

Table of assigned values

Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
Perfluorobutanoic acid (PFBA) - PF4C	PF04 A	µg/l	0.00856	±	0.00079	0.00103	12
	PF04 B	µg/l	0.0196	±	0.00166	0.00236	12
Perfluoropentanoic acid (PFPeA) - PF5C	PF04 A	µg/l	0.00544	±	0.000474	0.000653	12
	PF04 B	µg/l	0.0245	±	0.0022	0.00294	12
Perfluorohexanoic acid (PFHxA) - PF6C	PF04 A	µg/l	0.00647	±	0.000352	0.000647	10
	PF04 B	µg/l	0.0362	±	0.0025	0.00362	10
Perfluoroheptanoic acid (PFHpA) - PF7C	PF04 A	µg/l	0.00633	±	0.00049	0.000633	10
	PF04 B	µg/l	0.017	±	0.00124	0.0017	10
Perfluorooctanoic acid (PFOA) - PF8C	PF04 A	µg/l	0.00907	±	0.000686	0.000907	10
	PF04 B	µg/l	0.038	±	0.00278	0.0038	10
Perfluorononanoic acid (PFNA) - PF9C	PF04 A	µg/l	0.00744	±	0.000477	0.000744	10
	PF04 B	µg/l	0.0429	±	0.00425	0.00558	13
Perfluorodecanoic acid (PFDA) - PF10C	PF04 A	µg/l	0.0118	±	0.000846	0.00118	10
	PF04 B	µg/l	0.0321	±	0.00139	0.00321	10
Perfluoroundecanoic acid (PFUnDA) - PF11C	PF04 A	µg/l	0.00555	±	0.000544	0.000721	13
	PF04 B	µg/l	0.0429	±	0.00635	0.00858	20
Perfluorododecanoic acid (PFDoDA) - PF12C	PF04 A	µg/l	0.0122	±	0.00232	0.00306	25
	PF04 B *	µg/l	-	±	-	-	-
Perfluorotridecanoic acid (PFTTrDA) - PF13C	PF04 A	µg/l	0.0112	±	0.00171	0.00225	20
	PF04 B	µg/l	0.041	±	0.00768	0.0102	25
Perfluorotetradecanoic acid (PFTeDA) - PF14C	PF04 A *	µg/l	-	±	-	-	-
	PF04 B *	µg/l	-	±	-	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	PF04 A	µg/l	0.0149	±	0.00138	0.00179	12
	PF04 B	µg/l	0.0599	±	0.00454	0.00599	10
Perfluoropentane sulfonic acid (PFPeS) - PF5S	PF04 A	µg/l	0.00711	±	0.000446	0.000711	10
	PF04 B	µg/l	0.0263	±	0.00211	0.00289	11
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	PF04 A	µg/l	0.0195	±	0.000782	0.00195	10

Table of assigned values PIPF04_A

1st Edition, 12.12.2025

Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
Perfluoroheptane sulfonic acid (PFHpS) - PF7S	PF04 B	µg/l	0.0638	± 0.00284	0.00638	10	
Perfluorononane sulfonic acid (PFNS) - PF9S	PF04 A	µg/l	0.011	± 0.000963	0.00131	12	
	PF04 B	µg/l	0.0371	± 0.00394	0.0052	14	
Perfluorodecane sulfonic acid (PFDS) - PF10S	PF04 A	µg/l	0.00929	± 0.000453	0.000929	10	
	PF04 B	µg/l	0.0242	± 0.00401	0.00531	22	
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S	PF04 A	µg/l	0.0276	± 0.00358	0.00469	17	
	PF04 B	µg/l	0.0514	± 0.00289	0.00514	10	
Perfluorododecane sulfonic acid (PFDoS) - PF12S	PF04 A	µg/l	0.0386	± 0.00432	0.00578	15	
	PF04 B	µg/l	0.0584	± 0.0057	0.00701	12	
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S	PF04 A	µg/l	0.03	± 0.00642	0.00841	28	
	PF04 B	µg/l	0.0432	± 0.00993	0.013	30	
N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
4:2 Fluorotelomer sulfonate (4:2 FTS)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
6:2 Fluorotelomer sulfonate (6:2 FTS)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
8:2 Fluorotelomer sulfonate (8:2 FTS)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	
branched Perfluorohexane sulfonic acid isomers (brPFHxS (sum))	PF04 A *	µg/l	-	± -	-	-	
	PF04 B *	µg/l	-	± -	-	-	

Table of assigned values PIPF04_A

1st Edition, 12.12.2025

Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
Total PFHxS	PF04 A	µg/l	0.0243	±	0.00113	0.00243	10
	PF04 B	µg/l	0.0559	±	0.0034	0.00559	10
branched Perfluorooctane sulfonic acid isomers PFOS (br-PFOS (sum))	PF04 A *	µg/l	-	±	-	-	-
	PF04 B *	µg/l	-	±	-	-	-
Total PFOS	PF04 A	µg/l	0.0233	±	0.00127	0.00233	10
	PF04 B	µg/l	0.0834	±	0.00795	0.0108	13
linear Perfluorohexane sulfonic acid (n-PFHxS)	PF04 A *	µg/l	-	±	-	-	-
	PF04 B *	µg/l	-	±	-	-	-
linear Perfluorooctane sulfonic acid (n-PFOS)	PF04 A *	µg/l	-	±	-	-	-
	PF04 B *	µg/l	-	±	-	-	-

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

These can be used for comparison as part of your internal QA measures.

Perfluorododecanoic acid (PFDoDA) - PF12C

PF04 B: MV (n=3, accr.) +/- U(k=2): 0.0479 +/- 0.000744 µg/l

Perfluorotetradecanoic acid (PFTeDA) - PF14C

PF04 A: MV (n=3, accr.) +/- U(k=2): 0.00739 +/- 0.00146 µg/l

PF04 B: MV (n=3, accr.) +/- U(k=2): 0.0338 +/- 0.00956 µg/l

N-Ethyl-perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)

PF04 A: MV (n=3, accr.) +/- U(k=2): 0.0145 +/- 0.000483 µg/l

PF04 B: MV (n=3, accr.) +/- U(k=2): 0.0432 +/- 0.0185 µg/l

4:2 Fluorotelomer sulfonate (4:2 FTS)

PF04 A: MV (n=2, accr.) +/- U(k=2): 0.00925 +/- 0.00011 µg/l

PF04 B: MV (n=3 accr.) +/- U(k=2): 0.0508 +/- 0.00536 µg/l

6:2 Fluorotelomer sulfonate (6:2 FTS)

PF04 A: MV (n=3, accr.) +/- U(k=2): 0.0187 +/- 0.00428 µg/l

PF04 B: MV (n=2 accr.) +/- U(k=2): 0.0472 +/- 0.00497 µg/l

8:2 Fluorotelomer sulfonate (8:2 FTS)

PF04 A: MV (n=3, accr.) +/- U(k=2): 0.0119 +/- 0.000922 µg/l

PF04 B: MV (n=2, accr.) +/- U(k=2): 0.0446 +/- 0.00572 µg/l

Perfluoro-4,8-dioxa-3H-nonanoic acid (DONA)

PF04 A: MV (n=3, accr.) +/- U(k=2): 0.00728 +/- 0.00121 µg/l

PF04 B: MV (n=4, accr.) +/- U(k=2): 0.0219 +/- 0.00228 µg/l

2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (GenX)

PF04 A: MV (n=2, accr.) +/- U(k=2): 0.0161 +/- 0.000199 µg/l

PF04 B: MV (n=3, accr.) +/- U(k=2): 0.0714 +/- 0.00893 µg/l

Table of assigned values PIPF04_A

1st Edition, 12.12.2025

9-Chlorohexadecafluoro-3-oxanone sulfonic acid (main component F-53B)

PF04 A: MV (n=3, accr.) +/- U(k=2): 0.00568 +/- 0.0009 µg/l

PF04 B: MV (n=3, accr.) +/- U(k=2): 0.0461 +/- 0.00664 µg/l

branched Perfluorohexane sulfonic acid isomers (brPFHxS (sum))

PF04 A: MV (n=4, accr.) +/- U(k=2): 0.00423 +/- 0.000684 µg/l

PF04 B: MV (n=4, accr.) +/- U(k=2): 0.0101 +/- 0.00213 µg/l

branched Perfluorooctane sulfonic acid isomers PFOS (br-PFOS (sum))

PF04 A: MV (n=4, accr.) +/- U(k=2): 0.00612 +/- 0.00115 µg/l

PF04 B: MV (n=4, accr.) +/- U(k=2): 0.0224 +/- 0.005 µg/l

linear Perfluorohexane sulfonic acid (n-PFHxS)

PF04 A: MV (n=4, accr.) +/- U(k=2): 0.0196 +/- 0.00112 µg/l

PF04 B: MV (n=4, accr.) +/- U(k=2): 0.0462 +/- 0.00331 µg/l

linear Perfluorooctane sulfonic acid (n-PFOS)

PF04 A: MV (n=4, accr.) +/- U(k=2): 0.0172 +/- 0.00114 µg/l

PF04 B: MV (n=4, accr.) +/- U(k=2): 0.0634 +/- 0.0044 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)