CI Positive and Negative Ion Mass Spectra of Heptacosa (perfluoro-tributylamine) $(C_4F_9)_3N$

Positive Ions	
m/e	Intensity
68.99520975	100.00
130.9920163	36.31
218.9856293	38.07
263.9871065	8.38
413.977526	1.64
501.971139	1.90

Negative Ions	
m/e	Intensity
244.9887033	2.81
282.9855098	6.65
301.983913	3.79
311.9871065	6.52
332.9823163	7.10
375.9807195	3.78
394.9791228	2.69
413.977526	12.15
432.9759293	10.62
451.9743325	100.00
482.2977358	2.05
513.971139	7.70
518.9727358	4.44
556.9695423	18.76
594.9663488	46.73
632.9631553	60.90
682.9599618	0.14

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EI Positive Ion Mass Spectra of Reference Compound Heptacosa (perfluoro-tributylamine) $(C_4F_9)_3N$

Nominal Mass	Formula	Mass (^{12}C=12)	Relative Intensity of Peak	
			Major Peaks	Minor Peaks
31	CF	30.998	40	2.3
50	CF_2	49.996	80	1.0
69	CF_3	68.995	21	100
76	C_2F_2N	75.999	88	0.34
81	C_2F_3	80.995	21	0.53
93	C_3F_3	92.995	21	1.1
95	C_2F_3N	94.998	28	0.30
100	C_2F_4	99.993	61	12
107	C_3F_3N	106.998	28	0.086
112	C_3F_4	111.993	61	0.65
114	C_2F_4N	113.996	68	3.7
119	C_2F_5	118.992	01	8.3
124	C_4F_4	123.993	61	0.10
126	C_3F_4N	125.996	68	0.20
131	C_3F_5	130.992	01	31
138	C_4F_4N	137.996	68	0.21
143	C_4F_5	142.992	01	0.27
150	C_3F_6	149.990	41	2.1
155	C_5F_5	154.992	01	0.057
162	C_4F_6	161.990	41	0.32
164	C_3F_6N	163.993	49	0.66
169	C_3F_7	168.988	82	3.6
176	C_4F_6N	175.993	49	0.99
181	C_4F_7	180.988	82	1.9
188	C_5F_6	187.993	49	0.15
200	C_4F_8	199.987	22	0.24
207	C_5F_7N	206.991	89	0.099
214	C_4F_8N	213.990	29	0.64
219	C_4F_9	218.985	62	62
226	C_5F_8N	225.990	29	0.65
231	C_5F_9	230.985	62	0.93
238	C_6F_8N	237.990	29	0.14
243	C_6F_9	242.985	62	0.10
257	C_6F_9N	256.988	69	0.065

Nominal Mass	Formula	Mass (^{12}C=12)	Relative Intensity of Peak	
			Major Peaks	Minor Peaks
264	$C_5F_{10}N$	263.987	10	10
276	$C_6F_{10}N$	275.987	10	0.21
288	$C_7F_{10}N$	287.987	10	0.093
295	$C_6F_{11}N$	294.985	50	0.14
300	$C_8F_{10}N$	299.987	09	0.036
314	$C_6F_{12}N$	313.983	90	0.44
326	$C_7F_{12}N$	325.983	90	0.40
338	$C_8F_{12}N$	337.983	90	0.11
345	$C_7F_{13}N$	344.982	30	0.064
352	$C_6F_{14}N$	351.980	70	0.19
364	$C_7F_{14}N$	363.980	70	0.16
376	$C_8F_{14}N$	375.980	70	0.93
388	$C_9F_{14}N$	387.980	70	0.086
395	$C_8F_{15}N$	394.979	11	0.21
407	$C_9F_{15}N$	406.979	11	0.086
414	$C_8F_{16}N$	413.977	51	5.1
426	$C_9F_{16}N$	425.977	51	2.5
438	$C_{10}F_{16}N$	437.977	51	0.086
464	$C_9F_{18}N$	463.974	31	3.8
476	$C_{10}F_{18}N$	475.974	31	0.12
488	$C_{11}F_{18}N$	487.974	31	0.086
502	$C_9F_{20}N$	501.971	12	8.6
538	$C_{12}F_{20}N$	537.971	12	0.40
564	$C_{11}F_{22}N$	563.967	92	0.18
576	$C_{12}F_{22}N$	575.967	92	1.7
614	$C_{12}F_{24}N$	613.964	73	2.6

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