

Perfluorokerosene (PFK) Positive Ions and Perfluorotributyl Amine (PFTBA, FC43) Positive Ions

Reference Mass Table

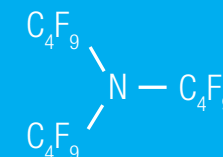
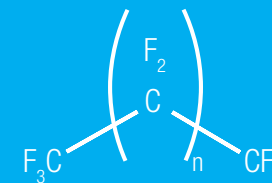
Perfluorokerosene (PFK) Positive Ions

Formula	Exact Mass [u]	Rel. Intensity [%]
He ⁺	4.002055	1.00
CH ₂ ⁺	14.015101	0.50
H ₂ O ⁺	18.010016	10.00
N ₂ ⁺	28.005599	15.00
CF ⁺	30.997855	3.80
O ₂ ⁺	31.989281	3.00
Ar ⁺	39.961835	1.70
CHF ₂ ⁺	51.004083	6.70
CF ₃ ⁺	68.994661	100.00
C ₂ F ₃ ⁺	80.994661	0.50
C ₃ F ₃ ⁺	92.994661	3.30
C ₂ F ₄ ⁺	99.993064	5.60
C ₃ HF ₄ ⁺	113.000889	0.02
C ₂ F ₅ ⁺	118.991467	26.40
C ₃ F ₅ ⁺	130.991467	24.00
C ₄ F ₅ ⁺	142.991467	1.90
C ₅ F ₅ ⁺	154.991467	1.40
C ₃ F ₇ ⁺	168.988274	17.00
C ₄ F ₇ ⁺	180.988274	8.75
C ₅ F ₇ ⁺	192.988274	8.30
C ₆ F ₇ ⁺	204.988274	1.50
C ₄ F ₉ ⁺	218.985080	8.60
C ₅ F ₉ ⁺	230.985080	8.80
C ₆ F ₉ ⁺	242.985080	3.80
C ₇ F ₉ ⁺	254.985080	1.20
C ₈ F ₉ ⁺	268.981887	4.00
C ₆ F ₁₁ ⁺	280.981887	6.00
C ₇ F ₁₁ ⁺	292.981887	2.70
C ₈ F ₁₁ ⁺	304.981887	1.00
C ₆ F ₁₃ ⁺	318.978693	2.00
C ₇ F ₁₃ ⁺	330.978693	3.70
C ₈ F ₁₃ ⁺	342.978693	1.80
C ₉ F ₁₃ ⁺	354.978693	0.90
C ₇ F ₁₅ ⁺	368.975499	0.80
C ₈ F ₁₅ ⁺	380.975499	2.30
C ₉ F ₁₅ ⁺	392.975499	1.10
C ₁₀ F ₁₅ ⁺	404.975499	1.00
C ₁₁ F ₁₅ ⁺	416.975499	0.55
C ₉ F ₁₇ ⁺	430.972306	1.85
C ₁₀ F ₁₇ ⁺	442.972306	1.20
C ₁₁ F ₁₇ ⁺	454.972306	0.80
C ₁₂ F ₁₇ ⁺	466.972306	0.50

Perfluorotributyl Amine (PFTBA, FC43) Positive Ions

Formula	Exact Mass [u]	Rel. Intensity [%]
He ⁺	4.002055	100.00
CH ₂ ⁺	14.015101	0.01
H ₂ O ⁺	18.010016	1.00
N ₂ ⁺	28.005599	1.00
CF ⁺	30.997855	0.19
O ₂ ⁺	31.989281	0.25
Ar ⁺	39.961835	0.10
CO ₂ ⁺	43.989281	1.00
CF ₂ ⁺	49.996258	3.00
CF ₃ ⁺	68.994661	50.68
C ₂ NF ₂ ⁺	75.999332	1.00
C ₂ F ₃ ⁺	80.994661	1.20
C ₃ F ₃ ⁺	92.994661	1.04
C ₂ F ₄ ⁺	99.993064	3.91
C ₂ NF ₄ ⁺	113.996138	3.52
C ₂ F ₅ ⁺	118.991467	5.85
C ₃ F ₅ ⁺	130.991467	49.77
C ₃ F ₆ ⁺	149.989871	2.11
C ₃ F ₇ ⁺	168.988274	5.14
C ₄ NF ₆ ⁺	175.992945	1.31
C ₄ F ₇ ⁺	180.988274	1.29
C ₄ F ₈ ⁺	199.986677	0.20
C ₄ NF ₈ ⁺	213.989751	2.46
C ₄ F ₉ ⁺	218.985080	100.00
C ₅ NF ₈ ⁺	225.989751	1.43

Formula	Exact Mass [u]	Rel. Intensity [%]
C ₅ F ₉ ⁺	230.985080	1.08
C ₆ F ₉ ⁺	242.985080	0.01
C ₅ NF ₁₀ ⁺	263.986557	37.57
C ₆ NF ₁₀ ⁺	275.986557	0.20
C ₆ F ₁₁ ⁺	280.981887	0.10
C ₆ NF ₁₁ ⁺	294.984961	0.20
C ₆ NF ₁₂ ⁺	313.983364	2.69
C ₇ NF ₁₂ ⁺	325.983364	0.25
C ₇ NF ₁₃ ⁺	344.981767	0.01
C ₆ NF ₁₄ ⁺	351.980170	1.69
C ₇ NF ₁₄ ⁺	363.980170	1.01
C ₈ NF ₁₄ ⁺	375.980170	1.22
C ₇ NF ₁₆ ⁺	401.976977	2.00
C ₈ NF ₁₆ ⁺	413.976977	10.77
C ₉ NF ₁₆ ⁺	425.976977	4.01
C ₈ NF ₁₈ ⁺	451.973783	0.60
C ₉ NF ₁₈ ⁺	463.973783	7.31
C ₁₀ NF ₁₈ ⁺	475.973783	0.01
C ₉ NF ₂₀ ⁺	501.970589	22.66
C ₁₀ NF ₂₀ ⁺	513.970589	0.08
C ₁₁ NF ₂₀ ⁺	525.970589	0.07
C ₁₀ NF ₂₂ ⁺	551.967396	0.02
C ₁₁ NF ₂₂ ⁺	563.967396	0.09
C ₁₂ NF ₂₂ ⁺	575.967396	1.25
C ₁₂ NF ₂₄ ⁺	613.964202	3.59



The calculated reference masses are based on the following values for isotopic masses:

- ¹H 1.0078250321u,
- ¹²C 12.0000000000u,
- ¹⁴N 14.0030740052u,
- ¹⁶O 15.9949146221u,
- ¹⁹F 18.9984032000u,
- ⁴⁰Ar 39.9623831230u,
- ³⁵Cl 34.9688527100u and
- ³⁷Cl 36.9659026000u.
- ⁷⁹Br 78.9183376u and
- ⁸¹Br 80.9162910u.

All listed masses refer to singly positively charged ions. The mass of the electron (0.000548579911u) was taken into account for the calculation of the ionic masses. Reference: Nuclear Phys. A 1995, 595, 409-480; J. Phys. Chem. Ref. Data 1999, 28 (6), 1713-1852 and references cited therein.

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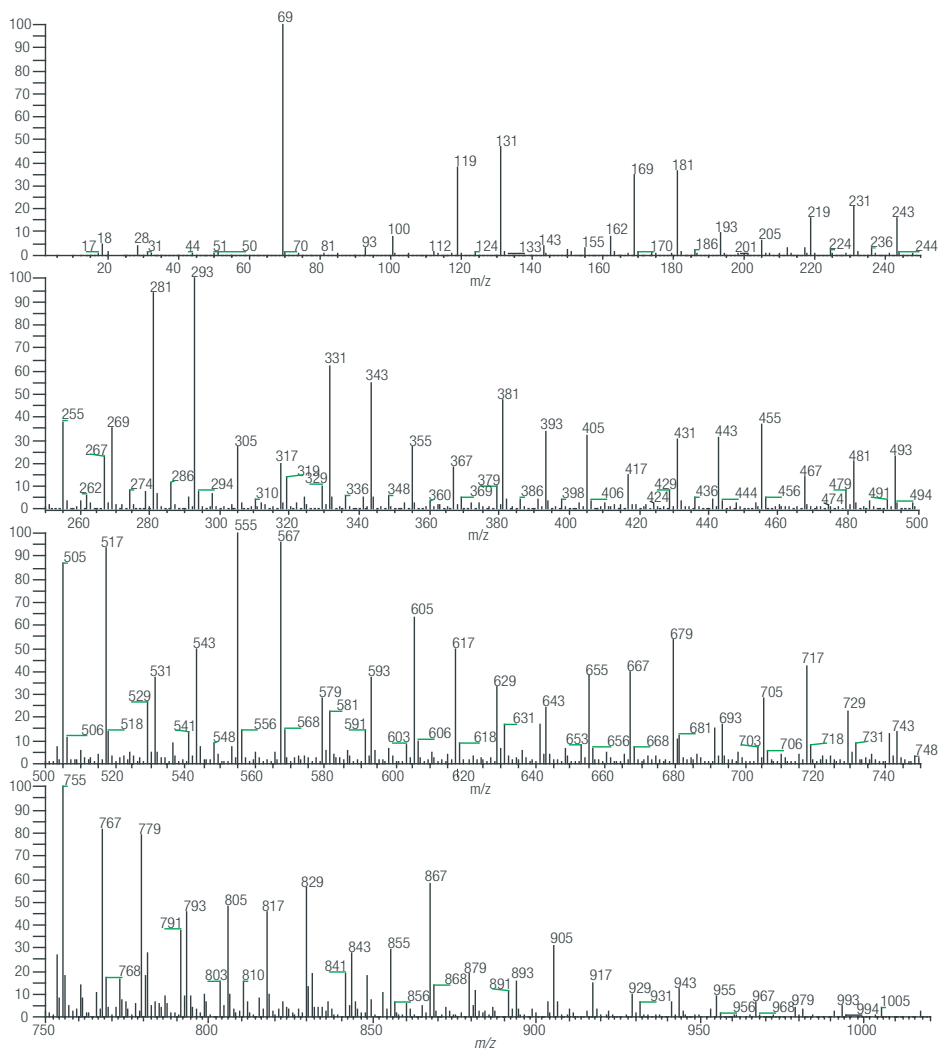


The calculated reference masses are based on the following values for isotopic masses: ¹H 1.0078250321u, ⁴He 4.0026032497u, ¹²C 12.0000000000u, ¹⁴N 14.0030740052u, ¹⁶O 15.9949146221u, ¹⁹F 18.9984032000u, and ⁴⁰Ar 39.9623831230u. The mass of the electron (0.000548579911u) was taken into account for the calculation of the ionic masses. Reference: Nuclear Phys. A 1995, 595, 409-480; J. Phys. Chem. Ref. Data 1999, 28 (6), 1713-1852 and references cited therein.

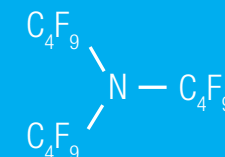
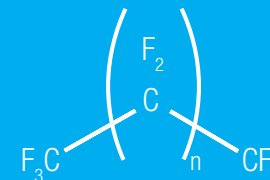
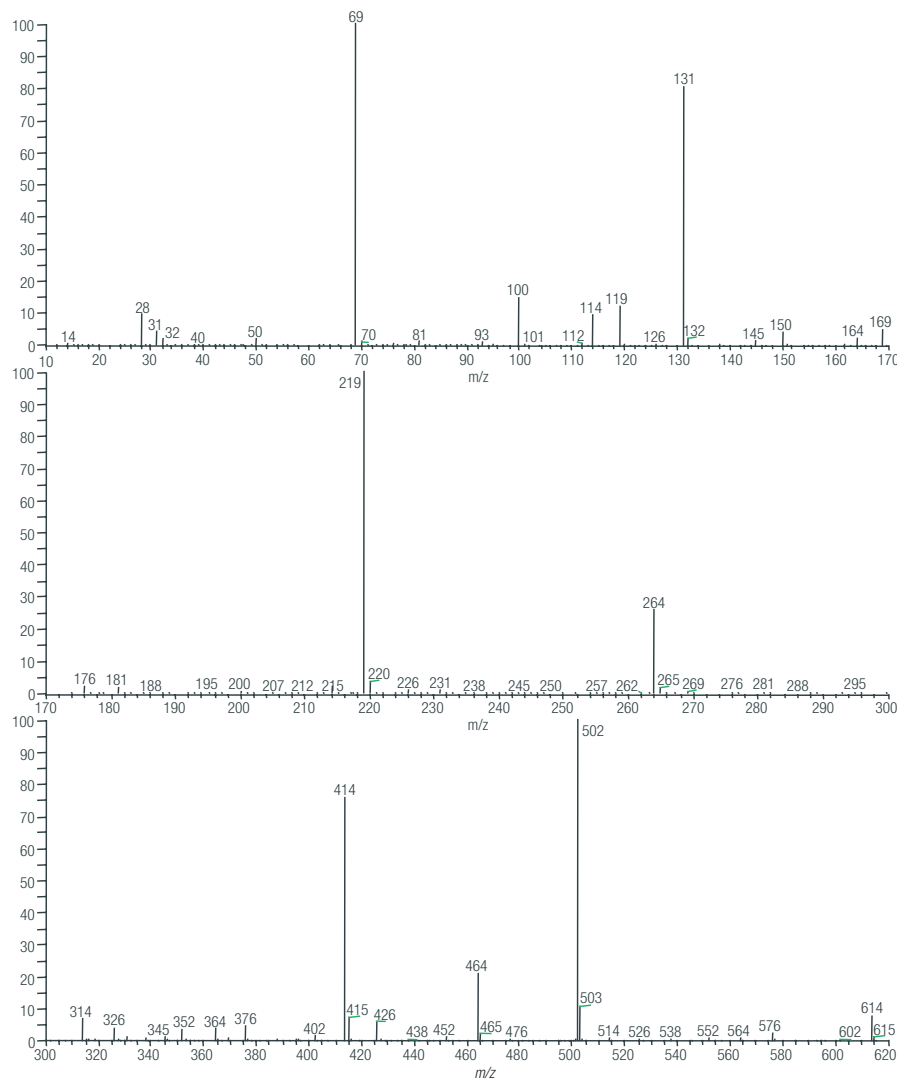
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Reference Mass Table

Perfluorokerosene (PFK) Positive Ions



Perfluorotributyl Amine (PFTBA, FC43) Positive Ions



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