21049-38-7
Perfluorononanoate Li-Salt (PFNA-Li)	60871-92-3
Silver perfluorononanoate (PFNA-Ag)	7358-16-9
Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃))	77032-23-6
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
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
Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃)	327176-80-7
Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀))	95682-66-9
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
Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁))	328531-06-2
Perfluorononanoate (anion)	72007-68-2
PFDA, its salts	
Perfluorodecane Acid (PFDA)	335-76-2
Sodium perfluorodecanoate (PFDA-Na)	3830-45-3
Perfluorodecanoate ammonium salt (PFDA-NH ₄)	3108-42-7
Potassium perfluorodecanoate (PFDA-K)	51604-85-4
Silver perfluorodecanoate (PFDA-Ag)	5784-82-7
Lithium perfluorodecanoate (PFDA-Li)	84743-32-8
Perfluorodecanoate (anion)	73829-36-4
PFUnDA, its salts	



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Perfluoroundecanoic Acid (PFUnDA)	2058-94-8
Perfluoroundecanoic acid sodium salt (PFUnDA-Na)	60871-96-7
Ammonium perfluoroundecanoate (PFUnDA-NH ₄)	4234-23-5
Potassium perfluoroundecanoate (PFUnDA-K)	30377-53-8
Calcium perfluoroundecanoate (PFUnDA-Ca)	97163-17-2
Perfluoroundecanoate (anion)	196859-54-8
PFDoDA, its salts	
Perfluorododecanoic Acid (PFDoDA)	307-55-1
Ammonium tricosafuorododecanoate (PFDoDA-NH ₄)	3793-74-6
Sodium perfluorododecanoate (PFDoDA-Na)	60872-01-7
Perfluorododecanoate (anion)	171978-95-3
PFTrDA, its salts	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8
Ammonium perfluorotridecanoate (PFTrDA-NH ₄)	4288-72-6
Perfluorotridecanoate (anion)	862374-87-6
PFTDA, its salts	
Perfluorotetradecanoic Acid (PFTDA)	376-06-7
Perfluorotetradecanoate (anion)	365971-87-5
PFDS, its salts	
Perfluorodecane sulfonic acid (PFDS)	335-77-3
Sodium perfluorodecanesulfonate (PFDS-Na)	2806-15-7
Potassium perfluorodecanesulfonate (PFDS-K)	2806-16-8
Ammonium perfluorodecanesulfonate (PFDS-NH ₄)	67906-42-7
Perfluorodecane sulfonate (anion)	126105-34-8
PFNS, its salts	
Perfluoro nonane sulfonic acid (PFNS)	68259-12-1
Sodium perfluoro-1-nonanesulfonate (PFNS-Na)	98789-57-2
ammonium nonadecafluorononanesulphonate (PFNS-NH ₄)	17202-41-4
Potassium perfluorononanesulfonate (PFNS-K)	29359-39-5
Perfluorononane sulfonate (anion)	474511-07-4
PFUnDS, its salts	
Perfluoroundecane sulfonic acid (PFUnDS)	749786-16-1
Perfluoroundecanesulfonate (anion)	441296-91-9
PFDoDS, its salts	
Perfluorododecanesulfonic acid (PFDoDS)	79780-39-5
Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na)	1260224-54-1
Potassium perfluorododecanesulfonate (PFDoDS-K)	85187-17-3
Perfluorododecane sulfonate (anion)	343629-43-6
PFTrDS, its salts	
Perfluorotridecane sulfonic acid (PFTrDS)	791563-89-8
Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na)	174675-49-1
PFHxS, its salts & derivatives	
Perfluorohexanesulfonic acid (PFHxS)	355-46-4
Perfluorohexanesulfonate Na-salt (PFHxS-Na)	82382-12-5
Perfluorohexanesulfonate K-salt (PFHxS-K)	3871-99-6
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
Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄)	68259-08-5
Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-	1000597-52-3



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tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP)	
N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₄ H ₉) ₄)	108427-54-9
N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄)	108427-55-0
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
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
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
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
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
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
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
Quinolinium, 1-(carboxymethyl)-4-[2-[4-[4-(2,2-diphenylethenyl)phenyl]-1,2,3,3a,4,8b-hexahydrocyclopent[b]indol-7-yl]ethenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1)(PFHxS-C ₄₄ H ₃₇ N ₂ O ₂)	1462414-59-0
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
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
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
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
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9CI)(PFHxS-Ga)	341035-71-0
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
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
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
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
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
Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with	421555-74-0



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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) ₂)	
Perfluorohexane sulphonyl fluoride(PFHxS-F)	423-50-7
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
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)	70136-72-0
Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂)	70225-16-0
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
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
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
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
1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs)	92011-17-1
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
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-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
Perfluorohexane sulfonate (anion)	108427-53-8
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
Potassium N-ethyl-n-[(tridecafluorohexyl)sulfonyl]glycinate (EtFHxSAA-K)	67584-53-6
Sodium N-ethyl-N-((tridecafluorohexyl)sulphonyl)glycinate (EtFHxSAA-Na)	68555-70-4
PFHxA, its salts & derivatives	
Perfluorohexane Acid (PFHxA)	307-24-4
Ammonium perfluorohexanoate (APFHx)	21615-47-4
Sodium perfluorohexanoate (PFHxA-Na)	2923-26-4
Potassium perfluorohexanoate(PFHxA-K)	3109-94-2
Perfluorohexanoyl fluoride (PFHxA-F)	355-38-4
Silver perfluorohexanoate (PFHxA-Ag)	336-02-7
Lithium perfluorohexanoate (PFHxA-Li)	90430-61-8
Perfluorohexanoic anhydride	308-13-4
Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8CI,9CI)	423-47-2



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No.: NGBHL24002952601

Date: Jun 05, 2024

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Perfluorohexanoate (anion)	92612-52-7
PFBA, its salts	
Perfluorobutane Acid (PFBA)	375-22-4
Ammonium perfluorobutanoate (PFBA-NH ₄)	10495-86-0
Sodium perfluorobutanoate (PFBA-Na)	2218-54-4
Potassium heptafluorobutanoate (PFBA-K)	2966-54-3
Silver perfluorobutanoate (PFBA-Ag)	3794-64-7
Lithium perfluorobutanoate (PFBA-Li)	4146-76-3
Heptafluorobutanoic acid-piperazine (1:1)	375-04-2
Perfluorobutanoate (anion)	45048-62-2
PFBS, its salts & derivatives	
Perfluorobutanesulfonic acid (PFBS)	375-73-5
Perfluorobutanesulfonate K-salt (PFBS-K)	29420-49-3
Perfluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O)	59933-66-3
lithium perfluorobutanesulfonate (PFBS-Li)	131651-65-5
Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS)	144317-44-2
Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅)	220133-51-7
Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P(C ₄ H ₉) ₄)	220689-12-3
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
Nonafluorobutanesulfonyl fluoride (PFBS-F)	375-72-4
Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O)	503155-89-3
Magnesium perfluorobutanesulfonate (PFBS-Mg)	507453-86-3
Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄)	68259-10-9
1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O)	209482-18-8
1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl)	2991-84-6
Sodium perfluorobutanesulfonate (PFBS-Na)	60453-92-1
Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂)	194999-85-4
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
Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄))	108427-52-7
Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂))	194999-82-1
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, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	425670-64-0
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
Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1015420-87-7
1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	905972-83-0
1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1)	1001557-05-6
2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-	374571-81-0



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nonafluoro-1-butanefluoride (1:1)	
Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	857285-80-4
1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	124472-66-8
1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn)	502457-69-4
1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefluoride (1:1)	56773-55-8
Perfluorobutanefluoride tetramethylammonium salt (PFBS-N(CH ₃) ₄)	25628-17-5
1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride	36913-91-4
Perfluorobutane sulfonate (anion)	45187-15-3
PFPeA, its salts	
Perfluoropentane Acid (PFPeA)	2706-90-3
Sodium perfluoropentanoate(PFPeA-Na)	2706-89-0
Potassium perfluoropentanoate(PFPeA-K)	336-23-2
Lithium perfluoropentanoate (PFPeA-Li)	198482-22-3
Silver perfluoropentanoate (PFPeA-Ag)	2795-30-4
Ammonium perfluoropentanoate(PFPeA-NH ₄)	68259-11-0
Perfluoropentanoate (anion)	45167-47-3
HPFHpA, its salts	
7H-Dodecafluoroheptane Acid (HPFHpA)	1546-95-8
Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na)	2264-25-7
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄)	376-34-1
PFHpS, its salts	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8
Perfluoroheptanesulfonate Na-salt (PFHpS-Na)	21934-50-9
Potassium Perfluoroheptanesulfonate (PFHpS-K)	60270-55-5
Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄)	68259-07-4
Lithium perfluoroheptanesulfonate (PFHpS-Li)	117806-54-9
1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1)	70225-15-9
Perfluoroheptane sulfonate (anion)	146689-46-5
PFHpA, its salts	
Perfluoroheptane Acid (PFHpA)	375-85-9
Sodium perfluoroheptanoate (PFHpA-Na)	20109-59-5
Potassium perfluoroheptanoate (PFHpA-K)	21049-36-5
Ammonium perfluoroheptanoate (PFHpA-NH ₄)	6130-43-4
Cesium perfluoroheptanoate (PFHpA-Cs)	171198-24-6
Silver perfluoroheptanoate (PFHpA-Ag)	424-05-5
Lithium perfluoroheptanoate (PFHpA-Li)	60871-90-1
Perfluoroheptanoate (anion)	120885-29-2
6:2 FTS, its salts	
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2
Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na)	27619-94-9
Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K)	59587-38-1



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Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄)	59587-39-2
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
HFPO-DA, its salts & derivatives	
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA)	13252-13-6
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH ₄)	62037-80-3
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K)	67118-55-2
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F)	2062-98-8
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	27619-93-8
PFPeS, its salts	
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4
Sodium perfluoro-1-pentanesulfonate (PFPeS-Na)	630402-22-1
Potassium perfluoropentane-1-sulphonate (PFPeS-K)	3872-25-1
Ammonium perfluoropentanesulfonate (PFPeS-NH ₄)	68259-09-6
Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate	70225-17-1
Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li)	1046864-81-6
Perfluoropentane sulfonate (anion)	175905-36-9
ADONA, its salts	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4
Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄)	958445-44-8
Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na)	2250081-67-3
11H-PFUnDA, its salts	
11H-Perfluoroundecanoic acid (11H-PFUnDA)	1765-48-6
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
Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoroundecanoate (11H-PFUnDA-NH ₄)	5081-02-7
PFPrA, its salts	
Pentafluoropropionic acid (PFPrA)	422-64-0
Sodium pentafluoropropionate (PFPrA-Na)	378-77-8
Silver pentafluoropropionate (PFPrA-Ag)	509-09-1
Potassium pentafluoropropionate (PFPrA-K)	378-76-7
Ammonium pentafluoropropionate (PFPrA-NH ₄)	2730-58-7

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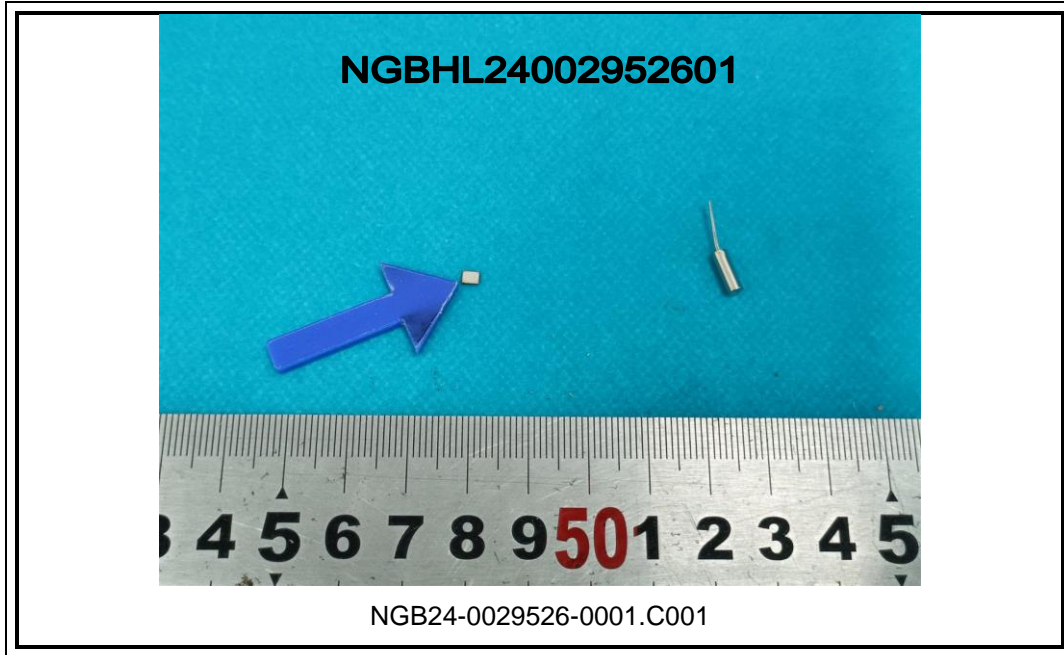
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