

Test Report No.: SHAEC24027126239 **Date**: Dec 07, 2024 Page 1 of 20

Client Name: HERAEUS ZHAOYUAN (CHANGSHU) ELECTRONIC MATERIAL CO.,LTD

Client Address: NO. 180 HUANGPUJIANG ROAD, SOUTHEAST ECONOMIC DEVELOPMENT ZONE,

CHANGSHU CITY, JIANGSU PROVINCE, P.R. CHINA, 21550

Sample Name: Solder Paste

Model No.: PbSn5Ag2.5-D3-RM218-8

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

SGS Job No.: TIC1020241126090830WNL2

Sample Receiving Date: Nov 27, 2024

Testing Period: Nov 27, 2024 ~ Dec 07, 2024

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

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

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

Test Requirement	Conclusion
Element(s)	See Results
Halogen	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalates	See Results
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Red Phosphorus as Phosphorus	See Results
Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts	See Results
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Annie Lin

Annie Liu

Approved Signatory





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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A13	SHA24-0271262-0001.C013	Silvery metal

Remarks:

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

Element(s)

Test Method: With reference to US EPA 3050B:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A13
Antimony(Sb)	mg/kg	10	ND
Beryllium(Be)	mg/kg	5	ND

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A13
Fluorine(F)	mg/kg	20	ND
Chlorine(CI)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
lodine(I)	ma/ka	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A13
Hexabromocyclododecane (HBCDD)	134237-50-6			
	/134237-51-7			
	/134237-52-8	mg/kg	20	ND
	/25637-99-4			
	/3194-55-6			

Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A13
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.003	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A13
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Di-n-pentyl Phthalates (DnPP)	131-18-0	%	0.003	ND
Di-n-hexyl Phthalates (DnHP)	84-75-3	%	0.003	ND
Diisopentylphthalate (DiPP)	605-50-5	%	0.003	ND

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to Titration method, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013,

IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS,

Hg analyzer, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A13
Lead(Pb)	0.1	%	-	90.3▲
Mercury(Hg)	1000	mg/kg	2	ND
Cadmium(Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	μg/cm²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	ı	ND
Monobrominated diphenyl ether	_	mg/kg	25	ND
(MonoBDE)		ilig/kg		ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether	_	mg/kg	25	ND
(TetraBDE)	_	mg/kg	20	ND
Pentabrominated diphenyl ether	_	mg/kg	25	ND
(PentaBDE)		1119/119	20	ND
Hexabrominated diphenyl ether	_	mg/kg	25	ND
(HexaBDE)		9/9		112
Heptabrominated diphenyl ether	_	mg/kg	25	ND
(HeptaBDE)		9,9		
Octabrominated diphenyl ether	-	mg/kg	25	ND
(OctaBDE)				
Nonabrominated diphenyl ether	-	mg/kg	25	ND
(NonaBDE)		3-3		



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Test Item(s)	Limit	Unit(s)	MDL	A13
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm². The sample coating (3) ▼ = is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.
- (4) According to the declaration from the client, Lead (Pb) is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

More information about exemption can be found via the following link:

https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf

Red Phosphorus as Phosphorus

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A13
Red Phosphorus as Phosphorus	mg/kg	20	ND

Perfluorooctane sulfonic acid (PFOS) and its derivatives and Perfluorooctanoic acid (PFOA) and its salts

Test Method: With reference to Modified EN 17681-1:2022, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A13
PFOS, its salts and related compounds				
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	mg/kg	10	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	10	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	10	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	10	ND
2-(N-methylperfluoro-1- octanesulfonamido)-ethanol (N- MeFOSE)	24448-09-7	mg/kg	10	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A13
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	10	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	mg/kg	10	ND
N-Methylperfluoro-1- octanesulfonamidoacetic Acid (N- MeFOSAA), its salts^	2355-31-9	mg/kg	10	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	10	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	10	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-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N($C_{10}H_{21}$) ₂ (CH_{3}) ₂)	251099-16-8
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
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C_3H_7) ₃ (C_5H_{11}))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C_4H_9) ₃ (CH ₃))	124472-68-0
lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0



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N.N.Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate 773895-92-4	110pol 10 01/1/20235	7, 2024	
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C _A H ₉) _A)) 2185049-59-4 Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) 2205029-08-7 heptyldimethyl(2-((2-methylprop-2-enoylyoxylethyl)azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁ H ₃₀ NO ₂) Perfluorooctane sulfonic anhydride (PFOSAN) Perfluorooctane sulfonic anhydride (PFOSAN) Perfluorooctane sulfonamidoacetic Acid (FOSAN) Perfluorooctyl)sulfonylglycinate (FOSAA(anion)) N-((Perfluorooctyl)sulfonylglycine potassium salt (1:1) (FOSAA-K) N-((Perfluorooctyl)sulfonylglycine potassium salt (1:1) (FOSAA-Na) N-((Perfluorooctyl)sulfonylglycine sodium salt (1:1) (FOSAA-Na) N-((Perfluorooctyl)sulfonylglycine sodium salt (1:1) (FOSAA-Na) N-((Perfluorooctyl)sulfonylglycine sodium salt (N-MeFOSAA) N-((Perfluorooctyl)sulfonylglycine sodium salt (N-MeFOSAA) N-((Perfluorooctyl)sulfonylglycine sodium salt (N-MeFOSAA) N-((N-Methylperfluoroo-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2355-31-9 2-((N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) N-Ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-K) 2991-50-6 Glycine, N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-N) 2991-52-8 N-Ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-N) 2991-52-8 Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) 335-93-3 Perfluorooctanoyl fluoride (PFOA-Na) 335-93-	1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4	
Perfluoroctanesulfonic acid diethylamine salt (PFOS-C₁H₁₁N) 2205029-08-7 heptyldimethyl(2-{{2-methylprop-2-encyl)oxylethyl}azanium 1203998-97-3 heptyldimethyl(2-{{2-methylprop-2-encyl)oxylethyl}azanium 1203998-97-3 Perfluoroctane sulfonic anhydride (PFOS-C₁-H₃₀NO₂) 423-92-7 FOSAA, its salts Perfluorocotyl)sulfonyl]glycinate (FOSAA(anion)) 909405-47-6 N-{{Perfluorocotyl}sulfonyl]glycine potassium salt (1:1) (FOSAA-K) 75260-69-4 N-{{Perfluorocotyl}sulfonyl]glycine potassium salt (1:1) (FOSAA-Na) 115716-87-5 N-MefPOSAA, its salts N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2355-31-9 2-{N-Methylperfluoro-1-octanesulfonamidoacetic (N-Me-FOSAA(anion)) 909405-48-7 Potassium N-{{heptadecafluorooctyl}sulphonyl}-N-methylglycinate (N-Me-FOSAA, its salts N-EtfOSAA, its salts N-EtfPOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-Et-FOSAA) 2991-50-6 Glycine, N-ethyl-N-{{heptadecafluorooctyl}sulfonyl}-, potassium salt (N-Et-FOSAA-NI-a) 2991-51-7 2-{N-Ethyl-perfluorooctanesulfonamidoacetic (N-Et-FOSAA-Na) 3871-50-9 <td c<="" td=""><td>N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate</td><td>773895-92-4</td></td>	<td>N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate</td> <td>773895-92-4</td>	N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₅₀ NO ₂) Perfluorooctane sulfonic anhydride (PFOSAN) Perfluorooctane sulfonic anhydride (PFOSAN) Perfluorooctane sulfonamidoacetic Acid (FOSAA) N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion)) Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2-(N-Methylperfluoro-1-octanesulfonamido)acetate (N-Me-FOSAA(anion)) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) R-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Selvine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) PFOSA, its salts Perfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Nh4) PFOSA, its salts & derivatives Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Nh4) PFOSA, its salts & derivatives Perfluorooctanesulfonamide (PFOA-Na) POtassium perfluorooctaneate (PFOA-Na) Potassium perfluorooctaneate (PFOA-Na) Potassium perfluorooctaneate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Perfluorooctanoide (PFOA-F) Ammonium pentadecafluorooctanoate (APFO)	Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄))	2185049-59-4	
hepfadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) 1203998-97-3 Perfluorooctane sulfonic anhydride (PFOSAN) 423-92-7 FOSAA, its salts 2806-24-8 N-[Perfluorooctyl)sulfonyliglycinate (FOSAA(anion)) 909405-47-6 N-[(Perfluorooctyl)sulfonyliglycine potassium salt (1:1) (FOSAA-K) 75260-69-4 N-[(Perfluorooctyl)sulfonyliglycine sodium salt (1:1) (FOSAA-Na) 115716-87-5 N-MeFOSAA, its salts 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-EtFOSAA, its salts N-EtrOSAA, (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-Na) 2991-52-8 PFOSA, its salts 754-91-6 Perfluorooctanesulfonamide (PFOSA) 76752-79-9 Perfluorooctanesulfonamide	Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N)	2205029-08-7	
Perfluorocotane sulfonamidoacetic Acid (FOSAA) Perfluorocotane sulfonamidoacetic Acid (FOSAA) N-[(Perfluorocotyl)sulfonyl]glycinate (FOSAA(anion)) 909405-47-6 N-[(Perfluorocotyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) 75260-69-4 N-[(Perfluorocotyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) 115716-87-5 N-MerpOSAA, its salts N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2-(N-Methylperfluoroctanesulfonamido)acetate (N-Me-FOSAA(anion)) 909405-48-7 Potassium N-((heptadecafluoroctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-EttFOSAA, its salts N-EttPOSAA, its salts N-Ethyl-perfluoroctane sulfonamidoacetic Acid (N-Et-FOSAA) Glycine, N-ethyl-N-[(heptadecafluoroctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 2-(N-Ethyl-perfluoroctanesulfonamido)acetate (N-Et-FOSAA(anion)) 909405-49-8 Ammonium 2-(N-ethylperfluoroctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluoroctane sulfonamide (PFOSA) Perfluoroctanesulfonamide (PFOSA) Perfluoroctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluoroctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluoroctanesulfonamide Ammonium salt (1:1) (PFOSA-Nh4) Perfluoroctanesulfonamide Ammonium salt (1:1) (PFOSA-Nh4) PFOA, its salts & derivatives Perfluoroctanoic acid (PFOA) Sodium perfluoroctanoate (PFOA-Na) Potassium perfluoroctanoate (PFOA-Na) Potassium perfluoroctanoate (PFOA-Na) Potassium perfluoroctanoate (PFOA-Na) Perfluoroctanoot (PFOA-PG) 335-66-0 Ammonium pentadecafluoroctanoate (APFO)	heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂)	1203998-97-3	
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 115716-87-5 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-K) 70281-93-5 N-EtPOSAA, its salts 70281-93-5 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-Na) 2991-52-8 Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 76752-78-8 Perfluorooctane Sulfonamide (PFOSA) 754-91-6 Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Li) 76752-79-9 Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) 76752-70-0 Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) 76752-72-2 Heptadecafluorooctaneale (PFOA) 335-67-1 76752-72-2 Peptadecafluorooctanoate (PFOA) 335-95-5 Potassium perfluorooctanoate (PFOA-Na) 335-96-6 76752-70-0 Potassium perfluorooctanoate (PFOA-Ra) 335-96-6 76752-70-0 76752-7	Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7	
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion)) N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) 115716-87-5 N-MeFOSAA, its salts N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2-(N-Methylperfluoroctanesulfonamido)acetate (N-Me-FOSAA(anion)) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-EtFOSAA-K) N-EtFOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) 2-(N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) 3-2-(N-Ethyl-Perfluorooctanesulfonamido)acetate (N-Et-FOSAA) 3-2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-K) 3-2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-K) 3-2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 3-2-(N-Ethylperfluorooctanesulfonamido)acetate (N-Et-FO	FOSAA, its salts		
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) 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, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) 2991-50-6 Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) 909405-49-8 Ammonium 2-(N-ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 2991-52-8 Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) PFOA, its salts & derivatives Perfluorooctaneia caid (PFOA) 335-67-1 Sodium perfluorooctanoate (PFOA-Na) 335-95-5 Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Perfluorooctanootanoate (PFOA-Na) Perfluorooctanootanoote (PFOA-Na) Perfluorooctanootanoote (PFOA-Na) Perfluorooctanootenootenootenootenoote (PFOA-Na) Perfluorooctanootenootenootenootenootenootenootenoo	Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	
N-[(Perfluorooctyl)sulfonylglycine sodium salt (1:1) (FOSAA-Na) 115716-87-5 N-MeFOSAA, its salts N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) PoSAA-K) N-EtrOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) 909405-49-8 Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PosAA-K) 2-(N-ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) PFOA, its salts & derivatives Perfluorooctaneic acid (PFOA) 335-67-1 Sodium perfluorooctanoate (PFOA-Na) 335-95-5 Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-R) 335-93-3 Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO)	N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6	
N-MeFOSAA, its salts N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2355-31-9 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-EtFOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) PFOSA-CeH ₁₆ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Rg) Potassium perfluorooctanoate (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-66-0 Ammonium pentadecafluorooctanoate (APFO)	N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) 2-355-31-9 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) Qlycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-EtFOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) 909405-49-8 Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NHa) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NA) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) PFOSA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Ra) Potassium perfluorooctanoate (PFOA-Ra) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) Sastivativa perfluorooctanoote (PFOA-F) Ammonium pentadecafluorooctanoate (APFO)	N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5	
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-EtFOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 2991-50-6 Glycine, N-ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 2991-52-8 Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	N-MeFOSAA, its salts		
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) N-EtFOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 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)) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 2991-52-8 Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 3871-50-9 PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) 76752-72-2 Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO)	N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	
FOSAA-K) N-EtFOSAA, its salts N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-EtFOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctanesulfonamido (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Nh4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Nh4) Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) PFOSA-CeH15N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-R) Silver perfluorooctanoot (PFOA-Ag) Perfluorooctanool 3825-26-1 Ammonium pentadecafluorooctanoate (APFO)	2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-EtFOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide (PFOSA) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) PFOA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoctane-1-sulphonamide, compound with triethylamine (1:1) C(PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoate (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanot (PFOA-Ag) Ammonium pentadecafluorooctanoate (APFO)	Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5	
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	N-EtFOSAA, its salts		
FOSAA-K) 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) 909405-49-8 Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH4) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NA) 871-50-9 PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-NA) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Silver perfluorooctanoot (PFOA-Ag) Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH4) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) 3871-50-9 PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanoot (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7	
NH4) Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) PFOSA-C6H16N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanoot (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8	
PFOSA, its salts Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanoote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄)	2991-52-8	
Perfluorooctane Sulfonamide (PFOSA) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-26-1	Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9	
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Reptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-Na) Silver perfluorooctanoate (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-66-0 3825-26-1	PFOSA, its salts		
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanoot (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 36752-78-8 76752-78-8 76752-78-8 76752-78-8 76752-78-8 76752-70-0 76752-72-2 76752-72-2 76752-82-4 76752-70-0 76752-82-4 7	Perfluorooctane Sulfonamide (PFOSA)	754-91-6	
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 36752-72-2 76752-72-2 76752-82-4	Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9	
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH4) 76752-72-2 Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) 76752-82-4 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 perfluorooctanote (PFOA-Ag) 335-93-3 Perfluorooctanoyl fluoride (PFOA-F) 335-66-0 Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8	
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) PFOA, its salts & derivatives Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO)	Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0	
(PFOSA-C ₆ H ₁₅ N)PFOA, its salts & derivativesPerfluorooctanoic acid (PFOA)335-67-1Sodium perfluorooctanoate (PFOA-Na)335-95-5Potassium perfluorooctanoate (PFOA-K)2395-00-8Silver perfluorooctanoate (PFOA-Ag)335-93-3Perfluorooctanoyl fluoride (PFOA-F)335-66-0Ammonium pentadecafluorooctanoate (APFO)3825-26-1	Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄)	76752-72-2	
Perfluorooctanoic acid (PFOA) Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-67-1 335-95-5 2395-00-8 335-93-3 235-66-0 3825-26-1	Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N)	76752-82-4	
Sodium perfluorooctanoate (PFOA-Na) Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-95-5 2395-00-8 335-93-3 335-96-0 3825-26-1	PFOA, its salts & derivatives		
Potassium perfluorooctanoate (PFOA-K) Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 2395-00-8 335-93-3 335-66-0 3825-26-1	Perfluorooctanoic acid (PFOA)	335-67-1	
Silver perfluorooctanote (PFOA-Ag) Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-93-3 335-93-3 335-66-0 3825-26-1	Sodium perfluorooctanoate (PFOA-Na)	335-95-5	
Perfluorooctanoyl fluoride (PFOA-F) Ammonium pentadecafluorooctanoate (APFO) 335-66-0 3825-26-1	Potassium perfluorooctanoate (PFOA-K)	2395-00-8	
Ammonium pentadecafluorooctanoate (APFO) 3825-26-1	Silver perfluorooctanote (PFOA-Ag)	335-93-3	
·	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	
Lithium perfluorooctanoate (PFOA-Li) 17125-58-5	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	
	Lithium perfluorooctanoate (PFOA-Li)	17125-58-5	



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•	, -
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
Pentadecafluorooctanoic acidpiperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoatewater (1/1/2) (PFOA-K(H ₂ O) ₂)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
Pentadecafluorooctanoic acidpyridine (1/1) (PFOA-C₅H₅N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N)	927835-01-6

AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS. **Test Method:**

Test Item(s)	CAS No.	Unit(s)	MDL	A13
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE),				
Pyrene(PYR), Anthracene(ANT),	-	mg/kg	-	ND
Fluoranthene(FLT)				
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

AfPS (German commission for Product Safety): PAHs requirements



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_					
	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s)	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
Parameter	(more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by childrena,b up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracen e (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum



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Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

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



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^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

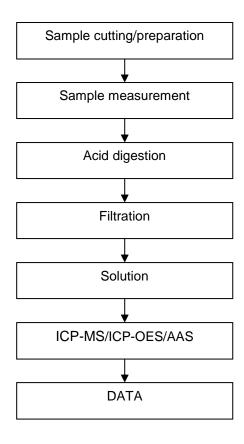
^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28)

[&]quot;foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.



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Elements Testing Flow Chart





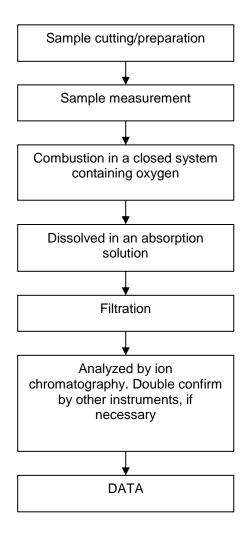
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Halogen Testing Flow Chart





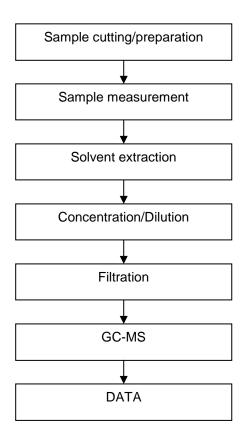
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HBCDD Testing Flow Chart





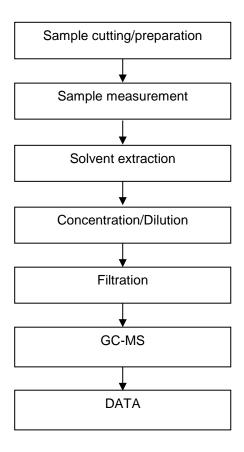
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Phthalates Testing Flow Chart





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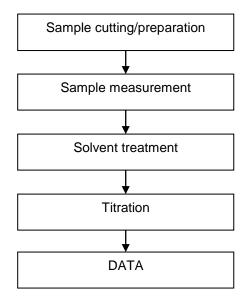


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Titration Testing Flow Chart





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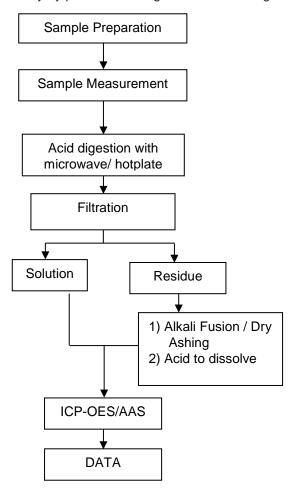
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Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.





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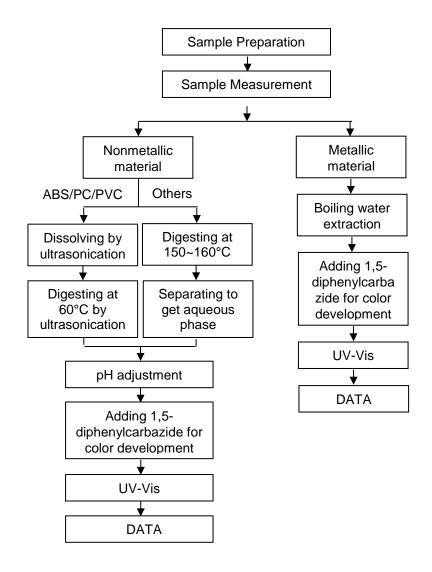


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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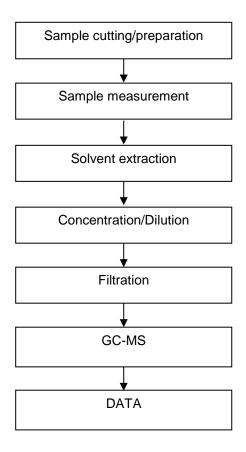
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PBB/PBDE/Phthalates Testing Flow Chart





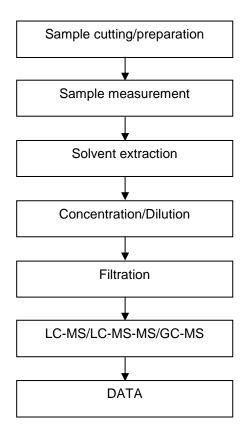
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PFASs/ PFOS/PFOA Testing Flow Chart





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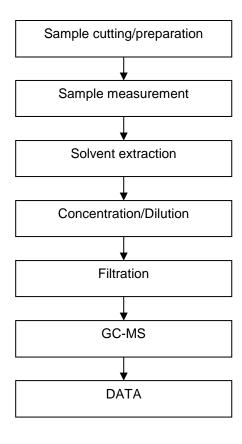
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PAHs Testing Flow Chart





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Sample Photo:



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