

Annex A(normative)

Usable ions and reachable quantification limits for PFAS analysis by LC/MS/MS in matrix samples

The usable ions and examples of reachable quantification limits of the method are given in Table A.1.

Table A.1 — Usable ions and reachable quantification limits for PFAS analysis by LC/MS/MS

Substance		CAS RN® ^{Fehler!} Textmarke nicht definiert.	Precursor Ion	Product Ion (quantifier)	LOQ ng /ml	LOQ µg/kg
PFBA	Perfluorobutanoic acid	375-22-4	213	169	0.5	10
PFPeA	Perfluoropentanoic acid	2706-90-3	263	219	0.5	10
PFHxA	Perfluoro-n-hexanoic acid	307-24-4	313	269/119	0.5	10
PFHpA	Perfluoro-n-heptanoic acid	375-85-9	363	319/169/255	0.5	10
PFOA	Perfluoro-n-octanoic acid	335-67-1	413	369/169	0.5	10
APFO Na-PFO K-PFO Ag-PFO F-PFO	Perfluoro-n-octanoic acid salts - Ammonium perfluorooctanoate - Sodium perfluorooctanoate - Potassium perfluorooctanoate - Silver perfluorooctanoate - Perfluorooctanoyl fluoride	3825-26-1 335-95-5 2395-00-8 335-93-3 335-60-0		(via PFOA)	--	--
PFNA	Perfluoro-n-nonanoic acid	375-95-1	463	419/219/169	0.5	10
PFDA	Perfluoro-n-decanoic acid	335-76-2	513	469/219/269	0,75	15
PFUnA	Perfluoroundecanoic acid	2058-94-8	563	169 / 519/269/219	0,75	15
PFDoA	Perfluorododecanoic acid	307-55-1	613	169 / 569/219/369/319	0,75	15
PFTrA	Perfluorotridecanoic acid	72629-94-8	663	169 / 619/219/269/369/319	0,75	15
PFTeA	Perfluorotetradecanoic acid	376-06-7	713	169 / 669/269/469	0,75	15
PFBS	Perfluorobutanesulfonic acid	375-73-5	299	80/99	0,5	10
PFHxS	Perfluorohexanesulfonic acid	355-46-4	399	80/99/169	0,5	10
PFHpS	Perfluoroheptane sulfonic acid	375-92-8	449	80/99	0,5	10
PFOS	Perfluorooctane sulfonic acid	1763-23-1	499	80/99	0,5	10

Substance		CAS RN® ^{Fehler!} Textmarke nicht definiert.	Precursor Ion	Product Ion (quantifier)	LOQ ng /ml	LOQ µg/kg
PFOS-X	Perfluorooctane sulfonic acid salts C ₈ F ₁₇ SO ₂ X - Potassium perfluorooctane sulfonate - Lithium perfluorooctane sulfonate - Ammonium perfluorooctane sulfonate - Bis2(hydroxyethyl)ammonium perfluorooctane sulfonate - Tetraethyl ammonium perfluorooctane sulfonate	2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3		(via PFOS)	--	--
PFOSA	Perfluorooctane sulfonamide	754-91-6	498	78 / 478/169/64	0,5	10
N-MeFOSA	N-Methylperfluoro-1- octanesulfonamide	31506-32-8	512	169/219	0,5	10
N-EtFOSA	N-Ethylperfluoro-1- octanesulfonamide	4151-50-2	526	169/219/419	0,5	10
N-MeFOSE	2-(N-methylperfluoro-1- octanesulfonamideo)-ethanol	24448-09-7	616	59/60/526	0,5	10
4:2 FTOH	2-Perfluorobutylethanol	2043-47-2	323	59	20	400
6:2 FTOH	2-Perfluorohexylethanol	647-42-7	423	59	5	100
8:2 FTOH	2-Perfluorooctylethanol	678-39-7	523	59	5	100
10:2 FTOH	2-Perfluorodecylethanol	865-86-1	623	59	5	100
N-EtFOSE	2-(N-Ethylperfluoro-1- octanesulfonamido)-ethanol	1691-99-2	630	59/58/572	0,5	10
PFOSF	Heptadecafluorooctanesulfonyl fluoride	307-35-7	499	(via PFOS)	(via PFOS)	-
4:2 FTS	1H,1H,2H,2H-Perfluorohexane sulfonic acid	757124-72-4	327	81/307/327	0,5	10
6:2 FTS	1H,1H,2H,2H-Perfluorooctane sulfonic acid	27619-97-2	427 / 463	407 / 81/80	0,5	10
8:2 FTS	1H,1H,2H,2H- Perfluorodecanesulfonic acid	39108-34-4	527	81/507	0,5	10
10:2 FTS	1H,1H,2H,2H- Perfluorododecanesulfonic acid	120226-60-0	627	627/81	0,5	10
PF-3,7- DMOA	Perfluoro(3,7-dimethyloctanoic acid)	172155-07-6	513	469/269	0,5	10
PFDS	Perfluorodecanesulfonic acid	335-77-3	599	80/99	0,5	10
7HPFHpA	7H-Dodecafluoroheptanoic acid	1546-95-8	345	281/39	5	100
4HPFUnA	2H,2H,3H,3H- Heptadecafluoroundecanoic acid	34598-33-9	491	367/387	0,5	10
HFPO-DA	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid	13252-13-6	329	169/185	0,5	10