

# SPEX<sup>®</sup> | CHIRON

PER- AND POLYFLUOROALKYL SUBSTANCE (PFAS) STANDARDS

ENVIRONMENTAL

## Explore Our Innovative & Expanding Portfolio for PFAS Testing

PFAS testing can be highly challenging which is why we make it easier with our convenient portfolio of PFAS reference materials. Advance environmental and health safety with standards you can trust.

### Product Features:

- Over 390 standards for your unique applications

### PFAS RMs:

- Various singles available
- Solutions in assorted solvents
- Useful for various matrices
- Custom standards of other PFAS compounds available on demand



CHIRON.NO

+47 73 87 44 90

SALES@CHIRON.NO

**ZeptoMetrix<sup>®</sup>**  
an antylia scientific company

## Olefines

Volume: 1 mL

| Part No.      | Product Name        | Synonym             | CAS No.  | Concentration | Matrix   |
|---------------|---------------------|---------------------|----------|---------------|----------|
| 15665.7-50-ME | Perfluorohept-1-ene | Perfluoro-1-heptene | 355-63-5 | 50 µg/mL      | methanol |

## Telomeric olefines

Volume: 1 mL

| Part No.       | Product Name                     | Synonym                      | CAS No.     | Concentration | Matrix   |
|----------------|----------------------------------|------------------------------|-------------|---------------|----------|
| 15585.8-50-ME  | 1H,1H,2H-Perfluoro-1-octene      | (Perfluorohexyl) ethene      | 25291-17-2  | 50 µg/mL      | methanol |
| 15586.10-50-ME | 1H,1H,2H-Perfluoro-1-decene      | (Perfluorooctyl) ethene      | 21652-58-4  | 50 µg/mL      | methanol |
| 15755.12-50-ME | 1H,1H,2H-Perfluoro-1-dodecene    | (Perfluorodecyl) ethylene    | 30389-25-4  | 50 µg/mL      | methanol |
| 15678.14-50-ME | 1H,1H,2H-Perfluoro-1-tetradecene | (Perfluorododecyl) ethylene  | 67103-05-3  | 50 µg/mL      | methanol |
| 15668.16-50-ME | 1H,1H,2H-Perfluoro-1-hexadecene  | Perfluorotetradecyl ethylene | 104564-28-5 | 50 µg/mL      | methanol |

## Carboxylic acids and salts

Volume: 1 mL

| Part No.       | Product Name                                  | Synonym                                          | CAS No.     | Concentration       | Matrix                    |
|----------------|-----------------------------------------------|--------------------------------------------------|-------------|---------------------|---------------------------|
| 15118.2-50-ME  | Perfluoroethanoic acid                        | PFEA; TFA                                        | 76-05-1     | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 15141.2-100-ME | Trifluoroacetate-1-13C, sodium salt           | TFA-13C1                                         | 286425-32-9 | 100 µg/mL           | methanol                  |
| 2190.3-50-ME   | Perfluoropropionic acid, sodium salt          | PFPrA-Na; Penta-fluoropropionic acid sodium salt | 378-77-8    | 50 µg salt/mL       | methanol                  |
| 2810.4-50-ME   | Perfluorobutyric acid                         | PFBA; Heptafluoro-butyric acid                   | 375-22-4    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2189.4-50-ME   | Perfluorobutyric acid, sodium salt            | PFBA-Na; Heptafluoro-butyric acid sodium salt    | 2218-54-4   | 50 µg conj. base/mL | methanol                  |
| 2819.5-50-ME   | n-Perfluoropentanoic acid                     | PFPA; n-Nonafluoro-pentanoic acid                | 2706-90-3   | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2590.6-50-ME   | Perfluorohexanoic acid                        | PFHxA                                            | 307-24-4    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2821.7-50-ME   | n-Perfluoroheptanoic acid                     | PFHpA                                            | 375-85-9    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2820.7-50-ME   | Perfluorocyclohexanecarboxylic acid           | PFCyHxA                                          | 374-88-9    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2042.8-10-AN   | n-Perfluorooctanoic acid                      | PFOA                                             | 335-67-1    | 10 µg/mL            | acetonitrile              |
| 2042.8-100-AN  | n-Perfluorooctanoic acid                      | PFOA                                             | 335-67-1    | 100 µg/mL           | acetonitrile              |
| 2042.8-10-ME   | n-Perfluorooctanoic acid                      | PFOA                                             | 335-67-1    | 10 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2042.8-50-ME   | n-Perfluorooctanoic acid                      | PFOA                                             | 335-67-1    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2822.8-50-ME   | n-Perfluorooctanoic acid, ammonium salt       | PFOA-NH <sub>4</sub>                             | 3825-26-1   | 50 µg salt/mL       | methanol                  |
| 2191.8-50-ME   | Perfluorooctanoic acid, sodium salt           | PFOA-Na                                          | 335-95-5    | 50 µg salt/mL       | methanol                  |
| 2715.9-50-ME   | Perfluorononanoic acid                        | PFNA                                             | 375-95-1    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2832.9-50-ME   | Perfluoro-3,5,5-trimethylhexanoic acid        | PF3,5,5TriMeHxA                                  | 238403-51-5 | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2823.10-50-ME  | n-Perfluorodecanoic acid                      | PFDA                                             | 335-76-2    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2824.10-50-ME  | Perfluoro-3,7-dimethyloctanoic acid           | PF3,7DiMeOA                                      | 172155-07-6 | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2874.11-50-ME  | Perfluoroundecanoic acid, n-isomer (major)    | PFUndA                                           | 2058-94-8   | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2826.12-50-ME  | n-Perfluorododecanoic acid                    | PFDodA                                           | 307-55-1    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 11367.13-50-ME | Perfluorotridecanoic acid, n-isomer (major)   | PFTTrDA; PFTriDA                                 | 72629-94-8  | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 16021.13-50-ME | n-Perfluorotridecanoic acid                   | PFTTrDA; PFTriDA                                 | 72629-94-8  | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2827.14-50-ME  | Perfluorotetradecanoic acid, n-isomer (major) | PFTedA                                           | 376-06-7    | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 15262.15-50-ME | Perfluoropentadecanoic acid (techn.)          | PFPeDA                                           | 141074-63-7 | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2828.16-50-ME  | Perfluorohexadecanoic acid                    | PFHxdA                                           | 67905-19-5  | 50 µg/mL            | MeOH with 4 mole eq. NaOH |
| 2829.18-50-ME  | Perfluorooctadecanoic acid                    | PFOdA                                            | 16517-11-6  | 50 µg/mL            | MeOH with 4 mole eq. NaOH |

**Dicarboxylic acids**

Volume: 1 mL

| Part No.       | Product Name                | Synonym                        | CAS No.    | Concentration | Matrix                    |
|----------------|-----------------------------|--------------------------------|------------|---------------|---------------------------|
| 15379.9-50-ME  | Perfluorononanedioic acid   | Tetradecafluoroazelaic acid    | 23453-64-7 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15380.12-50-ME | Perfluorododecanedioic acid | Eicosafluorododecanedioic acid | 865-85-0   | 50 µg/mL      | MeOH with 4 mole eq. NaOH |

**Carboxylic esters**

Volume: 1 mL

| Part No.       | Product Name               | Synonym                                  | CAS No.     | Concentration | Matrix       |
|----------------|----------------------------|------------------------------------------|-------------|---------------|--------------|
| 15684.11-50-ME | Dimethyl perfluoroazelate  | -                                        | 22116-90-1  | 50 µg/mL      | methanol     |
| 15682.8-50-AN  | Butyl perfluorobutanoate   | Butyl perfluorobutyrate                  | 1559-07-5   | 50 µg/mL      | acetonitrile |
| 15689.8-50-ME  | Methyl perfluoroheptanoate | -                                        | 14312-89-1  | 50 µg/mL      | methanol     |
| 12744.9-50-ME  | Methyl perfluorooctanoate  | -                                        | 376-27-2    | 50 µg/mL      | methanol     |
| 12745.10-50-AN | Ethyl perfluorooctanoate   | -                                        | 3108-24-5   | 50 µg/mL      | acetonitrile |
| 15688.11-50-ME | Methyl perfluorodecanoate  | -                                        | 307-79-9    | 50 µg/mL      | methanol     |
| 15686.14-50-AN | Ethyl perfluorododecanoate | Tricosafluorododecanoic acid ethyl ester | 158607-41-1 | 50 µg/mL      | acetonitrile |

**Telomeric carboxylic esters**

Volume: 1 mL

| Part No.      | Product Name                                         | Synonym | CAS No.   | Concentration | Matrix   |
|---------------|------------------------------------------------------|---------|-----------|---------------|----------|
| 15574.8-50-ME | Ethyl 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoroheptanoate | -       | 2338-77-4 | 50 µg/mL      | methanol |

**Telomeric acids, FTCAs**

Volume: 1 mL

| Part No.       | Product Name                         | Synonym                    | CAS No.     | Concentration | Matrix                    |
|----------------|--------------------------------------|----------------------------|-------------|---------------|---------------------------|
| 15034.8-50-ME  | 2H,2H-Perfluorooctanoic acid         | 6:2 FTCA; H2PFOA           | 53826-12-3  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 8548.10-50-ME  | 2H,2H-Perfluorodecanoic acid         | 8:2 FTCA; H2PFDA           | 27854-31-5  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 8547.11-50-ME  | 2H,2H,3H,3H-Perfluoroundecanoic acid | 8:3 FTCA; H4PFUnA; H-PFUdA | 34598-33-9  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15619.12-50-ME | 2H,2H,3H,3H-Perfluorododecanoic acid | 10:2 FTCA; FDEA            | 53826-13-4  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2830.6-50-ME   | 2H,2H,3H,3H-Perfluorohexanoic acid   | 3:3 FTCA                   | 356-02-5    | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 14847.8-50-ME  | 2H,2H,3H,3H-Perfluorooctanoic acid   | 5:3 FTCA                   | 914637-49-3 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2831.9-50-ME   | 2H,2H,3H,3H-Perfluorononanoic acid   | 6:3 FTCA                   | 27854-30-4  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15417.10-50-ME | 2H,2H,3H,3H-Perfluorodecanoic acid   | 7:3 FTCA; FHpPA            | 812-70-4    | 50 µg/mL      | MeOH with 4 mole eq. NaOH |

**Unsaturated telomeric acid, FTUCAs and unsaturated acids**

Volume: 1 mL

| Part No.       | Product Name                                             | Synonym                                                    | CAS No.     | Concentration | Matrix                    |
|----------------|----------------------------------------------------------|------------------------------------------------------------|-------------|---------------|---------------------------|
| 14801.6-50-ME  | 4,5,5,5-Tetrafluoro-4-(trifluoromethyl)-2-pentenoic acid | FTMeUPA                                                    | 243139-64-2 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 14802.6-50-ME  | 4-(Trifluoromethylhexafluoro)-2-pentenoic acid           | PFMeUPA                                                    | 239795-58-5 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2833.6-50-ME   | 2H,3H-Perfluoro-2-hexenoic acid                          | 3:3 FTUCA; 3:3 fluorotelomer unsaturated carboxylic acid   | 37759-76-5  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15264.8-50-ME  | 2H-Perfluoro-2-octenoic acid                             | 6:2 FTUCA; 6:2 fluorotelomer unsaturated carboxylic acid   | 70887-88-6  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 14173.10-50-ME | 2H-Perfluoro-2-decenoic acid                             | 8:2 FTUCA; 8:2 fluorotelomer unsaturated carboxylic acid   | 70887-84-2  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 14474.12-50-ME | 2H-Perfluoro-2-dodecenoic acid                           | 10:2 FTUCA; 10:2 fluorotelomer unsaturated carboxylic acid | 70887-94-4  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |

**XH perfluorocarboxylic acids**

Volume: 1 mL

| Part No.      | Product Name                 | Synonym                                        | CAS No.    | Concentration | Matrix                    |
|---------------|------------------------------|------------------------------------------------|------------|---------------|---------------------------|
| 15050.2-50-ME | 2H-Perfluoroethanoic acid    | 2H PFEA; HPFtBA; 2H-Difluoroethanoic acid      | 381-73-7   | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15051.3-50-ME | 3H-Perfluoropropanoic acid   | 3H PFPrA; HPFPrA; 3H-Tetrafluoropropanoic acid | 756-09-2   | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15052.4-50-ME | 4H-Perfluorobutanoic acid    | 4H PFBA; HPFBA; 4H-Hexafluorobutanoic acid     | 679-12-9   | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2834.5-50-ME  | 5H-Perfluoropentanoic acid   | 5H PFPeA; HPFPeA; 5H-Octafluoropentanoic acid  | 376-72-7   | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2835.7-50-ME  | 7H-Perfluoroheptanoic acid   | 7H PFHpA; HPFHpA                               | 1546-95-8  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15053.8-50-ME | 8H-Perfluorooctanoic acid    | 8H PFOA; HPFOA                                 | 13973-14-3 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2836.9-50-ME  | 9H-Perfluorononanoic acid    | 9H PFNA; HPFNA                                 | 76-21-1    | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 2825.11-50-ME | 11H-Perfluoroundecanoic acid | 11H PFUndA; HPFUndA                            | 1765-48-6  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |

**XH perfluorosulfonates**

Volume: 1 mL

| Part No.      | Product Name                                      | Synonym | CAS No.    | Concentration | Matrix   |
|---------------|---------------------------------------------------|---------|------------|---------------|----------|
| 15744.4-50-ME | 1,1,2,2,3,3,4,4-Octafluorobutane-1-sulphonic acid | -       | 70259-86-8 | 50 µg/mL      | methanol |

## Telomeric alcohols

Volume: 1 mL

| Part No.       | Product Name                             | Synonym           | CAS No.     | Concentration | Matrix    |
|----------------|------------------------------------------|-------------------|-------------|---------------|-----------|
| 14416.2-50-ME  | 2,2,2-Trifluoroethanol                   | 1:1 FTOH          | 75-89-8     | 50 µg/mL      | methanol  |
| 14829.3-50-ME  | 2,2-Difluoropropan-1-ol                  | 3H,3H,3H 2:1 FTOH | 33420-52-9  | 50 µg/mL      | methanol  |
| 14828.3-50-ME  | 3,3,3-Trifluoropropan-1-ol               | 1:2 FTOH          | 2240-88-2   | 50 µg/mL      | methanol  |
| 14827.3-50-ME  | 2,2,3,3,3-Pentafluoropropan-1-ol         | 2:1 FTOH          | 422-05-9    | 50 µg/mL      | methanol  |
| 14831.4-50-ME  | 1H,1H,2H,2H,3H,3H-Perfluorobutan-1-ol    | 1:3 FTOH          | 461-18-7    | 50 µg/mL      | methanol  |
| 2839.4-50-ME   | 1H,1H,2H,2H-Perfluorobutan-1-ol          | 2:2 FTOH          | 54949-74-5  | 50 µg/mL      | methanol  |
| 14830.4-50-ME  | 1H,1H-Perfluorobutan-1-ol                | 3:1 FTOH          | 375-01-9    | 50 µg/mL      | methanol  |
| 8802.6-50-ME   | 1H,1H,2H,2H-Perfluorohexan-1-ol          | 4:2 FTOH          | 2043-47-2   | 50 µg/mL      | methanol  |
| 2841.6-50-ME   | 1H,1H,2H,2H,3H,3H-Perfluorohexan-1-ol    | 3:3 FTOH          | 679-02-7    | 50 µg/mL      | methanol  |
| 2842.6-50-ME   | 1H,1H-Perfluorohexan-1-ol                | 5:1 FTOH          | 423-46-1    | 50 µg/mL      | methanol  |
| 15708.7-50-ME  | 1H,1H,2H,2H-Perfluoroheptan-1-ol         | 5:2s FTOH         | 185689-57-0 | 50 µg/mL      | methanol  |
| 2843.7-50-ME   | 1H,1H-Perfluoroheptan-1-ol               | 6:1 FTOH          | 375-82-6    | 50 µg/mL      | methanol  |
| 2147.8-50-ME   | 1H,1H,2H,2H-Perfluorooctan-1-ol          | 6:2 FTOH          | 647-42-7    | 50 µg/mL      | methanol  |
| 2145.8-10-ME   | 1H,1H-Perfluorooctan-1-ol                | 7:1 FTOH          | 307-30-2    | 10 µg/mL      | methanol  |
| 2145.8-50-ME   | 1H,1H-Perfluorooctan-1-ol                | 7:1 FTOH          | 307-30-2    | 50 µg/mL      | methanol  |
| 15741.9-50-ME* | 1H,1H,2H,2H-Perfluorooctan-1-ol          | 7:2s FTOH         | 755-02-2    | 50 µg/mL      | methanol  |
| 2844.9-50-ME   | 1H,1H,2H,2H,3H,3H-Perfluorononan-1-ol    | 6:3 FTOH          | 80806-68-4  | 50 µg/mL      | methanol  |
| 2847.9-50-ME   | 1H,1H,2H,2H-Perfluoro-7-methyloctan-1-ol | 7Me 6:1 FTOH      | 20015-46-7  | 50 µg/mL      | methanol  |
| 2846.9-50-ME   | 1H,1H,9H-Perfluorononan-1-ol             | 9H 8:1 FTOH       | 376-18-1    | 50 µg/mL      | methanol  |
| 2845.9-50-ME   | 1H,1H-Perfluorononan-1-ol                | 8:1 FTOH          | 423-56-3    | 50 µg/mL      | methanol  |
| 15549.9-50-ME  | 1H,1H,1H,2H-Perfluorononan-2-ol          | 7:2 FTOH          | 24015-83-6  | 50 µg/mL      | methanol  |
| 2851.10-50-ME  | 1H,1H,10H,10H-Perfluoro-1,10-decanediol  | 1:8:1 FTdIOH      | 754-96-1    | 50 µg/mL      | methanol  |
| 2849.10-50-ME  | 1H,1H,2H,2H-Perfluorodecan-1-ol          | 8:2 FTOH          | 678-39-7    | 50 µg/mL      | methanol  |
| 2848.10-50-ME  | 1H,1H-Perfluorodecan-1-ol                | 9:1 FTOH          | 307-37-9    | 50 µg/mL      | methanol  |
| 2850.10-50-ME  | 1H,1H-Perfluoro-3,7-dimethyloctan-1-ol   | 3,7DiMe 7:1 FTOH  | 232587-50-7 | 50 µg/mL      | methanol  |
| 2854.11-50-ME  | 1H,1H,2H,2H-Perfluoro-9-methyldecan-1-ol | 9Me 8:2 FTOH      | 31200-98-3  | 50 µg/mL      | methanol  |
| 2853.11-50-ME  | 1H,1H,11H-Perfluoroundecan-1-ol          | 11H 10:1 FTOH     | 307-70-0    | 50 µg/mL      | methanol  |
| 2852.11-50-ME  | 1H,1H-Perfluoroundecan-1-ol              | 10:1 FTOH         | 307-46-0    | 50 µg/mL      | methanol  |
| 2767.12-50-ME  | 1H,1H,2H,2H-Perfluorododecan-1-ol        | 10:2 FTOH         | 865-86-1    | 50 µg/mL      | methanol  |
| 15557.14-50-IO | 1H,1H,2H,2H-Perfluorododecyl acetate     | 10:2 FTOAc        | 37858-05-2  | 50 µg/mL      | isooctane |
| 3821.13-50-ME  | 1H,1H,13H-Perfluorotridecan-1-ol         | 13H 12:1 FTOH     | 423-72-3    | 50 µg/mL      | methanol  |
| 12220.14-50-ME | 1H,1H,2H,2H-Perfluorotetradecan-1-ol     | 12:2 FTOH         | 39239-77-5  | 50 µg/mL      | methanol  |
| 2855.14-50-ME  | 1H,1H-Perfluorotetradecan-1-ol           | 13:1 FTOH         | 15622-57-8  | 50 µg/mL      | methanol  |
| 2856.16-50-ME  | 1H,1H-Perfluorohexadecan-1-ol            | 15:1 FTOH         | 216144-94-4 | 50 µg/mL      | methanol  |
| 2857.18-50-ME  | 1H,1H-Perfluorooctadecan-1-ol            | 17:1 FTOH         | 242142-82-1 | 50 µg/mL      | methanol  |

\* Minimum order of 5 required

## Halogenides (iodides)

Volume: 1 mL

| Part No.       | Product Name              | Synonym                                  | CAS No.  | Concentration | Matrix       |
|----------------|---------------------------|------------------------------------------|----------|---------------|--------------|
| 15677.3-50-AN  | Perfluoropropyl iodide    | Heptafluoropropyl iodide; 66409; R21711  | 754-34-7 | 50 µg/mL      | acetonitrile |
| 15670.4-50-AN  | Perfluorobutyl iodide     | Nonafluoro-n-butyl iodide                | 423-39-2 | 50 µg/mL      | acetonitrile |
| 15676.5-50-AN  | Perfluoropentyl iodide    | Perfluoroamyl iodide                     | 638-79-9 | 50 µg/mL      | acetonitrile |
| 15583.6-50-ME  | Perfluorohexyl iodide     | Tridecafluorohexyl iodide                | 355-43-1 | 50 µg/mL      | methanol     |
| 15671.7-50-AN  | Perfluoro-n-heptyl iodide | Perfluoro-1-iodoheptane                  | 335-58-0 | 50 µg/mL      | acetonitrile |
| 15673.8-50-AN  | Perfluorooctyl iodide     | Heptadecafluoro-1-iodooctane; Telomer AN | 507-63-1 | 50 µg/mL      | acetonitrile |
| 15582.12-50-ME | Perfluorododecyl iodide   | Pentacosafuorododecyl iodide             | 307-60-8 | 50 µg/mL      | methanol     |

## Telomeric halogenides (iodides)

Volume: 1 mL

| Part No.       | Product Name                           | Synonym                                                          | CAS No.    | Concentration | Matrix       |
|----------------|----------------------------------------|------------------------------------------------------------------|------------|---------------|--------------|
| 15669.6-50-AN  | 1H,1H,2H,2H-Perfluorohexyl iodide      | 4:2 Fluorotelomer iodide; 4:2 FTI; Perfluorobutylethyl iodide    | 2043-55-2  | 50 µg/mL      | acetonitrile |
| 15584.8-50-ME  | 1H,1H,2H,2H-Perfluorooctyl iodide      | 6:2 Fluorotelomer iodide; 6:2 FTI; Perfluorohexylethyl iodide    | 2043-57-4  | 50 µg/mL      | methanol     |
| 15666.10-50-AN | 1H,1H,2H,2H-Perfluorodecyl iodide      | 8:2 Fluorotelomer iodide; 8:2 FTI; Perfluorooctylethyl iodide    | 2043-53-0  | 50 µg/mL      | acetonitrile |
| 15480.12-50-ME | 1H,1H,2H,2H-Perfluorododecyl iodide    | 10:2 Fluorotelomer iodide; 10:2 FTI; Perfluorodecylethyl iodide  | 2043-54-1  | 50 µg/mL      | methanol     |
| 10114.14-50-ME | 1H,1H,2H,2H-Perfluorotetradecyl iodide | 12:2 Fluorotelomer iodide; 12:2 FTI; Perfluorolaurylethyl iodide | 30046-31-2 | 50 µg/mL      | methanol     |

## Ethers

Volume: 1 mL

| Part No.       | Product Name                                                                     | Synonym                                          | CAS No.     | Concentration | Matrix    |
|----------------|----------------------------------------------------------------------------------|--------------------------------------------------|-------------|---------------|-----------|
| 15681.14-50-ME | 2H-Perfluoro-5,8,11-trimethyl-3,6,9,12-tetraoxapentadecane                       | Du Pont E 4; Freon 04; E 4 (oxygenator)          | 26738-51-2  | 50 µg/mL      | methanol  |
| 15692.6-50-ME  | 1H,1H,2'H-Perfluorodipropyl ether                                                |                                                  | 1000-28-8   | 50 µg/mL      | methanol  |
| 14513.5-50-ME  | Trifluoro(heptafluoro-1-propoxy) ethylene                                        | PPVE; Cheminox FPVE; Perfluoro(propylvinylether) | 1623-05-8   | 50 µg/mL      | methanol  |
| 14514.6-50-ME  | 1,1,2,2,3,3-Hexafluoro-1-(trifluoromethoxy)-3-[(1,2,2-trifluorovinyl)oxy]propane | MV 31                                            | 40573-09-9  | 50 µg/mL      | methanol  |
| 14398.9-K-IO   | 2-Trifluoromethyl-3-ethoxydecafluorohexane                                       | Novec HFE 7500; HFE 7500                         | 297730-93-9 | 1000 µg/mL    | isooctane |

**Telomeric alcohol internal standards**

Volume: 1 mL

| Part No.       | Product Name                           | Synonym      | CAS No.               | Concentration | Matrix   |
|----------------|----------------------------------------|--------------|-----------------------|---------------|----------|
| 11202.6-50-ME  | 1D,1D,2H,2H-1-Hydroxyperfluorohexane   | 4:2 FTOH-d2  | N/A                   | 50 µg/mL      | methanol |
| 11203.8-50-ME  | 1D,1D,2H,2H-1-Hydroxyperfluorooctane   | 6:2 FTOH-d2  | 647-42-7 (unlabelled) | 50 µg/mL      | methanol |
| 9825.10-50-ME  | 1D,1D,2H,2H-1-Hydroxyperfluorodecane   | 8:2 FTOH-d2  | N/A                   | 50 µg/mL      | methanol |
| 10089.12-50-ME | 1D,1D,2H,2H-1-Hydroxyperfluorododecane | 10:2 FTOH-d2 | N/A                   | 50 µg/mL      | methanol |

**Allylic alcohols telomers**

Volume: 1 mL

| Part No.     | Product Name                                              | Synonym          | CAS No.                           | Concentration | Matrix   |
|--------------|-----------------------------------------------------------|------------------|-----------------------------------|---------------|----------|
| 2858.6-50-ME | 1H,1H,2H,3H-Perfluorohex-2-en-1-ol                        | Allylic 3:3 FTOH | 37759-88-9                        | 50 µg/mL      | methanol |
| 2859.9-50-ME | 1H,1H,2H,3H-Perfluoronon-2-en-1-ol (cis/trans isomer mix) | Allylic 6:3 FTOH | 83707-01-1/83706-97-2 (cis/trans) | 50 µg/mL      | methanol |

**Esters of telomeric alcohols including internal standards**

Volume: 1 mL

| Part No.       | Product Name                              | Synonym                                                   | CAS No.                 | Concentration | Matrix       |
|----------------|-------------------------------------------|-----------------------------------------------------------|-------------------------|---------------|--------------|
| 10698.11-50-IO | 1H,1H,2H,2H-Perfluoro-n-octyl acrylate    | 6:2 FTAC; 6:2 Perfluorotelomer acrylate; 6:2 FTO acrylate | 17527-29-6              | 50 µg/mL      | isooctane    |
| 10698.11-50-AN | 1H,1H,2H,2H-Perfluoro-n-octyl acrylate    | 6:2 FTAC; 6:2 Perfluorotelomer acrylate; 6:2 FTO acrylate | 17527-29-6              | 50 µg/mL      | acetonitrile |
| 11204.11-50-IO | 1H,1H,2H,2H-Perfluoro-n-octyl acrylate-d3 | 6:2 FTAC-d3; 6:2 FTO acrylic acid-d3                      | 17527-29-6 (unlabelled) | 50 µg/mL      | isooctane    |
| 11204.11-50-AN | 1H,1H,2H,2H-Perfluoro-n-octyl acrylate-d3 | 6:2 FTAC-d3; 6:2 FTO acrylic acid-d3                      | 17527-29-6 (unlabelled) | 50 µg/mL      | acetonitrile |
| 9228.13-50-IO  | 1H,1H,2H,2H-Perfluoro-n-decyl acrylate    | 8:2 FTAC; 8:2 FTO acrylic acid; Repellion 120 C1          | 27905-45-9              | 50 µg/mL      | isooctane    |
| 9228.13-50-AN  | 1H,1H,2H,2H-Perfluoro-n-decyl acrylate    | 8:2 FTAC; 8:2 FTO acrylic acid; Repellion 120 C1          | 27905-45-9              | 50 µg/mL      | acetonitrile |
| 9520.13-50-IO  | 1H,1H,2H,2H-Perfluoro-n-decyl acrylate-d3 | 8:2 FTAC-d3; 8:2 FTO acrylic acid-d3                      | N/A                     | 50 µg/mL      | isooctane    |
| 9520.13-50-AN  | 1H,1H,2H,2H-Perfluoro-n-decyl acrylate-d3 | 8:2 FTAC-d3; 8:2 FTO acrylic acid-d3                      | N/A                     | 50 µg/mL      | acetonitrile |
| 10699.15-50-IO | 1H,1H,2H,2H-Perfluoro-n-dodecyl acrylate  | 10:2 FTAC; 10:2 Fluorotelomer acrylate                    | 17741-60-5              | 50 µg/mL      | isooctane    |
| 10699.15-50-AN | 1H,1H,2H,2H-Perfluoro-n-dodecyl acrylate  | 10:2 FTAC; 10:2 Fluorotelomer acrylate                    | 17741-60-5              | 50 µg/mL      | acetonitrile |

## Esters of telomeric alcohols including internal standards

Volume: 1 mL

| Part No.       | Product Name                                    | Synonym                                     | CAS No.                | Concentration | Matrix       |
|----------------|-------------------------------------------------|---------------------------------------------|------------------------|---------------|--------------|
| 11205.15-50-IO | 1H,1H,2H,2H-Perfluoro-n-dodecyl acrylate-d3     | 10:2 FTAC-d3; 10:2 FTO acrylic acid-d3      | N/A                    | 50 µg/mL      | isooctane    |
| 11205.15-50-AN | 1H,1H,2H,2H-Perfluoro-n-dodecyl acrylate-d3     | 10:2 FTAC-d3; 10:2 FTO acrylic acid-d3      | N/A                    | 50 µg/mL      | acetonitrile |
| 11206.12-50-IO | 1H,1H,2H,2H-Perfluoro-n-octyl methacrylate      | 6:2 FTMAC; 6:2 FTO methacrylic acid         | 2144-53-8              | 50 µg/mL      | isooctane    |
| 11206.12-50-AN | 1H,1H,2H,2H-Perfluoro-n-octyl methacrylate      | 6:2 FTMAC; 6:2 FTO methacrylic acid         | 2144-53-8              | 50 µg/mL      | acetonitrile |
| 11207.12-50-IO | 1H,1H,2H,2H-Perfluoro-n-octyl methacrylate-d5   | 6:2 FTMAC-d5; 6:2 FTO methacrylic acid-d5   | 2144-53-8 (unlabelled) | 50 µg/mL      | isooctane    |
| 11207.12-50-AN | 1H,1H,2H,2H-Perfluoro-n-octyl methacrylate-d5   | 6:2 FTMAC-d5; 6:2 FTO methacrylic acid-d5   | 2144-53-8 (unlabelled) | 50 µg/mL      | acetonitrile |
| 15687.13-50-AN | 1H,1H,9H-Perfluorononyl methacrylate            | 1H,1H,9H-Hexadecafluorononyl methacrylate   | 1841-46-9              | 50 µg/mL      | acetonitrile |
| 9519.14-50-IO  | 1H,1H,2H,2H-Perfluoro-n-decyl methacrylate      | 8:2 FTMAC; 8:2 FTO methacrylic acid         | 1996-88-9              | 50 µg/mL      | isooctane    |
| 9519.14-50-AN  | 1H,1H,2H,2H-Perfluoro-n-decyl methacrylate      | 8:2 FTMAC; 8:2 FTO methacrylic acid         | 1996-88-9              | 50 µg/mL      | acetonitrile |
| 9521.14-50-IO  | 1H,1H,2H,2H-Perfluoro-n-decyl methacrylate-d5   | 8:2 FTMAC-d5; 8:2 FTO methacrylic acid-d5   | N/A                    | 50 µg/mL      | isooctane    |
| 9521.14-50-AN  | 1H,1H,2H,2H-Perfluoro-n-decyl methacrylate-d5   | 8:2 FTMAC-d5; 8:2 FTO methacrylic acid-d5   | N/A                    | 50 µg/mL      | acetonitrile |
| 11208.16-50-IO | 1H,1H,2H,2H-Perfluoro-n-dodecyl methacrylate    | 10:2 FTMAC; 10:2 FTO methacrylic acid       | 2144-54-9              | 50 µg/mL      | isooctane    |
| 11208.16-50-AN | 1H,1H,2H,2H-Perfluoro-n-dodecyl methacrylate    | 10:2 FTMAC; 10:2 FTO methacrylic acid       | 2144-54-9              | 50 µg/mL      | acetonitrile |
| 11209.16-50-IO | 1H,1H,2H,2H-Perfluoro-n-dodecyl methacrylate-d5 | 10:2 FTMAC-d5; 10:2 FTO methacrylic acid-d5 | N/A                    | 50 µg/mL      | isooctane    |

## Aldehydes

Volume: 1 mL

| Part No.      | Product Name                    | Synonym                                | CAS No.  | Concentration | Matrix   |
|---------------|---------------------------------|----------------------------------------|----------|---------------|----------|
| 14898.7-50-ME | 1H,7H-Perfluoroheptane-1,1-diol | 1H,7H-Perfluoro-1-heptaldehyde hydrate | 812-87-3 | 50 µg/mL      | methanol |

## Alkylamines

Volume: 1 mL

| Part No.      | Product Name              | Synonym | CAS No.  | Concentration | Matrix   |
|---------------|---------------------------|---------|----------|---------------|----------|
| 15694.6-50-ME | 1H,1H-Perfluorohexylamine |         | 355-34-0 | 50 µg/mL      | methanol |

## Alkylamides

Volume: 1 mL

| Part No.       | Product Name                                        | Synonym                       | CAS No.     | Concentration | Matrix   |
|----------------|-----------------------------------------------------|-------------------------------|-------------|---------------|----------|
| 15119.2-50-ME  | Perfluoroethanamide                                 | Trifluoroacetamide            | 354-38-1    | 50 µg/mL      | methanol |
| 15120.3-50-ME  | Perfluoropropanamide                                | Pentafluoropropanamide        | 354-76-7    | 50 µg/mL      | methanol |
| 2837.4-50-ME   | Perfluorobutyramide                                 | Heptafluorobutyramide         | 662-50-0    | 50 µg/mL      | methanol |
| 15138.6-50-ME  | Perfluorohexanamide                                 | Undecafluorohexanamide        | 335-54-6    | 50 µg/mL      | methanol |
| 2838.8-50-ME   | Perfluorooctanamide                                 | Pentadecafluorooctanamide     | 423-54-1    | 50 µg/mL      | methanol |
| 15184.8-50-ME  | Perfluorooctanamide                                 | Pentadecafluorooctanimidamide | 307-31-3    | 50 µg/mL      | methanol |
| 15770.9-50-ME  | N-[3 (Dimethylamino)propyl] perfluoro-n-butanamide  | -                             | 64790-29-0  | 50 µg/mL      | methanol |
| 15771.10-50-ME | N-[3-(Dimethylamino)propyl] perfluoro-n-pentanamide | -                             | 153339-13-0 | 50 µg/mL      | methanol |

## Sulfonic acids

Volume: 1 mL

| Part No.      | Product Name                                  | Synonym  | CAS No.     | Concentration       | Matrix   |
|---------------|-----------------------------------------------|----------|-------------|---------------------|----------|
| 15140.2-50-ME | Perfluoroethanesulfonic acid, potassium salt  | PFES-K   | 2837-92-5   | 50 µg conj. base/mL | methanol |
| 14849.3-50-ME | Perfluoropropanesulfonic acid, sodium salt    | PFPrS-Na | 359868-82-9 | 50 µg conj. base/mL | methanol |
| 2041.4-10-ME  | Perfluorobutanesulfonic acid                  | PFBS     | 375-73-5    | 10 µg/mL            | methanol |
| 2041.4-50-ME  | Perfluorobutanesulfonic acid                  | PFBS     | 375-73-5    | 50 µg/mL            | methanol |
| 2719.4-50-ME  | Perfluorobutanesulfonic acid, potassium salt  | PFBS-K   | 29420-49-3  | 50 µg conj. base/mL | methanol |
| 15263.5-50-ME | Perfluoropentanesulfonic acid                 | PFPeS    | 2706-91-4   | 50 µg/mL            | methanol |
| 14797.5-50-ME | Perfluoropentanesulfonic acid, sodium salt    | PFPeS-Na | 630402-22-1 | 50 µg conj. base/mL | methanol |
| 8579.6-50-ME  | Perfluorohexanesulfonic acid                  | PFHxS    | 355-46-4    | 50 µg/mL            | methanol |
| 8581.6-50-ME  | Perfluorohexanesulfonic acid, potassium salt  | PFHxS-K  | 3871-99-6   | 50 µg conj. base/mL | methanol |
| 12433.7-50-ME | Perfluoroheptanesulfonic acid                 | PFHpS    | 375-92-8    | 50 µg/mL            | methanol |
| 11156.7-50-ME | Perfluoroheptanesulfonic acid, potassium salt | PFHpS-K  | 60270-55-5  | 50 µg conj. base/mL | methanol |

## Sulfonic acids

Volume: 1 mL

| Part No.         | Product Name                                                  | Synonym                 | CAS No.                      | Concentration       | Matrix   |
|------------------|---------------------------------------------------------------|-------------------------|------------------------------|---------------------|----------|
| 12467.7-50-ME    | Perfluoroheptanesulfonic acid, sodium salt                    | PFHpS-Na                | 21934-50-9                   | 50 µg conj. base/mL | methanol |
| 2037.8-50-ME     | Perfluorooctanesulfonic acid, techn. isomer mixture           | PFOS isomer mix.        | 1763-23-1 (for the n-isomer) | 50 µg/mL            | methanol |
| 14862.8-50-ME    | Perfluorooctanesulfonic acid, techn. isomer mixture, purified | PFOS isomer mix.        | 1763-23-1 (for the n-isomer) | 50 µg/mL            | methanol |
| 14910.8-50-ME    | Perfluorooctanesulfonic acid (n-isomer enriched)              | PFOS, n-isomer enriched | 1763-23-1                    | 50 µg/mL            | methanol |
| 14863.8-50-ME    | n-Perfluorooctanesulfonic acid                                | PFOS                    | 1763-23-1                    | 50 µg/mL            | methanol |
| 2193.8-50-ME     | Perfluorooctanesulfonic acid, potassium salt                  | PFOS-K                  | 2795-39-3                    | 50 µg conj. base/mL | methanol |
| 14717.30-50-ME   | Didecyltrimethylammonium perfluorooctane sulfonate            | PFOS-N                  | 251099-16-8                  | 50 µg/mL            | methanol |
| 12746.9-50-ME    | Methyl perfluorooctane sulfonate                              | -                       | 71417-25-9                   | 50 µg/mL            | methanol |
| 12747.10-50-ME   | Ethyl perfluorooctane sulfonate                               | -                       | 71417-26-0                   | 50 µg/mL            | methanol |
| 2192.8-50-ME     | Perfluoro-4-ethylcyclohexanesulfonic acid, potassium salt     | PFECHS-K                | 335-24-0                     | 50 µg conj. base/mL | methanol |
| 14799.9-50-ME    | Perfluorononanesulfonic acid, sodium salt                     | PFNS-Na                 | 98789-57-2                   | 50 µg conj. base/mL | methanol |
| 11157.10-50-ME   | Perfluorodecanesulfonic acid                                  | PFDS                    | 335-77-3                     | 50 µg/mL            | methanol |
| 11309.10-50-ME   | Perfluorodecanesulfonic acid, sodium salt                     | PFDS-Na                 | 2806-15-7                    | 50 µg conj. base/mL | methanol |
| 14963.12-50-ME   | Perfluorododecanesulfonic acid                                | PFDoDS                  | 79780-39-5                   | 50 µg/mL            | methanol |
| 14947.12-50-MEX5 | Perfluorododecanesulfonic acid, sodium salt                   | PFDoDS-Na               | 1260224-54-1                 | 50 µg conj. base/mL | methanol |

## Methyl sulfonates and disulfonates

Volume: 1 mL

| Part No.      | Product Name                                             | Synonym                                                                | CAS No. | Concentration | Matrix   |
|---------------|----------------------------------------------------------|------------------------------------------------------------------------|---------|---------------|----------|
| 15961.13-K-ME | 1H,1H,2H,2H-Perfluoro (methanesulfonyl)dodecane          | 10:2 FTSO <sub>2</sub> Me;<br>10:2 Fluorotelomer methylsulfone         | N/A     | 1000 µg/mL    | methanol |
| 15962.15-K-ME | 1H,1H,2H,2H-Perfluoro (methanesulfonyl)tetradecane       | 12:2 FTSO <sub>2</sub> Me;<br>12:2 Fluorotelomer methylsulfone         | N/A     | 1000 µg/mL    | methanol |
| 15963.13-K-ME | 1H,1H,2H,2H-Perfluoro (chloromethanesulfonyl)dodecane    | 10:2 FTSO <sub>2</sub> MeCl;<br>10:2 Fluorotelomer chloromethylsulfone | N/A     | 1000 µg/mL    | methanol |
| 15964.15-K-ME | 1H,1H,2H,2H-Perfluoro (chloromethanesulfonyl)tetradecane | 12:2 FTSO <sub>2</sub> MeCl;<br>12:2 Fluorotelomer chloromethylsulfone | N/A     | 1000 µg/mL    | methanol |
| 15965.16-K-ME | Bis(6:2Perfluorooctyl)sulfone                            | Bis(6:2 FT)SO <sub>2</sub>                                             | N/A     | 1000 µg/mL    | methanol |

## Telomeric sulfonic acid, FTSAs

Volume: 1 mL

| Part No.       | Product Name                               | Synonym             | CAS No.     | Concentration | Matrix   |
|----------------|--------------------------------------------|---------------------|-------------|---------------|----------|
| 15137.4-50-ME  | 1H,1H,2H,2H-Perfluorobutanesulfonic acid   | 2:2 FTSA; 2:2-FtS   | 149246-63-9 | 50 µg/mL      | methanol |
| 12748.6-50-ME  | 1H,1H,2H,2H-Perfluorohexanesulfonic acid   | 4:2 FTSA; 4:2-FtS   | 757124-72-4 | 50 µg/mL      | methanol |
| 2559.8-50-ME   | 1H,1H,2H,2H-Perfluorooctanesulfonic acid   | 6:2 FTSA; 6:2-FtS   | 27619-97-2  | 50 µg/mL      | methanol |
| 12749.10-50-ME | 1H,1H,2H,2H-Perfluorodecanesulfonic acid   | 8:2 FTSA; 8:2-FtS   | 39108-34-4  | 50 µg/mL      | methanol |
| 12750.12-50-ME | 1H,1H,2H,2H-Perfluorododecanesulfonic acid | 10:2 FTSA; 10:2-FtS | 120226-60-0 | 50 µg/mL      | methanol |

## Sulfonamides

Volume: 1 mL

| Part No.       | Product Name                                         | Synonym     | CAS No.     | Concentration | Matrix       |
|----------------|------------------------------------------------------|-------------|-------------|---------------|--------------|
| 15117.2-50-ME  | Perfluoroethanesulfonamide                           | FESA        | 78491-70-0  | 50 µg/mL      | methanol     |
| 15139.3-50-ME* | Perfluoropropansulfonamide                           | FPrSA       | 152894-03-6 | 50 µg/mL      | methanol     |
| 14170.4-50-ME  | n-Perfluorobutanesulfonamide                         | FBSA        | 30334-69-1  | 50 µg/mL      | methanol     |
| 14902.6-50-ME  | n-Perfluorohexanesulfonamide                         | FHSA        | 41997-13-1  | 50 µg/mL      | methanol     |
| 14903.6-50-ME  | Perfluorohexanesulfonamide, techn. isomer mixture    | FHSA        | 41997-13-1  | 50 µg/mL      | methanol     |
| 2043.8-10-AN   | Perfluorooctanesulfonamide, techn., n-isomer (major) | FOSA; PFOSA | 754-91-6    | 10 µg/mL      | acetonitrile |
| 2043.8-50-AN   | Perfluorooctanesulfonamide, techn., n-isomer (major) | FOSA; PFOSA | 754-91-6    | 50 µg/mL      | acetonitrile |
| 2043.8-100-ME  | Perfluorooctanesulfonamide, techn., n-isomer (major) | FOSA; PFOSA | 754-91-6    | 100 µg/mL     | methanol     |

\* Minimum order of 5 required

**Sulfonamides, N-methyl**

Volume: 1 mL

| Part No.       | Product Name                                       | Synonym                  | CAS No.                | Concentration | Matrix       |
|----------------|----------------------------------------------------|--------------------------|------------------------|---------------|--------------|
| 14171.5-50-ME  | N-Methyl-n-perfluorobutanesulfonamide              | MeFBSA                   | 68298-12-4             | 50 µg/mL      | methanol     |
| 14952.5-50-ME  | N-Methyl-n-perfluorobutanesulfonamide-d3           | MeFBSA-d3                | N/A                    | 50 µg/mL      | methanol     |
| 14904.7-50-ME  | N-Methyl-n-perfluorohexanesulfonamide              | N-MeFHSA, n-isomer       | 68259-15-4             | 50 µg/mL      | methanol     |
| 15037.7-50-ME  | N-Methylperfluorohexanesulfonamide, isomer mixture | N-MeFHSA, isomer mixture | 68259-15-4 as n-isomer | 50 µg/mL      | methanol     |
| 14905.7-50-ME  | N-Methyl-n-perfluorohexanesulfonamide-d3           | N-MeFHSA-d3, n-isomer    | N/A                    | 50 µg/mL      | methanol     |
| 11932.9-50-AN  | N-Methyl-n-perfluorooctanesulfonamide              | N-MeFOSA, n-isomer       | 31506-32-8             | 50 µg/mL      | acetonitrile |
| 11932.9-50-ME  | N-Methyl-n-perfluorooctanesulfonamide              | N-MeFOSA, n-isomer       | 31506-32-8             | 50 µg/mL      | methanol     |
| 13580.9-50-AN  | N-Methylperfluorooctanesulfonamide, isomer mix     | N-MeFOSA, isomer mixture | N/A                    | 50 µg/mL      | acetonitrile |
| 13260.9-50-AN  | N-Methyl-n-perfluorooctanesulfonamide-d3           | N-MeFOSA-d3, n-isomer    | 936109-37-4            | 50 µg/mL      | acetonitrile |
| 13579.9-50-AN  | N-Methylperfluorooctanesulfonamide-d3, isomer mix  | N-MeFOSA-d3, isomer mix  | N/A                    | 50 µg/mL      | acetonitrile |
| 13586.10-50-AN | N,N-Dimethyl-n-perfluorooctanesulfonamide          | N,N-Me2FOSA, n-isomer    | 213181-78-3            | 50 µg/mL      | acetonitrile |

**Sulfonamides, N-ethyl**

Volume: 1 mL

| Part No.       | Product Name                                     | Synonym                                             | CAS No.                    | Concentration | Matrix       |
|----------------|--------------------------------------------------|-----------------------------------------------------|----------------------------|---------------|--------------|
| 14953.6-50-AN  | N-Ethyl-n-perfluorobutanesulfonamide             | N-EtFBSA                                            | 40630-67-9                 | 50 µg/mL      | acetonitrile |
| 14954.6-50-AN  | N-Ethyl-n-perfluorobutanesulfonamide-d5          | N-EtFBSA-d5                                         | N/A                        | 50 µg/mL      | acetonitrile |
| 15809.6-50-ME  | N-(2-Hydroxyethyl)perfluoro-n-butanesulfonamide  | FBSAE                                               | 34454-99-4                 | 50 µg/mL      | methanol     |
| 14955.8-50-AN  | N-Ethyl-n-perfluorohexanesulfonamide             | N-EtFHSA                                            | 87988-56-5                 | 50 µg/mL      | acetonitrile |
| 14956.8-50-AN  | N-Ethyl-n-perfluorohexanesulfonamide-d5          | N-EtFHSA-d5                                         | N/A                        | 50 µg/mL      | acetonitrile |
| 11933.10-50-AN | N-Ethyl-n-perfluorooctanesulfonamide             | N-EtFOSA, n-isomer; Sulfluramid, n-isomer           | 4151-50-2                  | 50 µg/mL      | acetonitrile |
| 13587.10-50-AN | N-Ethylperfluorooctanesulfonamide, isomer mix    | N-EtFOSA, isomer mix; Sulfluramid, isomer mix       | N/A                        | 50 µg/mL      | acetonitrile |
| 13412.10-50-AN | N-Ethyl-n-perfluorooctanesulfonamide-d5          | N-EtFOSA-d5, n-isomer; Sulfluramid-d5, n-isomer     | 936109-40-9                | 50 µg/mL      | acetonitrile |
| 13588.10-50-AN | N-Ethylperfluorooctanesulfonamide-d5, isomer mix | N-EtFOSA-d5, isomer mix; Sulfluramid-d5, isomer mix | 936109-40-9 (for n-isomer) | 50 µg/mL      | acetonitrile |

**Sulfonamides, N-propyl**

Volume: 1 mL

| Part No.       | Product Name                             | Synonym               | CAS No.   | Concentration | Matrix       |
|----------------|------------------------------------------|-----------------------|-----------|---------------|--------------|
| 15551.11-50-AN | N-Propyl-n-perfluorooctanesulfonamide    | N-PrFOSA, n-isomer    | 2266-83-3 | 50 µg/mL      | acetonitrile |
| 15699.11-50-AN | N-Propyl-n-perfluorooctanesulfonamide-d7 | N-PrFOSA-d7, n-isomer | N/A       | 50 µg/mL      | acetonitrile |

**Sulfonamides, N-methyl, N-hydroxyethyl**

Volume: 1 mL

| Part No.       | Product Name                                             | Synonym      | CAS No.      | Concentration | Matrix       |
|----------------|----------------------------------------------------------|--------------|--------------|---------------|--------------|
| 15253.7-50-AN  | N-(2-Hydroxyethyl)-N-methylperfluorobutanesulfonamide    | N-MeFBSE     | 34454-97-2   | 50 µg/mL      | acetonitrile |
| 15254.7-50-AN  | N-(2-Hydroxyethyl)-N-methylperfluorobutanesulfonamide-d7 | N-MeFBSE-d7  | N/A          | 50 µg/mL      | acetonitrile |
| 15255.9-50-AN  | N-(2-Hydroxyethyl)-N-methylperfluorohexanesulfonamide    | N-MeFHxSE    | 68555-75-9   | 50 µg/mL      | acetonitrile |
| 15256.9-50-AN  | N-(2-Hydroxyethyl)-N-methylperfluorohexanesulfonamide-d7 | N-MeFHxSE-d7 | N/A          | 50 µg/mL      | acetonitrile |
| 10979.11-50-AN | N-(2-Hydroxyethyl)-N-methylperfluorooctanesulfonamide    | N-MeFOSE     | 24448-09-7   | 50 µg/mL      | acetonitrile |
| 10979.11-50-ME | N-(2-Hydroxyethyl)-N-methylperfluorooctanesulfonamide    | N-MeFOSE     | 24448-09-7   | 50 µg/mL      | methanol     |
| 14846.11-50-ME | N-(2-Hydroxyethyl)-N-methylperfluorooctanesulfonamide-d7 | N-MeFOSE-d7  | 1265205-95-5 | 50 µg/mL      | methanol     |

**Sulfonamides, N-ethyl, N-hydroxyethyl**

Volume: 1 mL

|                |                                                          |              |                        |          |              |
|----------------|----------------------------------------------------------|--------------|------------------------|----------|--------------|
| 15257.8-50-AN  | N-Ethyl-N-(2-hydroxyethyl)perfluorobutanesulphonamide    | N-EtFBSE     | 34449-89-3             | 50 µg/mL | acetonitrile |
| 15258.8-50-AN  | N-Ethyl-N-(2-hydroxyethyl)perfluorobutanesulphonamide-d9 | N-EtFBSE-d9  | N/A                    | 50 µg/mL | acetonitrile |
| 15259.10-50-AN | N-Ethyl-N-(2-hydroxyethyl)perfluorohexanesulphonamide    | N-EtFHxSE    | 34455-03-3             | 50 µg/mL | acetonitrile |
| 15352.10-50-AN | N-Ethyl-N-(2-hydroxyethyl)perfluorohexanesulphonamide-d9 | N-EtFHxSE-d9 | N/A                    | 50 µg/mL | acetonitrile |
| 11931.12-50-AN | N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulphonamide    | N-EtFOSE     | 1691-99-2              | 50 µg/mL | acetonitrile |
| 11931.12-50-ME | N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulphonamide    | -            | 1691-99-2              | 50 µg/mL | methanol     |
| 14848.12-50-ME | N-Ethyl-N-(2-hydroxyethyl)perfluorooctanesulphonamide-d9 | N-EtFOSE-d9  | 1691-99-2 (unlabelled) | 50 µg/mL | methanol     |

**Sulfonamides, N-propyl, N-hydroxyethyl**

Volume: 1 mL

| Part No.       | Product Name                                                | Synonym      | CAS No. | Concentration | Matrix       |
|----------------|-------------------------------------------------------------|--------------|---------|---------------|--------------|
| 15552.13-50-AN | N-Propyl-N-(2-hydroxyethyl) perfluorooctanesulphonamide     | N-PrFOSE     | N/A     | 50 µg/mL      | acetonitrile |
| 15698.13-50-AN | N-Propyl-N-(2-hydroxyethyl) perfluorooctanesulphonamide-d11 | N-PrFOSE-d11 | N/A     | 50 µg/mL      | acetonitrile |

**Sulfonylglycine**

Volume: 1 mL

| Part No.       | Product Name                                                | Synonym            | CAS No.                 | Concentration | Matrix       |
|----------------|-------------------------------------------------------------|--------------------|-------------------------|---------------|--------------|
| 14901.6-50-ME  | N-Perfluorobutanesulfonylglycine                            | FBSAA              | 347872-22-4             | 50 µg/mL      | methanol     |
| 14957.8-50-ME  | N-Perfluorohexanesulfonylglycine                            | FHxSAA             | 1003193-99-4            | 50 µg/mL      | methanol     |
| 15778.8-50-ME  | Perfluorohexanesulfonylglycine, isomer mixture              | FHxSAA, isomer mix | 1003193-99-4 (n-isomer) | 50 µg/mL      | methanol     |
| 14526.10-50-AN | N-Perfluorooctanesulfonylglycine                            | FOSAA              | 2806-24-8               | 50 µg/mL      | acetonitrile |
| 15772.12-50-ME | N-(Carboxymethyl)-N-[(heptadecafluorooctyl)sulfonyl]glycine | -                  | 251359-47-4             | 50 µg/mL      | methanol     |
| 15773.10-50-ME | N-(Carboxymethyl)-N-[(tridecafluorohexyl)sulfonyl]glycine   | -                  | N/A                     | 50 µg/mL      | methanol     |

**Sulfonylglycine, N-methyl**

Volume: 1 mL

| Part No.       | Product Name                                          | Synonym                  | CAS No.      | Concentration | Matrix   |
|----------------|-------------------------------------------------------|--------------------------|--------------|---------------|----------|
| 14172.7-50-ME  | N-Methyl-n-perfluorobutanesulfonylglycine             | N-MeFBSAA                | 159381-10-9  | 50 µg/mL      | methanol |
| 14949.7-50-ME  | N-Methyl-n-perfluorobutanesulfonylglycine-d3          | N-MeFBSAA-d3             | N/A          | 50 µg/mL      | methanol |
| 14950.9-50-ME  | N-Methyl-n-perfluorohexanesulfonylglycine             | N-MeFHxSAA               | 715646-50-7  | 50 µg/mL      | methanol |
| 14951.9-50-ME  | N-Methyl-n-perfluorohexanesulfonylglycine-d3          | N-MeFHxSAA-d3            | N/A          | 50 µg/mL      | methanol |
| 13257.11-50-ME | N-Methyl-n-perfluorooctanesulfonylglycine             | N-MeFOSAA, n-isomer      | 2355-31-9    | 50 µg/mL      | methanol |
| 13258.11-50-ME | N-Methyl-n-perfluorooctanesulfonylglycine-d3          | N-MeFOSAA-d3, n-isomer   | 1400690-70-1 | 50 µg/mL      | methanol |
| 13585.11-50-ME | N-Methylperfluorooctanesulfonylglycine-d3, isomer mix | N-MeFOSAA-d3, isomer mix | N/A          | 50 µg/mL      | methanol |

**Sulfonylglycine, N-ethyl**

Volume: 1 mL

| Part No.       | Product Name                                         | Synonym                  | CAS No.      | Concentration | Matrix   |
|----------------|------------------------------------------------------|--------------------------|--------------|---------------|----------|
| 14958.8-50-ME  | N-Ethyl-n-perfluorobutanesulfonylglycine             | N-EtFBSAA                | 68957-33-5   | 50 µg/mL      | methanol |
| 14959.8-50-ME  | N-Ethyl-n-perfluorobutanesulfonylglycine-d5          | N-EtFBSAA-d5             | N/A          | 50 µg/mL      | methanol |
| 14960.10-50-ME | N-Ethyl-n-perfluorohexanesulfonylglycine             | N-EtFHSAA                | 68957-32-4   | 50 µg/mL      | methanol |
| 14961.10-50-ME | N-Ethyl-n-perfluorohexanesulfonylglycine-d5          | N-EtFHSAA-d5             | N/A          | 50 µg/mL      | methanol |
| 13259.12-50-ME | N-Ethyl-n-perfluorooctanesulfonylglycine             | N-EtFOSAA, n-isomer      | 2991-50-6    | 50 µg/mL      | methanol |
| 13590.12-50-ME | N-Ethylperfluorooctanesulfonylglycine, isomer mix    | N-EtFOSAA, isomer mix    | N/A          | 50 µg/mL      | methanol |
| 13413.12-50-ME | N-Ethyl-n-perfluorooctanesulfonylglycine-d5          | N-EtFOSAA-d5, n-isomer   | 1265205-97-7 | 50 µg/mL      | methanol |
| 13591.12-50-ME | N-Ethylperfluorooctanesulfonylglycine-d5, isomer mix | N-EtFOSAA-d5, isomer mix | N/A          | 50 µg/mL      | methanol |

**Sulfonylglycine, N-carboxymethyl**

Volume: 1 mL

| Part No.      | Product Name                                                             | Synonym  | CAS No.      | Concentration | Matrix   |
|---------------|--------------------------------------------------------------------------|----------|--------------|---------------|----------|
| 15717.8-50-ME | N-(Carboxymethyl)-N-[(1,1,2,2,3,3,4,4,4-nonafluorobutyl)sulfonyl]glycine | FBSEE-DA | 1268835-43-3 | 50 µg/mL      | methanol |

**Other sulfonamides/-amines**

Volume: 1 mL

| Part No.       | Product Name                                                                            | Synonym                                                               | CAS No.      | Concentration | Matrix   |
|----------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------|---------------|----------|
| 15807.14-50-ME | 3-[[3-(Dimethylamino)propyl][(tridecafluorohexyl)sulfonyl]amino]-1-propanesulfonic acid | SPrAmPr-FHxSA; FH-SA-N-3-dimethylaminopropyl-N-3-propanesulfonic acid | 38850-60-1   | 50 µg/mL      | methanol |
| 15808.9-50-ME  | 3-[[[Perfluorohexyl)sulfonyl]amino]propanesulfonic acid                                 | SPr-FHxSA; FH-SA-N-3-propanesulfonic acid                             | 2089108-64-3 | 50 µg/mL      | methanol |
| 15707.15-50-ME | 6:2 Fluorotelomermercaptoalkylamido sulfonate                                           | 6:2 FTSAS                                                             | N/A          | 50 µg/mL      | methanol |

## Thioethers and sulfones

Volume: 1 mL

| Part No.       | Product Name                                              | Synonym                                                  | CAS No.      | Concentration | Matrix   |
|----------------|-----------------------------------------------------------|----------------------------------------------------------|--------------|---------------|----------|
| 15805.11-50-ME | 3-[(1H,1H,2H,2H-Perfluoro-n-octyl)thio]propanoic acid     | 6:2 FTThPrA; 6:2 Perfluorohexylthio 3-propanoic acid     | 149339-57-1  | 50 µg/mL      | methanol |
| 15806.11-50-ME | 3-[(1H,1H,2H,2H-Perfluoro-n-octyl)sulfonyl]propanoic acid | 6:2 FTSO2PrA; 6:2 Perfluorohexylsulfone 3-propanoic acid | 2089110-04-1 | 50 µg/mL      | methanol |

## Amphoteric sulfonamides and amides

Volume: 1 mL

| Part No.       | Product Name                                                                   | Synonym                                                     | CAS No.      | Concentration       | Matrix   |
|----------------|--------------------------------------------------------------------------------|-------------------------------------------------------------|--------------|---------------------|----------|
| 15799.10-50-ME | 3-[[[Perfluoro-n-butyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium bromide | PFBSAmS; FB-SA-N-(N,N,N-trimethyl-3-propanaminium) bromide  | N/A          | 50 µg conj. base/mL | methanol |
| 15800.12-50-ME | 3-[[[Perfluoro-n-hexyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium bromide | PFHxSAmS; FH-SA-N-(N,N,N-trimethyl-3-propanaminium) bromide | N/A          | 50 µg conj. base/mL | methanol |
| 15801.14-50-ME | 3-[[[Perfluoro-n-octyl)sulfonyl]amino]-N,N,N-trimethyl-1-propanaminium bromide | PFOSAmS; FO-SA-N-(N,N,N-trimethyl-3-propanaminium) bromide  | 73149-44-7   | 50 µg conj. base/mL | methanol |
| 15745.11-50-ME | N-[3-(Dimethylamino)propyl]perfluoro-n-hexanamide                              | PFHxAAM                                                     | 153339-14-1  | 50 µg/mL            | methanol |
| 15802.9-50-ME  | N-[3-(Dimethylamino)propyl]perfluoro-n-butanedisulfonamide                     | AmPr-FBSA; FB-SA-N-(N,N,N-trimethyl-3-propanamine)          | 68555-77-1   | 50 µg/mL            | methanol |
| 15803.11-50-ME | N-[3-(Dimethylamino)propyl]perfluoro-n-hexanedisulfonamide                     | AmPr-FHxSA; FH-SA-N-(N,N,N-trimethyl-3-propanamine)         | 50598-28-2   | 50 µg/mL            | methanol |
| 15804.13-50-ME | N-[3-(Dimethylamino)propyl]perfluoro-n-octylsulfonamide                        | AmPr-FOSA; FO-SA-N-(N,N,N-trimethyl-3-propanamine)          | 13417-01-1   | 50 µg/mL            | methanol |
| 15947.13-50-ME | Capstone product A                                                             | DPOSA                                                       | 80475-32-7   | 50 µg/mL            | methanol |
| 15774.17-50-ME | 8:2 Fluorotelomer thioether amido sulfonic acid                                | 8:2 FtTAoS                                                  | 755698-73-8  | 50 µg/mL            | methanol |
| 15775.13-50-ME | 4:2 Fluorotelomer thioether amido sulfonic acid                                | 4:2 FtTAoS                                                  | 1333933-57-5 | 50 µg/mL            | methanol |
| 15776.15-50-ME | 6:2 Fluorotelomer sulfonyl amido sulfonic acid                                 | 6:2 FtSO2AoS                                                | 1911606-13-7 | 50 µg/mL            | methanol |

**Sulfonyl acrylate, N-methyl**

Volume: 1 mL

| Part No.       | Product Name                                         | Synonym     | CAS No.    | Concentration | Matrix    |
|----------------|------------------------------------------------------|-------------|------------|---------------|-----------|
| 15332.10-50-IO | N-Methylperfluorobutanesulphonamidoethyl acrylate    | MeFBSEA     | 67584-55-8 | 50 µg/mL      | isooctane |
| 15333.10-50-IO | N-Methylperfluorobutanesulphonamidoethyl acrylate-d7 | MeFBSEA-d7  | N/A        | 50 µg/mL      | isooctane |
| 11857.12-50-IO | N-Methylperfluorohexanesulphonamidoethyl acrylate    | MeFHxSEA    | 67584-57-0 | 50 µg/mL      | isooctane |
| 15334.12-50-IO | N-Methylperfluorohexanesulphonamidoethyl acrylate-d7 | MeFHxSEA-d7 | N/A        | 50 µg/mL      | isooctane |
| 15067.14-50-IO | N-Methylperfluorooctanesulphonamidoethyl acrylate    | MeFOSEA     | 25268-77-3 | 50 µg/mL      | isooctane |
| 15335.14-50-IO | N-Methylperfluorooctanesulphonamidoethyl acrylate-d7 | MeFOSEA-d7  | N/A        | 50 µg/mL      | isooctane |

**Sulfonyl acrylate, N-ethyl**

Volume: 1 mL

| Part No.       | Product Name                                        | Synonym     | CAS No.    | Concentration | Matrix    |
|----------------|-----------------------------------------------------|-------------|------------|---------------|-----------|
| 15336.11-50-IO | N-Ethylperfluorobutanesulphonamidoethyl acrylate    | EtFBSEA     | 17329-79-2 | 50 µg/mL      | isooctane |
| 15337.11-50-IO | N-Ethylperfluorobutanesulphonamidoethyl acrylate-d9 | EtFBSEA-d9  | N/A        | 50 µg/mL      | isooctane |
| 15339.13-50-IO | N-Ethylperfluorohexanesulphonamidoethyl acrylate    | EtFHxSEA    | 1893-52-3  | 50 µg/mL      | isooctane |
| 15340.13-50-IO | N-Ethylperfluorohexanesulphonamidoethyl acrylate-d9 | EtFHxSEA-d9 | N/A        | 50 µg/mL      | isooctane |
| 15341.15-50-IO | N-Ethylperfluorooctanesulphonamidoethyl acrylate    | EtFOSEA     | 423-82-5   | 50 µg/mL      | isooctane |
| 15342.15-50-IO | N-Ethylperfluorooctanesulphonamidoethyl acrylate-d9 | EtFOSEA-d9  | N/A        | 50 µg/mL      | isooctane |

**Sulfonyl acrylate, N-propyl**

Volume: 1 mL

| Part No.       | Product Name                                          | Synonym     | CAS No.   | Concentration | Matrix    |
|----------------|-------------------------------------------------------|-------------|-----------|---------------|-----------|
| 15553.16-50-IO | N-Propylperfluorooctanesulphonamidoethyl acrylate     | PeFOSEA     | 2357-60-0 | 50 µg/mL      | isooctane |
| 15697.16-50-IO | N-Propylperfluorooctanesulphonamidoethyl acrylate-d11 | PeFOSEA-d11 | N/A       | 50 µg/mL      | isooctane |

**Sulfonyl methacrylate, N-methyl**

Volume: 1 mL

| Part No.       | Product Name                                             | Synonym      | CAS No.    | Concentration | Matrix    |
|----------------|----------------------------------------------------------|--------------|------------|---------------|-----------|
| 15343.11-50-IO | N-Methylperfluorobutanesulphonamidoethyl methacrylate    | MeFBSEMA     | 67584-59-2 | 50 µg/mL      | isooctane |
| 15344.11-50-IO | N-Methylperfluorobutanesulphonamidoethyl methacrylate-d7 | MeFBSEMA-d7  | N/A        | 50 µg/mL      | isooctane |
| 15345.13-50-IO | N-Methylperfluorohexanesulphonamidoethyl methacrylate    | MeFHxSEMA    | 67584-61-6 | 50 µg/mL      | isooctane |
| 15346.13-50-IO | N-Methylperfluorohexanesulphonamidoethyl methacrylate-d7 | MeFHxSEMA-d7 | N/A        | 50 µg/mL      | isooctane |
| 15347.15-50-IO | N-Methylperfluorooctanesulphonamidoethyl methacrylate    | MeFOSEMA     | 14650-24-9 | 50 µg/mL      | isooctane |
| 15348.15-50-IO | N-Methylperfluorooctanesulphonamidoethyl methacrylate-d7 | MeFOSEMA-d7  | N/A        | 50 µg/mL      | isooctane |

**Sulfonyl methacrylate, N-ethyl**

Volume: 1 mL

| Part No.       | Product Name                                            | Synonym      | CAS No.    | Concentration | Matrix    |
|----------------|---------------------------------------------------------|--------------|------------|---------------|-----------|
| 15349.12-50-IO | N-Ethylperfluorobutanesulphonamidoethyl methacrylate    | EtFBSEMA     | 67939-33-7 | 50 µg/mL      | isooctane |
| 15350.12-50-IO | N-Ethylperfluorobutanesulphonamidoethyl methacrylate-d9 | EtFBSEMA-d9  | N/A        | 50 µg/mL      | isooctane |
| 15351.14-50-IO | N-Ethylperfluorohexanesulphonamidoethyl methacrylate    | EtFHxSEMA    | 67906-70-1 | 50 µg/mL      | isooctane |
| 15353.14-50-IO | N-Ethylperfluorohexanesulphonamidoethyl methacrylate-d9 | EtFHxSEMA-d9 | N/A        | 50 µg/mL      | isooctane |
| 15354.16-50-IO | N-Ethylperfluorooctanesulphonamidoethyl methacrylate    | EtFOSEMA     | 376-14-7   | 50 µg/mL      | isooctane |
| 15355.16-50-IO | N-Ethylperfluorooctanesulphonamidoethyl methacrylate-d9 | EtFOSEMA-d9  | N/A        | 50 µg/mL      | isooctane |

**Sulfonyl methacrylate, N-propyl**

Volume: 1 mL

| Part No.       | Product Name                                              | Synonym      | CAS No.    | Concentration | Matrix    |
|----------------|-----------------------------------------------------------|--------------|------------|---------------|-----------|
| 15554.17-50-IO | N-Propylperfluorooctanesulphonamidoethyl methacrylate     | PrFOSEMA     | 13285-40-0 | 50 µg/mL      | isooctane |
| 15696.17-50-IO | N-Propylperfluorooctanesulphonamidoethyl methacrylate-d11 | PrFOSEMA-d11 | N/A        | 50 µg/mL      | isooctane |

**GenX and related**

Volume: 1 mL

| Part No.       | Product Name                                                           | Synonym                                                        | CAS No.    | Concentration       | Matrix    |
|----------------|------------------------------------------------------------------------|----------------------------------------------------------------|------------|---------------------|-----------|
| 14110.6-50-ME  | 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid               | HFPO-DA; "GENX" precursor; FRD-903; PFPrOPrA                   | 13252-13-6 | 50 µg/mL            | methanol  |
| 14110.6-100-ME | 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid               | HFPO-DA; "GENX" precursor; FRD-903; PFPrOPrA                   | 13252-13-6 | 100 µg/mL           | methanol  |
| 14112.6-50-ME  | 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid ammonium salt | GenX; FRD-902; Perfluoro-2-propoxypropanoic acid ammonium salt | 62037-80-3 | 50 µg conj. base/mL | methanol  |
| 15128.9-50-ME  | Hexafluoropropylene oxide trimer acid                                  | HFPO-TA; Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid         | 13252-14-7 | 50 µg/mL            | methanol  |
| 14115.7-50-ME  | Methyl 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionate            | HFPO-DA methyl ester; GENX methyl ester                        | 13140-34-6 | 50 µg/mL            | methanol  |
| 14515.5-50-IO  | 1,1,1,2,2,3,3-Heptafluoro-3-(1,2,2,2-tetrafluoroethoxy)propane         | Freon E1; Dupont E1                                            | 3330-15-2  | 50 µg/mL            | isooctane |

**ADONA and related:**

Volume: 1 mL

| Part No.       | Product Name                              | Synonym                   | CAS No.      | Concentration       | Matrix   |
|----------------|-------------------------------------------|---------------------------|--------------|---------------------|----------|
| 14175.7-50-ME  | Ammonium 4,8-dioxa-3H-perfluor-nonanoate  | ADONA (ammonium salt)     | 958445-44-8  | 50 µg conj. base/mL | methanol |
| 14176.7-50-ME  | Sodium dodecafluoro-3H-4,8-dioxanonanoate | NaDONA; ADONA sodium salt | 2250081-67-3 | 50 µg conj. base/mL | methanol |
| 14460.7-50-ME  | Dodecafluoro-3H-4,8-dioxanonanoic acid    | DONA                      | 919005-14-4  | 50 µg/mL            | methanol |
| 14460.7-100-ME | Dodecafluoro-3H-4,8-dioxanonanoic acid    | DONA                      | 919005-14-4  | 100 µg/mL           | methanol |

**9CI-PF3ONS and 11CI-PF3OUNS and related**

Volume: 1 mL

| Part No.       | Product Name                                                    | Synonym                                             | CAS No.      | Concentration       | Matrix   |
|----------------|-----------------------------------------------------------------|-----------------------------------------------------|--------------|---------------------|----------|
| 14174.8-50-ME  | 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid potassium salt | 9CI-PF3ONS-K; C8CI PFESA-K; F-53B-K; 6:2 CI-PFESA-K | 73606-19-6   | 50 µg conj. base/mL | methanol |
| 14462.10-50-ME | 11CI-PF3OUdS potassium salt                                     | 11CI-PF3OUdS-K                                      | 83329-89-9   | 50 µg conj. base/mL | methanol |
| 15882.4-50-ME  | Perfluoroethoxysulfonic acid, sodium salt                       | NVHOS-Na                                            | 1132933-86-8 | 50 µg conj. base/mL | methanol |
| 15883.4-50-ME  | 3-(Methoxy)tetrafluoropropionic acid                            | MTP                                                 | 93449-21-9   | 50 µg/mL            | methanol |

## Perfluoroalkyl ether sulfonic acids (PFESAs)

Volume: 1 mL

| Part No.       | Product Name                                            | Synonym                                                         | CAS No.     | Concentration | Matrix   |
|----------------|---------------------------------------------------------|-----------------------------------------------------------------|-------------|---------------|----------|
| 15884.7-50-ME  | Perfluoro-3,6-dioxa-4-methyl-7-octenesulfonic acid      | PS acid; PFESA BP1; Nafion by-product 1; Nafion BP1; NBP1       | 29311-67-9  | 50 µg/mL      | methanol |
| 15885.7-50-ME* | 7H-Perfluoro-4-methyl-3,6-dioxatanesulfonic acid        | Hydro-PS acid; PFESA BP2; Nafion by-product 2; Nafion BP2; NBP2 | 749836-20-2 | 50 µg/mL      | methanol |
| 14722.4-50-ME  | Perfluoro(2-ethoxyethane)sulfonic acid                  | PFEESA                                                          | 113507-82-7 | 50 µg/mL      | methanol |
| 15556.7-50-ME  | Perfluoro(4-methyl-3,6-dioxaoct-7-ene) sodium sulfonate | PSVNa                                                           | N/A         | 50 µg/mL      | methanol |

\* Minimum order of 5 required

## Perfluoroalkyl ether carboxylic acids (PFEECAs)

Volume: 1 mL

| Part No.       | Product Name                          | Synonym                                               | CAS No.     | Concentration | Matrix                    |
|----------------|---------------------------------------|-------------------------------------------------------|-------------|---------------|---------------------------|
| 15129.3-50-ME  | Perfluoro-2-methoxyacetic acid        | PFMOAA                                                | 674-13-5    | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 14721.4-50-ME  | Perfluoro-3-methoxypropanoic acid     | PFMPA                                                 | 377-73-1    | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 14056.5-50-ME  | Perfluoro-4-methoxybutanoic acid      | PFMOBA; PFMBBA                                        | 863090-89-5 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15932.8-50-ME  | EVE acid                              | Perfluoro-5-methyl-4,7-dioxanon-8-enoic acid          | 69087-46-3  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15933.8-50-ME  | Hydro-EVE acid                        | 8H-Perfluoro-5-methyl-4,7-dioxanonanoic acid          | 773804-62-9 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15413.5-50-ME  | Perfluoro-3,6-dioxaheptanoic acid     | NFDHA; 3,6-OPFHpa; Nonafluoro-3,6-dioxaheptanoic acid | 151772-58-6 | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15413.5-100-ME | Perfluoro-3,6-dioxaheptanoic acid     | NFDHA; 3,6-OPFHpa; Nonafluoro-3,6-dioxaheptanoic acid | 151772-58-6 | 100 µg/mL     | MeOH with 4 mole eq. NaOH |
| 15719.6-50-ME  | Perfluoro-3,6-dioxaoctanoic acid      | -                                                     | 80153-82-8  | 50 µg/mL      | MeOH with 4 mole eq. NaOH |
| 15720.6-50-ME* | Ammonium perfluoro-3,6-dioxaoctanoate | -                                                     | 908020-52-0 | 50 µg/mL      | methanol                  |

\* Please inquire

## Hexanol ethers

Volume: 1 mL

| Part No.       | Product Name                                         | Synonym | CAS No.      | Concentration | Matrix   |
|----------------|------------------------------------------------------|---------|--------------|---------------|----------|
| 15704.8-50-ME  | 6-(2,2,2-Trifluoroethoxy)-1-hexanol                  | -       | 1341666-66-7 | 50 µg/mL      | methanol |
| 15705.10-50-ME | 6-(2,2,3,3,4,4,4-Heptafluorobutoxy)-1-hexanol        | -       | 1207481-10-4 | 50 µg/mL      | methanol |
| 15706.12-50-ME | 6-[(2,2,3,3,4,4,5,5,6,6,6-undecaheptyloxy)-1-hexanol | -       | N/A          | 50 µg/mL      | methanol |

## Telomeric alkylsilanes

Volume: 1 mL

| Part No.       | Product Name                                        | Synonym                                                                 | CAS No.     | Concentration | Matrix       |
|----------------|-----------------------------------------------------|-------------------------------------------------------------------------|-------------|---------------|--------------|
| 15691.10-50-AN | 1H,1H,2H,2H-Perfluorooctyldimethyl-chlorosilane     | Chlorodimethyl[2-(perfluorohexyl)ethyl]silane                           | 102488-47-1 | 50 µg/mL      | acetonitrile |
| 15675.11-50-AN | 1H,1H,2H,2H-Perfluorooctyltrimethoxysilane          | Tridecafluorooctyltrimethoxysilane; Dynasilan F88161; HF 81             | 85857-16-5  | 50 µg/mL      | acetonitrile |
| 15674.14-50-AN | 1H,1H,2H,2H-Perfluorooctyltriethoxysilane           | 2-Perfluorohexylethyltriethoxysilane; Dynasilan8261; 13F (fluorosilane) | 51851-37-7  | 50 µg/mL      | acetonitrile |
| 15667.20-50-ME | (1H,1H,2H,2H-Perfluorotetradecyl)tris(ethoxy)silane | 1H,1H,2H,2H-Perfluorotetradecyltriethoxysilane                          | 885275-56-9 | 50 µg/mL      | methanol     |

## Other PFAS

Volume: 1 mL

| Part No.        | Product Name                                                                             | Synonym                                         | CAS No.     | Concentration | Matrix       |
|-----------------|------------------------------------------------------------------------------------------|-------------------------------------------------|-------------|---------------|--------------|
| 15672.8-50-AN   | 1H,1H,2H,2H-Perfluorooctanethiol                                                         | Foralkyl EM 6; 2-(Perfluorohexyl)ethane-1-thiol | 34451-26-8  | 50 µg/mL      | acetonitrile |
| 15683.7-50-ME   | (Hydroxymethyl)perfluorocyclohexane                                                      | (Perfluorocyclohexyl)methanol                   | 28788-68-3  | 50 µg/mL      | methanol     |
| 15693.8-50-ME   | 1H,1H-Perfluoro-3,6-dioxadecan-1-ol                                                      | -                                               | 152914-73-3 | 50 µg/mL      | methanol     |
| 15690.9-50-AN   | 3-Perfluorohexyl-2-iodopropan-1-ol                                                       | -                                               | 38550-44-6  | 50 µg/mL      | acetonitrile |
| 15716.13-50-ME  | N-[3-(Dimethylamino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octane-sulfonamide | M4; FS SAAM-6C                                  | 34455-22-6  | 50 µg/mL      | methanol     |
| 15718.4-50-MEX5 | 1,1,2,2,3,3,4,4,4-Nonafluoro-1-butane-sulfinic acid                                      | PFBSi                                           | 34642-43-8  | 50 µg/mL      | methanol     |

**PAPS**

Volume: 1 mL (reconstituted)

| Part No.       | Product Name             | Synonym                                 | CAS No.                       | Concentration       | Matrix   |
|----------------|--------------------------|-----------------------------------------|-------------------------------|---------------------|----------|
| 15280.6-50UG   | 4:2 MonoPAPS             | Mono[2-(perfluorobutyl)ethyl] phosphate | 150065-76-2                   | ca. 50 µg           | neat     |
| 9563.8-50UG    | 6:2 MonoPAPS             | -                                       | 57678-01-0                    | ca. 50 µg           | neat     |
| 11340.16-50-ME | 6:2 DiPAPS sodium salt   | -                                       | 407582-79-0                   | 50 µg conj. base/mL | methanol |
| 9565.24-50UG   | 6:2 TriPAPS              | -                                       | 165325-62-2                   | ca. 50 µg           | neat     |
| 9391.10-50UG   | 8:2 MonoPAPS             | -                                       | 57678-03-2                    | ca. 50 µg           | neat     |
| 14573.10-50-ME | 8:2 MonoPAPS sodium salt | -                                       | 130771-95-8 (Conjugated base) | 50 µg conj. base/mL | methanol |
| 9392.20-50UG   | 8:2 DiPAPS               | -                                       | 678-41-1                      | ca. 50 µg           | neat     |
| 14572.20-50-ME | 8:2 DiPAPS sodium salt   | -                                       | 114519-85-6                   | 50 µg conj. base/mL | methanol |
| 9566.12-50UG   | 10:2 MonoPAPS            | -                                       | 57678-05-4                    | ca. 50 µg           | neat     |
| 13264.24-50-ME | 10:2 DiPAPS sodium salt  | -                                       | 120433-74-1                   | 50 µg conj. base/mL | methanol |

**Deuterated internal standards PAPS**

Volume: 1 mL (reconstituted)

| Part No.       | Product Name               | Synonym | CAS No.                  | Concentration       | Matrix   |
|----------------|----------------------------|---------|--------------------------|---------------------|----------|
| 9928.16-50UG   | 6:2 DiPAPS-d4              | -       | N/A                      | ca. 50 µg           | neat     |
| 9929.20-50UG   | 8:2 DiPAPS-d4              | -       | N/A                      | ca. 50 µg           | neat     |
| 15759.24-50-ME | 10:2 DiPAPS-d4 sodium salt | -       | 120433-74-1 (unlabelled) | 50 µg conj. base/mL | methanol |

**FTEOs, commercial mixture**

Volume: 1 mL

| Part No.     | Product Name    | Synonym  | CAS No.      | Concentration | Matrix   |
|--------------|-----------------|----------|--------------|---------------|----------|
| 15853.X-K-ME | Capstone® FS-30 | 6:2 FTEO | 1640092-35-8 | 1000 µg/mL    | methanol |

**FT-metacrylate**

Volume: 1 mL

| Part No.       | Product Name   | Synonym            | CAS No.   | Concentration | Matrix       |
|----------------|----------------|--------------------|-----------|---------------|--------------|
| 15854.12-50-AN | Capstone® 62MA | 6:2 FT Metacrylate | 2144-53-8 | 50 µg/mL      | acetonitrile |

**Methods Cross Reference - All 50 µg/mL in methanol, 1 mL****Carboxylic Acids**

| Part No.       | Product Name                                  | Synonym        | CAS No.    | PFAS for Key EPA Methods |           |          |
|----------------|-----------------------------------------------|----------------|------------|--------------------------|-----------|----------|
|                |                                               |                |            | EPA 533                  | EPA 537.1 | EPA 1633 |
| 2810.4-50-ME   | Perfluorobutyric acid                         | PFBA           | 375-22-4   | x                        |           | x        |
| 2819.5-50-ME   | n-Perfluoropentanoic acid                     | PFPeA          | 2706-90-3  | x                        |           | x        |
| 2590.6-50-ME   | Perfluorohexanoic acid                        | PFHxA          | 307-24-4   | x                        | x         | x        |
| 2821.7-50-ME   | n-Perfluoroheptanoic acid                     | PFHpA          | 375-85-9   | x                        | x         | x        |
| 2042.8-50-ME   | n-Perfluorooctanoic acid                      | PFOA           | 335-67-1   | x                        | x         | x        |
| 2715.9-50-ME   | Perfluorononanoic acid                        | PFNA           | 375-95-1   | x                        | x         | x        |
| 2823.10-50-ME  | n-Perfluorodecanoic acid                      | PFDA           | 335-76-2   | x                        | x         | x        |
| 2874.11-50-ME  | Perfluoroundecanoic acid, n-isomer (major)    | PFUnDA         | 2058-94-8  | x                        | x         | x        |
| 2826.12-50-ME  | n-Perfluorododecanoic acid                    | PFDODA         | 307-55-1   | x                        | x         | x        |
| 16021.13-50-ME | n-Perfluorotridecanoic acid                   | PFTTrDA; PFTiA | 72629-94-8 |                          | x         | x        |
| 2827.14-50-ME  | Perfluorotetradecanoic acid, n-isomer (major) | PFTeDA         | 376-06-7   |                          | x         | x        |

**Sulfonic Acids**

|                |                                |       |            |   |   |   |
|----------------|--------------------------------|-------|------------|---|---|---|
| 2041.4-50-ME   | Perfluorobutanesulfonic acid   | PFBS  | 375-73-5   | x | x | x |
| 15263.5-50-ME  | Perfluoropentanesulfonic acid  | PFPeS | 2706-91-4  | x |   | x |
| 8579.6-50-ME   | Perfluorohexanesulfonic acid   | PFHxS | 355-46-4   | x | x | x |
| 12433.7-50-ME  | Perfluoroheptanesulfonic acid  | PFHpS | 375-92-8   | x |   | x |
| 14863.8-50-ME  | Perfluorooctanesulfonic acid   | PFOS  | 1763-23-1  | x | x | x |
| 14799.9-50-ME  | Perfluorononanesulfonic acid   | PFNS  | 98789-57-2 |   |   | x |
| 11157.10-50-ME | Perfluorodecanesulfonic acid   | PFDS  | 335-77-3   |   |   | x |
| 14963.12-50-ME | Perfluorododecanesulfonic acid | PFDoS | 79780-39-5 |   |   | x |

**Telomeric sulfonic Acids**

|                |                                          |                    |             |   |  |   |
|----------------|------------------------------------------|--------------------|-------------|---|--|---|
| 12748.6-50-ME  | 1H,1H,2H,2H-Perfluorohexanesulfonic acid | 4:2 FTS (4:2 FTSA) | 757124-72-4 | x |  | x |
| 2559.8-50-ME   | 1H,1H,2H,2H-Perfluorooctanesulfonic acid | 6:2 FTS            | 27619-97-2  | x |  | x |
| 12749.10-50-ME | 1H,1H,2H,2H-Perfluorodecanesulfonic acid | 8:2 FTS            | 39108-34-4  | x |  | x |

## Sulfonamides

| Part No.       | Product Name                                           | Synonym   | CAS No.    | PFAS for Key EPA Methods |           |          |
|----------------|--------------------------------------------------------|-----------|------------|--------------------------|-----------|----------|
|                |                                                        |           |            | EPA 533                  | EPA 537.1 | EPA 1633 |
| 16024.8-50-ME  | n-Perfluorooctanesulfonamide                           | (P)FOSA   | 754-91-6   | x                        | x         | x        |
| 11932.9-50-ME  | N-Methyl-n-perfluorooctanesulfonamide                  | NMeFOSA   | 31506-32-8 | x                        |           | x        |
| 13259.12-50-ME | N-Ethyl-n-perfluorooctanesulfonylglycine               | NEtFOSA   | 4151-50-2  | x                        | x         | x        |
| 10979.11-50-ME | N-(2-Hydroxyethyl)-N-methylperfluorooctane-sulfonamide | NMeFOSE   | 24448-09-7 | x                        |           | x        |
| 11931.12-50-ME | N-Ethyl-N-(2-hydroxyethyl)perfluorooctane-sulphonamide | NEtFOSE   | 1691-99-2  | x                        | x         | x        |
| 13257.11-50-ME | N-Methyl-n-perfluorooctanesulfonylglycine              | N-MeFOSAA | 2355-31-9  |                          |           | x        |
| 13259.12-50-ME | N-Ethyl-n-perfluorooctanesulfonylglycine               | N-EtFOSAA | 2991-50-6  |                          |           | x        |

## Ethers, Carboxylic acids

|               |                                                           |         |             |              |              |              |
|---------------|-----------------------------------------------------------|---------|-------------|--------------|--------------|--------------|
| 14175.7-50-ME | Ammonium 4,8-dioxa-3H-perfluorononanoate                  | ADONA   | 919005-14-4 | (X) NH4-salt | (X) NH4-salt | (X) NH4-salt |
| 14110.6-50-ME | 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy) propionic acid | HFPO-DA | 13252-13-6  | x            | x            | x            |

## Ethers, Carboxylic acids, other

|               |                                   |       |             |   |  |   |
|---------------|-----------------------------------|-------|-------------|---|--|---|
| 14721.4-50-ME | Perfluoro-3-methoxypropanoic acid | PFMPA | 377-73-1    | x |  | x |
| 15413.5-50-ME | Perfluoro-3,6-dioxaheptanoic acid | NFDHA | 151772-58-6 | x |  | x |
| 14056.5-50-ME | Perfluoro-4-methoxybutanoic acid  | PFMBA | 863090-89-5 | x |  | x |

## Telomeric acids

|                |                                    |                    |             |  |  |   |
|----------------|------------------------------------|--------------------|-------------|--|--|---|
| 2830.6-50-ME   | 2H,2H,3H,3H-Perfluorohexanoic acid | 3:3 FTCA           | 356-02-5    |  |  | x |
| 14847.8-50-ME  | 2H,2H,3H,3H-Perfluorooctanoic acid | 5:3 FTCA           | 914637-49-3 |  |  | x |
| 15417.10-50-ME | 2H,2H,3H,3H-Perfluorodecanoic acid | 7:3 FTCA;<br>FHpPA | 812-70-4    |  |  | x |

## Ethers, Sulfonic acids, 9CI-11CI etc

|                |                                                                 |                                 |            |            |            |            |
|----------------|-----------------------------------------------------------------|---------------------------------|------------|------------|------------|------------|
| 14462.10-50-ME | 11CI-PF3OUdS Potassium salt                                     | 11CI-PF3OUdS-K                  | 83329-89-9 | (X) K-salt | (X) K-salt | (X) K-salt |
| 14174.8-50-ME  | 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid potassium salt | 9CI-PF3ONS K;<br>6:2 CI-PFAES-K | 73606-19-6 | (X) K-salt | (X) K-salt | (X) K-salt |

## Ethers, Sulfonic acids, other

|               |                                        |        |             |   |  |   |
|---------------|----------------------------------------|--------|-------------|---|--|---|
| 14722.4-50-ME | Perfluoro(2-ethoxyethane)sulfonic acid | PFEESA | 113507-82-7 | x |  | x |
|---------------|----------------------------------------|--------|-------------|---|--|---|



**CHIRON.NO**

+47 73 87 44 90

SALES@CHIRON.NO