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**Stockholm Convention
on Persistent Organic
Pollutants**

Persistent Organic Pollutants Review Committee

Seventeenth meeting

Geneva, 24–28 January 2022

Agenda item 4 (f)

**Technical work: indicative list of substances covered by
the listing of perfluorooctanoic acid (PFOA), its salts and
PFOA-related compounds**

**Updated indicative list of substances covered by the listing of
perfluorooctanoic acid (PFOA), its salts and PFOA-related
compounds**

Note by the Secretariat

The annex to the present note sets out an updated indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds revised in consultation with the Persistent Organic Pollutants Review Committee. The present note, including its annex, has not been formally edited.

* Reissued for technical reasons on 21 March 2022.

Annex

Updated indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds (ver. February 2022)¹

1. Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds are listed in Annex A to the Stockholm Convention with the following definition:

“Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds” means the following:

- (i) Perfluorooctanoic acid (PFOA; CAS No: 335-67-1), including any of its branched isomers;
- (ii) Its salts;
- (iii) PFOA-related compounds which, for the purposes of the Convention, are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C₇F₁₅) C as one of the structural elements;

The following compounds are not included as PFOA-related compounds:

- (i) C₈F₁₇-X, where X= F, Cl, Br;
- (ii) Fluoropolymers that are covered by CF₃[CF₂]_n-R', where R'=any group, n>16;
- (iii) Perfluoroalkyl carboxylic and phosphonic acids (including their salts, esters, halides and anhydrides) with ≥8 perfluorinated carbons;
- (iv) Perfluoroalkane sulfonic acids (including their salts, esters, halides and anhydrides) with ≥9 perfluorinated carbons;
- (v) Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF), as listed in Annex B to the Convention.

2. As noted in paragraph 7 of decision SC-9/13, in order to support Parties and facilitate the identification of substances and understanding of the listing, the indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds was prepared by the Persistent Organic Pollutants Review Committee as set out in document UNEP/POPS/POPRC.13/INF/6/Add.1. Pursuant to paragraph 9 of the same decision, the following indicative lists have been prepared and updated, taking into account the information submitted by Parties and others:

(a) [Table 1](#): Indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds;

(b) [Table 2](#): Indicative list of substances not covered by the listing of PFOA, its salts and PFOA-related compounds;

(c) [Table 3](#): 2D structural formulas for some selected substances added by Switzerland to the indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds.

3. The lists are expected to be updated periodically, taking into account new information provided by Parties and others and in consultation with the Committee, and made available on the Convention's website.²

¹ The indicative list is not an exhaustive list.

² <http://chm.pops.int/TheConvention/ThePOPs/AllPOPs/tabid/2509/Default.aspx>.

Table 1: Indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds (ver. February 2022)

This list does not include sulfluramid (*N*-EtFOSA, *N*-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonamide, CAS No. 4151-50-2), as it is covered by the listing of perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF) in Annex B to the Stockholm Convention.

Known precursors of perfluorooctanoic acid (PFOA) are included based on the information made available to the Secretariat. The information on commercial use of PFOA, its salts and PFOA-related compounds is limited in the public domain. Parties and observers are invited to provide information on use of PFOA, its salts and PFOA-related compounds (brs@un.org) or consult information available in substance inventories such as the OECD Global Portal to Information on Chemical Substances ([eChemPortal](http://echemportal.oecd.org)).

Notes:

- a. Hyperlinks to the CAS Common Chemistry database are provided for those CAS numbers that have entries in that database;
- b. Perfluorooctanoic acid (PFOA; CAS No: 335-67-1), including any of its branched isomers;
- c. Salts of perfluorooctanoic acid (PFOA; CAS No: 335-67-1);
- d. PFOA-related compounds which, for the purposes of the Convention, are any substances that degrade to PFOA, including any substances (including salts and polymers) having a linear or branched perfluoroheptyl group with the moiety (C₇F₁₅)C as one of the structural elements;
- e. Polymers with \geq C₈ based perfluoroalkyl side chains;
- f. 8:2 fluorotelomer compounds;
- g. 10:2 fluorotelomer compounds;
- h. Whenever a compound contains a component degrading into PFOA, it is considered to be within the scope of the listing of PFOA, its salts and PFOA-related compounds under the Convention. This applies even if the compound contains other components that do not themselves degrade into PFOA. Such compounds are marked with an asterisk (*);
- i. References on transformation to PFOA are provided for those precursors that do not fall under the descriptions in columns (a), (b) or (c), i.e., have the column 'Other' ticked, and that have been added since UNEP/POPS/POPRC.16/INF/12. Existing studies have not tested PFOA precursors on an individual compound basis, but provide a well-established mechanistic understanding of the transformation pathways of groups of PFOA precursors that share similar molecular traits (e.g., n:2 fluorotelomer compounds with $n \geq 8$);
- j. 'x' indicates that the structural formula of this chemical is available in Table 3; '↑' and '↓' indicate that the latest or next substance with a structural formula is closely related to this one (i.e., different cation or different perfluoro chain length). Structural formulas of other chemicals are available on the website of the Stockholm Convention.³

³ <http://www.pops.int/TheConvention/POPsReviewCommittee/Meetings/POPRC16/POPRC16Followup/CommentsonRevPFOA/tabid/8948/Default.aspx>. Please see "Chemical structures of PFOA, its salts and PFOA-related compounds", submitted by the United States of America, 2021.

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
PFOA											
335-67-1	PFOA	Perfluorooctanoic acid		x							
45285-51-6	PFO	Perfluorooctanoate (conjugate base of the free acid) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ion(1-)		x							
PFOA isomers											
90480-55-0		Branched perfluorooctanoic acid		x							
1882109-81-0		Hexanoic acid, 2,2,3,4,5,5,6,6,6-nonafluoro-3,4-bis(trifluoromethyl)-		x							
1882109-80-9		Hexanoic acid, 2,3,3,4,4,5,6,6,6-nonafluoro-2,5-bis(trifluoromethyl)-		x							
1882109-79-6		Hexanoic acid, 2,2,3,3,4,5,5,6,6,6-decafluoro-4-(1,1,2,2,2-pentafluoroethyl)-		x							
1882109-78-5		Hexanoic acid, 2,2,3,4,4,5,5,6,6,6-decafluoro-3-(1,1,2,2,2-pentafluoroethyl)-		x							
1882109-77-4		Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-(1,1,2,2,3,3,3-heptafluoropropyl)-		x							
1882109-76-3		Pentanoic acid, 2,3,3,4,4,5,5,5-octafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-		x							
1882109-75-2		Pentanoic acid, 2,2,3,5,5,5-hexafluoro-3,4,4-tris(trifluoromethyl)-		x							
1882109-74-1		Pentanoic acid, 2,2,4,5,5,5-hexafluoro-3,3,4-tris(trifluoromethyl)-		x							
1882109-73-0		Pentanoic acid, 2,3,3,5,5,5-hexafluoro-2,4,4-tris(trifluoromethyl)-		x							
1882109-72-9		Pentanoic acid, 2,3,4,5,5,5-hexafluoro-2,3,4-tris(trifluoromethyl)-		x							
1882109-71-8		Pentanoic acid, 2,4,4,5,5,5-hexafluoro-2,3,3-tris(trifluoromethyl)-		x							
1882109-70-7		Pentanoic acid, 3,3,4,5,5,5-hexafluoro-2,2,4-tris(trifluoromethyl)-		x							
1882109-68-3		Pentanoic acid, 2,2,3,4,5,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-		x							

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
1882109-67-2		Pentanoic acid, 2,2,4,4,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-		x							
1882109-66-1		Pentanoic acid, 2,3,4,4,5,5-heptafluoro-3-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-		x							
1882109-65-0		Pentanoic acid, 2,3,3,4,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-4-(trifluoromethyl)-		x							
1882109-64-9		Pentanoic acid, 2,3,4,4,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-3-(trifluoromethyl)-		x							
1882109-63-8		Pentanoic acid, 3,3,4,4,5,5-heptafluoro-2-(1,1,2,2,2-pentafluoroethyl)-2-(trifluoromethyl)-		x							
1882109-69-4		Pentanoic acid, 3,4,4,5,5-hexafluoro-2,2,3-tris(trifluoromethyl)-		x							
1882109-62-7		Butanoic acid, 4,4,4-trifluoro-2,2,3,3-tetrakis(trifluoromethyl)-		x							
1882109-61-6		Butanoic acid, 2,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-3-(trifluoromethyl)-		x							
1882109-60-5		Butanoic acid, 2,3,3,4,4,4-hexafluoro-2-[2,2,2-trifluoro-1,1-bis(trifluoromethyl)ethyl]-		x							
1882109-59-2		Butanoic acid, 3,3,4,4,4-pentafluoro-2-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-2-(trifluoromethyl)-		x							
1882109-58-1		Butanoic acid, 3,3,4,4,4-pentafluoro-2,2-bis(1,1,2,2,2-pentafluoroethyl)-		x							
1812247-20-3		Hexanoic acid, 2,2,4,4,5,5,6,6,6-nonafluoro-3,3-bis(trifluoromethyl)-		x							
1812247-19-0		Hexanoic acid, 2,3,3,4,5,5,6,6,6-nonafluoro-2,4-bis(trifluoromethyl)-		x							
1812247-18-9		Hexanoic acid, 2,3,4,4,5,5,6,6,6-nonafluoro-2,3-bis(trifluoromethyl)-		x							
1812247-17-8		Hexanoic acid, 3,3,4,4,5,5,6,6,6-nonafluoro-2,2-bis(trifluoromethyl)-		x							
1192593-79-5		Hexanoic acid, 2,2,3,3,5,5,6,6,6-nonafluoro-4,4-bis(trifluoromethyl)-		x							
1144512-36-6		Hexanoic acid, 2,2,3,3,4,5,6,6,6-nonafluoro-4,5-bis(trifluoromethyl)-		x							

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
1144512-35-5		Hexanoic acid, 2,2,3,4,4,5,6,6,6-nonafluoro-3,5-bis(trifluoromethyl)-		x							
1144512-34-4		Hexanoic acid, 2,2,3,3,4,4,6,6,6-nonafluoro-5,5-bis(trifluoromethyl)-		x							
1144512-18-4		Heptanoic acid, 2,2,3,3,4,5,5,6,6,7,7,7-dodecafluoro-4-(trifluoromethyl)-		x							
909009-42-3		Heptanoic acid, 2,2,3,3,4,4,5,6,6,7,7,7-dodecafluoro-5-(trifluoromethyl)-		x							
705240-04-6		Heptanoic acid, 2,2,3,4,4,5,5,6,6,7,7,7-dodecafluoro-3-(trifluoromethyl)-		x							
207678-51-1		Heptanoic acid, 2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-2-(trifluoromethyl)-		x							
123116-17-6		Isooctanoic acid, pentadecafluoro-		x							
35605-76-6		Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-		x							
15166-06-0		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-		x							
PFOA salts (including linear and branched isomers)											
90480-56-1	APFO	Octanoic acid, pentadecafluoro-, branched, ammonium salt			x						
3825-26-1	APFO	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ammonium salt (1:1)			x						
335-95-5	Na-PFOA	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, sodium salt (1:1)			x						
2395-00-8	K-PFOA	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt (1:1)			x						
17125-58-5	Li-PFOA	Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, lithium salt (1:1)	Li ⁺ C ₇ F ₁₅ COO ⁻		x						
335-93-3		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, silver(1+) salt (1:1)			x						
68141-02-6		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) salt (3:1)			x						
98241-25-9		Ethanaminium, <i>N,N,N</i> -triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1)			x						

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
13058-06-5		Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, ammonium salt (1:1)			x						
1195164-59-0		Hexanoic acid, 2,3,3,4,4,5,5,6,6,6-decafluoro-2-(1,1,2,2,2-pentafluoroethyl)-, sodium salt (1:1)			x						
19742-57-5		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (1:1)			x						
61436-04-2		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, iron salt (1:x)			x						
29457-73-6		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, potassium salt (1:1)			x						
18017-22-6		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, sodium salt (1:1)			x						
15739-82-9		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, chromium salt (1:x)			x						
15715-47-6		Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, aluminum salt (3:1)			x						
Other PFCA mixtures containing PFOA											
68333-92-6		Fatty acids, C ₇₋₁₃ , perfluoro							x*	7	
69278-80-4		Ethylamine salts of C ₇ -C ₁₃ perfluorinated fatty acids							x*	7	
91032-01-8		Fatty acids, C ₇₋₁₉ , perfluoro							x*	7	
72968-38-8		Fatty acids, C ₇₋₁₃ , perfluoro, ammonium salts							x*	7	
72623-77-9		Fatty acids, C ₆₋₁₈ , perfluoro, ammonium salts	contains NH ₄ ⁺ C ₇ F ₁₅ COO ⁻						x*	7	
PFOA esters and anhydrides											
376-27-2		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, methyl ester							x	7	
3108-24-5		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, ethyl ester							x	7	
33496-48-9		Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, 1,1'-anhydride							x	7	
Perfluoroalkyl phosphinic acids (PFPIAs)											

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
68412-69-1		Phosphinic acid, bis(perfluoro-C ₆₋₁₂ -alkyl) derivs.							x*		
93062-53-4		Phosphinic acid, bis(perfluoro-C ₆₋₁₂ -alkyl) derivs., aluminum salts							x*		
40143-79-1	C ₈ /C ₈ -PFPIA	Bis(perfluorooctyl)phosphinic acid							x		
610800-34-5	C ₆ /C ₈ -PFPIA	Phosphinic acid, P-(1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctyl)-P-(1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluorohexyl)-							x		
Perfluoroalkyl halides (incl. linear and branched isomers)											
335-66-0		Octanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentafluoro-							x	7	
507-63-1	PFOI	Perfluorooctyl iodide							x	7	
307-50-6		Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-tricosafluoro-11-iodo-							x		
307-60-8		Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-12-iodo-							x		
307-63-1		Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-14-iodo-							x		
335-79-5		Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15-hentriacontafuoro-15-iodo-							x		
376-04-5		Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13-heptacosafuoro-13-iodo-							x		
423-62-1		Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-10-iodo-							x		
558-97-4		Nonane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-9-iodo-							x		
677-93-0		Decane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-eicosafuoro-10-iodo-2-(trifluoromethyl)-							x		

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
3248-61-1		Dodecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-tetracosafuoro-12-iodo-2-(trifluoromethyl)-							x		
3248-63-3		Tetradecane, 1,1,1,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-octacosafuoro-14-iodo-2-(trifluoromethyl)-							x		
90622-71-2		Alkyl iodides, C ₆₋₁₈ , perfluoro							x*		
Fluorotelomer iodides (FTIs)											
2043-53-0	8:2 FTI	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iodo-					x			7	
2043-54-1	10:2 FTI	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-12-iodo-						x			
30046-31-2	12:2 FTI	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafuoro-14-iodo-							x		
65510-55-6	14:2 FTI	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14-nonacosafuoro-16-iodo-							x		
65510-56-7	9:2 FTI	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-nonadecafluoro-11-iodo-							x		
68188-12-5	FTIs	Alkyl iodides, C ₄₋₂₀ , γ-ω-perfluoro							x*		
68390-33-0	FTIs	Alkyl iodides, C ₁₀₋₁₂ , γ-ω-perfluoro							x		
Fluorotelomer olefins (FTOs)											
21652-58-4	8:2 FTO	8:2 Fluorotelomer olefin 1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluoro-					x			7	
30389-25-4	10:2 FTO	1-Dodecene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-heneicosafuoro-						x			
Fluorotelomer alcohols (FTOHs)											

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
60699-51-6	14:2 FTOH	1-Hexadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuoro-	C ₁₄ F ₂₉ CH ₂ CH ₂ OH						x		
176676-70-3	13:2 FTOH	1-Pentadecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-heptacosafuoro-	C ₁₃ F ₂₇ CH ₂ CH ₂ OH						x	3, 4	
39239-77-5	12:2 FTOH	1-Tetradecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuoro-	C ₁₂ F ₂₅ CH ₂ CH ₂ OH						x		
1545-59-1	11:2 FTOH	1-Tridecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-tricosafuoro-	C ₁₁ F ₂₃ CH ₂ CH ₂ OH						x	3, 4	
865-86-1	10:2 FTOH	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	C ₁₀ F ₂₁ CH ₂ CH ₂ OH					x			
87017-97-8	9:2 FTOH	1-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-	C ₉ F ₁₉ CH ₂ CH ₂ OH						x	3, 4	
678-39-7	8:2 FTOH	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ OH				x			7	
Fluorotelomer saturated and non-saturated acids (FTCAs and FTUCAs)											
70887-94-4	10:2 FTUCA	2-Dodecenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-eicosafuoro-						x			
53826-13-4	10:2 FTCA	Dodecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	C ₁₀ F ₂₁ CH ₂ COOH					x			
191852-87-6	9:2 FTCA	Undecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-	C ₉ F ₁₉ CH ₂ COOH						x	3, 4	
70887-84-2	8:2 FTUCA	2-Decenoic acid, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hexadecafluoro-					x			7	
27854-31-5	8:2 FTCA	Decanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-					x				
Fluorotelomer phosphate esters (PAPs)											

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
54009-73-3		1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate)	$(F_3C)_2CFC_6F_{12}CH_2CH(OH)CH_2OP(=O)(OH)_2$						x		
63295-27-2		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate)	$(F_3C)_2CFC_8F_{16}CH_2CH(OH)CH_2OP(=O)(OH)_2$						x		
63295-28-3		1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate)	$(F_3C)_2CFC_{10}F_{20}CH_2CH(OH)CH_2OP(=O)(OH)_2$						x		
63295-29-4		1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate)	$(F_3C)_2CFC_{12}F_{24}CH_2CH(OH)CH_2OP(=O)(OH)_2$						x		
63295-18-1		1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt	$2 NH_4^+ (F_3C)_2CFC_6F_{12}CH_2CH(OH)CH_2OPO_3^{2-}$						x	3, 4	x
63295-19-2		1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexa decafluoro-10-(trifluoromethyl)-, 1-(dihydrogen phosphate), compd. with 2,2'-iminobis[ethanol] (1:2)	$2 NH_2^+(CH_2CH_2OH)_2 (F_3C)_2CFC_6F_{12}CH_2CH(OH)CH_2OPO_3^{2-}$						x	3, 4	x
63295-23-8		2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate, diammonium salt	$2 NH_4^+ (F_3C)_2CFC_6F_{12}CH_2CH(CH_3)OPO_3^{2-}$						x	3, 4	x
63295-24-9		Acetic acid, 2-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadeca fluoro-1-(phosphonoxy)methyl]-9-(trifluoromethyl) decyl]oxy]-, ammonium salt (1:2)	$2 NH_4^+ (F_3C)_2CFC_6F_{12}CH_2CH(OCH_2COOH)CH_2OPO_3^{2-}$						x	3, 4	x
63295-22-7		1-Undecanol, 2-chloro-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate	$(F_3C)_2CFC_6F_{12}CH_2CH(Cl)CH_2OP(=O)(OH)_2$						x	3, 4	x
94158-70-0		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-, 1-(dihydrogen phosphate)							x		

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
94200-46-1		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-, 1-(dihydrogen phosphate), diammonium salt							x		
94200-47-2		1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-, 1-(dihydrogen phosphate), diammonium salt							x		
94200-48-3		1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,17-nonacosafuoro-, 1-(dihydrogen phosphate), diammonium salt							x		
94200-50-7		1,2-Tridecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt							x		
94200-51-8		1,2-Pentadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt							x		
94200-52-9		1,2-Heptadecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-16-(trifluoromethyl)-, 1-(dihydrogen phosphate), diammonium salt							x		
57678-03-2	8:2 monoPAP	8:2 Fluorotelomer phosphate monoester					x			7	
		1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1-(dihydrogen phosphate)								7	
678-41-1	8:2 diPAP	8:2 Fluorotelomer phosphate diester					x				
		1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1,1'-(hydrogen phosphate)									
93857-44-4		1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, dihydrogen phosphate, diammonium salt	$2 \text{NH}_4^+ \text{C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{OPO}_3^{2-}$				x			7	
93857-45-5		1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)	$2 \text{NH}_4^+ \text{C}_{10}\text{F}_{21}\text{CH}_2\text{CH}_2\text{OPO}_3^{2-}$					x			

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
57678-05-4	10:2 monoPAP	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1-(dihydrogen phosphate)	$C_{10}F_{21}CH_2CH_2OP(=O)(OH)_2$					x			
1895-26-7	10:2 diPAP	1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1,1'-(hydrogen phosphate)	$(O)P(OH)(OCH_2CH_2C_{10}F_{21})_2$					x			
90179-37-6		2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-, dihydrogen phosphate, potassium salt	$x K^+ C_8F_{17}CH_2CH(CH_3)OPO_3^{2-}$						x	3, 4	
98005-85-7		Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2,2',2''-nitrlotris[ethanol] (1:3)	$3 N(CH_2CH_2OH)_3$ $C_8F_{17}CH_2CH_2OP(=O)(OH)OP(=O)(OH)_2$				x				x
98005-84-6		Diphosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, compd. with 2-aminoethanol (1:3)	$3 NH_2CH_2CH_2OH$ $C_8F_{17}CH_2CH_2OP(=O)(OH)OP(=O)(OH)_2$				x				x
1158182-60-5	8:2/10:2 diPAP	Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester	$(O)P(OH)(OCH_2CH_2C_8F_{17})(OCH_2CH_2C_{10}F_{21})$				x	x			x
1578186-42-1	8:2/12:2 diPAP	Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl) ester	$(O)P(OH)(OCH_2CH_2C_8F_{17})(OCH_2CH_2C_{12}F_{25})$				x				↑
1158182-61-6	10:2/12:2 diPAP	Phosphoric acid, mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl) mono(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl) ester	$(O)P(OH)(OCH_2CH_2C_{10}F_{21})(OCH_2CH_2C_{12}F_{25})$					x			↑
93776-20-6	Ammonium salt of 8:2 diPAP	Ammonium bi(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) phosphate	$NH_4^+ OP(O^-)(OCH_2CH_2C_8F_{17})_2$				x				x
93776-21-7	Ammonium salt of 10:2 diPAP	Ammonium bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorodecyl) phosphate	$NH_4^+ OP(O^-)(OCH_2CH_2C_{10}F_{21})_2$					x			↑
63295-20-5		1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, 1,1-(hydrogen phosphate)	$OP(OH)[OCH_2CH(OH)CH_2C_6F_{12}CF(CF_3)_2]_2$						x	3, 4	x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
63295-26-1		1-Undecanol, 2-chloro-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, hydrogen phosphate	OP(OH)[OCH ₂ CH(Cl)CH ₂ C ₆ F ₁₂ CF(CF ₃) ₂] ₂						x	3, 4	x
2343-53-5		1-Nonadecanol, 12,12,13,13,14,14,15,15,16,16,17,17, 18,18,19,19,19-heptadecafluoro-, dihydrogen phosphate	OP(OH)[O(CH ₂) ₁₁ C ₈ F ₁₇] ₂				x				x
1578186-53-4	6:2/6:2/8:2 triPAP	Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ester	OP(OCH ₂ CH ₂ C ₆ F ₁₃) ₂ OCH ₂ CH ₂ C ₈ F ₁₇				x				x
1578186-56-7	6:2/8:2/8:2 triPAP	Phosphoric acid, bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	OP(OCH ₂ CH ₂ C ₈ F ₁₇) ₂ OCH ₂ CH ₂ C ₆ F ₁₃				x				↑
1578186-64-7	6:2/8:2/10:2 triPAP	Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl ester	OP(OCH ₂ CH ₂ C ₆ F ₁₃)(OCH ₂ CH ₂ C ₈ F ₁₇)OCH ₂ CH ₂ C ₁₀ F ₂₁				x	x			↑
1578186-57-8	6:2/6:2/10:2 triPAP	Phosphoric acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecylbis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl) ester	OP(OCH ₂ CH ₂ C ₆ F ₁₃) ₂ OCH ₂ CH ₂ C ₁₀ F ₂₁					x			↑
149790-22-7	8:2 triPAP	1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, 1,1',1''-phosphate	OP(OCH ₂ CH ₂ C ₈ F ₁₇) ₃				x				↑
441765-20-4		1-Decanesulfonamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro- <i>N</i> -[3-(phosphono oxy)propyl]- <i>N</i> -propyl-, sodium salt (1:2)	2 Na ⁺ C ₈ F ₁₇ CH ₂ CH ₂ SO ₂ N(C ₃ H ₇)CH ₂ CH ₂ CH ₂ OPO ₃ ²⁻				x				x
Fluorotelomer acrylates and methacrylates (FTACs and FTMACs)											
16083-78-6		2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,17,17,17-octacosafuoro-2-hydroxy-16-(trifluoromethyl)heptadecyl ester							x		
4980-53-4	14:2 FTMAC	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl ester							x		
6014-75-1	12:2 FTMAC	2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl ester							x		

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
16083-87-7		2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl ester							x		
52956-82-8		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester							x		
74256-14-7		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-icosafuoro-11-(trifluoromethyl)dodecyl ester							x		
74256-15-8		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl ester							x		
17741-60-5	10:2 FTAC	2-(Perfluorodecyl) ethyl acrylate						x			
		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester									
2144-54-9	10:2 FTMAC	2-(Perfluorodecyl) ethyl methacrylate						x			
		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester									
27905-45-9	8:2 FTAC	8:2 Fluorotelomer acrylate					x			7	
		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester									7
1996-88-9	8:2 FTMAC	8:2 Fluorotelomer methacrylate					x			7	
		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester									
85631-54-5	FTACs	2-Propenoic acid, γ - ω -perfluoro-C8-14-alkyl esters					x	x	x		
91615-22-4		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl ester							x		

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
94158-63-1		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafluoro-17-(trifluoromethyl)octadecyl ester							x		
94158-64-2		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,16,16,16-octacosafuoro-15-(trifluoromethyl)hexadecyl ester							x		
94158-65-3		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,18,18,18-dotriacontafuoro-17-(trifluoromethyl)octadecyl ester							x		
146955-29-5		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-(hydroxymethyl)decyl ester	$C_8F_{17}CH_2CH(CH_2OH)OC(O)CH=CH_2$				x				x
76962-34-0		2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl ester	$C_8F_{17}CH_2CH(OH)CH_2OC(O)CH=CH_2$				x				x
Other fluorotelomer-based non-polymers											
93776-12-6		1-Propanaminium, <i>N</i> -(2-carboxyethyl)- <i>N,N</i> -dimethyl-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-2-hydroxypentadecyl) amino]-, inner salt							x		
93776-13-7		1-Propanaminium, <i>N</i> -(2-carboxyethyl)-3-[(4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13,13-heneicosafuoro-2-hydroxytridecyl) amino] - <i>N,N</i> -dimethyl-, inner salt						x			
93776-15-9		1-Propanaminium, <i>N</i> -(2-carboxyethyl)- <i>N,N</i> -dimethyl-3-[[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-2-hydroxy-14-(trifluoromethyl)pentadecyl] amino]-, inner salt									
94159-83-8		2-Tridecanol, 1-[[3-(dimethylamino)propyl] amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafuoro-12-(trifluoromethyl)-							x		

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
94159-79-2		2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-							x		
94159-80-5		2-Tridecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,13-heneicosafuoro-						x			
94159-82-7		2-Pentadecanol, 1-[[3-(dimethylamino)propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,15,15,15-tetracosafuoro-14-(trifluoromethyl)-							x		
99955-83-6	8:2 FTS	8:2 Fluorotelomer stearate monoester					x				
		Octadecanoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester									
302911-86-0		8:2 Fluorotelomer citrate triester					x				
		Pentanedioic acid, 3-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]-2-oxoethyl]-3-hydroxy-, 1,5-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester									
3102-79-2		Perfluorooctylethyldichloromethyl silane					x			7	
74612-30-9		Perfluorooctylethyldimethylchlorosilane					x				
101947-16-4		Perfluorooctylethyltriethoxysilane	C ₈ F ₁₇ CH ₂ CH ₂ Si(OCH ₂ CH ₃) ₃				x				↓
146090-84-8		Silane, triethoxy(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)-	C ₁₀ F ₂₁ CH ₂ CH ₂ Si(OCH ₂ CH ₃) ₃					x			x
78560-44-8		Perfluorooctylethyltrichlorosilane					x				
83048-65-1		Perfluorooctylethyltrimethoxysilane	C ₈ F ₁₇ CH ₂ CH ₂ Si(OCH ₃) ₃				x				
123445-18-1		Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)trimethoxy-	C ₁₀ F ₂₁ CH ₂ CH ₂ Si(OCH ₃) ₃					x			
246234-80-0		Silane, (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)tris(1-methylethoxy)-	C ₈ F ₁₇ CH ₂ CH ₂ Si[OCH(CH ₃) ₂] ₃					x			x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
1189587-64-1		Silane, tetrakis[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)thio]ethyl]-	Si(CH ₂ CH ₂ SCH ₂ CH ₂ C ₈ F ₁₇) ₄				x				x
68187-42-8		Propanamide, 3-[(γ-ω-perfluoro-C ₄₋₁₀ -alkyl)thio] derivatives					x				
70969-47-0		Thiols, C ₈₋₂₀ , γ-ω-perfluoro, telomers with acrylamide				x					
95370-51-7		Carbamic acid, [2-(sulphothio)ethyl]-, C-(γ-ω-perfluoro-C ₆₋₉ -alkyl) esters, monosodium salts							x	7	
148240-85-1		1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C ₄₋₁₀ -alkyl)thio]methyl] derivatives, phosphates, ammonium salts					x			7	
148240-87-3		1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C ₆₋₁₂ -alkyl)thio]methyl] derivatives, phosphates, ammonium salts					x	x		7	
148240-89-5		1,3-Propanediol, 2,2-bis[[γ-ω-perfluoro-C ₁₀₋₂₀ -alkyl)thio]methyl] derivs., phosphates, ammonium salts					x	x	x		
183146-60-3		Oxirane, methyl-, polymer with oxirane, mono[2-hydroxy-3-[(γ-ω-perfluoro-C ₈₋₂₀ -alkyl)thio]propyl] ethers				x					
71608-61-2		Pentanoic acid, 4,4-bis[(γ-ω-perfluoro-C ₈₋₂₀ -alkyl)thio]derivs., compds. with diethanolamine					x	x	x	7	
94200-45-0		1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptafluoro-, 1-(dihydrogen phosphate), ammonium salt (1:2)					x			7	
93776-00-2		2-Pentadecanol, 1,1'-[oxybis[(1-methyl-2,1-ethanediyloxy]]bis[4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-pentacosafuoro-							x		
77117-48-7	F ₈ H ₂	Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-	F(CF ₂) ₈ (CH ₂) ₂ H				x				x
1835250-28-6	F ₈ H ₃	Undecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-	F(CF ₂) ₈ (CH ₂) ₃ H				x				x
182130-12-7	F ₈ H ₄	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-	F(CF ₂) ₈ (CH ₂) ₄ H				x				↑
1835250-47-9	F ₈ H ₅	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-	F(CF ₂) ₈ (CH ₂) ₅ H				x				↑

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
182130-14-9	F ₈ H ₆	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₆ H				x				↑
182130-15-0	F ₈ H ₇	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₇ H				x				↑
6145-05-7	F ₈ H ₈	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₈ H				x				↑
931415-52-0	F ₈ H ₉	Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₉ H				x				↑
138472-76-1	F ₈ H ₁₀	Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₁₀ H				x				↑
117146-18-6	F ₈ H ₁₆	Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₁₆ H				x				↑
133310-73-3	F ₈ H ₁₈	Hexacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₁₈ H				x				↑
137338-39-7	F ₈ H ₂₀	Octacosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₂₀ H				x				↑
137338-40-0	F ₈ H ₂₂	Triacotane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₂₂ H				x				↑
137338-41-1	F ₈ H ₂₄	Dotriacontane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	F(CF ₂) ₈ (CH ₂) ₂₄ H				x				↑
154478-87-2	F ₁₀ H ₂	Dodecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₂ H					x			
1835251-22-3	F ₁₀ H ₃	Tridecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₃ H					x			
1244062-17-6	F ₁₀ H ₄	Tetradecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₄ H					x			
250738-42-2	F ₁₀ H ₅	Pentadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₅ H					x			
116177-54-9	F ₁₀ H ₆	Hexadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₆ H					x			
200817-54-5	F ₁₀ H ₇	Heptadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₇ H					x			
93454-70-7	F ₁₀ H ₈	Octadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₈ H					x			
125635-85-0	F ₁₀ H ₉	Nonadecane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₉ H					x			

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
90499-29-9	F ₁₀ H ₁₀	Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₁₀ H					x			
93454-71-8	F ₁₀ H ₁₂	Docosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafuoro-	F(CF ₂) ₁₀ (CH ₂) ₁₂ H					x			
133299-41-9		Eicosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20-tetratricontafuoro-	C ₈ F ₁₇ C ₄ H ₈ C ₈ F ₁₇				x				x
100550-08-1		Tetracosane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,17,17,18,18,19,19,20,20,21,21,22,22,23,23,24,24,24-tetratricontafuoro-	C ₈ F ₁₇ C ₈ H ₁₆ C ₈ F ₁₇				x				x
1244062-16-5		9-Tetracosene, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-	C ₈ F ₁₇ CH=CH(CH ₂) ₁₄ H						x	3, 4	x
31200-97-2		1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-	(CF ₃) ₂ CFC ₆ F ₁₂ CH ₂ CH ₂ CH ₂ OH						x	3, 4	x
423-56-3	8:1 FTOH	1-Nonanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-heptadecafluoro-	C ₈ F ₁₇ CH ₂ OH						x	5	
307-37-9	9:1 FTOH	1-Decanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-	C ₉ F ₁₉ CH ₂ OH						x	5	
307-46-0	10:1 FTOH	1-Undecanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heneicosafuoro-	C ₁₀ F ₂₁ CH ₂ OH						x	5	
135984-68-8	8:2 FTAL	Decanal, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CHO				x			7	
864551-38-2	10:2 FTAL	Dodecanal, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	C ₁₀ F ₂₁ CH ₂ CHO					x			
864551-40-6	10:2 FTUAL	2-Dodecenal, 3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-icosafuoro-	C ₉ F ₁₉ CF=CHCHO					x			
63967-40-8	PFNAL	Nonanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluoro-	C ₈ F ₁₇ CHO						x	3	
335-73-9	PFDAL	Decanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-	C ₉ F ₁₉ CHO						x	3	
63967-42-0	PFUnDAL	Undecanal, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heneicosafuoro-	C ₁₀ F ₂₁ CHO						x	3	
56900-98-2		Ethanol, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]ethoxy]-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₂ OH				x				
88243-13-4		Propanol, [2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]methylethoxy]-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₂ OH (2 H are replaced by 2 CH ₃)				x				

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
88243-12-3		Ethanol, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)oxy]methylethoxy]methylethoxy]-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₃ OH (2 H are replaced by 2 CH ₃)				x				
55427-54-8		3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₄ OH				x				x
88271-22-1		3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluorodimethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₄ OH (2 H are replaced by 2 CH ₃)				x				x
88243-14-5		3,6,9,12-Tetraoxadocosan-1-ol, 15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,22-heptadecafluorotetramethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₄ OH (4 H are replaced by 4 CH ₃)				x				↑
88243-15-6		3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,25-heptadecafluoropentamethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₅ OH (5 H are replaced by 5 CH ₃)				x				
88247-39-6		3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₆ OH				x				
88243-11-2		3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoropentamethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₆ OH (5 H are replaced by 5 CH ₃)				x				
88243-16-7		3,6,9,12,15,18-Hexaoxaoctacosan-1-ol, 21,21,22,22,23,23,24,24,25,25,26,26,27,27,28,28,28-heptadecafluoro hexamethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₆ OH (6 H are replaced by 6 CH ₃)				x				
88243-10-1		3,6,9,12,15,18,21-Heptaohentriacontan-1-ol, 24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,31-heptadecafluoropentamethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₇ OH (5 H are replaced by 5 CH ₃)				x				
88247-40-9		3,6,9,12,15,18,21,24-Octaoxatetriacontan-1-ol, 27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,34-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₈ OH				x				
88243-17-8		3,6,9,12,15,18,21,24-Octaoxatetriacontan-1-ol, 27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34,34-heptadecafluorooctamethyl-	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₈ OH (8 H are replaced by 8 CH ₃)				x				
88243-09-8		3,6,9,12,15-Pentaoxapentacosan-1-ol, 18,18,19,19,20,20,21,21,22,22,23,23,24,24,25,25,25-heptadecafluoropentamethyl-, acetate	C ₈ F ₁₇ CH ₂ CH ₂ (OCH ₂ CH ₂) ₅ OC(=O)CH ₃ (5 H are replaced by 5 CH ₃)				x				x

CAS No. ^a	Acronym	Designation	Condensed structural formula	(i) ^b	(ii) ^c	(iii) ^d				Ref ⁱ	2D structure available in Table 3 ^j
				PFOA	PFOA salts	PFOA-related compounds					
						(a) ^e	(b) ^f	(c) ^g	Other ^h		
121500-31-0		1,2-Propanediol, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]-	C ₈ F ₁₇ CH ₂ CH ₂ OCH ₂ CH(OH)CH ₂ OH				x				x
67549-47-7		11,14,17,20,23,26,29,32-Octafluorotetracontan-33-one, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptafluoro-	C ₈ F ₁₇ (CH ₂ CH ₂ O) ₈ C(O)C ₁₅ H ₃₁				x				x
67535-33-5		Tridecanoic acid, 27,27,28,28,29,29,30,30,31,31,32,32,33,33,34,34-heptafluoro-3,6,9,12,15,18,21,24-octaotetra triacont-1-yl ester	C ₈ F ₁₇ (CH ₂ CH ₂ O) ₉ C(O)C ₁₂ H ₂₅				x				x
38565-53-6		Oxirane, 2-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononyl)-	C ₈ F ₁₇ CH ₂ C ₂ OH ₃				x				x
114482-33-6		Oxirane, 2-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]methyl]-	C ₈ F ₁₇ CH ₂ CH ₂ OCH ₂ C ₂ OH ₃				x				x
99679-40-0		1-Decanaminium, <i>N,N</i> -diethyl-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro-2-hydroxy- <i>N</i> -methyl-, iodide (1:1)	I ⁻ C ₈ F ₁₇ CH(OH)CH ₂ N ⁺ (CH ₃)(C ₂ H ₅) ₂				x				x
93776-18-2		1-Undecanaminium, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptafluoro-2-hydroxy- <i>N,N</i> -bis(2-hydroxyethyl)- <i>N</i> -methyl-, iodide (1:1)	I ⁻ C ₈ F ₁₇ CH ₂ CH(OH)CH ₂ N ⁺ (CH ₃)(CH ₂ CH ₂ OH) ₂				x				x
94817-79-5		2-Undecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoro-1-[(1-methylpropyl)amino]-	C ₉ F ₁₉ CH(OH)CH ₂ NHCH(CH ₃)CH ₂ CH ₃						x	3, 4	x
94817-80-8		2-Dodecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-nonadecafluoro-1-[(1-methylpropyl)amino]-	C ₉ F ₁₉ CH ₂ CH(OH)CH ₂ NHCH(CH ₃)CH ₂ CH ₃						x	3, 4	x
121912-26-3		1-Propanaminium, 3-[[4-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]-1,4-dioxo-2-buten-1-yl]amino]- <i>N,N,N</i> -trimethyl-, iodide (1:1)	I ⁻ C ₈ F ₁₇ CH ₂ CH ₂ OC(O)CHCHC(O)NHCH ₂ CH ₂ CH ₂ N ⁺ (CH ₃) ₃				x				x
25935-14-2		Pyridinium, 1-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)-, iodide (1:1)	I ⁻ C ₈ F ₁₇ CH ₂ CH ₂ N ⁺ C ₅ H ₅				x				x
100155-23-5		Ethanaminium, <i>N</i> -ethyl-2-[[[3-[[[3-[[[3-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl)oxy]carbonyl]amino]methylphenyl]amino]carbonyl]amino]methylphenyl]amino]carbonyl]amino]methylphenyl]amino]carbonyl]oxy]- <i>N,N</i> -dimethyl-, ethyl sulfate	C ₂ H ₅ OSO ₃ ⁻ C ₈ F ₁₇ CH ₂ CH ₂ O[C(O)NHC ₆ H ₄ NH] ₃ C(O)OCH ₂ CH ₂ N ⁺ (CH ₃) ₂ CH ₂ CH ₃ (3 H are replaced by 3 CH ₃)				x				x
-		1-Decanamine, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluoro- <i>N,N</i> -dimethyl-, <i>N</i> -oxide	C ₈ F ₁₇ CH ₂ CH ₂ N(CH ₃) ₂ O				x				

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
34143-74-3		1-Decanethiol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ SH				x				
76830-13-2		2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluoro-1-decanethiol	(CH ₂ CHC(O)NH ₂) _x C ₈ F ₁₇ CH ₂ CH ₂ SH (formulas of the starting materials, not of the final product)				x				
121913-10-8		2-Propenamide, telomer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-1-dodecanethiol	(CH ₂ CHC(O)NH ₂) _x C ₁₀ F ₂₁ CH ₂ CH ₂ SH (formulas of the starting materials, not of the final product)					x			
39108-34-4	8:2 FTSA	1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ SO ₃ H				x				
120226-60-0	10:2 FTSA	1-Dodecanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	C ₁₀ F ₂₁ CH ₂ CH ₂ SO ₃ H					x			
438237-73-1	8:2 FTSA-K	1-Decanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-, potassium salt (1:1)	K ⁺ C ₈ F ₁₇ CH ₂ CH ₂ SO ₃ ⁻				x				
63225-57-0		1-Decanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-hepta decafluoro-, 1-(hydrogen sulfate), ammonium salt (1:1)	NH ₄ ⁺ C ₈ F ₁₇ CH ₂ CH ₂ OSO ₃ ⁻				x				
63225-58-1		1-Dodecanol, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-, 1-(hydrogen sulfate), ammonium salt (1:1)	NH ₄ ⁺ C ₁₀ F ₂₁ CH ₂ CH ₂ OSO ₃ ⁻					x			
54950-06-0		Butanedioic acid, 2-sulfo-, 1,4-bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester, sodium salt (1:1)	Na ⁺ C ₈ F ₁₇ CH ₂ CH ₂ OC(O)CH ₂ CH(SO ₃ ⁻)C(O)OCH ₂ CH ₂ C ₈ F ₁₇				x				x
441765-12-4		Acetic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)	Li ⁺ C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ COO ⁻				x				
54207-62-4		Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH ₂ COOH				x				
481050-04-8		Propanoic acid, 3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)	Li ⁺ C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH ₂ COO ⁻				x				
441765-14-6		Ethanesulfonic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, lithium salt (1:1)	Li ⁺ C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH ₂ SO ₃ ⁻				x				
160819-47-6		2-Propanol, 1,3-bis[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-	HOCH(CH ₂ SCH ₂ CH ₂ C ₈ F ₁₇) ₂				x				x
160819-50-1		2-Propanol, 1-[(2-dodecylhexadecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH(OH)CH ₂ OCH ₂ CH(C ₁₄ H ₂₉)C ₁₂ H ₂₅				x				x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
160819-49-8		2-Propanol, 1-[(2-decyltetradecyl)oxy]-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH(OH)CH ₂ OCH ₂ CH(C ₁₀ H ₂₁)C ₁₂ H ₂₅				x				x
121912-28-5		2,5,8,11,14,17,20,23-Octaoxa-27-thiaheptatriacontan-25-ol, 30,30,31,31,32,32,33,33,34,34,35,35,36,36,37,37,37-heptadecafluoro-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH(OH)(CH ₂ OCH ₂) ₈				x				x
727351-53-3	8:2 FTSHA	1-Propanaminium, 2-hydroxy- <i>N,N,N</i> -trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH(OH)CH ₂ N ⁺ (CH ₃) ₃				x				x
1513864-17-9	10:2 FTSHA	1-Propanaminium, 2-hydroxy- <i>N,N,N</i> -trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)sulfinyl]-	C ₁₀ F ₂₁ CH ₂ CH ₂ SCH ₂ CH(OH)CH ₂ N ⁺ (CH ₃) ₃					x			↑
71940-07-3		1-Propanaminium, 2-hydroxy- <i>N,N,N</i> -trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-, chloride (1:1)	Cl ⁻ C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH(OH)CH ₂ N ⁺ (CH ₃) ₃				x				↑
-		1-Propanaminium, 2-hydroxy- <i>N,N,N</i> -trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-, chloride (1:1)	Cl ⁻ C ₁₀ F ₂₁ CH ₂ CH ₂ SCH ₂ CH(OH)CH ₂ N ⁺ (CH ₃) ₃					x			↑
71625-52-0		Ethanaminium, 2-[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]ethoxy]- <i>N,N,N</i> -trimethyl-, iodide (1:1)	I ⁻ C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH ₂ OCH ₂ CH ₂ N ⁺ (CH ₃) ₃				x				x
1513863-91-6		Acetamide, <i>N</i> -[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ C(O)NHCH ₂ CH ₂ CH ₂ N(CH ₃) ₂				x				x
1513863-92-7		Acetamide, <i>N</i> -[3-(dimethylamino)propyl]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-	C ₁₀ F ₂₁ CH ₂ CH ₂ SCH ₂ C(O)NHCH ₂ CH ₂ CH ₂ N(CH ₃) ₂					x			↑
704870-51-9		1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]acetyl]amino]- <i>N,N,N</i> -trimethyl-	C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ C(O)NHCH ₂ CH ₂ CH ₂ N ⁺ (CH ₃) ₃				x				x
1513864-01-1		1-Propanaminium, 3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]acetyl]amino]- <i>N,N,N</i> -trimethyl-	C ₁₀ F ₂₁ CH ₂ CH ₂ SCH ₂ C(O)NHCH ₂ CH ₂ CH ₂ N ⁺ (CH ₃) ₃					x			↑
67333-62-4		1-Propanaminium, <i>N</i> -ethyl-3-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-2-methyl-1-oxopropyl]amino]- <i>N,N</i> -dimethyl-, ethyl sulfate (1:1)	C ₂ H ₅ OSO ₃ ⁻ C ₈ F ₁₇ CH ₂ CH ₂ SCH ₂ CH(CH ₃)C(O)NHCH ₂ CH ₂ CH ₂ N ⁺ (CH ₃) ₂ C ₂ H ₅				x				x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
1513863-96-1	8:2 FTSAB	1-Propanaminium, <i>N</i> -(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]acetyl] amino]- <i>N,N</i> -dimethyl-, inner salt	$C_8F_{17}CH_2CH_2SCH_2C(O)NHCH_2CH_2CH_2N^+(CH_3)_2CH_2COO^-$				x				x
1513863-97-2	10:2 FTSAB	1-Propanaminium, <i>N</i> -(carboxymethyl)-3-[[2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]acetyl] amino]- <i>N,N</i> -dimethyl-, inner salt	$C_{10}F_{21}CH_2CH_2SCH_2C(O)NHCH_2CH_2CH_2N^+(CH_3)_2CH_2COO^-$					x			↑
1383438-89-8		Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-4-oxo-	$C_8F_{17}CH_2CH_2SCH(COO^-)CH_2C(O)NHCH_2CH_2CH_2NH^+(CH_3)_2$				x				x
1383438-90-1		Butanoic acid, 4-[[3-(dimethylamino)propyl] amino]-2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-4-oxo-	$C_{10}F_{21}CH_2CH_2SCH(COO^-)CH_2C(O)NHCH_2CH_2CH_2NH^+(CH_3)_2$					x			↑
93128-66-6		Glycine, <i>N</i> -[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-2-hydroxypropyl]- <i>N</i> -methyl-	$C_8F_{17}CH_2CH_2SCH_2CH(OH)CH_2N(CH_3)CH_2COOH$				x				x
755698-73-8	8:2 FTSAS	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-	$C_8F_{17}CH_2CH_2SCH_2CH_2C(O)NHC(CH_3)_2CH_2SO_3H$				x				x
690947-60-5	10:2 FTSAS	1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-1-oxopropyl] amino]-2-methyl-	$C_{10}F_{21}CH_2CH_2SCH_2CH_2C(O)NHC(CH_3)_2CH_2SO_3H$					x			↑
62880-96-0		1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)	$Na^+ C_8F_{17}CH_2CH_2SCH_2CH_2C(O)NHC(CH_3)_2CH_2SO_3^-$				x				x
62880-98-2		1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)thio]-1-oxopropyl]amino]-2-methyl-, sodium salt (1:1)	$Na^+ C_{10}F_{21}CH_2CH_2SCH_2CH_2C(O)NHC(CH_3)_2CH_2SO_3^-$					x			↑
1513864-19-1		1-Propanaminium, 2-hydroxy- <i>N,N,N</i> -trimethyl-3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfinyl]-	$C_8F_{17}CH_2CH_2S(O)CH_2CH(OH)CH_2N^+(CH_3)_3$				x				x
1513864-12-4		1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfinyl]-1-oxopropyl]amino]-2-methyl-	$C_8F_{17}CH_2CH_2S(O)CH_2CH_2C(O)NHC(CH_3)_2CH_2SO_3H$				x				x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
1513864-11-3		1-Propanesulfonic acid, 2-[[3-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro dodecyl)sulfinyl]-1-oxopropyl]amino]-2-methyl-	$C_{10}F_{21}CH_2CH_2S(O)CH_2CH_2C(O)NHC(CH_3)_2CH_2SO_3H$					x			↑
80475-33-8		1-Decanesulfonamide, <i>N</i> -[3-(dimethyloxido amino)propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	$C_8F_{17}CH_2CH_2SO_2NHCH_2CH_2CH_2N(=O)(CH_3)_2$				x				x
34455-23-7		1-Decanesulfonamide, <i>N</i> -[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-	$C_8F_{17}CH_2CH_2SO_2NHCH_2CH_2CH_2N(CH_3)_2$				x				x
34455-24-8		1-Dodecanesulfonamide, <i>N</i> -[3-(dimethylamino) propyl]-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuoro-	$C_{10}F_{21}CH_2CH_2SO_2NHCH_2CH_2CH_2N(CH_3)_2$					x			↑
438237-77-5		1-Propanaminium, 3-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl] amino]- <i>N,N,N</i> -trimethyl-, 4-methylbenzene sulfonate (1:1)	$CH_3C_6H_4SO_3^-$ $C_8F_{17}CH_2CH_2SO_2NHCH_2CH_2CH_2N^+(CH_3)_3$				x				x
34455-21-5	8:2 FTAB	1-Propanaminium, <i>N</i> -(carboxymethyl)-3-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]amino]- <i>N,N</i> -dimethyl-, inner salt	$C_8F_{17}CH_2CH_2SO_2NHCH_2CH_2CH_2N^+(CH_3)_2CH_2COO^-$				x				x
34455-35-1	10:2 FTAB	1-Propanaminium, <i>N</i> -(carboxymethyl)-3-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl)sulfonyl]amino]- <i>N,N</i> -dimethyl-, inner salt	$C_{10}F_{21}CH_2CH_2SO_2NHCH_2CH_2CH_2N^+(CH_3)_2CH_2COO^-$					x			↑
34695-29-9		Ethanaminium, <i>N</i> -(2-carboxyethyl)-2-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]- <i>N,N</i> -dimethyl-, inner salt	$C_8F_{17}CH_2CH_2SO_2NHCH_2CH_2N^+(CH_3)_2CH_2CH_2COO^-$				x				x
34695-31-3		Ethanaminium, <i>N</i> -(2-carboxyethyl)-2-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl) sulfonyl]amino]- <i>N,N</i> -dimethyl-, inner salt	$C_{10}F_{21}CH_2CH_2SO_2NHCH_2CH_2N^+(CH_3)_2CH_2CH_2COO^-$					x			↑
441765-18-0		Glycine, <i>N</i> -[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)sulfonyl]- <i>N</i> -propyl-, lithium salt	$Li^+ C_8F_{17}CH_2CH_2SO_2N(C_3H_7)CH_2COO^-$				x				x
98900-53-9		β -Alanine, <i>N</i> -(2-carboxyethyl)- <i>N</i> -[6-[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro decyl)sulfonyl]amino]hexyl]-, dipotassium salt	$2 K^+$ $C_8F_{17}CH_2CH_2SO_2NHC_6H_{12}N(CH_2CH_2COO^-)_2$				x				x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
Fluorotelomer-based side-chain fluorinated polymers											
115592-83-1		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, hexadecyl 2-propenoate, <i>N</i> -(hydroxymethyl)-2-propenamide, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-propenoate				x	x	x	x		
129783-45-5		2-Propenoic acid, 2-methyl-, C ₁₀₋₁₆ -alkyl esters, polymers with 2-hydroxyethyl methacrylate, Me methacrylate and γ - ω -perfluoro-C ₈₋₁₄ -alkyl acrylate				x	x	x	x		
144031-01-6		2-Propenoic acid, dodecyl ester, polymers with Bu (1-oxo-2-propenyl)carbamate and γ - ω -perfluoro-C ₈₋₁₄ -alkyl acrylate				x	x	x	x		
116984-14-6		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, alpha-(2-methyl-1-oxo-2-propenyl)-omega-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl), 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16-nonacosafuorohexadecyl 2-propenoate, octadecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,18-tritriacontafuorooctadecyl 2-propenoate				x				7	
74049-08-4	PFOEA	Poly[2-(perfluorooctyl)ethyl acrylate]				x	x				
		2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester, homopolymer									

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
65104-45-2		2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-methyl-2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl 2-methyl-2-propenoate				x	x	x	x		
53515-73-4		2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl ester, polymer with 2-propenoic acid							x	7	
93480-00-3		Poly(oxy-1,2-ethanediy),a-[2-[2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl) amino]ethyl]-ω-hydroxy				x	x			7	
934505-67-6		2-Propenoic acid, polymer with 2-ethylnaphthalene and 4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoro-2-hydroxyundecyl 2-propenoate	C ₈ F ₁₇ CH ₂ CH(OH)CH ₂ OC(O)CHCH ₂ C ₁₂ H ₁₀ CH ₂ CHCOOH (formulas of the starting materials, not of the final product)			x	x				
142636-88-2		2-Propenoic acid, 2-methyl-, octadecyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heneicosafuorododecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,14-pentacosafuorotetradecyl 2-propenoate	C ₈ F ₁₇ CH ₂ CH ₂ OC(O)CHCH ₂ C ₁₀ F ₂₁ CH ₂ CH ₂ OC(O)CHCH ₂ C ₁₂ F ₂₅ CH ₂ CH ₂ OC(O)CHCH ₂ C ₁₈ H ₃₇ OC(O)C(CH ₃)CH ₂ (formulas of the starting materials, not of the final product)			x	x	x			
Other substances											
90622-99-4		Amides, C ₇₋₁₉ , α-ω-perfluoro- <i>N,N</i> -bis(hydroxyethyl)							x	7	
71356-38-2		Piperazinium, 1-(carboxymethyl)-1-(2-hydroxyethyl)-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-nonadecafluoro-1-oxodecyl)-, inner salt							x		
85681-64-7		2-Propenoic acid, perfluoro-C ₈₋₁₆ -alkyl esters							x		

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
125328-29-2		2-Propenoic acid, 2-methyl-, C ₁₀₋₁₆ -alkyl esters, polymers with 2-hydroxyethylmethacrylate, Me methacrylate and perfluoro-C ₈₋₁₄ -alkyl acrylate							x		
325459-92-5		Phosphine, tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl]-					x			7	
326475-46-1		Palladium, dichlorobis[tris[4-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)phenyl] phosphine-κP]-					x			7	
39186-68-0		1-Propanaminium, <i>N</i> -(2-carboxyethyl)- <i>N,N</i> -bis(2-hydroxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt							x	7	
41358-63-8		Octanamide, <i>N</i> -[3-[bis(2-hydroxyethyl)amino]propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-							x	7	
24216-05-5		Benzenesulfonyl chloride, 3,4-bis[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-							x	7	
53517-98-9		1-Propanaminium, <i>N,N,N</i> -trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, chloride (1:1)	Cl ⁻ C ₇ F ₁₅ C(O)NHCH ₂ CH ₂ CH ₂ N ⁺ (CH ₃) ₃						x	7	
335-90-0		1-Propanaminium, <i>N,N,N</i> -trimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, iodide (1:1)	I ⁻ C ₇ F ₁₅ C(O)NHCH ₂ CH ₂ CH ₂ N ⁺ (CH ₃) ₃						x	6	x
85938-56-3		Octanamide, <i>N</i> -(3-aminopropyl)-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-							x	7	
89685-61-0		1-Propanesulfonic acid, 3-[ethyl (2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, sodium salt (1:1)							x		
84029-60-7		Nonene, heptadecafluoro-1-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]-							x	7	
138473-79-7		Glycine, <i>N</i> -ethyl- <i>N</i> -(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, ammonium salt	NH ₄ ⁺ C ₇ F ₁₅ C(O)N(C ₂ H ₅)CH ₂ COO ⁻						x	6	x
89932-71-8		Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro- <i>N</i> -(14-hydroxy-3,6,9,12-tetraoxatetradec-1-yl)-	C ₇ F ₁₅ C(O)NHCH ₂ CH ₂ (OCH ₂ CH ₂) ₄ OH						x	6	x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
178766-44-4		Ethanaminium, <i>N,N,N</i> -trimethyl-2-[(2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-1-oxooctyl)amino]-, chloride (1:1)	$\text{Cl}^- \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{N}^+(\text{CH}_3)_3$						x	6	x
376-23-8		Octanamide, <i>N</i> -[3-(dimethylamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-	$\text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$						x		x
91707-61-8		1-Pentanaminium, <i>N,N,N</i> -trimethyl-5-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, iodide (1:1)	$\text{I}^- \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{N}^+(\text{CH}_3)_3$						x	6	x
30295-53-5		Octanamide, <i>N</i> -[3-(dimethylamino)propyl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-	$\text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHC}_3\text{H}_6\text{N}(\text{O})(\text{CH}_3)_2$						x	6	x
308-01-0		Pyridinium, 1-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-, chloride (1:1)	$\text{Cl}^- \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{N}^+\text{C}_5\text{H}_5$						x	6	x
331755-02-3		Pyridinium, 1-[2-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]ethyl]-, bromide (1:1)	$\text{Br}^- \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{N}^+\text{C}_5\text{H}_5$						x	6	↑
103555-98-2		Piperazinium, 1-(2-hydroxyethyl)-1-methyl-4-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)-, chloride (1:1)	$\text{Cl}^- \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NC}_4\text{H}_8\text{N}^+(\text{CH}_3)\text{CH}_2\text{CH}_2\text{OH}$						x		x
90179-39-8		1-Propanaminium, <i>N</i> -(carboxymethyl)- <i>N,N</i> -dimethyl-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, inner salt	$\text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{CH}_2\text{N}^+(\text{CH}_3)_2\text{CH}_2\text{COO}^-$						x	6	x
5158-52-1		1-Propanaminium, <i>N</i> -(2-carboxyethyl)-3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]- <i>N,N</i> -dimethyl-, inner salt	$\text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{CH}_2\text{N}^+(\text{CH}_3)_2\text{CH}_2\text{CH}_2\text{COO}^-$						x	6	x
57670-46-9		Ethanesulfonic acid, 2-[ethyl(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-, potassium salt (1:1)	$\text{K}^+ \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{N}(\text{C}_2\text{H}_5)\text{CH}_2\text{CH}_2\text{SO}_3^-$						x	6	x
98900-76-6		1-Propanesulfonic acid, 3-[(3-aminopropyl)(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]-2-hydroxy-, sodium salt (1:1)	$\text{Na}^+ \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{N}(\text{C}_3\text{H}_6\text{NH}_2)\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{SO}_3^-$						x	6	x
98900-75-5		Benzenesulfonic acid, 4-[[[3-(methylamino)propyl](2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]methyl]-, sodium salt (1:1)	$\text{Na}^+ \text{C}_7\text{F}_{15}\text{C}(\text{O})\text{N}(\text{C}_3\text{H}_6\text{NHCH}_3)\text{CH}_2\text{C}_6\text{H}_4\text{SO}_3^-$						x	6	x
98046-76-5		Octanamide, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro- <i>N</i> -[3-(trimethoxysilyl)propyl]-	$\text{C}_7\text{F}_{15}\text{C}(\text{O})\text{NHCH}_2\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_3$						x	6	x

				(i) ^b	(ii) ^c	(iii) ^d					
				PFOA	PFOA salts	PFOA-related compounds					
CAS No. ^a	Acronym	Designation	Condensed structural formula			(a) ^e	(b) ^f	(c) ^g	Other ^h	Ref ⁱ	2D structure available in Table 3 ^j
154380-30-0		Poly(oxy-1,2-ethanediyl), α-[dimethoxy[3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]-ω-[[dimethoxy[3-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-1-oxooctyl)amino]propyl]silyl]oxy]-	C ₇ F ₁₅ C(O)NHCH ₂ CH ₂ CH ₂ Si(OCH ₃) ₂ (OCH ₂ CH ₂) _x OSi(OCH ₃) ₂ CH ₂ CH ₂ CH ₂ NHC(O)C ₇ F ₁₅						x	6	x

Table 2: Indicative list of substances not covered by the listing of PFOA, its salts and PFOA-related compounds (ver. February 2022)

For the purpose of this indicative list, fluoropolymers refer to a distinct subset of fluorinated polymers, namely, those made by (co)polymerization of olefinic monomers, at least one of which contains F bound to one or both of the olefinic C atoms, to form a carbon-only polymer backbone with F atoms directly attached to it, e.g., polytetrafluoroethylene. Fluoropolymers include those commonly referred to by the acronyms PTFE, FEP, PFA, ETFE, ECTFE, PVDF, PVF, THV, FEPM, FKM, FFKM, FEVE, EFEP, CPT, and MFA, as well as fluorinated ionomers and amorphous fluoropolymers (Buck et al. in 2011).

Notes:

- Hyperlinks to the CAS Common Chemistry database are provided for those CAS numbers that have entries in that database;
- C_8F_{17-X} , where X= F, Cl, Br;
- Fluoropolymers that are covered by $CF_3[CF_2]_n-R'$, where R'=any group, $n>16$;
- Perfluoroalkyl carboxylic and phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 8 perfluorinated carbons;
- Perfluoroalkane sulfonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated carbons;
- Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOSF), as listed in Annex B to the Convention.

CAS No. ^a	Acronym	Designation	Out of scope: compounds that do not degrade to PFOA					
			(i) ^b	(ii) ^c	(iii) ^d	(iv) ^e	(v) ^f	Other
PFOA								
Fluorotelomer alcohols								
647-42-7	6:2 FTOH	6:2 Fluorotelomer alcohol						x
		1-Octanol, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-						
Perfluoroalkyl phosphonic acids (PFPAs)								
68412-68-0		Phosphonic acid, perfluoro-C ₆₋₁₂ -alkyl derivs.			x			
Polyfluoroalkyl carboxylic acids								
1765-48-6		Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-						x
307-71-1		Undecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-eicosafluoro-, potassium salt						x

CAS No. ^a	Acronym	Designation	Out of scope: compounds that do not degrade to PFOA					
			(i) ^b	(ii) ^c	(iii) ^d	(iv) ^e	(v) ^f	Other
Perfluoroalkylcarboxylic acids other than PFOA, their isomers, and salts								
375-22-4	PFBA	Perfluorobutanoic acid						x
2706-90-3	PFPeA	Perfluoropentanoic acid						x
307-24-4	PFHxA	Perfluorohexanoic acid						x
375-85-9	PFHpA	Perfluoroheptanoic acid						x
375-95-1	C ₉ -PFCA or PFNA	Perfluorononan-1-oic acid			x			
335-76-2	C ₁₀ -PFCA or PFDA	Perfluorodecanoic acid			x			
2058-94-8	C ₁₁ -PFCA or PFUnA	Perfluoroundecanoic acid			x			
307-55-1	C ₁₂ -PFCA or PFDoA	Perfluorododecanoic acid			x			
72629-94-8	C ₁₃ -PFCA or PFTTrA	Perfluorotridecanoic acid			x			
376-06-7	C ₁₄ -PFCA or PFTeA	Perfluorotetradecanoic acid			x			
141074-63-7	C ₁₅ -PFCA	Perfluoropentadecanoic acid			x			
67905-19-5	C ₁₆ -PFCA	Perfluorohexadecanoic acid			x			
57475-95-3	C ₁₇ -PFCA	Perfluoroheptadecanoic acid			x			
16517-11-6	C ₁₈ -PFCA	Perfluorooctadecanoic acid			x			
133921-38-7	C ₁₉ -PFCA	Perfluorononadecanoic acid			x			
68310-12-3	C ₂₀ -PFCA	Perfluoroeicosanoic acid			x			
15811-52-6		Dodecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-						x
16486-96-7		Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-			x			
18024-09-4		Tetradecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)-			x			

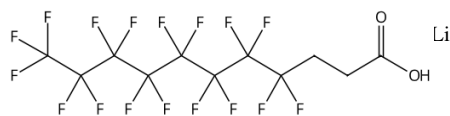
CAS No. ^a	Acronym	Designation	Out of scope: compounds that do not degrade to PFOA					
			(i) ^b	(ii) ^c	(iii) ^d	(iv) ^e	(v) ^f	Other
68015-87-2		Dodecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-docosafluoro-11-(trifluoromethyl)-, compd. With ethanamine (1:1)			x			
68025-62-7		Tetradecanoyl fluoride, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-hexacosafuoro-13-(trifluoromethyl)-						x
3108-42-7		Ammonium nonadecafluorodecanoate			x			
3658-63-7		Decanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)-, ammonium salt (1:1)			x			
3793-74-6		Ammonium tricosafuorododecanoate			x			
Perfluoroalkanesulfonic acids								
375-73-5	PFBS	Perfluorobutane sulfonic acid						x
2706-91-4	PFPeS	Perfluoropentane sulfonic acid						x
355-46-4	PFHxS	Perfluorohexane sulfonic acid						x
375-92-8	PFHpS	Perfluoroheptane sulfonic acid						x
1763-23-1	PFOS (3)	Perfluorooctane sulfonic acid					x	
Per- and polyfluoroalkyl ether carboxylic acids								
958445-44-8	ADONA	Propanoic acid, 2,2,3,3-tetrafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(trifluoromethoxy)propoxy]-, ammonium salt (1:1)						x
908020-52-0	EEA-NH4	Ammonium salt of perfluoro[(2-ethoxy-ethoxy)acetic acid						x
80153-82-8	EEA	Perfluoro[(2-ethoxy-ethoxy)acetic acid						x
Fluoropolymers								
9002-84-0	PTFE	Polytetrafluoroethylene		x				
25067-11-2	FEP	Fluorinated Ethylene Propylene Copolymer		x				

CAS No. ^a	Acronym	Designation	Out of scope: compounds that do not degrade to PFOA					
			(i) ^b	(ii) ^c	(iii) ^d	(iv) ^e	(v) ^f	Other
26655-00-5	PFA	Perfluoro Alkoxy Polymer Propane, 1,1,1,2,2,2,3,3-heptafluoro-3-[(1,2,2-trifluoroethenyl)oxy]-, polymer with 1,1,2,2-tetrafluoroethene		x				
31784-04-0		Perfluoro Alkoxy Polymer Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,1,2-trifluoro-2-(1,1,2,2,2-pentafluoroethoxy) ethane		x				
26425-79-6	MFA	Perfluoro Methyl Alkoxy Polymer Ethene, 1,1,2,2-tetrafluoro-, polymer with 1,2,2-trifluoro-2-(trifluoromethoxy)ethene		x				

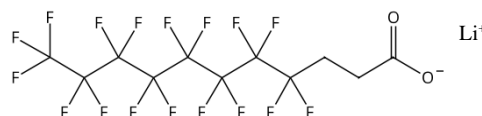
Table 3: 2D structural formulas for some selected substances added by Switzerland to the indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds (ver. February 2022)

Note:

The structural formulas presented in Table 1 were directly taken from Chemical Abstracts Service's (CAS) **SciFinder**⁴. Please note that most of the anionic PFASs are therefore displayed in their neutral form in this document. Strictly speaking, this is not correct. The correct form is given in the condensed structural formula added to the indicative list of substances covered by the listing of PFOA, its salts and PFOA-related compounds in the submission of Switzerland. An example of the incorrect and correct forms is shown below:

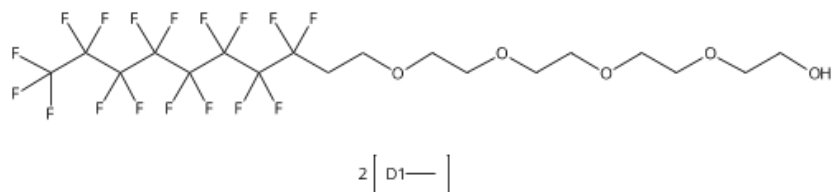


Incorrect form

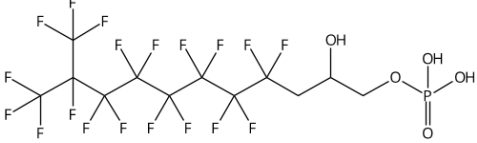
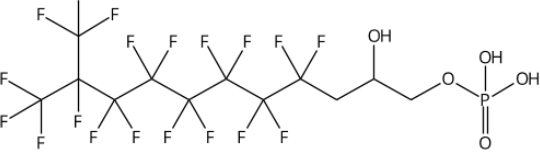
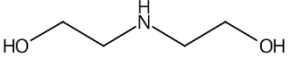
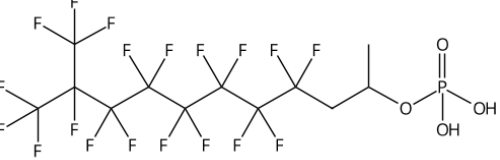
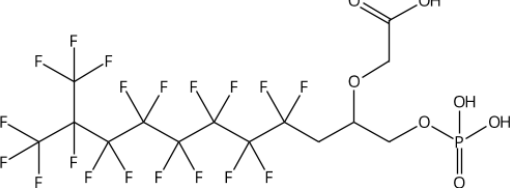


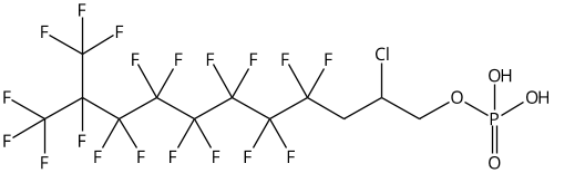
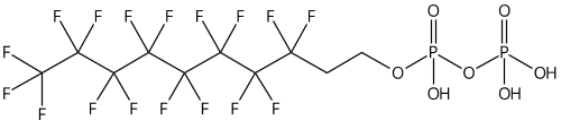
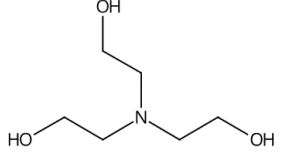
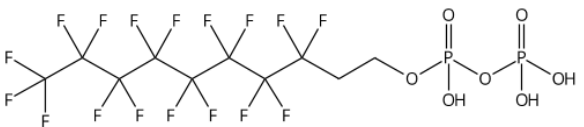
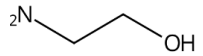
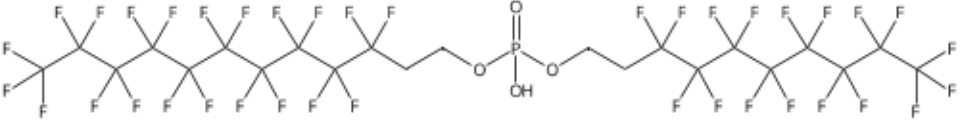
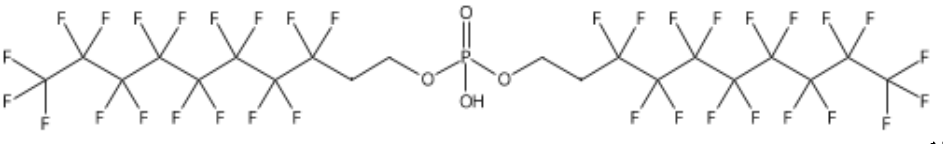
Correct form

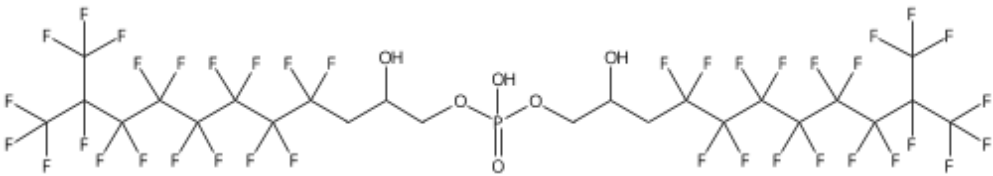
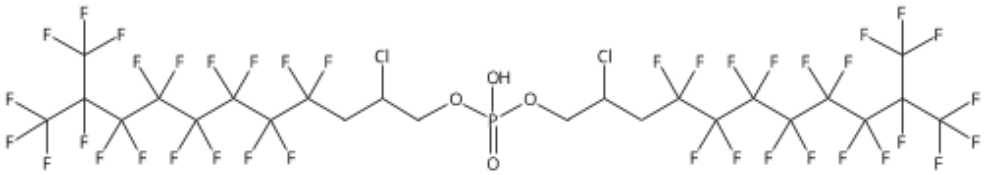
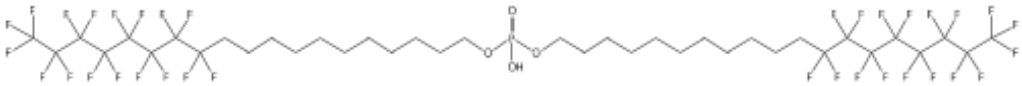
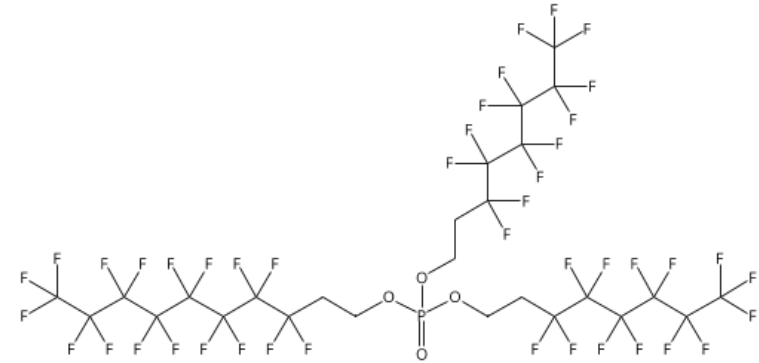
Some substances do have an unknown or variable structure. In the structural formulas from SciFinderⁿ, "D1" indicates that it is unknown where the moiety in square brackets is connected to the structural formula above (see below for the example of CAS No. 88271-22-1).

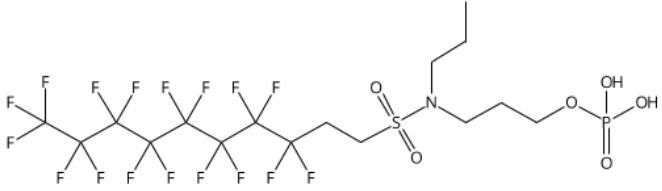
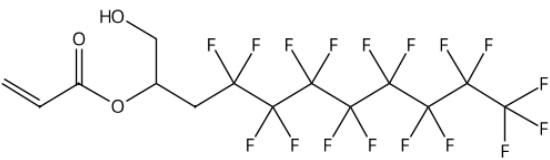
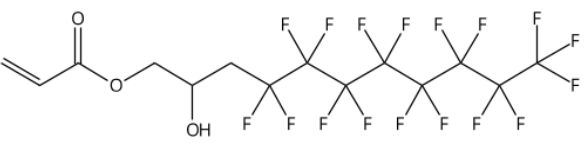
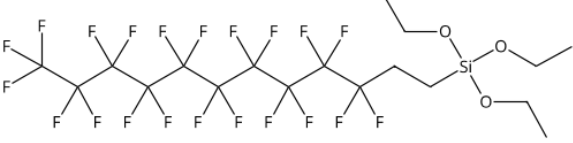


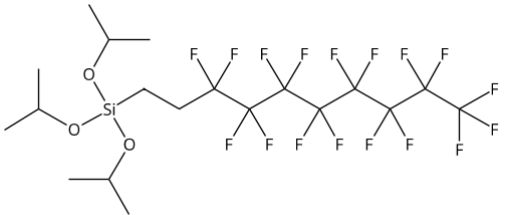
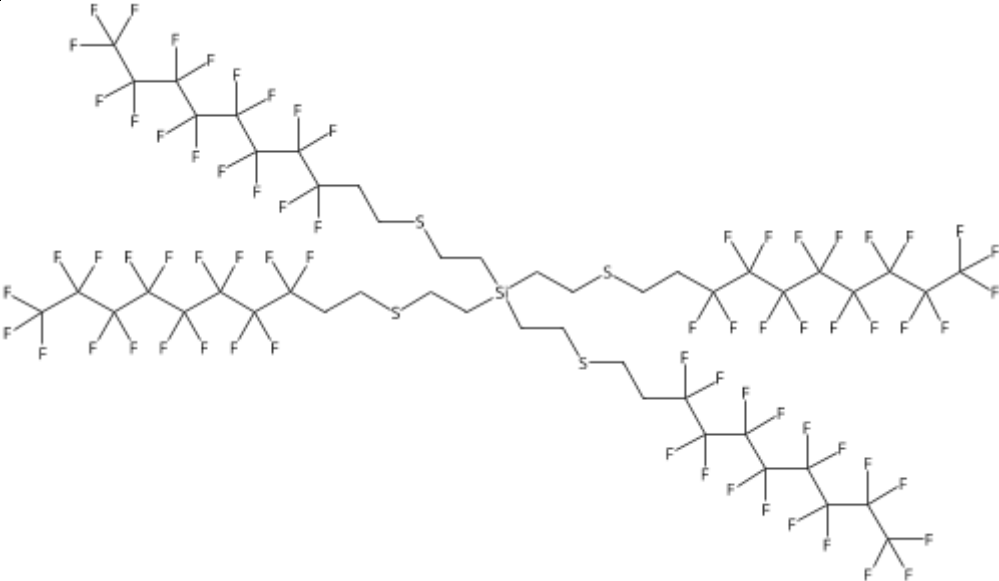
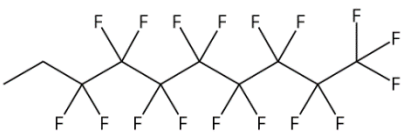
⁴ <https://www.cas.org/products/scifinder>.

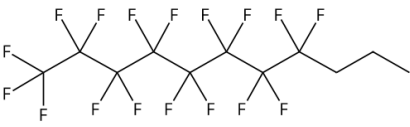
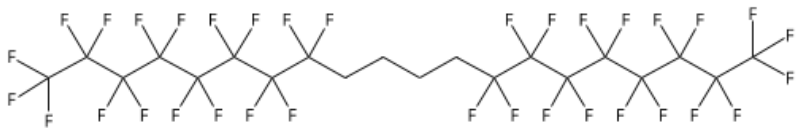
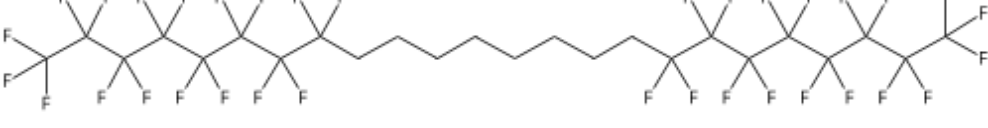
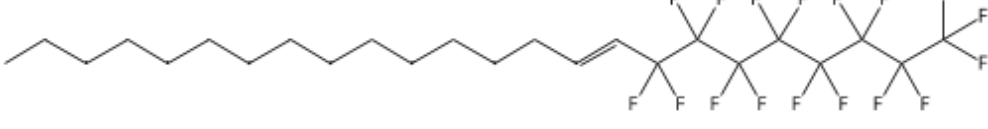
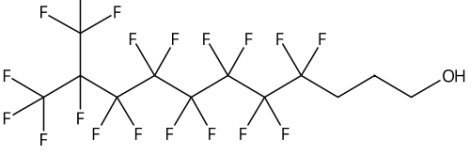
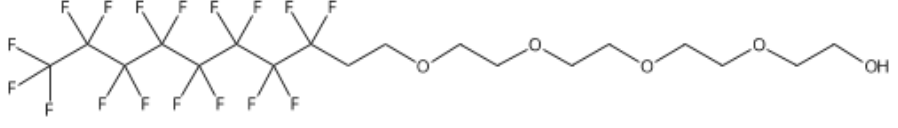
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63295-23-8	 2 NH_3
63295-24-9	 2 NH_3

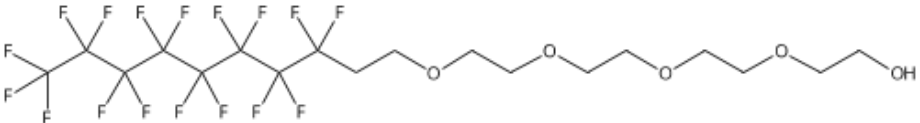
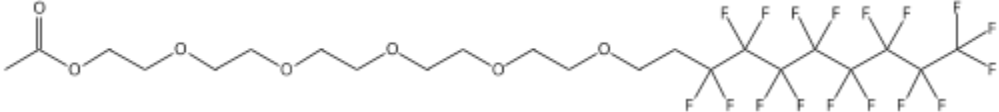

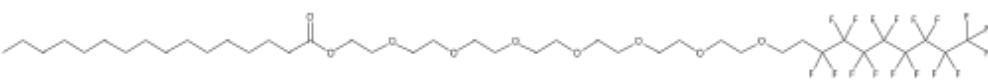
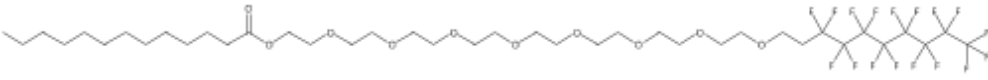
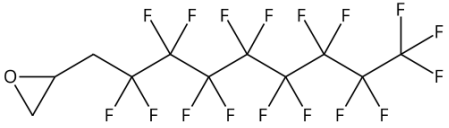
CAS No.	2D Structural Formula
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98005-85-7	 
98005-84-6	  <p>3</p>
1158182-60-5	
93776-20-6	 <p>NH₃</p>

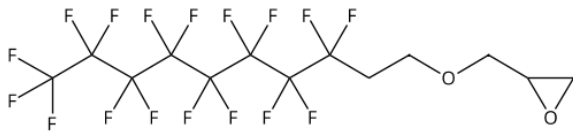
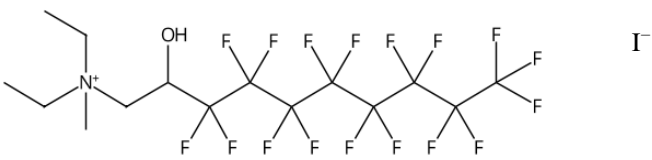
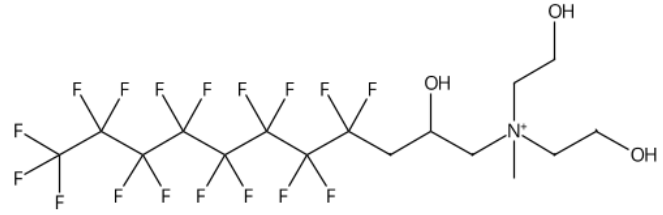
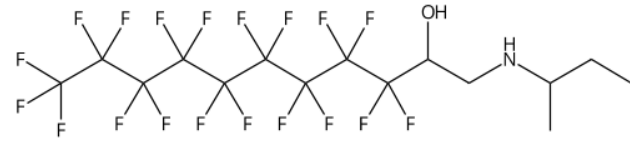
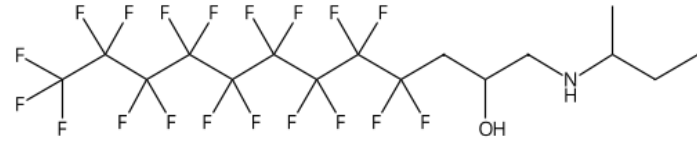
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63295-26-1	
2343-53-5	
1578186-53-4	

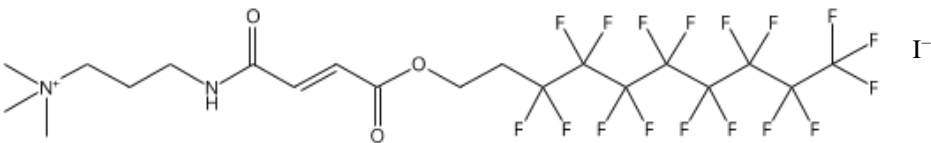
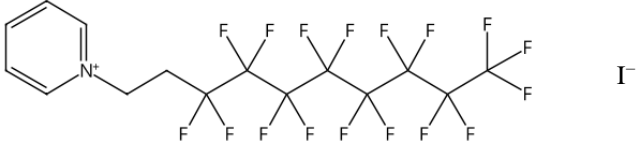
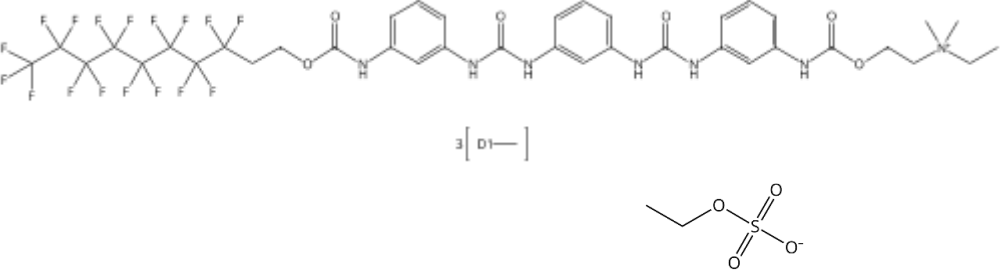
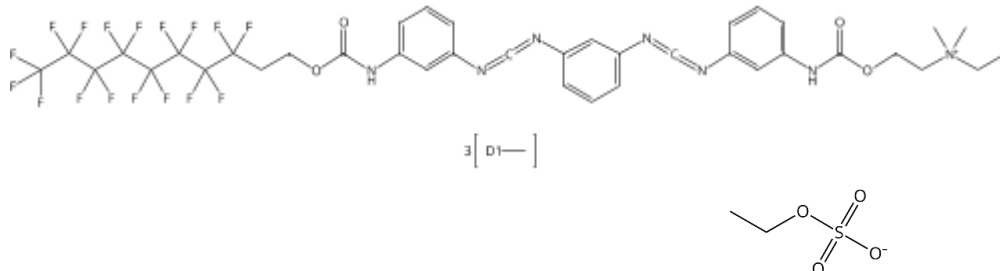
CAS No.	2D Structural Formula
441765-20-4	 <p style="text-align: right;">2 Na</p>
Fluorotelomer acrylates and methacrylates (FTACs and FTMACs)	
146955-29-5	
76962-34-0	
Other fluorotelomer-based non-polymers	
146090-84-8	

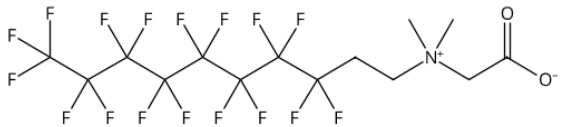
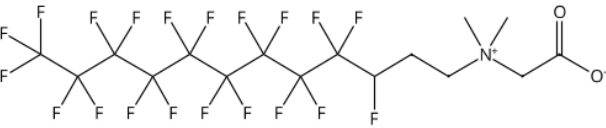
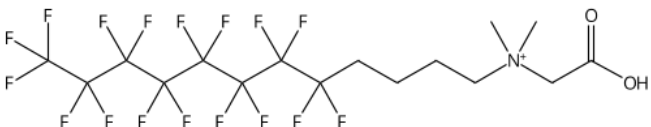
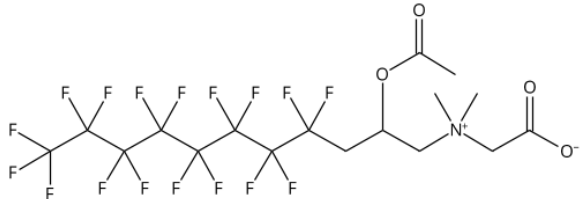
CAS No.	2D Structural Formula
246234-80-0	 <p>The structure shows a central silicon atom bonded to two isopropoxy groups and a perfluorinated alkyl chain. The chain consists of a propyl group connected to a hexafluoroisopropyl group.</p>
1189587-64-1	 <p>The structure is a complex sulfur-containing perfluorinated compound. It features a central silicon atom bonded to two propyl chains, each containing a sulfur atom. The silicon atom is also bonded to two perfluorinated alkyl chains, one of which is a hexafluoroisopropyl group. The sulfur atoms are part of a chain that includes a hexafluoroisopropyl group and a perfluorinated alkyl chain.</p>
77117-48-7	 <p>The structure shows a perfluorinated alkyl chain, specifically a hexafluoroisopropyl group, which is a central carbon atom bonded to two methyl groups and two fluorine atoms, with a perfluorinated ethyl group attached to one of the methyl groups.</p>

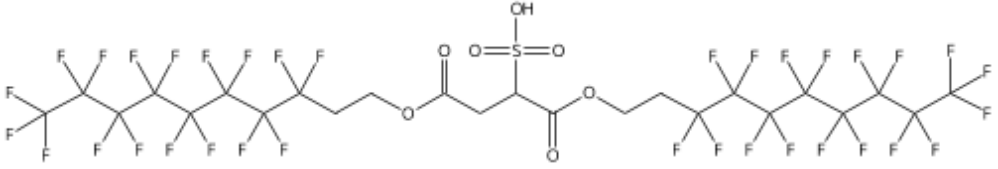
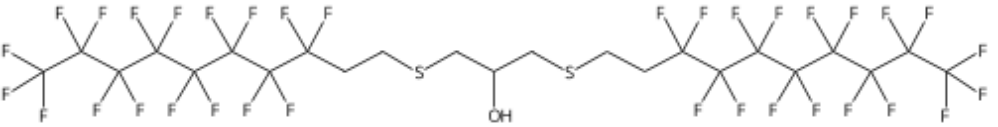
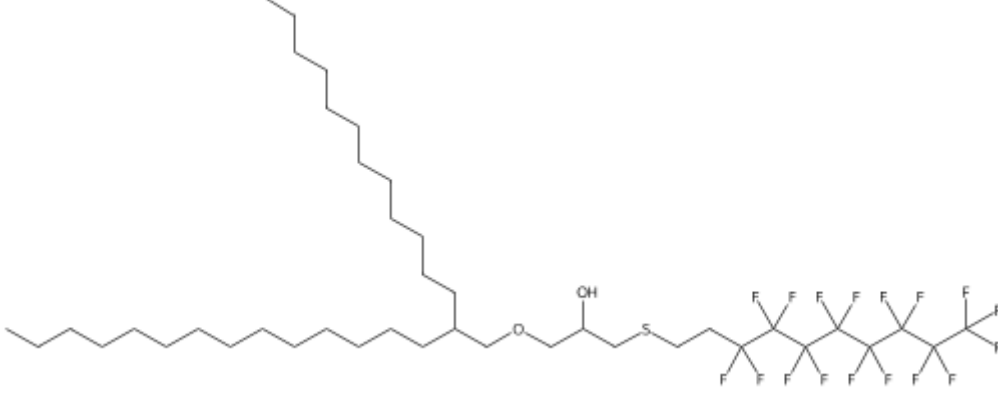
CAS No.	2D Structural Formula
1835250-28-6	 <p>Chemical structure of 1,1,1,2,2,2-hexafluorooctane, showing a linear chain of eight carbon atoms with six fluorine atoms attached to the first three carbons and two fluorine atoms attached to the eighth carbon.</p>
133299-41-9	 <p>Chemical structure of 1,1,1,2,2,2-hexafluorooctyl 1,1,1,2,2,2-hexafluoroethyl ether, showing a linear chain of eight carbon atoms with six fluorine atoms attached to the first three carbons, connected via an oxygen atom to a two-carbon chain with six fluorine atoms.</p>
100550-08-1	 <p>Chemical structure of 1,1,1,2,2,2-hexafluorooctyl 1,1,1,2,2,2-hexafluorododecyl ether, showing a linear chain of eight carbon atoms with six fluorine atoms attached to the first three carbons, connected via an oxygen atom to a twelve-carbon chain with six fluorine atoms.</p>
1244062-16-5	 <p>Chemical structure of 1,1,1,2,2,2-hexafluorooctyl 1,1,1,2,2,2-hexafluoroundec-1-enyl ether, showing a linear chain of eight carbon atoms with six fluorine atoms attached to the first three carbons, connected via an oxygen atom to an eleven-carbon chain with six fluorine atoms and a terminal double bond.</p>
31200-97-2	 <p>Chemical structure of 1,1,1,2,2,2-hexafluorooctyl 3-hydroxypropyl ether, showing a linear chain of eight carbon atoms with six fluorine atoms attached to the first three carbons, connected via an oxygen atom to a three-carbon chain with a terminal hydroxyl group.</p>
55427-54-8	 <p>Chemical structure of 1,1,1,2,2,2-hexafluorooctyl 3-(2-(2-(2-(2-hydroxyethyl)oxy)ethyl)oxy)ethyl) ether, showing a linear chain of eight carbon atoms with six fluorine atoms attached to the first three carbons, connected via an oxygen atom to a complex polyether chain ending in a hydroxyl group.</p>

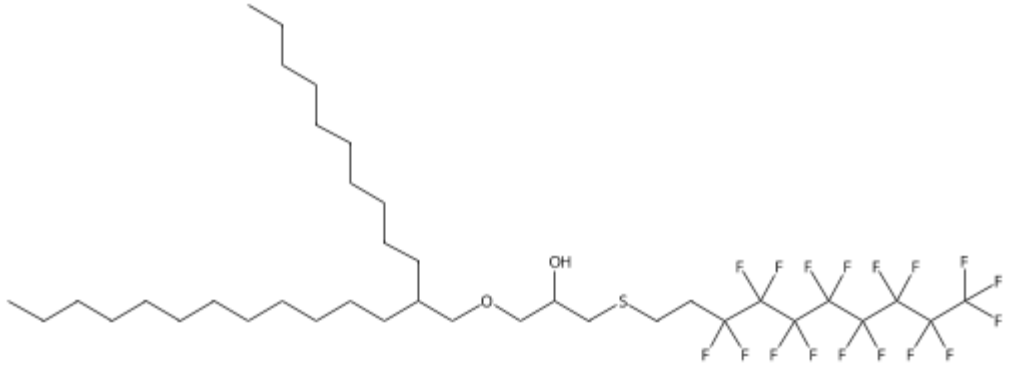
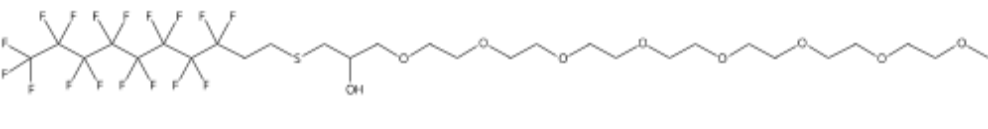
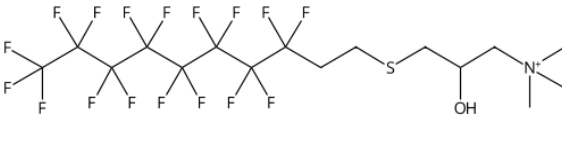
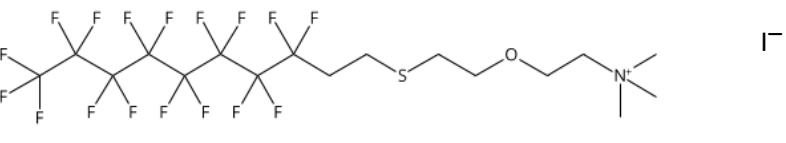
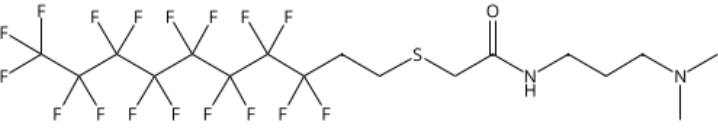
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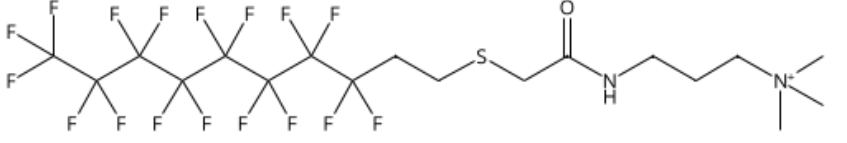
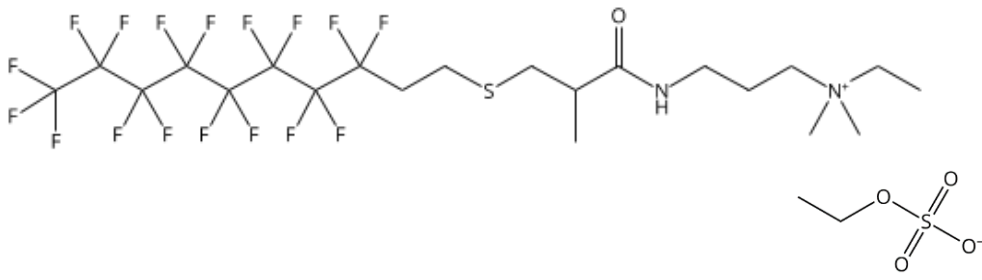
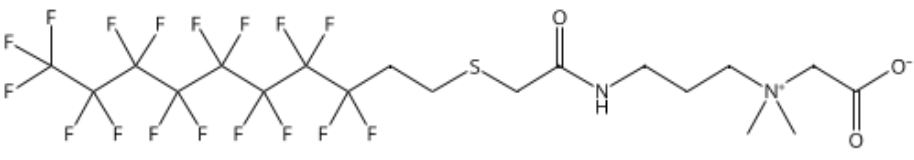
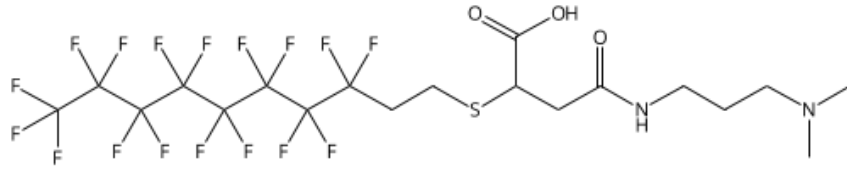
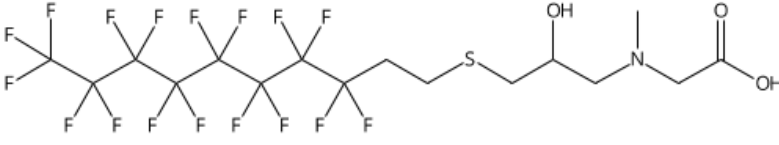
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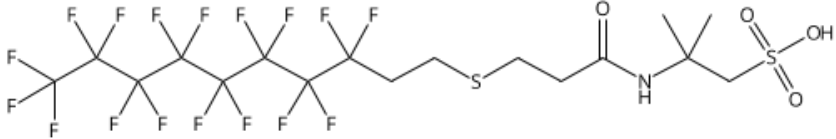
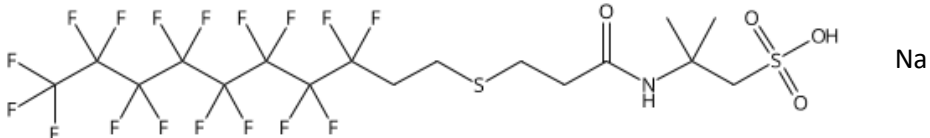
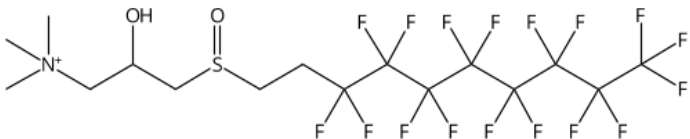
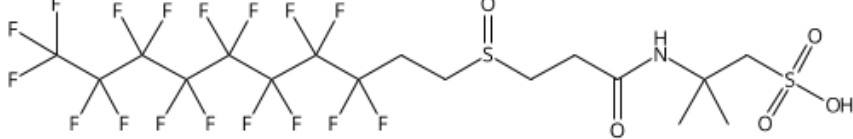
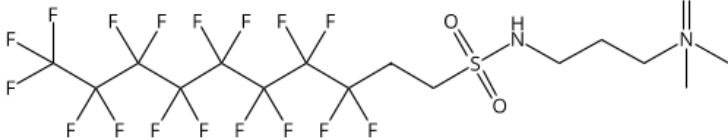
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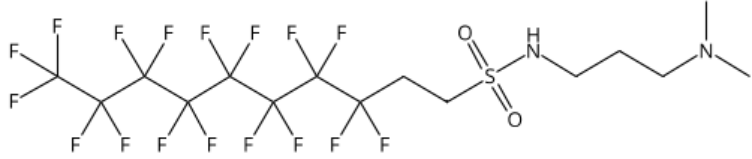
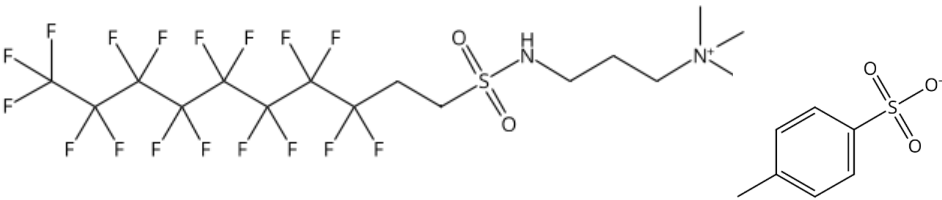
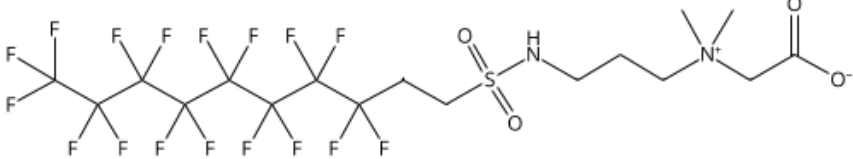
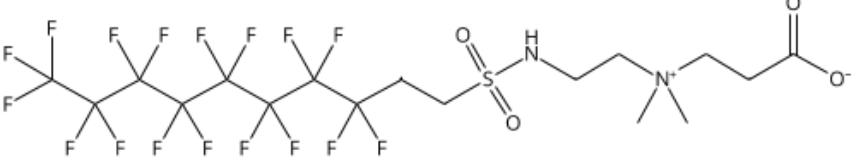
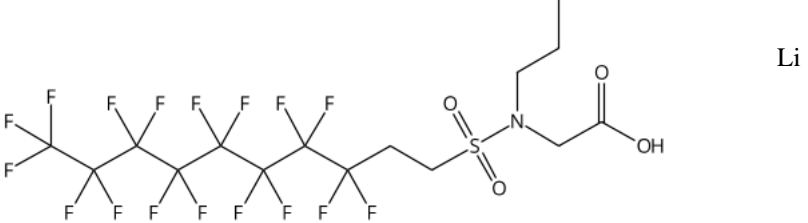
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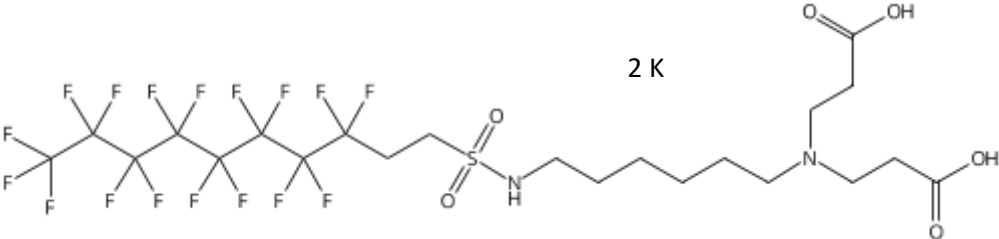
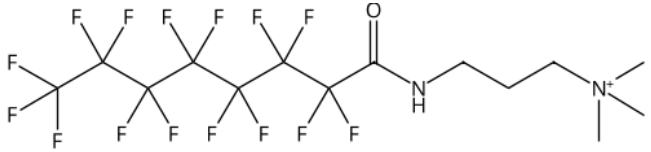
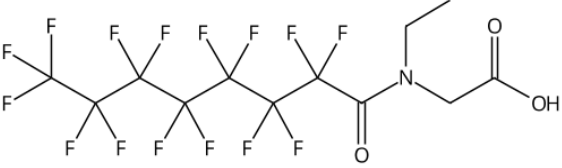
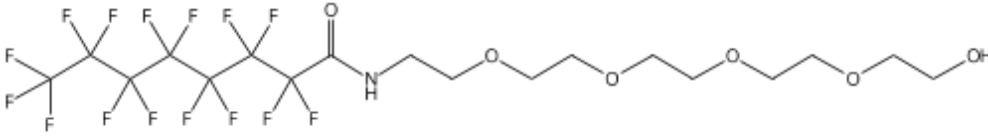
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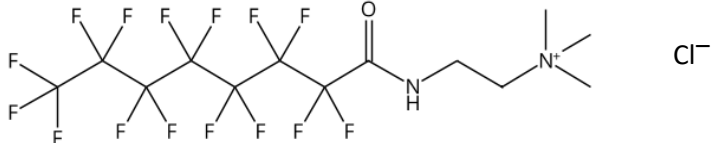
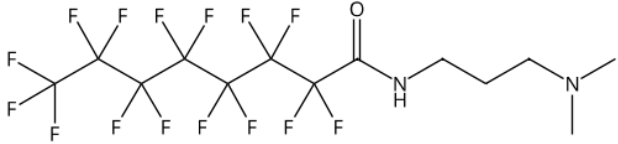
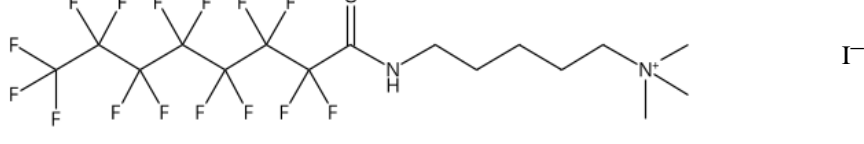
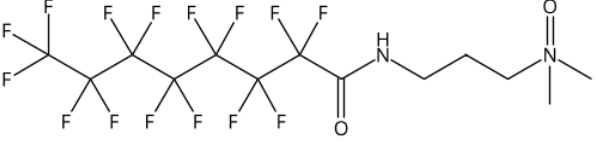
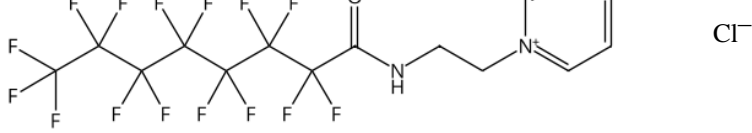
CAS No.	2D Structural Formula
160819-49-8	 <p>The structure shows a long-chain alkyl sulfonate ester. The alkyl chain is branched and ends in a methyl group. It is connected via an oxygen atom to a propanoic acid derivative chain, which is further connected via a sulfur atom to a perfluorinated chain consisting of six carbon atoms, each bonded to two fluorine atoms.</p>
121912-28-5	 <p>The structure shows a perfluorinated chain of six carbon atoms, each bonded to two fluorine atoms. This chain is connected via a sulfur atom to a propanoic acid derivative chain, which is further connected via an oxygen atom to a polyoxyethylene chain consisting of seven repeating units of ethylene oxide.</p>
727351-53-3	 <p>The structure shows a perfluorinated chain of six carbon atoms, each bonded to two fluorine atoms. This chain is connected via a sulfur atom to a propanoic acid derivative chain, which is further connected to a dimethylamino group (N(CH₃)₂).</p>
71625-52-0	 <p>The structure shows a perfluorinated chain of six carbon atoms, each bonded to two fluorine atoms. This chain is connected via a sulfur atom to a propanoic acid derivative chain, which is further connected to a dimethylamino group (N(CH₃)₂). An iodide counterion (I⁻) is shown next to the structure.</p>
1513863-91-6	 <p>The structure shows a perfluorinated chain of six carbon atoms, each bonded to two fluorine atoms. This chain is connected via a sulfur atom to a propanoic acid derivative chain, which is further connected to a dimethylamino group (N(CH₃)₂).</p>

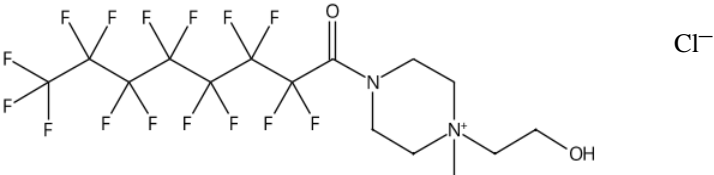
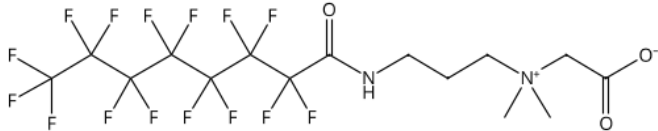
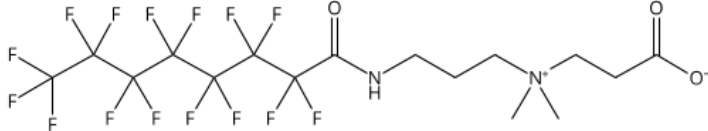
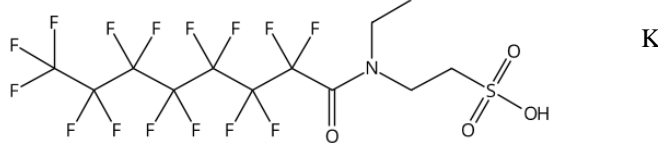
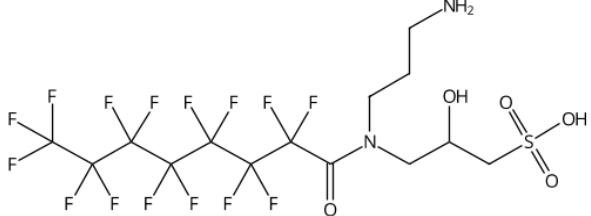
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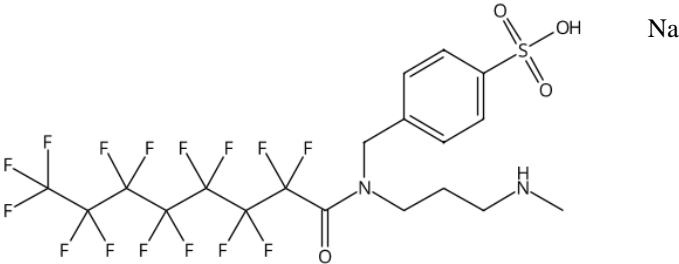
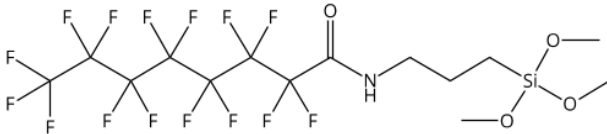
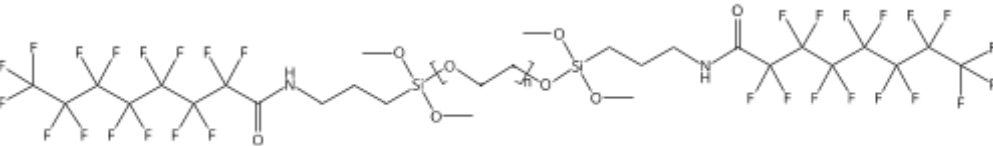
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62880-96-0	
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1513864-12-4	
80475-33-8	

CAS No.	2D Structural Formula
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438237-77-5	
34455-21-5	
34695-29-9	
441765-18-0	

CAS No.	2D Structural Formula
98900-53-9	 <p style="text-align: center;">2 K</p>
Other substances	
335-90-0	 <p style="text-align: center;">I⁻</p>
138473-79-7	 <p style="text-align: center;">NH₃</p>
89932-71-8	 <p style="text-align: center;">NH₃</p>

CAS No.	2D Structural Formula
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376-23-8	 <chem>CCCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)NCCN(C)C</chem>
91707-61-8	 <chem>CCCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)NCCCCCCC[N+](C)(C)C.[I-]</chem>
30295-53-5	 <chem>CCCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)NCCC[N+](C)(C)C</chem>
308-01-0	 <chem>CCCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(=O)NCCc1ccncc1.[Cl-]</chem>

CAS No.	2D Structural Formula
103555-98-2	
90179-39-8	
5158-52-1	
57670-46-9	
98900-76-6	

CAS No.	2D Structural Formula
98900-75-5	
98046-76-5	
154380-30-0	

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