

Table of assigned values Per- and polyfluoroalkyl substances (PFAS) - PF01

1st Edition, 09.12.2022

Table of assigned values

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
Perfluorobutanoic acid (PFBA) - PF4C	PF01 A	µg/l	0.0156 ± 0.000853	0.00219	14
	PF01 B	µg/l	0.103 ± 0.00675	0.0144	14
Perfluoropentanoic acid (PFPeA) - PF5C	PF01 A	µg/l	0.0162 ± 0.000935	0.0021	13
	PF01 B	µg/l	0.0828 ± 0.00365	0.00828	10
Perfluorohexanoic acid (PFHxA) - PF6C	PF01 A	µg/l	0.011 ± 0.000606	0.00143	13
	PF01 B	µg/l	0.176 ± 0.00728	0.0176	10
Perfluoroheptanoic acid (PFHpA) - PF7C	PF01 A	µg/l	0.0126 ± 0.000981	0.00177	14
	PF01 B	µg/l	0.0385 ± 0.00246	0.00539	14
Perfluorooctanoic acid (PFOA) - PF8C	PF01 A	µg/l	0.0314 ± 0.00153	0.00346	11
	PF01 B	µg/l	0.168 ± 0.0102	0.0236	14
Perfluorononanoic acid (PFNA) - PF9C	PF01 A	µg/l	0.0118 ± 0.000741	0.00141	12
	PF01 B	µg/l	0.116 ± 0.00542	0.0116	10
Perfluorodecanoic acid (PFDA) - PF10C	PF01 A	µg/l	0.00808 ± 0.000565	0.00121	15
	PF01 B	µg/l	0.0392 ± 0.00321	0.00706	18
Perfluoroundecanoic acid (PFUnDA) - PF11C	PF01 A	µg/l	0.0122 ± 0.00108	0.00219	18
	PF01 B	µg/l	0.0538 ± 0.00561	0.0118	22
Perfluorododecanoic acid (PFDoDA) - PF12C	PF01 A	µg/l	0.0127 ± 0.00122	0.00241	19
	PF01 B	µg/l	0.02 ± 0.00255	0.0054	27
Perfluorotridecanoic acid (PFTrDA) - PF13C	PF01 A	µg/l	0.00528 ± 0.000706	0.0018	34
	PF01 B	µg/l	0.0114 ± 0.00116	0.00262	23
Perfluorotetradecanoic acid (PFTeDA) - PF14C	PF01 A	µg/l	0.00566 ± 0.00182	0.00277	49
	PF01 B	µg/l	0.0128 ± 0.00278	0.00588	46
Perfluorobutane sulfonic acid (PFBS) - PF4S	PF01 A	µg/l	0.0254 ± 0.00127	0.00279	11
	PF01 B	µg/l	0.0301 ± 0.00259	0.00602	20
Perfluoropentane sulfonic acid (PFPeS) - PF5S	PF01 A	µg/l	0.0184 ± 0.00108	0.00221	12
	PF01 B	µg/l	0.0745 ± 0.00382	0.00819	11
Perfluorohexane sulfonic acid (PFHxS) - PF6S	PF01 A	µg/l	0.04 ± 0.00169	0.004	10
	PF01 B	µg/l	0.0547 ± 0.00369	0.00821	15
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	PF01 A	µg/l	0.022 ± 0.0015	0.00309	14
	PF01 B	µg/l	0.039 ± 0.00409	0.00898	23
Perfluorooctane sulfonic acid (PFOS) - PF8S	PF01 A	µg/l	0.0443 ± 0.00302	0.00665	15
	PF01 B	µg/l	0.118 ± 0.00961	0.0213	18

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Perfluorononane sulfonic acid (PFNS) - PF9S	PF01 A	µg/l	0.0177 ± 0.00303	0.00548	31
	PF01 B	µg/l	0.0915 ± 0.00999	0.0174	19
Perfluorodecane sulfonic acid (PFDS) - PF10S	PF01 A	µg/l	0.02 ± 0.00244	0.0048	24
	PF01 B	µg/l	0.0561 ± 0.00765	0.0157	28
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	PF01 A	µg/l	0.0183 ± 0.00558	0.00714	39
	PF01 B	µg/l	0.0288 ± 0.00548	0.0095	33
Perfluorododecane sulfonic acid (PFDoS) - PF12S	PF01 A	µg/l	0.0141 ± 0.00504	0.00618	44
	PF01 B	µg/l	0.011 ± 0.00203	0.00307	28
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S*	PF01 A	µg/l	- ± -	-	-
	PF01 B	µg/l	0.0119 ± 0.00377	0.00499	42
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)**	PF01 A	µg/l	- ± -	-	-
	PF01 B	µg/l	0.0598 ± 0.00631	0.00777	13
4:2 Fluorotelomer sulfonate (4:2 FTS)	PF01 A	µg/l	0.0202 ± 0.00251	0.00323	16
	PF01 B	µg/l	0.0847 ± 0.00815	0.0135	16
6:2 Fluorotelomer sulfonate (6:2 FTS)	PF01 A	µg/l	0.0197 ± 0.00167	0.00276	14
	PF01 B	µg/l	0.17 ± 0.0112	0.0187	11
8:2 Fluorotelomer sulfonate (8:2 FTS)	PF01 A	µg/l	0.0348 ± 0.00592	0.00835	24
	PF01 B	µg/l	0.113 ± 0.0186	0.0261	23
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	PF01 A	µg/l	0.0298 ± 0.00268	0.00357	12
	PF01 B	µg/l	0.115 ± 0.0195	0.0275	24
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	PF01 A	µg/l	0.0431 ± 0.00488	0.00646	15
	PF01 B	µg/l	0.226 ± 0.00994	0.0226	10
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	PF01 A	µg/l	0.0172 ± 0.00171	0.00223	13
	PF01 B	µg/l	0.148 ± 0.0156	0.0207	14

*Due to a too high scatter between the results of the participating laboratories for Perfluorotridecane sulfonic acid (PFTrDS) - PF13S for sample PF01 A, the definition of an assigned value is not possible. For this substance, the calculated mean value MV +/- U(k=2) based on the data of the accredited laboratories (n) is listed for information. This can be used for comparison as part of your internal QA measures.

Perfluorotridecane sulfonic acid (PFTrDS) - PF13S PF01 A (n=6): 0.0153 +/- 0.0080 U(k=2) µg/l

**Due to the small number of submitted results for N-Ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) for sample PF01 A the definition of an assigned value is not possible.

For this substance, the calculated mean value MV +/- U(k=2) based on the data of the laboratories (n) is listed for information. This can be used for comparison as part of your internal QA measures.

N-Ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA) PF01 A (n=5): 0.0144 +/- 0.00134 U(k=2) µg/l

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Legend:

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)