

## Table of assigned values

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
Perfluorobutanoic acid (PFBA) - PF4C	PF03 A	µg/l	0.00654 ± 0.000282	0.000719	11
	PF03 B	µg/l	0.0336 ± 0.00137	0.00403	12
Perfluoropentanoic acid (PFPeA) - PF5C	PF03 A	µg/l	0.0141 ± 0.000573	0.0017	12
	PF03 B	µg/l	0.0636 ± 0.00312	0.00954	15
Perfluorohexanoic acid (PFHxA) - PF6C	PF03 A	µg/l	0.00823 ± 0.000381	0.00115	14
	PF03 B	µg/l	0.0688 ± 0.00257	0.00757	11
Perfluoroheptanoic acid (PFHpA) - PF7C	PF03 A	µg/l	0.0168 ± 0.000745	0.00235	14
	PF03 B	µg/l	0.0252 ± 0.00125	0.00378	15
Perfluorooctanoic acid (PFOA) - PF8C	PF03 A	µg/l	0.0198 ± 0.000784	0.00237	12
	PF03 B	µg/l	0.0672 ± 0.00302	0.00941	14
Perfluorononanoic acid (PFNA) - PF9C	PF03 A	µg/l	0.0235 ± 0.00104	0.00329	14
	PF03 B	µg/l	0.0556 ± 0.00289	0.0089	16
Perfluorodecanoic acid (PFDA) - PF10C	PF03 A	µg/l	0.0211 ± 0.00145	0.00444	21
	PF03 B	µg/l	0.0363 ± 0.00248	0.00762	21
Perfluoroundecanoic acid (PFUnDA) - PF11C	PF03 A	µg/l	0.0092 ± 0.00079	0.0023	25
	PF03 B	µg/l	0.0371 ± 0.00312	0.00964	26
Perfluorododecanoic acid (PFDoDA) - PF12C	PF03 A	µg/l	0.0052 ± 0.000728	0.00187	36
	PF03 B	µg/l	0.0331 ± 0.00426	0.0113	34
Perfluorotridecanoic acid (PFTrDA) - PF13C	PF03 A*	µg/l	- ± -	-	-
	PF03 B*	µg/l	- ± -	-	-
Perfluorotetradecanoic acid (PFTeDA) - PF14C	PF03 A*	µg/l	- ± -	-	-
	PF03 B*	µg/l	- ± -	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	PF03 A	µg/l	0.0134 ± 0.00069	0.00214	16
	PF03 B	µg/l	0.0542 ± 0.00246	0.00759	14
Perfluoropentane sulfonic acid (PFPeS) - PF5S	PF03 A	µg/l	0.0219 ± 0.00113	0.00329	15
	PF03 B	µg/l	0.0775 ± 0.00404	0.0116	15
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	PF03 A	µg/l	0.0149 ± 0.000798	0.00253	17
	PF03 B	µg/l	0.0751 ± 0.00414	0.0128	17
Perfluorononane sulfonic acid (PFNS) - PF9S	PF03 A	µg/l	0.011 ± 0.000935	0.00286	26
	PF03 B	µg/l	0.0294 ± 0.00213	0.00646	22
Perfluorodecane sulfonic acid (PFDS) - PF10S	PF03 A	µg/l	0.00917 ± 0.0012	0.00312	34
	PF03 B	µg/l	0.026 ± 0.00269	0.00676	26

Table of assigned values Per- and polyfluoroalkyl substances (PFAS) - PF03

1<sup>st</sup> Edition, 10.12.2024

Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	PF03 A	µg/l	0.0134	±	0.00238	0.00589	44
	PF03 B*	µg/l	-	±	-	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S	PF03 A	µg/l	0.00729	±	0.00152	0.00357	49
	PF03 B*	µg/l	-	±	-	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	PF03 A*	µg/l	-	±	-	-	-
	PF03 B*	µg/l	-	±	-	-	-
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	PF03 A	µg/l	0.0128	±	0.000998	0.00205	16
4:2 Fluorotelomer sulfonate (4:2 FTS)	PF03 B	µg/l	0.045	±	0.00498	0.0122	27
	PF03 A	µg/l	0.00812	±	0.00101	0.00235	29
6:2 Fluorotelomer sulfonate (6:2 FTS)	PF03 B	µg/l	0.0624	±	0.00561	0.0131	21
	PF03 A	µg/l	0.0118	±	0.000605	0.00153	13
8:2 Fluorotelomer sulfonate (8:2 FTS)	PF03 B	µg/l	0.0304	±	0.00254	0.00639	21
	PF03 A	µg/l	0.0144	±	0.00106	0.00245	17
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	PF03 A	µg/l	0.00794	±	0.000735	0.00151	19
	PF03 B	µg/l	0.0384	±	0.00291	0.00576	15
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	PF03 A	µg/l	0.0332	±	0.00202	0.00464	14
	PF03 B	µg/l	0.107	±	0.0073	0.0193	18
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	PF03 A	µg/l	0.00616	±	0.000568	0.00117	19
	PF03 B	µg/l	0.0416	±	0.00443	0.00958	23
Total PFHxS	PF03 A	µg/l	0.0159	±	0.000618	0.00175	11
	PF03 B	µg/l	0.0996	±	0.00393	0.011	11
Total PFOS	PF03 A	µg/l	0.0294	±	0.00146	0.00412	14
	PF03 B	µg/l	0.0744	±	0.00453	0.0134	18
linear Perfluorooctane sulfonic acid (n-PFOS)	PF03 A	µg/l	0.0227	±	0.00132	0.00272	12
	PF03 B	µg/l	0.0579	±	0.00417	0.00869	15
linear Perfluorohexane sulfonic acid (n-PFHxS)	PF03 A	µg/l	0.0132	±	0.000431	0.00132	10
	PF03 B	µg/l	0.0821	±	0.00306	0.00821	10
branched Perfluorohexane sulfonic acid isomers (brPFHxS (sum))	PF03 A	µg/l	0.00249	±	0.000362	0.000646	26
	PF03 B	µg/l	0.0193	±	0.00375	0.00677	35
branched Perfluorooctane sulfonic acid isomers PFOS (br-PFOS (sum))	PF03 A	µg/l	0.00651	±	0.00103	0.00195	30
	PF03 B	µg/l	0.0185	±	0.00287	0.00536	29

\*For the following substances, the calculated mean values MV +/- SD(2s) based on the data of the accredited laboratories (n) after outlier removal are listed for information.

PF03 A Perfluorotridecanoic acid (PFTrDA) - PF13C: MV (n=23, accr.) +/- SD(2s): 0.0104 +/- 0.0117 µg/l

PF03 B Perfluorotridecanoic acid (PFTrDA) - PF13C: MV (n=24, accr.) +/- SD(2s): 0.0414 +/- 0.0467 µg/l

PF03 A Perfluorotetradecanoic acid (PFTeDA) - PF14C: MV (n=13, accr.) +/- SD(2s): 0.00278 +/- 0.00409 µg/l

PF03 B Perfluorotetradecanoic acid (PFTeDA) - PF14C: MV (n=18, accr.) +/- SD(2s): 0.00664 +/- 0.00827 µg/l

PF03 B Perfluoroundecane sulfonic acid (PFUnDS) - PF11S: MV (n=23, accr.) +/- SD(2s): 0.0284 +/- 0.029 µg/l

PF03 B Perfluorododecane sulfonic acid (PFDoS) - PF12S: MV (n=21, accr.) +/- SD(2s): 0.017 +/- 0.0224 µg/l

PF03 A Perfluorotridecane sulfonic acid (PFTrDS) - PF13S: MV (n=17, accr.) +/- SD(2s): 0.00419 +/- 0.00458 µg/l

PF03 B Perfluorotridecane sulfonic acid (PFTrDS) - PF13S: MV (n=23, accr.) +/- SD(2s): 0.0171 +/- 0.0222 µg/l

**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)
SD(2s)	Standard deviation (2s) (3 significant digits)