

Table of assigned values Per- and polyfluoroalkyl substances in solid samples - PFS01

1st Edition, 02.10.2024

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
Dry mass	PFS01 A	%	94.8 ±	0.775	1.9	2
	PFS01 B	%	93.9 ±	0.941	1.88	2
Perfluorobutanoic acid (PFBA) - PF4C	PFS01 A	µg/kg dm	1.09 ±	0.281	0.445	41
	PFS01 B	µg/kg dm	1.28 ±	0.213	0.384	30
Perfluoropentanoic acid (PFPeA) - PF5C	PFS01 A	µg/kg dm	1.3 ±	0.359	0.597	46
	PFS01 B	µg/kg dm	1.35 ±	0.338	0.592	44
Perfluorohexanoic acid (PFHxA) - PF6C	PFS01 A	µg/kg dm	4.98 ±	0.355	0.746	15
	PFS01 B	µg/kg dm	12 ±	1.49	2.88	24
Perfluoroheptanoic acid (PFHpA) - PF7C	PFS01 A	µg/kg dm	0.274 ±	0.0361	0.0548	20
	PFS01 B	µg/kg dm	0.368 ±	0.0704	0.114	31
Perfluorooctanoic acid (PFOA) - PF8C	PFS01 A	µg/kg dm	0.724 ±	0.105	0.203	28
	PFS01 B	µg/kg dm	1.03 ±	0.1	0.186	18
Perfluorononanoic acid (PFNA) - PF9C	PFS01 A	µg/kg dm	0.159 ±	0.0302	0.0542	34
	PFS01 B	µg/kg dm	0.212 ±	0.0469	0.0849	40
Perfluorodecanoic acid (PFDA) - PF10C	PFS01 A	µg/kg dm	0.355 ±	0.041	0.0781	22
	PFS01 B	µg/kg dm	0.605 ±	0.069	0.127	21
Perfluoroundecanoic acid (PFUnDA) - PF11C	PFS01 A	µg/kg dm	0.152 ±	0.0235	0.038	25
	PFS01 B	µg/kg dm	0.35 ±	0.0519	0.0944	27
Perfluorododecanoic acid (PFDoDA) - PF12C	PFS01 A	µg/kg dm	0.2 ±	0.0229	0.0401	20
	PFS01 B	µg/kg dm	0.406 ±	0.097	0.162	40
Perfluorotridecanoic acid (PFTrDA) - PF13C**	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluorobutane sulfonic acid (PFBS) - PF4S	PFS01 A	µg/kg dm	2.52 ±	0.326	0.656	26
	PFS01 B	µg/kg dm	3.31 ±	0.465	0.895	27
Perfluoropentane sulfonic acid (PFPeS) - PF5S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluoroheptane sulfonic acid (PFHpS) - PF7S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluorononane sulfonic acid (PFNS) - PF9S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluorodecane sulfonic acid (PFDS) - PF10S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluoroundecane sulfonic acid (PFUnDS) - PF11S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-

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Perfluoroundecane sulfonic acid (PFUnDS) - PF11S*	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluorododecane sulfonic acid (PFDoS) - PF12S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Perfluorotridecane sulfonic acid (PFTrDS) - PF13S*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Total PFHxS*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Total PFOS	PFS01 A	µg/kg dm	0.796 ±	0.0764	0.159	20
	PFS01 B	µg/kg dm	1.96 ±	0.192	0.393	20
linear Perfluorooctane sulfonic acid (n-PFOS)**	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
linear Perfluorohexane sulfonic acid (n-PFHxS)*	PFS01 A	µg/kg dm	- ±	-	-	-
	PFS01 B	µg/kg dm	- ±	-	-	-
Sum PFAS	PFS01 A	µg/kg dm	13.5 ±	2.06	3.77	28
	PFS01 B	µg/kg dm	23 ±	2.86	5.07	22

* The content of the following substances in the samples is too low. The values listed are for information purposes and can be used for comparison as part of your QA measures.

Perfluoropentane sulfonic acid (PFPeS) - PF5S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Perfluoroheptane sulfonic acid (PFHpS) - PF7S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Perfluorononane sulfonic acid (PFNS) - PF9S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Perfluorodecane sulfonic acid (PFDS) - PF10S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Perfluoroundecane sulfonic acid (PFUnDS) - PF11S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Perfluorododecane sulfonic acid (PFDoS) - PF12S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Perfluorotridecane sulfonic acid (PFTrDS) - PF13S:

PFS01 A: < 0,10 µg/kg dm

PFS01 B: < 0,10 µg/kg dm

Total PFHxS:

PFS01 A: < 0,15 µg/kg dm

PFS01 B: < 0,15 µg/kg dm

linear Perfluorohexane sulfonic acid (n-PFHxS):

PFS01 A: < 0,15 µg/kg dm

PFS01 B: < 0,15 µg/kg dm

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**The information values derived on the basis of the participants' results are listed for the following substance.

Perfluorotridecanoic acid (PFTrDA) - PF13C:

PFS01 A: MV (n=9; accr.): < 0,10 µg/kg dm

PFS01 B: MV (n=10; accr.): 0.175±0.12 µg/kg dm

***No assigned values can be determined for the following substance, as too few accredited laboratory results are available (n<6). Therefore, the calculated mean values MV±U (k=2) based on the data of the accredited laboratories (n) after outlier removal are listed for information and can be used for comparison as part of your internal QA measures.

linear Perfluorooctane sulfonic acid (n-PFOS):

PFS01 A: MV (n=4; accr.) ±U (k=2): 0.432±0.138 µg/kg dm

PFS01 B: MV (n=3; accr.) ±U (k=2): 1.353±0.526 µg/kg dm

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)