

Test Report (PFAS)

No.: CANEC24018051301

Date: Aug 21, 2024

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Client Name: GUANGZHOU KAIHENG K & S CO., LTD

Client Address: KAIHENG TECHNOLOGY INDUSTRY PARK, NO. 148CHANGAN, GUANGZHOU CHINA

Sample Name: K-2 HF heat-shrinkable tubing

Model No.: K-2 HF

Main Substance: polyolefin

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

SGS Job No.: GZP24-027231

Sample Receiving Date: Aug 15, 2024

Testing Period: Aug 15, 2024 ~ Aug 21, 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).

Summary:

| | |
|--|------|
| 430 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content | Pass |
|--|------|

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

Jany Zhong

Jany Zhong
Approved Signatory

scan to see the report



AB09E5C8



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

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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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(PFAS)**

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Test Sample:

Test Part Description:

| SN ID | Sample No. | SGS Sample ID | Description |
|-------|------------|-------------------------|--------------------------------|
| SN1 | A1 | CAN24-0180513-0001.C001 | Black tube with white printing |

430 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method:

Modified EN 17681-1:2022 and EN 17681-2:2022, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Results: (Substances in the reporting list of PFAS)

| Substance Name | CAS No. | A1 Concentration (mg/kg) | MDL (mg/kg) |
|-------------------------|---------|--------------------------|-------------|
| All tested PFAS in list | - | ND | - |

Notes:

- (1) The table above only shows detected PFAS, and PFAS that below MDL are not reported. Please refer to Appendix for the full list of tested PFAS.
 - (2) MDL = Method Detection Limit
ND = Not detected (lower than MDL)
 - (3) The target PFAS is prohibited, and this test requirement is quoted from the client. If PFAS is detected, it is recommended to refer to relevant regulation to confirm the relevant requirements of PFAS.
 - (4) ^=Substances refer to its salts/derivative listed in Appendix.
- 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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Guangzhou Branch Technical Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
 中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
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Appendix:

1. List of PFAS, its salts & derivatives

| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|-----|-------------------------------|--|-------------|-------------|
| 1 | PFOS, its salts & derivatives | Perfluorooctane sulfonic acid (PFOS) | 1763-23-1 | 0.010 |
| 2 | | Potassium Perfluorooctanesulfonate (PFOS-K) | 2795-39-3 | -- |
| 3 | | Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 | -- |
| 4 | | Sodium perfluorooctanesulfonate (PFOS-Na) | 4021-47-0 | -- |
| 5 | | Ammonium perfluorooctanesulfonate (PFOS-NH ₄) | 29081-56-9 | -- |
| 6 | | Perfluorooctane sulfonate diethanolamine salt (PFOS-NH ₂ (C ₂ H ₄ OH) ₂) | 70225-14-8 | -- |
| 7 | | Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) | 56773-42-3 | -- |
| 8 | | N-decyl-N,N-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 | -- |
| 9 | | Tetrabutylammonium perfluorooctanesulfonate (PFOS-N(C ₄ H ₉) ₄) | 111873-33-7 | -- |
| 10 | | Perfluorooctane Sulfonyl fluoride (PFOS-F) | 307-35-7 | -- |
| 11 | | Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg) | 91036-71-4 | -- |
| 12 | | Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 | -- |
| 13 | | Perfluorooctanesulfonate | 45298-90-6 | -- |
| 14 | | Triethylammonium perfluorooctane sulfonate (PFOS-N(C ₂ H ₅) ₃) | 54439-46-2 | -- |
| 15 | | Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH ₃) ₄) | 56773-44-5 | -- |
| 16 | | N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁)) | 56773-56-9 | -- |
| 17 | | N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 124472-68-0 | -- |
| 18 | | Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1) | 213740-80-8 | -- |
| 19 | | Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate | 258341-99-0 | -- |
| 20 | | 1-Hexadecylpyridinium perfluoro-1-octanesulfonate | 334529-63-4 | -- |
| 21 | | N,N,N-Triethyldecyl-1-aminium heptadecafluorooctane-1-sulfonate | 773895-92-4 | -- |



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Guangzhou Branch Technical Laboratory

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|-----|----------------------|---|--------------|-------------|
| 22 | | Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C ₄ H ₉) ₄) | 2185049-59-4 | -- |
| 23 | | Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 | -- |
| 24 | | heptyldimethyl{2-[(2-methylprop-2-enyl)oxy]ethyl}azanum heptadecafluorooctane-1-sulfonate (PFOS-C ₁₅ H ₃₀ NO ₂) | 1203998-97-3 | -- |
| 25 | | Perfluorooctane sulfonic anhydride (PFOSAN) | 423-92-7 | -- |
| 26 | FOSAA, its salts | Perfluorooctane sulfonamidoacetic Acid (FOSAA) | 2806-24-8 | 0.010 |
| 27 | | N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion)) | 909405-47-6 | -- |
| 28 | | N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K) | 75260-69-4 | -- |
| 29 | | N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na) | 115716-87-5 | -- |
| 30 | N-MeFOSAA, its salts | N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA) | 2355-31-9 | 0.010 |
| 31 | | 2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion)) | 909405-48-7 | -- |
| 32 | | Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K) | 70281-93-5 | -- |
| 33 | N-EtFOSAA, its salts | N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA) | 2991-50-6 | 0.010 |
| 34 | | Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K) | 2991-51-7 | -- |
| 35 | | 2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion)) | 909405-49-8 | -- |
| 36 | | Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH ₄) | 2991-52-8 | -- |
| 37 | | Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na) | 3871-50-9 | -- |
| 38 | -- | N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 4151-50-2 | 0.010 |
| 39 | -- | N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 31506-32-8 | 0.010 |
| 40 | -- | 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) | 1691-99-2 | 0.010 |
| 41 | -- | 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) | 24448-09-7 | 0.010 |
| 42 | PFOSA, its salts | Perfluorooctane Sulfonamide (PFOSA) | 754-91-6 | 0.010 |
| 43 | | Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li) | 76752-79-9 | -- |



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|-----|--|--|--------------|-------------|
| 44 | | Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na) | 76752-78-8 | -- |
| 45 | | Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K) | 76752-70-0 | -- |
| 46 | | Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH ₄) | 76752-72-2 | -- |
| 47 | | Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-C ₆ H ₁₅ N) | 76752-82-4 | -- |
| 48 | PFOA, its salts & derivatives | Perfluorooctanoic acid (PFOA) | 335-67-1 | 0.010 |
| 49 | | Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 | -- |
| 50 | | Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 | -- |
| 51 | | Silver perfluorooctanoate (PFOA-Ag) | 335-93-3 | -- |
| 52 | | Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 | -- |
| 53 | | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 | -- |
| 54 | | Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 | -- |
| 55 | | Cobalt perfluorooctanoate (PFOA-Co) | 35965-01-6 | -- |
| 56 | | Cesium perfluorooctanoate (PFOA-Cs) | 17125-60-9 | -- |
| 57 | | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+)) | 68141-02-6 | -- |
| 58 | | Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH(C ₄ H ₁₀ N)) | 423-52-9 | -- |
| 59 | | Pentadecafluorooctanoate (anion) | 45285-51-6 | -- |
| 60 | | Perfluorooctanoic Anhydride | 33496-48-9 | -- |
| 61 | | N,N,N-Triethylethanaminium perfluorooctanoate | 98241-25-9 | -- |
| 62 | | Perfluorooctanoate N,N,N-Trimethylmethanaminium | 32609-65-7 | -- |
| 63 | | Tetrapropylammonium perfluorooctanoate | 277749-00-5 | -- |
| 64 | | Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H ₂ O) ₂) | 98065-31-7 | -- |
| 65 | | Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 | -- |
| 66 | | Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C ₅ H ₅ N) | 95658-47-2 | -- |
| 67 | | pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 | -- |
| 68 | N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-C ₁₁ H ₂₆ N) | 927835-01-6 | -- | |
| 69 | 8:2 FTS, its salts | 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) | 39108-34-4 | 0.010 |
| 70 | | Potassium 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS-K) | 438237-73-1 | -- |



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| 71 | | Ammonium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-NH ₄) | 149724-40-3 | -- |
| 72 | | Sodium 1H,1H,2H,2H-Perfluorododecane sulfonate (8:2 FTS-Na) | 27619-96-1 | -- |
| 73 | | 2-(Perfluorooctyl)ethane-1-sulfonate (8:2 FTS(anion)) | 481071-78-7 | -- |
| 74 | -- | Methyl perfluorooctanoate (Me-PFOA) | 376-27-2 | 0.200 |
| 75 | -- | Ethyl perfluorooctanoate (Et-PFOA) | 3108-24-5 | 0.200 |
| 76 | -- | 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)* | 27905-45-9 | 0.100 |
| 77 | -- | 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)* | 1996-88-9 | 0.100 |
| 78 | -- | Perfluoro-1-iodooctane (PFOI) | 507-63-1 | 0.200 |
| 79 | 8:2 FTCA, its salts | 2H,2H-Perfluorodecane Acid (8:2 FTCA) | 27854-31-5 | 0.010 |
| 80 | | Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (8:2 FTCA-P(C ₄ H ₉) ₄) | 882489-14-7 | -- |
| 81 | -- | 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) | 678-39-7 | 0.100 |
| 82 | -- | 1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)* | 2043-53-0 | 0.100 |
| 83 | -- | 1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)* | 101947-16-4 | 0.100 |
| 84 | 8:2 diPAP, its salts | Bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP) | 678-41-1 | 0.010 |
| 85 | | Sodium bis(1H,1H,2H,2H-perfluorodecyl)phosphate (8:2diPAP-Na) | 114519-85-6 | -- |
| 86 | | Bis(2-hydroxyethyl)ammonium bis((perfluorooctyl)ethyl) hydrogen phosphate | 57677-97-1 | -- |
| 87 | | Bis[2-(perfluorooctyl)ethyl] phosphate ammonium salt (8:2 diPAP-NH ₄) | 93776-20-6 | -- |
| 88 | | 8:2 Fluorotelomer phosphate diester ion (1-) | 1411713-91-1 | -- |
| 89 | 8:3 FTCA, its salts | 2H,2H,3H,3H-Perfluoroundecanoic acid (8:3 FTCA) | 34598-33-9 | 0.010 |
| 90 | | Potassium 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-K) | 83310-58-1 | -- |
| 91 | | 2H,2H,3H,3H-Perfluoroundecanoate (8:3 FTCA-Li) | 67304-23-8 | -- |
| 92 | -- | 1H,1H,2H-Heptafluoro-1-decene (PFDE)* | 21652-58-4 | 0.200 |
| 93 | -- | 3-Perfluoroheptyl propanoic acid (7:3 FTCA) | 812-70-4 | 0.010 |
| 94 | -- | 1H,1H,2H,2H-Perfluorodecyltrichlorosilane* | 78560-44-8 | 0.100 |
| 95 | -- | 1H,1H,2H,2H-Perfluorodecyltrimethoxysilane* | 83048-65-1 | |
| 96 | -- | 2H-Perfluoro-2-decenoic acid (8:2 FTUCA) | 70887-84-2 | 0.010 |
| 97 | -- | 6:8 Perfluorophosphinic acid (6:8 PFPi) | 610800-34-5 | 0.010 |
| 98 | -- | 8:8 Perfluorophosphinic acid (8:8 PFPi) | 40143-79-1 | 0.010 |



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| 99 | 8:8 PFPI, its salts | Bis(heptadecafluorooctyl)phosphinic Acid Sodium Salt (8:8 PFPI-Na) | 500776-69-2 | -- |
| 100 | | Bis(perfluorooctyl) phosphinic acid erbium(3+) salt (8:8 PFPI-Er) | 500776-70-5 | -- |
| 101 | | Bis(perfluorooctyl) phosphinic acid ytterbium(3+) salt (8:8 PFPI-Yb) | 500776-71-6 | -- |
| 102 | -- | 1H,1H,2H,2H-perfluorodecyl acetate (8:2 FTOAc)* | 37858-04-1 | 0.100 |
| 103 | 8:2 monoPAP, its salts | 8:2 Fluorotelomer phosphate monoester (8:2 monoPAP) | 57678-03-2 | 0.100 |
| 104 | | Sodium 1H,1H,2H,2H-perfluorodecyl phosphate (8:2 monoPAP-Na) | 92678-93-8 | -- |
| 105 | PFNA, its salts | Perfluorononane Acid (PFNA) | 375-95-1 | 0.010 |
| 106 | | Perfluorononanoate Na-Salt (PFNA-Na) | 21049-39-8 | -- |
| 107 | | Nonanoic acid, heptadecafluoro-, ammonium salt (PFNA-NH ₄) | 4149-60-4 | -- |
| 108 | | Potassium perfluorononanoate (PFNA-K) | 21049-38-7 | -- |
| 109 | | Perfluorononanoate Li-Salt (PFNA-Li) | 60871-92-3 | -- |
| 110 | | Silver perfluorononanoate (PFNA-Ag) | 7358-16-9 | -- |
| 111 | | Methanaminium perfluorononanoate (PFNA-NH ₃ (CH ₃)) | 77032-23-6 | -- |
| 112 | | 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 | -- |
| 113 | | 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 | -- |
| 114 | | Nonanoic acid, heptadecafluoro-, compd. with N,N-diethylethanamine (1:1) (9CI) (PFNA-NH(C ₂ H ₅) ₃) | 327176-80-7 | -- |
| 115 | | Nonanoic acid, heptadecafluoro-, compd. with piperidine (1:1) (9CI) (PFNA-NH ₂ (C ₅ H ₁₀)) | 95682-66-9 | -- |
| 116 | | 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 | -- |
| 117 | | Nonanoic acid, heptadecafluoro-, compd. with cyclohexanamine (1:1) (9CI) (PFNA-NH ₃ (C ₆ H ₁₁)) | 328531-06-2 | -- |
| 118 | | Perfluorononanoate (anion) | 72007-68-2 | -- |
| 119 | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium heptadecafluorononanoate (PFNA-C ₁₁ H ₁₂ N ₄ O ₃ S) | 298703-33-0 | -- | |
| 120 | Perfluorononanoic anhydride (PFNAA) | 228407-54-3 | -- | |
| 121 | PFDA, its salts | Perfluorodecane Acid (PFDA) | 335-76-2 | 0.010 |
| 122 | | Sodium perfluorodecanoate (PFDA-Na) | 3830-45-3 | -- |



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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) | |
|-----|---|--|--|-------------|-------|
| 123 | | Perfluorodecanoate ammonium salt (PFDA-NH ₄) | 3108-42-7 | -- | |
| 124 | | Potassium perfluorodecanoate (PFDA-K) | 51604-85-4 | -- | |
| 125 | | Silver perfluorodecanoate (PFDA-Ag) | 5784-82-7 | -- | |
| 126 | | Lithium perfluorodecanoate (PFDA-Li) | 84743-32-8 | -- | |
| 127 | | Perfluorodecanoate (anion) | 73829-36-4 | -- | |
| 128 | | Perfluorodecanoic anhydride (PFDA) | 942199-24-8 | -- | |
| 129 | | PFUnDA, its salts | Perfluoroundecanoic Acid (PFUnDA) | 2058-94-8 | 0.010 |
| 130 | | | Perfluoroundecanoic acid sodium salt (PFUnDA-Na) | 60871-96-7 | -- |
| 131 | Ammonium perfluoroundecanoate (PFUnDA-NH ₄) | | 4234-23-5 | -- | |
| 132 | Potassium perfluoroundecanoate (PFUnDA-K) | | 30377-53-8 | -- | |
| 133 | Calcium perfluoroundecanoate (PFUnDA-Ca) | | 97163-17-2 | -- | |
| 134 | Perfluoroundecanoate (anion) | | 196859-54-8 | -- | |
| 135 | PFDoDA, its salts | | Perfluorododecanoic Acid (PFDoDA) | 307-55-1 | 0.010 |
| 136 | | Ammonium tricosafuorododecanoate (PFDoDA-NH ₄) | 3793-74-6 | -- | |
| 137 | | Sodium perfluorododecanoate (PFDoDA-Na) | 60872-01-7 | -- | |
| 138 | | Perfluorododecanoate (anion) | 171978-95-3 | -- | |
| 139 | PFTrDA, its salts | Perfluorotridecanoic Acid (PFTrDA) | 72629-94-8 | 0.010 | |
| 140 | | Ammonium perfluorotridecanoate (PFTrDA-NH ₄) | 4288-72-6 | -- | |
| 141 | | Perfluorotridecanoate (anion) | 862374-87-6 | -- | |
| 142 | PFTDA, its salts | Perfluorotetradecanoic Acid (PFTDA) | 376-06-7 | 0.010 | |
| 143 | | Perfluorotetradecanoate (anion) | 365971-87-5 | -- | |
| 144 | -- | Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) | 172155-07-6 | 0.010 | |
| 145 | PFDS, its salts | Perfluorodecane sulfonic acid (PFDS) | 335-77-3 | 0.010 | |
| 146 | | Sodium perfluorodecanesulfonate (PFDS-Na) | 2806-15-7 | -- | |
| 147 | | Potassium perfluorodecanesulfonate (PFDS-K) | 2806-16-8 | -- | |
| 148 | | Ammonium perfluorodecanesulfonate (PFDS-NH ₄) | 67906-42-7 | -- | |
| 149 | | Perfluorodecane sulfonate (anion) | 126105-34-8 | -- | |
| 150 | | Perfluorodecane sulfonic anhydride (PFDSA) | 51667-62-0 | -- | |
| 151 | -- | 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) | 865-86-1 | 0.100 | |
| 152 | -- | 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)* | 17741-60-5 | 0.100 | |
| 153 | -- | 1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)* | 2144-54-9 | 0.100 | |
| 154 | -- | 1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH) | 39239-77-5 | 0.100 | |



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|-----|--------------------------------|---|--------------|-------------|
| 155 | 10:2 FTS, its salts | 1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS) | 120226-60-0 | 0.010 |
| 156 | | 1H,1H,2H,2H-Perfluorododecanesulfonic Acid Sodium (10:2 FTS-Na) | 108026-35-3 | -- |
| 157 | -- | 1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)* | 2043-54-1 | 0.100 |
| 158 | -- | 1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)* | 30046-31-2 | 0.100 |
| 159 | PFNS, its salts | Perfluoro nonane sulfonic acid (PFNS) | 68259-12-1 | 0.010 |
| 160 | | Sodium perfluoro-1-nonanesulfonate (PFNS-Na) | 98789-57-2 | -- |
| 161 | | ammonium nonadecafluorononanesulphonate (PFNS-NH ₄) | 17202-41-4 | -- |
| 162 | | Potassium perfluorononanesulfonate (PFNS-K) | 29359-39-5 | -- |
| 163 | | Perfluorononane sulfonate (anion) | 474511-07-4 | -- |
| 164 | PFUnDS, its salts | Perfluoroundecane sulfonic acid (PFUnDS) | 749786-16-1 | 0.010 |
| 165 | | Perfluoroundecanesulfonate (anion) | 441296-91-9 | -- |
| 166 | PFDoDS, its salts | Perfluorododecanesulfonic acid (PFDoDS) | 79780-39-5 | 0.010 |
| 167 | | Sodium perfluoro-1-dodecanesulfonate (PFDoDS-Na) | 1260224-54-1 | -- |
| 168 | | Potassium perfluorododecanesulfonate (PFDoDS-K) | 85187-17-3 | -- |
| 169 | | Perfluorododecane sulfonate (anion) | 343629-43-6 | -- |
| 170 | PFTrDS, its salts | Perfluorotridecane sulfonic acid (PFTrDS) | 791563-89-8 | 0.010 |
| 171 | | Sodium perfluoro-1-tridecanesulfonate (PFTrDS-Na) | 174675-49-1 | -- |
| 172 | 10:2 diPAP, its salts | 10:2 Fluortelomerphosphatediester (10:2 diPAP) | 1895-26-7 | 0.100 |
| 173 | | Bis((perfluorodecyl)ethyl) hydrogen phosphate 2,2'-iminodiethanol (10:2 diPAP-C ₄ H ₁₁ O ₂) | 57677-98-2 | -- |
| 174 | -- | Perfluorodecyl iodide (PFDI)* | 423-62-1 | 0.100 |
| 175 | -- | Perfluorododecyl iodide (PFDoDI)* | 307-60-8 | 0.100 |
| 176 | -- | 2H-Perfluoro-2-dodecenoic acid (10:2 FTUCA) | 70887-94-4 | 0.010 |
| 177 | -- | 2-Perfluorodecyl ethanoic acid (10:2 FTCA) | 53826-13-4 | 0.010 |
| 178 | -- | 1H,1H,2H,2H-perfluorododecyl acetate (10:2 FTOAc)* | 37858-05-2 | 0.100 |
| 179 | PFHxS, its salts & derivatives | Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | 0.010 |
| 180 | | Perfluorohexanesulfonate Na-salt (PFHxS-Na) | 82382-12-5 | -- |
| 181 | | Perfluorohexanesulfonate K-salt (PFHxS-K) | 3871-99-6 | -- |
| 182 | | 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 | -- |
| 183 | | Ammonium perfluorohexane-1-sulphonate (PFHxS-NH ₄) | 68259-08-5 | -- |



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| 184 | | Phosphonium, triphenyl(phenylmethyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-BTPP) | 1000597-52-3 | -- |
| 185 | | N,N,N-tributylbutan-1-aminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₄ H ₉) ₄) | 108427-54-9 | -- |
| 186 | | N,N,N-triethylethanaminium tridecafluorohexane-1-sulfonate(PFHxS-N(C ₂ H ₅) ₄) | 108427-55-0 | -- |
| 187 | | 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 | -- |
| 188 | | 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 | -- |
| 189 | | 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 | -- |
| 190 | | 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 | -- |
| 191 | | 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 | -- |
| 192 | | 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 | -- |
| 193 | | 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 | -- |
| 194 | | 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 | -- |



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| 195 | | 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 | -- |
| 196 | | 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 | -- |
| 197 | | 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 | -- |
| 198 | | 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 | -- |
| 199 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, gallium salt (9Cl)(PFHxS-Ga) | 341035-71-0 | -- |
| 200 | | 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 | -- |
| 201 | | 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 | -- |
| 202 | | 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 | -- |
| 203 | | 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 | -- |
| 204 | | 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 | -- |
| 205 | | Iodonium, bis[4-(1,1-dimethylpropyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonic(PFHxS-I (C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂) | 421555-74-0 | -- |
| 206 | | Perfluorohexane sulphonyl fluoride(PFHxS-F) | 423-50-7 | -- |
| 207 | | 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 | -- |
| 208 | | 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn) | 70136-72-0 | -- |
| 209 | | Tridecafluorohexanesulphonic acid, compound with 2,2'-iminodiethanol (1:1)(PFHxS-NH(C ₂ H ₅ O) ₂) | 70225-16-0 | -- |
| 210 | | 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 | -- |
| 211 | | Iodonium, bis[(1,1-dimethylethyl)phenyl]-, salt with 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1- | 866621-50-3 | -- |



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| | | hexanesulfonic acid (1:1) (9Cl) (PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂) | | |
| 212 | | 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 | -- |
| 213 | | Sulfonium, [4-[(2-methyl-1-oxo-2-propen-1-yl)oxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,5,5,6,6,6,7tridecafluoro-1-hexanesulfonate (1:1) (PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂) | 911027-68-4 | -- |
| 214 | | 1-Hexanesulfonic acid, 9,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-, cesium salt (1:1) (PFHxS-Cs) (PFHxS-Cs) | 92011-17-1 | -- |
| 215 | | 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 | -- |
| 216 | | Perfluorohexylsulfonyl chloride (PFHxS-Cl) | 55591-23-6 | -- |
| 217 | | 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 | -- |
| 218 | | Perfluorohexane sulfonate (anion) | 108427-53-8 | -- |
| 219 | | Tetrabutylphosphonium perfluorohexane sulfonate (PFHxS-P (C ₄ H ₉) ₄) | 2310194-12-6 | -- |
| 220 | -- | N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA) | 68259-15-4 | 0.010 |
| 221 | -- | Perfluorohexane sulfonamide (PFHxSA) | 41997-13-1 | 0.010 |
| 222 | -- | N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA) | 50598-28-2 | 0.010 |
| 223 | -- | 2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA) | 67584-57-0 | 0.200 |
| 224 | -- | 2-Propenoic acid, 2-methyl-, 2-[methyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester | 67584-61-6 | 0.200 |
| 225 | -- | 2-Propenoic acid, 2-methyl-, 2-[ethyl[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)sulfonyl]amino]ethyl ester | 67906-70-1 | 0.200 |



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| 226 | -- | 1-Hexanesulfonamide, 1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-(MeFHxSE) | 68555-75-9 | 0.010 |
| 227 | EtFHxSAA, its salts | Glycine, N-ethyl-N-[(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoroethyl)sulfonyl] (EtFHxSAA) | 68957-32-4 | 0.010 |
| 228 | | Potassium N-ethyl-n-[(tridecafluoroethyl)sulfonyl]glycinate (EtFHxSAA-K) | 67584-53-6 | -- |
| 229 | | Sodium N-ethyl-N-((tridecafluoroethyl)sulphonyl)glycinate (EtFHxSAA-Na) | 68555-70-4 | -- |
| 230 | PFHxA, its salts & derivatives | Perfluorohexane Acid (PFHxA) | 307-24-4 | 0.010 |
| 231 | | Ammonium perfluorohexanoate (APFHx) | 21615-47-4 | -- |
| 232 | | Sodium perfluorohexanoate (PFHxA-Na) | 2923-26-4 | -- |
| 233 | | Potassium perfluorohexanoate (PFHxA-K) | 3109-94-2 | -- |
| 234 | | Perfluorohexanoyl fluoride (PFHxA-F) | 355-38-4 | -- |
| 235 | | Silver perfluorohexanoate (PFHxA-Ag) | 336-02-7 | -- |
| 236 | | Lithium perfluorohexanoate (PFHxA-Li) | 90430-61-8 | -- |
| 237 | | Perfluorohexanoic anhydride | 308-13-4 | -- |
| 238 | | Hexanoic acid, undecafluoro-, compd. with piperazine (2:1) (8Cl,9Cl) | 423-47-2 | -- |
| 239 | | Perfluorohexanoate (anion) | 92612-52-7 | -- |
| 240 | | Perfluorohexanoyl chloride (PFHxA-Cl) | 335-53-5 | -- |
| 241 | | Undecafluorohexanoic acid--hexan-1-amine (1/1) (PFHxA-C ₆ H ₁₅ N) | 565225-91-4 | -- |
| 242 | | 1-phenylpiperazine; 2,2,3,3,4,4,5,5,6,6,6-undecafluorohexanoic acid (PFHxA-C ₁₀ H ₁₄ N ₂) | 985-60-4 | -- |
| 243 | -- | 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) | 647-42-7 | 0.100 |
| 244 | -- | 1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) | 2043-47-2 | 0.400 |
| 245 | -- | 1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) | 17527-29-6 | 0.200 |
| 246 | 6:2 FTS, its salts | 1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) | 27619-97-2 | 0.010 |
| 247 | | Sodium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-Na) | 27619-94-9 | -- |
| 248 | | Potassium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-K) | 59587-38-1 | -- |
| 249 | | Ammonium 1H,1H,2H,2H-Perfluorooctanesulfonate (6:2 FTS-NH ₄) | 59587-39-2 | -- |
| 250 | | 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 | -- |
| 251 | | 2-(Perfluorohexyl)ethane-1-sulfonate (6:2FTS(anion)) | 425670-75-3 | -- |
| 252 | -- | 1H,1H,2H,2H-Perfluorooctyltriethoxysilane (6:2 FTSi(OC ₂ H ₅) ₃) | 51851-37-7 | 0.500 |



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| 253 | -- | 1H,1H,2H,2H-Perfluorooctyltrichlorosilane | 78560-45-9 | 0.200 |
| 254 | -- | 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-6-iodohexane (PFHx-I) | 355-43-1 | 0.200 |
| 255 | -- | 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodononane | 38550-34-4 | 0.200 |
| 256 | -- | n-[3-(dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctanesulphonamide n-oxide | 80475-32-7 | 0.100 |
| 257 | -- | thiocyanic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester | 26650-09-9 | 0.200 |
| 258 | 6:2 monoPAP, its salts | 6:2 Fluorotelomer phosphate monoester (6:2 monoPAP) | 57678-01-0 | 0.100 |
| 259 | | Diammonium 6:2 fluorotelomer phosphate monoester (6:2 monoPAP-NH ₄ NH ₄) | 1000852-37-8 | - |
| 260 | -- | 2h,2h,3h,3h-perfluorononanoic acid (6:3 FTCA) | 27854-30-4 | 0.100 |
| 261 | -- | 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctane-1-thiol (6:2 FTSH) | 34451-26-8 | 0.200 |
| 262 | -- | 1H,1H,2H,2H-Perfluorooctyldimethylchlorosilane (6:2 FTSiMe ₂ Cl) | 102488-47-1 | 0.200 |
| 263 | -- | 1H,1H-Tridecafluoro-1-iodoheptane (6:1 FTI) | 212563-43-4 | 0.200 |
| 264 | -- | 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluorononyl iodide (6:3 FTI) | 89889-20-3 | 0.200 |
| 265 | 6:2 FTPA, its salts | Perfluorohexyl ethylphosphonic acid (6:2 FTPA) | 252237-40-4 | 0.100 |
| 266 | | Tridecafluorooctyl-phosphonic acid sodium salt (1:1) (Cheminox FHP ₂ OH-Na(PFHEPA-Na)) | 1189052-95-6 | -- |
| 267 | -- | 1-hexanol, 2,2,3,3,4,4,5,5,6,6,6-undecafluoro-(5:1 FTOH) | 423-46-1 | 0.200 |
| 268 | -- | 2,2,3,3,4,4,5,5,6,6,7,7,7-tridecafluoroheptan-1-ol (6:1 FTOH) | 375-82-6 | 0.200 |
| 269 | -- | 4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluorononan-1-ol (6:3 FTOH) | 80806-68-4 | 0.200 |
| 270 | -- | 3,3,4,4,5,5,6,6,7,7,7-undecafluoro-2-heptanol (5:2 sFTOH) | 914637-05-1 | 0.200 |
| 271 | -- | 1-(perfluorohexyl)octane (F ₆ H ₈) | 133331-77-8 | 0.200 |
| 272 | -- | 1H,1H-Tridecafluoroheptylamine (6:1 FTNH ₂) | 423-49-4 | 0.200 |
| 273 | -- | 2H-Perfluoro-2-octenoic acid (6:2 FTUCA) | 70887-88-6 | 0.010 |
| 274 | 6:6 PFPi, its salts | 6:6 Perfluorophosphinic acid (6:6 PFPi) | 40143-77-9 | 0.010 |
| 275 | | Bis(perfluorohexyl)phosphinic acid sodium salt (6:6 PFPi-Na) | 70609-44-8 | -- |
| 276 | | Bis(perfluorohexyl) phosphinic acid ytterbium(3+) salt (6:6 PFPi-Yb) | 500776-72-7 | -- |
| 277 | | Bis(perfluorohexyl) phosphinic acid erbium(3+) salt (6:6 PFPi-Er) | 500776-73-8 | -- |
| 278 | PFBA, its salts | Perfluorobutane Acid (PFBA) | 375-22-4 | 0.010 |
| 279 | | Ammonium perfluorobutanoate (PFBA-NH ₄) | 10495-86-0 | -- |



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|-----|--|---|-------------------------------------|-------------|
| 280 | | Sodium perfluorobutanoate (PFBA-Na) | 2218-54-4 | -- |
| 281 | | Potassium heptafluorobutanoate (PFBA-K) | 2966-54-3 | -- |
| 282 | | Silver perfluorobutanoate (PFBA-Ag) | 3794-64-7 | -- |
| 283 | | Lithium perfluorobutanoate (PFBA-Li) | 4146-76-3 | -- |
| 284 | | Heptafluorobutanoic acid-piperazine (1:1) | 375-04-2 | -- |
| 285 | | Perfluorobutanoate (anion) | 45048-62-2 | -- |
| 286 | | PFBS, its salts & derivatives | Perfluorobutanesulfonic acid (PFBS) | 375-73-5 |
| 287 | Perfluorobutanesulfonate K-salt (PFBS-K) | | 29420-49-3 | -- |
| 288 | Perfluorobutanesulfonic Acid Hydrate (PFBS-H ₂ O) | | 59933-66-3 | -- |
| 289 | lithium perfluorobutanesulfonate (PFBS-Li) | | 131651-65-5 | -- |
| 290 | Triphenyl Sulfonium Perfluorobutane Sulfonate (TPS-PFBS) | | 144317-44-2 | -- |
| 291 | Dimethyl(phenyl)sulfanium perfluorobutanesulfonate (PFBS-S(CH ₃) ₂ C ₆ H ₅) | | 220133-51-7 | -- |
| 292 | Tetrabutyl-phosphonium nonafluoro-butane-1-sulfonate (PFBS-P(C ₄ H ₉) ₄) | | 220689-12-3 | -- |
| 293 | 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 | -- |
| 294 | Nonafluorobutanesulfonyl fluoride (PFBS-F) | | 375-72-4 | -- |
| 295 | Morpholinium perfluorobutanesulfonate (PFBS-NC ₄ H ₉ O) | | 503155-89-3 | -- |
| 296 | Magnesium perfluorobutanesulfonate (PFBS-Mg) | | 507453-86-3 | -- |
| 297 | Ammonium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate (PFBS-NH ₄) | | 68259-10-9 | -- |
| 298 | 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate (PFBS-SC ₁₈ H ₂₃ O) | | 209482-18-8 | -- |
| 299 | 1,1,2,2,3,3,4,4,4-Nonafluorobutane-1-sulfonyl chloride (PFBS-Cl) | | 2991-84-6 | -- |
| 300 | Sodium perfluorobutanesulfonate (PFBS-Na) | | 60453-92-1 | -- |
| 301 | Bis(4-tert-butylphenyl)iodonium perfluoro-1-butanesulfonate (PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂) | | 194999-85-4 | -- |
| 302 | 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 | -- |
| 303 | Tetrabutylammonium nonafluorobutanesulfonate ((PFBS-N(C ₄ H ₉) ₄)) | | 108427-52-7 | -- |
| 304 | Diphenyliodonium nonafluorobutane-1-sulfonate((PFBS-I(C ₆ H ₅) ₂)) | | 194999-82-1 | -- |
| 305 | Sulfonium, tris[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanesulfonate (1:1) | | 241806-75-7 | -- |



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| 306 | | Sulfonium, (4-cyclohexylphenyl)diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 425670-64-0 | -- |
| 307 | | Thiophenium, tetrahydro-1-(1-methyl-1H-indol-3-yl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 867373-18-0 | -- |
| 308 | | Pyridinium, 1-ethyl-3-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 1015420-87-7 | -- |
| 309 | | 1H-Imidazolium, 1-methyl-3-octyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 905972-83-0 | -- |
| 310 | | 1H-Imidazolium, 3-hexyl-1-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 1001557-05-6 | -- |
| 311 | | 2-Propanaminium, N,N-dimethyl-N-(1-methylethyl)-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 374571-81-0 | -- |
| 312 | | Sulfonium, [4-[2-(1,1-dimethylethoxy)-2-oxoethoxy]phenyl]diphenyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 857285-80-4 | -- |
| 313 | | 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 124472-66-8 | -- |
| 314 | | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, zinc salt (2:1) (PFBS-Zn) | 502457-69-4 | -- |
| 315 | | 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,4-nonafluoro-1-butanefulfonate (1:1) | 56773-55-8 | -- |
| 316 | | Perfluorobutanefulfonic acid tetramethylammonium salt (PFBS-N(CH ₃) ₄) | 25628-17-5 | -- |
| 317 | | 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 1,1'-anhydride | 36913-91-4 | -- |
| 318 | | Perfluorobutane sulfonate (anion) | 45187-15-3 | -- |
| 319 | | 1-(4-butoxy-1-naphthyl)tetrahydrothiophenium nonafluorobutane-1-sulfonate | EC: 468-770-4 | -- |
| 320 | | Triethylammonium perfluorobutane sulfonate | 182059-38-7 | -- |
| 321 | | N-(2-Hydroxyethyl)-N,N-dimethyl-1-octanaminium perfluoro-1-butanefulfonate (1:1) | 334529-55-4 | -- |
| 322 | | 1-Hexadecylpyridinium perfluoro-1-butanefulfonate | 334529-62-3 | -- |
| 323 | | 1-Butylpyridinium perfluoro-1-butanefulfonate | 334529-64-5 | -- |
| 324 | | N-Methyl-N,N-dioctyl-1-octanaminium perfluoro-1-butanefulfonate | 495417-51-1 | -- |
| 325 | | Sulfonium, tris(4-methylphenyl)-, salt with perfluoro-1-butanefulfonic acid (1:1) | 722538-68-3 | -- |
| 326 | | Perfluoropentane Acid (PFPeA) | 2706-90-3 | 0.010 |



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| 327 | PFPeA, its salts | Sodium perfluoropentanoate(PFPeA-Na) | 2706-89-0 | -- |
| 328 | | Potassium perfluoropentanoate(PFPeA-K) | 336-23-2 | -- |
| 329 | | Lithium perfluoropentanoate (PFPeA-Li) | 198482-22-3 | -- |
| 330 | | Silver perfluoropentanoate (PFPeA-Ag) | 2795-30-4 | -- |
| 331 | | Ammonium perfluoropentanoate(PFPeA-NH ₄) | 68259-11-0 | -- |
| 332 | | Perfluoropentanoate (anion) | 45167-47-3 | -- |
| 333 | | Nonafluoropentanoic acid -1-benzylthiourea (1:1) (PFPeA-C ₈ H ₁₀ N ₂ S) | 64808-55-5 | -- |
| 334 | | Perfluoropentanoic anhydride (PFPeAA) | 308-28-1 | -- |
| 335 | HPFHpA, its salts | 7H-Dodecanefluoroheptane Acid (HPFHpA) | 1546-95-8 | 0.010 |
| 336 | | Sodium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-Na) | 2264-25-7 | -- |
| 337 | | Ammonium 2,2,3,3,4,4,5,5,6,6,7,7-dodecafluoroheptanoate (HPFHpA-NH ₄) | 376-34-1 | -- |
| 338 | | 7-H-Perfluoroheptanoate (HPFHpA(anion)) | 69681-35-2 | -- |
| 339 | PFHpS, its salts | Perfluoroheptanesulfonic Acid (PFHpS) | 375-92-8 | 0.010 |
| 340 | | Perfluoroheptanesulfonate Na-salt (PFHpS-Na) | 21934-50-9 | -- |
| 341 | | Potassium Perfluoroheptanesulfonate (PFHpS-K) | 60270-55-5 | -- |
| 342 | | Ammonium perfluoroheptanesulfonate (PFHpS-NH ₄) | 68259-07-4 | -- |
| 343 | | Lithium perfluoroheptanesulfonate (PFHpS-Li) | 117806-54-9 | -- |
| 344 | | 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-, compd. with 2,2'-iminobis[ethanol] (1:1) | 70225-15-9 | -- |
| 345 | | Perfluoroheptane sulfonate (anion) | 146689-46-5 | -- |
| 346 | | Triethylammonium perfluoroheptane sulfonate | 72033-40-0 | -- |
| 347 | | Tetraethylammonium perfluoroheptane sulfonate | 439863-97-5 | -- |
| 348 | | Perfluoroheptane sulfonic anhydride (PFHpSA) | 140429-92-1 | -- |
| 349 | PFHpA, its salts | Perfluoroheptane Acid (PFHpA) | 375-85-9 | 0.010 |
| 350 | | Sodium perfluoroheptanoate (PFHpA-Na) | 20109-59-5 | -- |
| 351 | | Potassium perfluoroheptanoate (PFHpA-K) | 21049-36-5 | -- |
| 352 | | Ammonium perfluoroheptanoate (PFHpA-NH ₄) | 6130-43-4 | -- |
| 353 | | Cesium perfluoroheptanoate (PFHpA-Cs) | 171198-24-6 | -- |
| 354 | | Silver perfluoroheptanoate (PFHpA-Ag) | 424-05-5 | -- |
| 355 | | Lithium perfluoroheptanoate (PFHpA-Li) | 60871-90-1 | -- |
| 356 | | Perfluoroheptanoate (anion) | 120885-29-2 | -- |
| 357 | | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) | 13252-13-6 | 0.010 |



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|-----|--|--|--|-------------|-------|
| 358 | HFPO-DA, its salts & derivatives | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, ammonium salts (HFPO-DA-NH ₄) | 62037-80-3 | -- | |
| 359 | | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, K- salts (HFPO-DA-K) | 67118-55-2 | -- | |
| 360 | | 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its acyl halides (HFPO-DA-F) | 2062-98-8 | -- | |
| 361 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (+)- | 75579-39-4 | -- | |
| 362 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)-, (-)- | 75579-40-7 | -- | |
| 363 | | Sodium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate | 67963-75-1 | -- | |
| 364 | | Perfluoro(2-propoxypropanoate) | 122499-17-6 | -- | |
| 365 | | 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid--N-propylpropan-1-amine (1/1) | 165951-17-7 | -- | |
| 366 | | Triethylaminium perfluoro-2-propoxypropanoate | 165951-18-8 | -- | |
| 367 | | 4-[(6-Methoxy-3-pyridazinyl)sulfamoyl]anilinium 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate | 298703-31-8 | -- | |
| 368 | | 2,3,6-Triiodobenzoic acid (1-methyl-3-piperidiny)methyl ester compd. with perfluoro-2-(propoxy)propanoate (1:1) (HFPO-C ₁₄ H ₁₆ I ₃ NO ₂) | 2412106-69-3 | -- | |
| 369 | | 4:2 FTS, its salts | 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS) | 757124-72-4 | 0.010 |
| 370 | | | 1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt | 27619-93-8 | -- |
| 371 | 4:2 Fluorotelomer sulfonate (4:2 FTS(anion)) | | 414911-30-1 | -- | |
| 372 | PFPeS, its salts | Perfluoropentane sulfonic acid (PFPeS) | 2706-91-4 | 0.010 | |
| 373 | | Sodium perfluoro-1-pentanesulfonate (PFPeS-Na) | 630402-22-1 | -- | |
| 374 | | Potassium perfluoropentane-1-sulphonate (PFPeS-K) | 3872-25-1 | -- | |
| 375 | | Ammonium perfluoropentanesulfonate (PFPeS-NH ₄) | 68259-09-6 | -- | |
| 376 | | Bis(2-hydroxyethyl) ammonium 1,1,2,2,3,3,4,4,5,5,5-undecafluoropentane-1-sulphonate | 70225-17-1 | -- | |
| 377 | | Undecafluoropentane-1-sulfonic acid lithium salt (PFPeS-Li) | 1046864-81-6 | -- | |
| 378 | | Perfluoropentane sulfonate (anion) | 175905-36-9 | -- | |
| 379 | | Triethylammonium perfluoropentane sulfonate | 72033-42-2 | -- | |
| 380 | | Perfluoropentane sulfonic anhydride (PFPeSA) | 161877-72-1 | -- | |
| 381 | -- | 2-Perfluorohexyl ethanoic acid (6:2 FTCA) | 53826-12-3 | 0.010 | |



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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|-----|--------------------------------------|---|--------------|-------------|
| 382 | -- | 3-Perfluoropentyl propanoic acid (5:3 FTCA) | 914637-49-3 | 0.010 |
| 383 | PFHxDA, its salts | Perfluorohexadecanoic Acid (PFHxDA) | 67905-19-5 | 0.010 |
| 384 | | Hentriacontafluorohexadecanoate anion (PFHxDA(anion)) | 1214264-30-8 | -- |
| 385 | PFODA, its salts | Perfluorooctadecanoic Acid (PFODA) | 16517-11-6 | 0.010 |
| 386 | | Perfluorooctadecanoate anion (PFODA(anion)) | 798556-82-8 | -- |
| 387 | -- | 1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA) | 2144-53-8 | 0.200 |
| 388 | ADONA, its salts | 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | 0.010 |
| 389 | | Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA-NH ₄) | 958445-44-8 | -- |
| 390 | | Sodium 4,8-dioxa-3H-perfluorononanoate (ADONA-Na) | 2250081-67-3 | -- |
| 391 | -- | Perfluoro-3-methoxypropanoic acid (PFMPA) | 377-73-1 | 0.010 |
| 392 | -- | Perfluoro-4-methoxybutanoic acid (PFMBA) | 863090-89-5 | 0.010 |
| 393 | -- | Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 151772-58-6 | 0.010 |
| 394 | 9Cl-PF ₃ ONS, its salts | 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF ₃ ONS) | 756426-58-1 | 0.010 |
| 395 | | Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF ₃ ONS-K) | 73606-19-6 | -- |
| 396 | | Ammonium perfluoro-2-[(6-chlorohexyl)oxy]ethane-1-sulfonate (9Cl-PF ₃ ONS-NH ₄) | 1383434-28-3 | -- |
| 397 | 11Cl-PF ₃ OUdS, its salts | 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF ₃ OUdS) | 763051-92-9 | 0.010 |
| 398 | | Potassium 11-chloroeicosafuoro-3-oxaundecane-1-sulfonate (11Cl-PF ₃ OUdS-K) | 83329-89-9 | -- |
| 399 | -- | Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA) | 113507-82-7 | 0.010 |
| 400 | -- | 3-Perfluoropropyl propanoic acid (3:3 FTCA) | 356-02-5 | 0.010 |
| 401 | PFPeDA, its salts | Perfluoropentadecanoic Acid (PFPeDA) | 141074-63-7 | 0.100 |
| 402 | | Nonacosafuoropentadecanoate (PFPeDA(anion)) | 1214264-29-5 | -- |
| 403 | -- | 1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA) | 1799-84-4 | 0.200 |
| 404 | -- | 2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC) | 423-82-5 | 0.200 |
| 405 | -- | 1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane (6:2 FTI) | 2043-57-4 | 0.100 |
| 406 | -- | Perfluorobutane sulfon amides (PFBSA) | 30334-69-1 | 0.100 |
| 407 | -- | 1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O) | 34454-97-2 | 0.010 |
| 408 | -- | 11H-Perfluoroundecanoic acid (11H-PFUnDA) | 1765-48-6 | 0.100 |



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| No. | Group Name | Substance Name | CAS No. | MDL (mg/kg) |
|-----|-----------------------|---|-------------|-------------|
| 409 | 11H-PFUnDA, its salts | Potassium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosaf luoroundecanoate (11H-PFUnDA-K) | 307-71-1 | -- |
| 410 | | Ammonium 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosaf luoroundecanoate (11H-PFUnDA-NH ₄) | 5081-02-7 | -- |
| 411 | | 11-H-Perfluoroundecanoate (11H-PFUnDA(anion)) | 69681-37-4 | -- |
| 412 | PFPrA, its salts | Pentafluoropropionic acid (PFPrA) | 422-64-0 | 0.100 |
| 413 | | Sodium pentafluoropropionate (PFPrA-Na) | 378-77-8 | -- |
| 414 | | Silver pentafluoropropionate (PFPrA-Ag) | 509-09-1 | -- |
| 415 | | Potassium pentafluoropropionate (PFPrA-K) | 378-76-7 | -- |
| 416 | | Ammonium pentafluoropropionate (PFPrA-NH ₄) | 2730-58-7 | -- |
| 417 | HFPO-TA, its salts | Hexafluoropropylene oxide trimer acid (HFPO-TA) | 13252-14-7 | 0.200 |
| 418 | | 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 | -- |
| 419 | | Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid, sodium salt (HFPO-TA-Na) | 67963-76-2 | -- |
| 420 | | Propanoic acid, 2,3,3,3-tetrafluoro-2-(1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy)-, ammonium salt (HFPO-TA-NH ₄) | 13043-05-5 | -- |
| 421 | | Perfluoro(2,5-dimethyl-3,6-dioxanonanoyl) fluoride (HFPO-TA-F) | 2641-34-1 | -- |
| 422 | -- | Perfluoroethane sulfonic acid (PFEtS) | 354-88-1 | 0.010 |
| 423 | 6:2 diPAP, its salts | 6:2 Fluorotelomer phosphate diester (6:2 diPAP) | 57677-95-9 | 0.010 |
| 424 | | Sodium bis[2-(perfluorohexyl)ethyl]phosphate (6:2 diPAP-Na) | 407582-79-0 | -- |
| 425 | | 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 | -- |
| 426 | TFSI, its salts | Bis(trifluoromethane)sulfonimide (TFSI) | 82113-65-3 | 0.010 |
| 427 | | 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide | 223437-11-4 | -- |
| 428 | | Tributylmethylammonium Bis(trifluoromethanesulfonyl)imide | 405514-94-5 | -- |
| 429 | | Lithium Bis(trifluoromethane)sulfonimide (TFSI-Li) | 90076-65-6 | -- |
| 430 | | 1-Decyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide | 433337-23-6 | -- |

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



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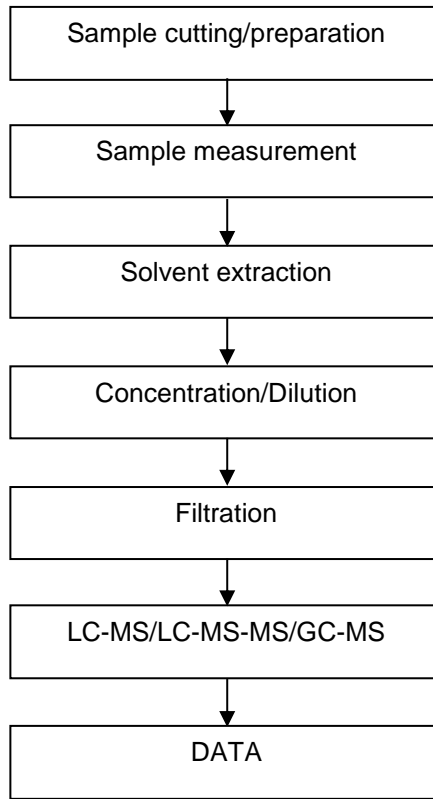
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
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ATTACHMENTS

PFASs/ PFOS/PFOA Testing Flow Chart



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com