

Measured Concentrations in parts per trillion (ppt=ng/kg)

Meat, Poultry, Fish, and Other Animal Derived Products Sample Method Detection Limits (MDL)	PFBA MDL=66	PFPeA MDL=44	PFHxA MDL=26	PFHpA MDL=73	PFOA MDL=90	PFNA MDL=28	PFDA MDL=43	PFBS MDL=21	PFPeS MDL=69	PFHxS MDL=59	PFHpS MDL=32	PFOS MDL=82	HFPO-DA MDL=83	NaDONA MDL=95	9CI-PF3ONs MDL=65	11CI-PF3OUdS MDL=90
Ice cream, vanilla	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ice cream, chocolate	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Milk shake, vanilla, fast-food	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Yogurt, frozen, vanilla	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Turkey, ground, pan-cooked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pork sausage (link/patty), oven-cooked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Turkey breast, oven-roasted	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chicken breast, fried with skin, fast-food	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Salami, dry/hard	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pork bacon, oven-cooked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Eggs, hard-boiled	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Tilapia, baked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Sauce, barbecue	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chicken leg, fried with skin, fast-food	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chicken nuggets, fast-food	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Beef steak, loin/sirloin, broiled	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Beef, ground, pan-cooked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chicken breast, oven-roasted, skin removed	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Shrimp, pre-cooked, shells removed, no tails	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Salmon, steaks/filletts, baked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Ham, cured (not canned), baked	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Pork chop, pan-cooked with oil	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Lamb chop, pan-cooked with oil	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Chicken thigh, oven-roasted, skin removed	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Catfish, pan-cooked with oil	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL
Cod, baked	<MDL	<MDL	<MDL	<MDL	<MDL	233	<MDL	<MDL	<MDL	<MDL	<MDL	98	<MDL	<MDL	<MDL	<MDL

Measured Concentrations in parts per trillion (ppt=ng/L)

Bottled Water Lowest Concentration Minimum Reporting Levels (LCMRL)*	PFBA LCMRL Not Determined**	PFPeA LCMRL Not Determined**	PFHxA LCMRL=1.7	PFHpA LCMRL=0.63	PFOA LCMRL =0.82	PFNA LCMRL=0.83	PFDA LCMRL=3.3	PFBS LCMRL=6.3	PFPeS LCMRL Not Determined**	PFHxS LCMRL=2.4	PFHpS LCMRL Not Determined**	PFOS LCMRL=2.7	HFPO-DA LCMRL=4.3	NaDONA LCMRL=.55	9CI-PF3ONs LCMRL=1.8	11CI-PF3OUdS LCMRL=1.5
Bottled drinking water (mineral/spring), not carbonated or flavored	Not Determined**	Not Determined**	<LCMRL	<LCMRL	<LCMRL	<LCMRL	<LCMRL	<LCMRL	Not Determined**	<LCMRL	Not Determined**	<LCMRL	<LCMRL	<LCMRL	<LCMRL	<LCMRL

**LCMRL: Lowest Concentration Minimum Reporting Levels (LCMRL). Bottled water samples were analyzed using Method 537.1: Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

**Not Determined: FDA modified EPA 537.1 to include 4 PFAS that are not incorporated into the EPA method. FDA did not independently determine MDL values or LCMRL values for these analytes.

Legend

Acronym	Name	CAS	Formula	Nominal Mass
PFBA	Perfluorobutanoic acid	375-22-4	C ₄ HF ₇ O ₂	214
PFPeA	Perfluoropentanoic acid	2706-90-3	C ₅ HF ₉ O ₂	264
PFHxA	Perfluorohexanoic acid	307-24-4	C ₆ HF ₁₁ O ₂	314
PFHpA	Perfluoroheptanoic acid	375-85-9	C ₇ HF ₁₃ O ₂	364
PFOA	Perfluorooctanoic acid	335-67-1	C ₈ HF ₁₅ O ₂	414
PFNA	Perfluorononanoic acid	375-95-1	C ₉ HF ₁₇ O ₂	464
PFDA	Perfluorodecanoic acid	335-76-2	C ₁₀ HF ₁₉ O ₂	514
PFBS	Perfluorobutanesulfonic acid	375-73-5	C ₄ HF ₉ O ₃ S	300
PFPeS	Perfluoropentanesulfonic acid	2706-91-4	C ₅ HF ₁₁ O ₃ S	350
PFHxS	Perfluorohexanesulfonic acid	355-46-4	C ₆ HF ₁₃ O ₃ S	400
PFHpS	Perfluoroheptanesulfonic acid	375-92-8	C ₇ HF ₁₅ O ₃ S	450
PFOS	Perfluorooctanesulfonic acid	1763-23-1	C ₈ HF ₁₇ O ₃ S	500
HFPO-DA	Hexafluoropropylene oxide dimer acid	13252-13-6	C ₆ HF ₁₁ O ₃	330
DONA	4,8-Dioxa-3H-perfluorononanoic acid	919005-14-4	C ₇ H ₂ F ₁₂ O ₄	378
9Cl-PF3ONS	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	756426-58-1	C ₈ ClF ₁₆ O ₄ S	532
11Cl-PF3OUdS	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9	C ₁₀ HClF ₂₀ O ₄ S	632

CAS = Chemical Abstract Service Number

MDL = Method Detection Limit. Method Detection Limit is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

[Method: Determination of 16 Per and Polyfluoroalkyl Substances \(PFAS\) in Food using Liquid Chromatography-Tandem Mass Spectrometry \(LC-MS/MS\) \(Version 2019\).](#)

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