

Perfluoroalkyl and Polyfluoroalkyl Substances (PFASs) - Biomonitoring California Laboratory Capability, August 2018

Sub-Group of PFASs	Measured ^a in serum	Lab analyte abbreviation	Name of lab standard	Name on designated chemical list ^b
Perfluoroalkyl carboxylates	✓	PFBA	Perfluoro-n-butanoic acid	Perfluorobutanoic acid
	✓	PFPeA	Perfluoro-n-pentanoic acid	Perfluoropentanoic acid
	✓	PFHxA	Perfluoro-n-hexanoic acid	Perfluorohexanoic acid
	✓ ^c	PFHpA	Perfluoro-n-heptanoic acid	Perfluoroheptanoic acid
	✓ ^c	PFOA	Perfluoro-n-octanoic acid	Perfluorooctanoic acid
	✓ ^c	PFNA	Perfluoro-n-nonanoic acid	Perfluorononanoic acid
	✓ ^c	PFDA	Perfluoro-n-decanoic acid	Perfluorodecanoic acid
	✓ ^c	PFUdA	Perfluoro-n-undecanoic acid	Perfluoroundecanoic acid
	✓ ^c	PFDoA	Perfluoro-n-dodecanoic acid	Perfluorododecanoic acid
	-- ^d	PFTTrDA	Perfluoro-n-tridecanoic acid	Perfluorotridecanoic acid
--	PFTeDA	Perfluoro-n-tetradecanoic acid	Perfluorotetradecanoic acid	
Perfluoroalkyl sulfonates	✓ ^c	PFBS	Potassium perfluoro-1-butanesulfonate, linear	Perfluorobutane sulfonic acid
	✓ ^c	PFHxS	Sodium perfluoro-1-hexanesulfonate, linear	Perfluorohexane sulfonic acid
	✓ ^c	PFOS	Sodium perfluoro-1-octanesulfonate, linear	Perfluorooctane sulfonic acid
	✓	PFDS	Sodium perfluoro-1-decanesulfonate, linear	Perfluorodecane sulfonic acid
Telomer acids (FTAs)	✓	FPePA	3-Perfluoropentyl propanoic acid	<i>Not named individually</i>
	✓	FHpPA	3-Perfluoroheptyl propanoic acid	<i>Not named individually</i>
	✓	FHEA	2-Perfluorohexyl ethanoic acid	<i>Not named individually</i>
	✓	FOEA	2-Perfluorooctyl ethanoic acid	<i>Not named individually</i>
Unsaturated telomer acids (FTUAs)	✓	FHUEA	2H-Perfluoro-2-octenoic acid	<i>Not named individually</i>
	✓	FOUEA	2H-Perfluoro-2-decenoic acid	<i>Not named individually</i>

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Fluorotelomer sulfonates	✓	4:2 FTS	Sodium 1H,1H,2H,2H-perfluorohexane sulfonate	4:2 Fluorotelomer sulfonic acid
	✓	6:2 FTS	Sodium 1H,1H,2H,2H-perfluorooctane sulfonate	6:2 Fluorotelomer sulfonic acid
	✓	8:2 FTS	Sodium 1H,1H,2H,2H-perfluorodecane sulfonate	8:2 Fluorotelomer sulfonic acid
Polyfluorinated phosphate esters	--	6:2 PAP	Sodium 1H,1H,2H,2H-perfluorooctylphosphate	6:2 Fluorotelomer phosphate monoester
	✓	8:2 PAP	Sodium 1H,1H,2H,2H-perfluorodecylphosphate	<i>Not named individually</i>
	✓	6:2 diPAP	Sodium bis (1H,1H,2H,2H-perfluorooctyl) phosphate	6:2 Fluorotelomer phosphate diester
	✓	8:2 diPAP	Sodium bis (1H,1H,2H,2H-perfluorodecyl) phosphate	8:2 Fluorotelomer phosphate diester
	--	SAmPAP	Sodium 2-(N-ethylperfluorooctane-1-sulfonamido)ethyl phosphate	<i>Not named individually</i>
	--	diSAmPAP	Sodium bis-[2-N-ethylperfluorooctane-1-sulfonamido)ethyl] phosphate	<i>Not named individually</i>
N-Alkylperfluorooctane-sulfonamidoacetic acids	✓ ^c	PFOSA	Perfluoro-1-octanesulfonamide	Perfluorooctane sulfonamide
	✓ ^c	EtFOSAA	N-Ethylperfluoro-1-octanesulfonamidoacetic acid	2-(N-Ethyl-perfluorooctane sulfonamido) acetic acid
	✓ ^c	MeFOSAA	N-Methylperfluoro-1-octanesulfonamidoacetic acid	2-(N-Methyl-perfluorooctane sulfonamido) acetic acid
Perfluoroalkylphosphinates	✓	6:6 PFPi	Sodium bis(perfluorohexyl)phosphinate	Bis(perfluorohexyl)phosphinic acid
	✓	6:8 PFPi	Sodium perfluorohexylperfluorooctyl-phosphinate	Perfluorohexylperfluorooctyl phosphinic acid
	--	8:8 PFPi	Sodium bis(perfluorooctyl)phosphinate	<i>Not named individually</i>
Perfluoroalkylphosphonic acids	✓	PFHxPA	Perfluorohexylphosphonic acid	Perfluorohexylphosphonic acid
	✓	PFOPA	Perfluorooctylphosphonic acid	Perfluorooctylphosphonic acid

a. Measured by the Environmental Chemistry Laboratory in the Department of Toxic Substances Control.

b. The entire class of PFASs is a "designated chemical" (as well as a "priority chemical"), but not all analytes are named individually on the list.

c. Included in the smaller panel of twelve PFASs, which are being measured in the California Regional Exposure (CARE) Study.

d. "--" means that this PFAS is included as a lab reference only, and not finalized as a reportable result.