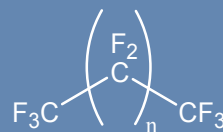


## Perfluorokerosene (PFK) Positive Ions

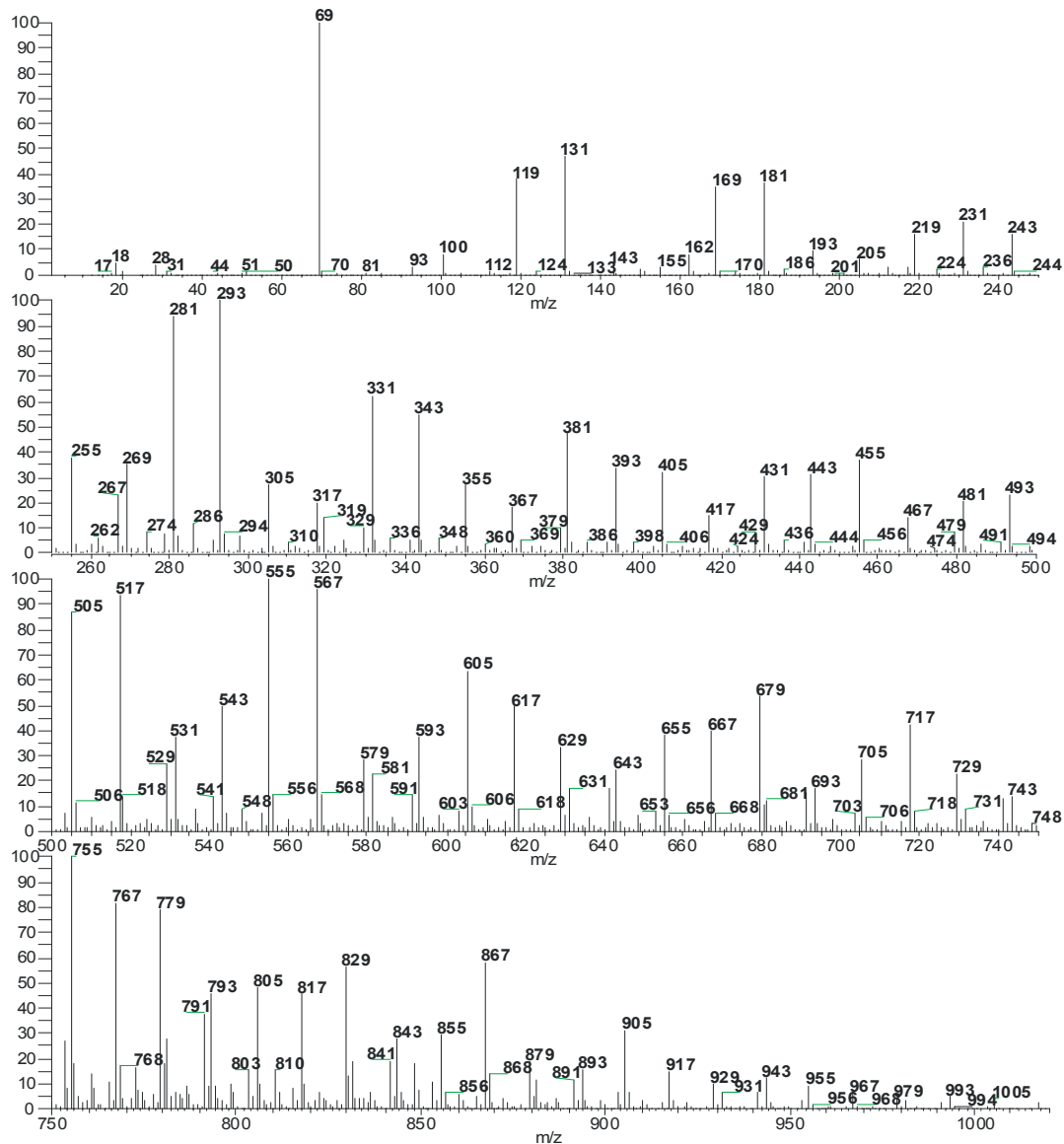


Formula	Exact Mass [u]	Rel. Intensity [%]
He <sup>+</sup>	4.002055	1.00
CH <sub>2</sub> <sup>+</sup>	14.015101	0.50
H <sub>2</sub> O <sup>+</sup>	18.010016	10.00
N <sub>2</sub> <sup>+</sup>	28.005599	15.00
CF <sup>+</sup>	30.997855	3.80
O <sub>2</sub> <sup>+</sup>	31.989281	3.00
Ar <sup>+</sup>	39.961835	1.70
CHF <sub>2</sub> <sup>+</sup>	51.004083	6.70
CF <sub>3</sub> <sup>+</sup>	68.994661	100.00
C <sub>2</sub> F <sub>3</sub> <sup>+</sup>	80.994661	0.50
C <sub>3</sub> F <sub>3</sub> <sup>+</sup>	92.994661	3.30
C <sub>2</sub> F <sub>4</sub> <sup>+</sup>	99.993064	5.60
C <sub>3</sub> HF <sub>4</sub> <sup>+</sup>	113.000889	0.02
C <sub>2</sub> F <sub>5</sub> <sup>+</sup>	118.991467	26.40
C <sub>3</sub> F <sub>5</sub> <sup>+</sup>	130.991467	24.00
C <sub>4</sub> F <sub>5</sub> <sup>+</sup>	142.991467	1.90
C <sub>5</sub> F <sub>5</sub> <sup>+</sup>	154.991467	1.40
C <sub>3</sub> F <sub>7</sub> <sup>+</sup>	168.988274	17.00
C <sub>4</sub> F <sub>7</sub> <sup>+</sup>	180.988274	8.75
C <sub>5</sub> F <sub>7</sub> <sup>+</sup>	192.988274	8.30
C <sub>6</sub> F <sub>7</sub> <sup>+</sup>	204.988274	1.50
C <sub>4</sub> F <sub>9</sub> <sup>+</sup>	218.985080	8.60
C <sub>5</sub> F <sub>9</sub> <sup>+</sup>	230.985080	8.80
C <sub>6</sub> F <sub>9</sub> <sup>+</sup>	242.985080	3.80
C <sub>7</sub> F <sub>9</sub> <sup>+</sup>	254.985080	1.20
C <sub>5</sub> F <sub>11</sub> <sup>+</sup>	268.981887	4.00
C <sub>6</sub> F <sub>11</sub> <sup>+</sup>	280.981887	6.00
C <sub>7</sub> F <sub>11</sub> <sup>+</sup>	292.981887	2.70
C <sub>8</sub> F <sub>11</sub> <sup>+</sup>	304.981887	1.00
C <sub>6</sub> F <sub>13</sub> <sup>+</sup>	318.978693	2.00
C <sub>7</sub> F <sub>13</sub> <sup>+</sup>	330.978693	3.70
C <sub>8</sub> F <sub>13</sub> <sup>+</sup>	342.978693	1.80
C <sub>9</sub> F <sub>13</sub> <sup>+</sup>	354.978693	0.90
C <sub>7</sub> F <sub>15</sub> <sup>+</sup>	368.975499	0.80
C <sub>8</sub> F <sub>15</sub> <sup>+</sup>	380.975499	2.30
C <sub>9</sub> F <sub>15</sub> <sup>+</sup>	392.975499	1.10
C <sub>10</sub> F <sub>15</sub> <sup>+</sup>	404.975499	1.00
C <sub>11</sub> F <sub>15</sub> <sup>+</sup>	416.975499	0.55
C <sub>9</sub> F <sub>17</sub> <sup>+</sup>	430.972306	1.85
C <sub>10</sub> F <sub>17</sub> <sup>+</sup>	442.972306	1.20
C <sub>11</sub> F <sub>17</sub> <sup>+</sup>	454.972306	0.80
C <sub>12</sub> F <sub>17</sub> <sup>+</sup>	466.972306	0.50
C <sub>10</sub> F <sub>19</sub> <sup>+</sup>	480.969112	1.40

Formula	Exact Mass [u]	Rel. Intensity [%]
C <sub>11</sub> F <sub>19</sub> <sup>+</sup>	492.969112	1.10
C <sub>12</sub> F <sub>19</sub> <sup>+</sup>	504.969112	0.65
C <sub>13</sub> F <sub>19</sub> <sup>+</sup>	516.969112	0.50
C <sub>11</sub> F <sub>21</sub> <sup>+</sup>	530.965919	0.70
C <sub>12</sub> F <sub>21</sub> <sup>+</sup>	542.965919	0.60
C <sub>13</sub> F <sub>21</sub> <sup>+</sup>	554.965919	0.50
C <sub>14</sub> F <sub>21</sub> <sup>+</sup>	566.965919	0.60
C <sub>12</sub> F <sub>23</sub> <sup>+</sup>	580.962725	0.70
C <sub>13</sub> F <sub>23</sub> <sup>+</sup>	592.962725	0.65
C <sub>14</sub> F <sub>23</sub> <sup>+</sup>	604.962725	0.60
C <sub>15</sub> F <sub>23</sub> <sup>+</sup>	616.962725	0.50
C <sub>13</sub> F <sub>25</sub> <sup>+</sup>	630.959531	0.50
C <sub>14</sub> F <sub>25</sub> <sup>+</sup>	642.959531	0.50
C <sub>15</sub> F <sub>25</sub> <sup>+</sup>	654.959531	0.55
C <sub>16</sub> F <sub>25</sub> <sup>+</sup>	666.959531	0.50
C <sub>14</sub> F <sub>27</sub> <sup>+</sup>	680.956338	0.20
C <sub>15</sub> F <sub>27</sub> <sup>+</sup>	692.956338	0.25
C <sub>16</sub> F <sub>27</sub> <sup>+</sup>	704.956338	0.40
C <sub>17</sub> F <sub>27</sub> <sup>+</sup>	716.956338	0.25
C <sub>15</sub> F <sub>29</sub> <sup>+</sup>	730.953144	0.20
C <sub>16</sub> F <sub>29</sub> <sup>+</sup>	742.953144	0.25
C <sub>17</sub> F <sub>29</sub> <sup>+</sup>	754.953144	0.50
C <sub>18</sub> F <sub>29</sub> <sup>+</sup>	766.953144	0.20
C <sub>16</sub> F <sub>31</sub> <sup>+</sup>	780.949951	0.25
C <sub>17</sub> F <sub>31</sub> <sup>+</sup>	792.949951	0.30
C <sub>18</sub> F <sub>31</sub> <sup>+</sup>	804.949951	0.15
C <sub>19</sub> F <sub>31</sub> <sup>+</sup>	816.949951	0.05
C <sub>17</sub> F <sub>33</sub> <sup>+</sup>	830.946757	0.10
C <sub>18</sub> F <sub>33</sub> <sup>+</sup>	842.946757	0.10
C <sub>19</sub> F <sub>33</sub> <sup>+</sup>	854.946757	0.10
C <sub>20</sub> F <sub>33</sub> <sup>+</sup>	866.946757	0.05
C <sub>18</sub> F <sub>35</sub> <sup>+</sup>	880.943563	0.10
C <sub>19</sub> F <sub>35</sub> <sup>+</sup>	892.943563	0.10
C <sub>20</sub> F <sub>35</sub> <sup>+</sup>	904.943563	0.05
C <sub>21</sub> F <sub>35</sub> <sup>+</sup>	916.943563	0.05
C <sub>19</sub> F <sub>37</sub> <sup>+</sup>	930.940370	0.05
C <sub>20</sub> F <sub>37</sub> <sup>+</sup>	942.940370	0.05
C <sub>21</sub> F <sub>37</sub> <sup>+</sup>	954.940370	0.05
C <sub>22</sub> F <sub>37</sub> <sup>+</sup>	966.940370	0.05
C <sub>20</sub> F <sub>39</sub> <sup>+</sup>	980.937176	0.05
C <sub>21</sub> F <sub>39</sub> <sup>+</sup>	992.937176	0.05
C <sub>22</sub> F <sub>39</sub> <sup>+</sup>	1004.937176	0.05
C <sub>23</sub> F <sub>39</sub> <sup>+</sup>	1016.937176	0.05

The calculated reference masses are based on the following values for isotopic masses: <sup>1</sup>H 1.0078250321u, <sup>4</sup>He 4.0026032497u, <sup>12</sup>C 12.0000000000u, <sup>14</sup>N 14.0030740052u, <sup>16</sup>O 15.9949146221u, <sup>19</sup>F 18.9984032000u, and <sup>40</sup>Ar 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.

## Perfluorokerosene (PFK) Positive Ions



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