

C PHYSICAL PROPERTY DATA BANK

Inorganic compounds are listed in alphabetical order of the principal element in the empirical formula.

Organic compounds with the same number of carbon atoms are grouped together and arranged in order of the number of hydrogen atoms, with other atoms in alphabetical order.

A searchable spreadsheet containing the physical property data and models is available in the online material at <http://books.elsevier.com/companions>.

NO = Number in list
MOLWT = Molecular weight
TFP = Normal freezing point, deg C
TBP = Normal boiling point, deg C
TC = Critical temperature, deg K
PC = Critical pressure, bar
VC = Critical volume, cubic meter/mol
LDEN = Liquid density, kg/cubic meter
TDEN = Reference temperature for liquid density, deg C
HVAP = Heat of vaporization at normal boiling point, J/mol
VISA, VISB = Constants in the liquid viscosity equation:

$$\text{LOG}[\text{viscosity}] = [\text{VISA}] * [(1/\text{T}) - (1/\text{VISB})], \text{ viscosity mNs/sq.m, T deg K.}$$

DELHF = Standard enthalpy of formation of vapor at 298 K, kJ/mol.

DELGF = Standard Gibbs energy of formation of vapor at 298 K, kJ/mol.

CPVAPA, CPVAPB, CPVAPC, CPVAPD = Constants in the ideal gas heat capacity equation:

$$\begin{aligned} C_p &= \text{CPVAPA} + (\text{CPVAPB}) * T + (\text{CPVAPC}) * T ** 2 + (\text{CPVAPD}) * T ** 3, \\ C_p &= \text{ J/mol K, T deg K.} \end{aligned}$$

ANTA, ANTB, ANTC = Constants in the Antoine equation:

$$\text{Ln (vapor pressure)} = \text{ANTA} - \text{ANTB}/(\text{T} + \text{ANTC}), \text{ vap. press. mmHg, T deg K.}$$

To convert mmHg to N/sq.m multiply by 133.32.

To convert degrees Celsius to Kelvin add 273.15.

TMN = Minimum temperature for Antoine constant, deg C

TMX = Maximum temperature for Antoine constant, deg C

Most of the values in this data bank were taken, with the permission of the publishers, from *The Properties of Gases and Liquids*, 3rd ed., by R. C. Reid, T. K. Sherwood, and J. M. Prausnitz, McGraw-Hill.

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
1	AR	ARGON	39.948	-189.9	-185.9	150.8	48.7	0.075	1373	-183	6531	1
2	BCL3	BORON TRICHLORIDE	117.169	-107.3	12.5	452.0	38.7		1350	11		2
3	BF3	BORON TRIFLUORIDE	67.805	-126.7	-99.9	260.8	49.9					3
4	BR2	BROMINE	159.808	-7.2	58.7	584.0	103.4	0.127	3119	20	30,187	4
5	CLNO	NITROSYL CHLORIDE	65.459	-59.7	-5.5	440.0	91.2	0.139	1420	-12	25,707	5
6	CL2	CHLORINE	70.906	-101.0	-34.5	417.0	77.0	0.124	1563	-34	20,432	6
7	CL3P	PROSPHORUS TRICHLORIDE	137.333	-112.2	75.8	563.0		0.260	1574	21		7
8	CL4SI	SILICON TETRACHLORIDE	169.898	-68.9	-249.5	507.0	37.5	0.326	1480	20	27,549	8
9	D2	DEUTERIUM	4.032	-254.5	-249.5	38.4	16.6	0.060	165	-250	1223	9
10	D2O	DEUTERIUM OXIDE	20.031	3.8	101.4	644.0	216.6	0.056	1105	20	41,366	10
11	F2	FLUORINE	37.997	-219.7	-188.2	144.3	52.2	0.066	1510	-188	6531	11
12	F3N	NITROGEN TRIFLUORIDE	71.002	-206.8	-129.1	234.0	45.3		1537	-129		12
13	F4SI	SILICON TETRAFLUORIDE	104.080	-90.2	-86.2	259.0	37.2		1660	-95		13
14	F6S	SULFUR HEXAFLUORIDE	146.050	-50.7	-63.9	318.7	37.6	0.198	1830	-50		14
15	HBR	HYDROGEN BROMIDE	80.912	-86.1	-67.1	363.2	85.5	0.100	2160	-57	17,668	15
16	HCL	HYDROGEN CHLORIDE	36.461	-114.2	-85.1	324.6	83.1	0.081	1193	-85	16,161	16
17	HF	HYDROGEN FLUORIDE	20.006	-83.2	19.5	461.0	64.8	0.069	967	20	6699	17
18	H1	HYDROGEN IODIDE	127.912	-50.8	-35.6	424.0	83.1	0.131	2803	-36	19,778	18
19	H2	HYDROGEN	2.016	-259.2	-252.8	33.2	13.0	0.065	71	-253	904	19
20	H2O	WATER	18.015	0.0	100.0	647.3	220.5	0.056	998	20	40,683	20
21	H2S	HYDROGEN SULPHIDE	34.080	-85.6	-60.4	373.2	89.4	0.099	993	-60	18,673	21
22	H3N	AMMONIA	17.031	-77.8	-33.5	405.6	112.8	0.073	639	0	23,362	22
23	H3P	PHOSPHINE	33.998	-133.8	-87.5	324.8	62.7	0.113			14,725	23
24	H4N2	HYDRAZINE	32.045	1.5	113.5	653.0	146.9	0.096	1008	20	44,799	24
25	H4SI	SILANE	32.112	-185.0	-112.2	269.7	48.4		680	88		25
26	HE(4)	HELIUM-4	4.003		-269.0	5.2	2.3	0.057	123	-269	92	26
27	I2	IODINE	253.808	113.6	184.3	819.0	116.5	0.155	3740	180	41,868	27
28	KR	KRYPTON	83.800	-157.4	-153.4	209.4	55.0	0.091	2420	-153	9667	28
29	NO	NITRIC OXIDE	30.006	-163.7	-151.8	180.0	64.8	0.058	1280	-152	13,816	29
30	NO2	NITROGEN DIOXIDE	46.006	-11.3	21.1	431.4	101.3	0.170	1447	20	19,071	30
31	N2	NITROGEN	28.013	-209.9	-195.8	126.2	33.9	0.090	805	-195	5581	31
32	N2O	NITROUS OXIDE	44.013	-90.9	-88.5	309.6	72.4	0.097	1226	-90	16,559	32
33	NE	NEON	20.183	-248.7	-246.2	44.4	27.6	0.042	1204	-246	1842	33
34	O2	OXYGEN	31.999	-218.8	-183.0	154.6	50.5	0.073	1149	-183	6824	34
35	O2S	SULFUR DIOXIDE	64.063	-75.5	-10.2	430.8	78.8	0.122	1455	-10	24,932	35
36	O3	OZONE	47.998	-192.7	-111.9	261.0	55.7	0.089	1356	-112	11,179	36
37	O3S	SULFUR TRIOXIDE	80.058	16.8	44.8	491.0	82.1	0.130	1780	45	40,679	37
38	XE	XENON	131.300	-111.9	-108.2	289.7	58.4	0.118	3060	-108	13,013	38
39	CBRE3	TRIFLUOROBROMOMETHANE	148.910		-59.2	340.2	39.7	0.200				39
40	CCLF3	CHLOROTRIFLUOROMETHANE	104.459	-181.2	-81.5	302.0	39.2	0.180			15,516	40
41	CCL2F2	DICHLORODIFLUOROMETHANE	120.914	-157.8	-29.8	385.0	41.2	0.217	1750	-115	19,979	41
42	CCL2O	PHOSGENE	98.916	-128.2	7.6	455.0	56.7	0.190	1361	20	24,409	42
43	CCL3F	TRICHLOROFLUOROMETHANE	137.368	-111.2	23.8	471.2	44.1	0.248	1584	25	24,786	43
44	CCL4	CARBON TETRACHLORIDE	153.823	-23.2	76.5	556.4	45.6	0.276			30,019	44
45	CF4	CARBON TETRAFLUORIDE	88.005	-186.8	-128.0	227.6	37.4	0.140			11,974	45
46	CO	CARBON MONOXIDE	28.010	-205.1	-191.5	132.9	35.0	0.093	803	-192	6046	46
47	COS	CARBONYL SULPHIDE	60.070	-138.9	-50.3	375.0	58.8	0.140	1274	-99		47
48	CO2	CARBON DIOXIDE	44.010	-56.6	-78.5	304.2	73.8	0.094	777	20	17,166	48
49	CS2	CARBON DISULPHIDE	76.131	-111.9	46.2	552.0	79.0	0.170	1293	0	26,754	49
50	CHBR3	BROMOFORM	94.940	-178.3	3.5	464.0	66.1	0.162	1733	0	24,241	50

APPENDIX C PHYSICAL PROPERTY DATA BANK

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
1	107.57	58.76			20.804	- 3.211E-05	51.665E-09		15.2330	700.51	- 5.84	- 192	- 179	1
2														2
3														3
4	387.82	292.79			33.859	11.254E-03	- 1.192E-05	45.343E-10	15.8441	2582.32	- 51.56	- 14	81	4
5			52.63	66.99	34.097	44.715E-03	- 3.340E-05	10.149E-09	16.9505	2520.70	- 23.46	- 63	12	5
6	191.96	172.35			26.929	33.838E-03	- 3.869E-05	15.470E-09	15.9610	1978.32	- 27.01	- 101	- 9	6
7														7
8														8
9	19.67	8.38			30.250	- 6.406E-03	11.698E-06	- 3.684E-09	15.8019	2634.16	- 43.15	- 35	91	9
10	757.92	304.58	- 249.41	- 234.80	23.216	36.568E-03	- 3.462E-05	12.041E-09	15.6700	714.10	- 6.00	- 214	- 182	10
11	84.20	52.52							15.6107	1155.69	- 15.37	- 170	- 118	11
12			- 124.68	- 127.19										12
13														13
14	251.29	180.75	- 1221.71	- 1117.88					19.3785	2524.78	- 11.16	- 114	- 53	14
15	88.08	166.32	- 362.6	- 53.30	30.647	- 9.462E-03	- 17.224E-06	- 6.238E-09	14.4687	1242.53	- 47.86	- 89	- 52	15
16	372.78	277.74	- 92.36	- 95.33	30.291	- 7.201E-03	12.460E-06	- 3.898E-09	16.5040	1714.25	- 14.45	- 136	- 73	16
17	438.74	199.62	- 271.30	- 273.40	29.061	66.110E-05	- 2.032E-06	25.037E-10	17.6958	3404.49	15.06	- 67	40	17
18	155.15	285.43	26.38	1.59	31.158	- 1.428E-02	29.722E-06	- 1.353E-08	12.9149	957.96	- 85.06	- 58	- 17	18
19	13.82	5.39			27.143	92.738E-04	- 1.381E-05	76.451E-10	13.6333	164.90	3.19	- 259	- 248	19
20	658.25	283.16	- 242.00	- 228.77	32.243	19.238E-04	10.555E-06	- 3.596E-09	18.3036	3816.44	- 46.13	11	168	20
21	342.79	165.54	- 20.18	- 33.08	31.941	14.365E-04	24.321E-06	- 1.176E-08	16.1040	1768.69	- 26.06	- 83	- 43	21
22	349.02	169.63	- 45.72	- 16.16	27.315	23.831E-03	17.074E-06	- 1.185E-08	16.9481	2132.50	- 32.98	- 94	- 12	22
23			229.44		23.228	44.003E-03	13.029E-06	- 1.593E-08						23
24	524.98	290.88	95.25	158.64	9.768	18.945E-02	- 1.657E-04	60.248E-09	17.9899	3877.65	- 45.15	15	70	24
25			32.66	54.93	11.179	12.200E-02	- 5.548E-05	68.412E-10	16.3424	1629.99	5.35	- 111	- 179	25
26									12.2514	33.73	1.79	- 269	- 269	26
27	559.62	520.55			35.592	65.147E-04	- 6.988E-06	28.345E-10	16.1597	3709.23	- 68.16	110	214	27
28									15.2677	958.75	- 8.71	- 160	- 144	28
29			90.43	86.75	29.345	- 9.378E-04	97.469E-07	- 4.187E-09	20.1314	1572.52	- 4.88	- 178	- 133	29
30	406.20	230.21	33.87	52.00	24.233	48.358E-03	- 2.081E-05	29.308E-11	20.5324	4141.29	3.65	- 43	47	30
31	90.30	46.14			31.150	- 1.357E-02	26.796E-06	- 1.168E-08	14.9542	588.72	- 6.60	- 219	- 183	31
32			81.60	103.71	21.621	72.808E-03	- 5.778E-05	18.301E-09	16.1271	1506.49	25.99	- 129	- 73	32
33					20.786				14.0099	180.47	- 2.61	- 249	- 244	33
34	85.68	51.50			28.106	- 3.680E-06	17.459E-06	- 1.065E-08	15.4075	734.55	- 6.45	- 210	- 173	34
35	397.85	208.42	- 297.05	- 300.36	23.852	66.989E-03	- 4.961E-05	13.281E-09	16.7680	2302.35	- 35.97	- 78	7	35
36	313.79	120.34	142.77	162.91	20.545	80.093E-03	- 6.243E-05	16.973E-09	15.7217	1272.18	- 22.16	- 164	- 99	36
37	1372.80	315.99	- 395.53	- 370.62	16.370	14.591E-02	- 1.120E-04	32.423E-09	20.8403	3995.70	- 36.66	17	59	37
38									15.2958	1303.92	- 14.50	- 115	- 95	38
39			- 649.37	- 623.00										39
40			- 654.40	- 623.00										40
41	215.09	165.55	- 695.01	- 654.40	22.814	19.113E-02	- 1.576E-04	44.589E-09						41
42			- 481.48	- 442.54	31.598	17.823E-02	- 1.509E-04	43.417E-09						42
43			- 221.06	- 206.91	28.089	13.607E-02	- 1.374E-04	50.702E-09	15.7565	2167.31	- 43.15	- 60	68	43
44			- 284.70	- 245.51	40.985	16.308E-02	- 1.416E-04	41.462E-09	15.8516	2401.61	- 36.30	- 33	27	44
45	540.15	290.84	- 100.48	- 58.28	40.717	20.486E-02	- 2.270E-04	88.425E-09	15.8742	2808.19	- 45.99	- 20	101	44
46			- 933.66	- 889.03	13.980	20.256E-02	- 1.625E-04	45.134E-09	16.0543	1244.55	- 13.06	- 180	- 125	45
47	94.06	48.90	- 110.62	- 137.37	30.869	27.892E-02	- 1.272E-08	- 1.272E-08	14.3686	530.22	- 13.15	- 210	- 165	46
48			- 138.50	- 165.76	23.567	79.842E-03	- 7.017E-05	24.535E-09						47
49	578.08	185.24	- 393.77	- 394.65	19.795	73.456E-03	- 5.602E-05	17.153E-09	22.5898	3103.39	- 0.16	- 119	- 69	48
50	274.08	200.22	117.15	66.95	27.444	81.266E-03	- 7.666E-05	26.729E-09	15.9844	2690.85	- 31.62	- 45	69	49
			- 36.34						15.7078	3163.17	- 72.18	101	30	50

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
51	CHCLF2	CHLORODIFLUOROMETHANE	86.469	-160.2	-40.8	369.2	49.8	0.165	1230	16	20,205	51
52	CHCL2F	DICHLOROFUOROMETHANE	102.923	-135.2	8.8	451.6	51.7	0.197	1380	9	24,953	52
53	CHCL3	CHLOROFORM	119.378	-63.6	61.1	536.4	54.7	0.239	1489	20	29,726	53
54	CHN	HYDROGEN CYANIDE	27.026	-13.3	25.7	456.8	53.9	0.139	688	20	25,234	54
55	CH2BR2	DIBROMOMETHANE	173.835	-52.6	96.8	583.0	71.9	0.139	2500	20		55
56	CH2CL2	DICHLOROMETHANE	84.993	-95.1	39.8	510.0	60.8	0.193	1317	25	28,010	56
57	CH2O	FORMALDEHYDE	30.026	-117.2	-19.2	408.0	65.9		815	-20	23,027	57
58	CH2O2	FORMIC ACID	46.025	8.3	100.6	580.0			1226	15	21,939	58
59	CH3BR	METHYL BROMIDE	94.939	-93.7	3.5	464.0	86.1		1737	-5	23,928	59
60	CH3CL	METHYL CHLORIDE	50.488	-97.8	-24.3	416.3	66.8	0.139	915	20	21,436	60
61	CH3F	METHYL FLUORIDE	34.033	-141.8	-78.4	317.8	58.8	0.124	843	-60		61
62	CH3I	METHYL IODIDE	141.939	-66.5	42.4	528.0	65.9	0.170	2279	20	27,214	62
63	CH3NO2	NITROMETHANE	61.041	-28.6	101.2	588.0	63.1	0.173	1138	20	34,436	63
64	CH4	METHANE	16.043	-182.5	-161.5	190.6	46.0	0.099	425	-161	8,185	64
65	CH4O	METHANOL	32.042	-97.7	64.6	512.6	81.0	0.118	791	20	35,278	65
66	CH4S	METHYL MERCAPTAN	48.107	-123.2	5.9	470.0	72.3	0.145	866	20	24,577	66
67	CH5N	METHYL AMINE	31.058	-93.5	-6.4	430.0	74.6	0.140	703	-14	26,000	67
68	CH6N2	METHYL HYDRAZINE	46.072		90.8	567.0	80.4	0.271				68
69	CH6SI	METHYL SILANE	46.145	-156.5	-57.6	352.5						69
70	C2CLF5	CHLOROPENTAFLUOROETHANE	154.467	-106.2	-39.2	353.2	31.6	0.252			19,469	70
71	C2CL2F4	1,1-DICHLORO-1,2,2,2-TETRAFLUOROETHANE	170.992	-94.2	3.8	418.6	33.0	0.294	1455	25		71
72	C2CL2F4	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	170.922	-93.9	3.7	418.9	32.6	0.293	1480	4	23,279	72
73	C2CL3F3	1,2-DICHLORO-1,1,2,2-TETRAFLUOROETHANE	187.380	-35.0	47.5	487.2	34.1	0.304	1580	16	27,507	73
74	C2CL4	TETRACHLOROETHYLENE	165.834	-22.2	121.1	620.0	44.6	0.290	1620	20	34,750	74
75	C2CL4F2	1,1,2,2-TETRACHLORO-1,2-DIFLUOROETHANE	203.831	24.8	91.5	551.0			1645	25		75
76	C2F4	TETRAFLUOROETHYLENE	100.016	-142.5	-75.7	306.4	39.4	0.175	1519	-76		76
77	C2F6	HEXAFLUOROETHANE	138.012	-100.8	-78.3	292.8		0.224	1590	-78	16,161	77
78	C2N2	CYANOGEN	52.035	-27.9	-20.7	400.0	59.8					78
79	C2HCL3	TRICHLOROETHYLENE	131.389	-116.4	87.2	571.0	49.1	0.256	1462	20	31,401	79
80	C2HF3O2	TRIFLUOROACETIC ACID	114.024	-15.3	72.4	491.3	32.6		1535	0		80
81	C2H2	ACETYLENE	26.038	-80.8	-84.0	308.3	61.4	0.113	615	-84	16,957	81
82	C2H2F2	1,1-DIFLUOROETHYLENE	64.035			302.8	44.6	0.154				82
83	C2H2O	KETENE	42.038	-135.2	-41.2	380.0	64.8	0.145			20,641	83
84	C2H3CL	VINYL CHLORIDE	62.499	-153.8	-13.4	429.7	56.0	0.169	969	-14	20,641	84
85	C2H3CLF2	1-CHLORO-1,1-DIFLUOROETHANE	100.490	-131.2	-9.8	410.2	41.2	0.231	1100	30		85
86	C2H3CLO	ACETYL CHLORIDE	78.498	-113.0	50.7	508.0	58.8	0.204	1104	20	28,680	86
87	C2H3CL3	1,1,2-TRICHLOROETHANE	133.400	-36.7	113.7	602.0	41.5	0.294	1441	20	33,327	87
88	C2H3F	VINYL FLUORIDE	46.044	-143.2	-37.7	327.8	52.4	0.144				88
89	C2H3F3	1,1,1-TRIFLUOROETHANE	84.041	-111.3	-47.7	346.2	37.6	0.221			19,176	89
90	C2H3N	ACETONITRILE	41.053	-43.9	81.6	548.0	48.3	0.173	782	20	31,401	90
91	C2H3NO	METHYL ISOCYANATE	57.052		38.8	491.0	55.7		958	20	29,601	91
92	C2H4	ETHYLENE	28.054	-169.2	-103.8	282.4	50.4	0.129	577	-110	13,553	92
93	C2H4CL2	1,1-DICHLOROETHANE	98.960	-97.0	57.2	523.0	50.7	0.240	1168	25	28,721	93
94	C2H4CL2	1,2-DICHLOROETHANE	98.960	-35.7	83.4	561.0	53.7	0.220	1250	16	32,029	94
95	C2H4F2	1,1-DIFLUOROETHANE	66.051	-117.0	-24.8	386.6	45.0	0.181			21,553	95
96	C2H4O	ACETALDEHYDE	44.054	-123.0	20.4	461.0	55.7	0.154	778	20	25,749	96
97	C2H4O	ETHYLENE OXIDE	44.054	-112.2	10.3	469.0	71.9	0.140	899	0	25,623	97
98	C2H4O2	ACETIC ACID	60.052	16.6	117.9	594.4	57.9	0.171	1049	20	23,697	98
99	C2H4O2	METHYL FORMATE	60.052	-99.0	31.7	487.2	60.0	0.172	974	20	28,219	99
100	C2H5BR	ETHYL BROMIDE	108.966	-118.6	38.3	503.8	62.3	0.215	1451	25	26,502	100

APPENDIX C PHYSICAL PROPERTY DATA BANK

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
51			-502.00	-470.89	17,300	16.182E-02	-1.170E-04	30.585E-09	15.5602	1704.80	-41.30	-48	-33	51
52			-298.94	-268.37	23,664	15.814E-02	-1.200E-04	32.636E-09						52
53	394.81	246.50	-101.32	-68.58	24,003	18.933E-02	-1.841E-04	66.570E-09	15.9732	2696.79	-46.16	-13	97	53
54	194.70	145.31	130.63	120.20	21,863	60.623E-03	-4.961E-05	18.154E-09	16.5138	2585.80	-37.15	-39	57	54
55	428.91	294.57	-4.19	-5.61										55
56	359.55	225.13	-95.46	-68.91	12,954	16.232E-02	-1.302E-04	42.077E-09	16.3029	2622.44	-41.70	-44	59	56
57	319.83	171.35	-115.97	-109.99	23,475	31.568E-03	29.852E-06	-2.300E-08	16.4775	2204.13	-30.15	-88	-2	57
58	729.35	325.72	-378.86	-351.23	11,715	13.578E-02	-8.411E-05	20.168E-09	16.9882	3599.58	-26.09	-2	136	58
59	298.15	211.15	-37.68	-28.18	14,428	10.911E-02	-5.401E-05	95.836E-10	16.0252	2271.71	-34.83	-58	53	59
60	426.45	193.56	-86.37	-62.93	13,875	10.140E-02	-3.889E-05	25.665E-10	16.1052	2077.97	-29.55	-93	-7	60
61			-234.04	-210.14	13,825	86.164E-03	-2.071E-05	-1.985E-09	16.3428	1704.41	-19.27	-132	-64	61
62	336.19	229.95	13.98	15.66	10,806	13.892E-02	-1.041E-04	34.855E-09	16.0905	2629.55	-36.50	-13	52	62
63	452.80	261.21	-74.78	-6.95	7,423	19.778E-02	-1.081E-04	20.850E-09	16.2193	2972.64	-64.15	5	136	63
64	114.14	57.60	-74.86	-50.87	19,251	52.126E-03	11.974E-06	-1.132E-08	15.2243	597.84	-7.16	-180	-153	64
65	555.30	260.64	-201.30	-162.62	21,152	70.924E-03	25.870E-06	-2.852E-08	18.5875	3626.55	-34.29	-16	91	65
66			-22.99	-9.92	13,268	14.566E-02	-8.545E-05	20.750E-09	16.1909	2338.38	-34.44	-73	27	66
67	311.80	176.30	-23.03	32.28	11,476	14.273E-02	-5.334E-05	47.520E-10	17.2622	2484.83	-32.92	-61	38	67
68			85.41	177.98					15.1424	2319.84	-91.70	-3	127	68
69														69
70					27,834	34.918E-02	-2.891E-04	81.391E-09	15.7343	1848.90	-30.88	-98	-43	70
71					40,453	32.783E-02	-2.752E-04	78.209E-09						71
72			-898.49		38,778	34.399E-02	-2.950E-04	85.076E-09						72
73			-745.67		61,140	28.742E-02	-2.420E-04	89.040E-09	15.8424	2532.61	-45.67	-23	87	73
74	392.58	281.82	-12.14	22.61	45,971	22.554E-02	-2.294E-04	83.820E-09	16.1642	3259.29	-52.15	34	187	74
75														75
76			-659.00	-624.13	29,010	22.772E-02	-2.037E-04	67.784E-09	15.8800	1574.60	-27.22	-133	-63	76
77			-1343.96	-1258.22	26,816	34.579E-02	-2.869E-04	81.350E-09	15.6422	1512.94	-26.94	-103	-73	77
78			309.15	297.39	35,935	92.528E-03	-8.223E-05	29.496E-09						78
79	145.67	196.60	-5.86	19.89	30,174	22.868E-02	-2.229E-04	82.438E-09	16.1827	3028.13	-43.15	-13	127	79
80														80
81			226.88	209.34	26,821	75.781E-03	-5.007E-05	14.122E-09	16.3481	1637.14	-19.77	-79	-71	81
82			-345.41	-321.71	3,073	24.447E-02	-2.099E-04	70.213E-09						82
83			-61.13	-60.33	6,385	16.383E-02	-1.084E-04	26.984E-09	16.0197	1849.21	-35.15	-103	-18	83
84	276.90	167.04	35.17	51.54	5,949	20.193E-02	-1.536E-04	47.730E-09	14.9601	1803.84	-43.15	-88	17	84
85					16,818	27.566E-02	-1.992E-04	53.047E-09						85
86			-244.09	-206.37	25,020	17.107E-02	-9.856E-05	22.190E-09	15.7514	2447.33	-55.53	-36	82	86
87	346.72	304.43	-138.58	-77.54	6,322	34.307E-02	-2.958E-04	97.929E-09	16.0381	3110.79	-56.16	29	155	87
88														88
89			-746.09	-679.22	5,744	31.409E-02	-2.597E-04	84.155E-09	15.8965	1814.91	-29.92	-3	27	89
90	334.91	210.05	87.92	105.67	20,482	10.831E-02	-4.492E-05	32.029E-10	16.2874	2945.47	-49.15	-13	117	90
91	616.78	227.47	-90.02		35,764	10.396E-02	-5.820E-06	-1.687E-08	16.3258	2480.37	-56.31	-43	67	91
92	168.98	93.94	52.33	68.16	3,806	15.659E-02	-8.348E-05	17.551E-09	15.5368	1347.01	-18.15	-153	91	92
93	412.27	239.10	-130.00	-73.14	12,472	26.959E-02	-2.050E-04	63.011E-09	16.0842	2997.29	-45.03	-31	79	93
94	473.95	277.98	-129.79	-73.90	20,486	23.103E-02	-1.438E-04	33.888E-09	16.1764	2627.17	-50.22	-33	100	94
95	319.27	186.56	-494.04	-436.52	8,675	23.957E-02	-1.457E-04	33.942E-09	16.1871	2095.35	-29.16	-35	0	95
96	368.70	194.82	-166.47	-133.39	7,716	18.223E-02	-1.007E-04	23.802E-09	16.2418	2465.15	-37.15	-63	47	96
97	341.88	194.22	-52.67	-13.10	-7,519	22.224E-02	-1.256E-04	25.916E-09	16.7400	3607.61	-29.01	-73	37	97
98	600.94	306.21	-435.13	-376.94	4,840	25.485E-02	-1.753E-04	49.488E-09	16.8080	2465.57	-56.34	17	157	98
99	363.19	212.70	-350.02	-297.39	1,432	27.001E-02	-1.949E-04	57.024E-09	16.5104	2590.87	-42.60	-48	51	99
100	369.80	220.68	-64.06	-26.33	6,657	23.480E-02	-1.472E-04	38.041E-09	15.9338	2511.68	-41.44	-47	60	100

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	IDEN	TDEN	HVAP	NO
101	C2H5CL	ETHYL CHLORIDE	64.515	-136.4	12.2	460.4	52.7	0.199	896	20	24,702	101
102	C2H5F	ETHYL FLUORIDE	48.060	-143.3	-37.8	375.3	50.3	0.169				102
103	C2H5N	ETHYLENE IMIDE	43.069	-78.2	56.6				833	25	32,071	103
104	C2H5NO2	NITROETHANE	75.068	-89.2	114.0	595.0	48.5	0.228	1047	20	35,994	104
105	C2H6	ETHANE	30.070	-183.3	-88.7	305.4	48.8	0.148	548	-90	14,717	105
106	C2H6O	DIMETHYL ETHER	46.069	-141.5	-24.9	400.0	53.7	0.178	667	20	21,520	106
107	C2H6O	ETHANOL	46.069	-114.1	78.3	516.2	63.8	0.167	789	20	38,770	107
108	C2H6O2	ETHYLENE GLYCOL	62.066	-13.0	197.2	645.0	77.0	0.186	1114	20	52,544	108
109	C2H6S	ETHYL MERCAPTAN	62.134	-147.9	35.0	499.0	54.9	0.207	839	20	26,796	109
110	C2H6S	DIMETHYL SULPHIDE	62.130	-98.3	37.3	503.0	55.3	0.201	848	20	26,963	110
111	C2H7N	ETHYL AMINE	45.085	-81.2	16.5	456.0	56.2	0.178	683	20	28,052	111
112	C2H7N	DIMETHYL AMIDE	45.085	-92.2	6.8	437.6	53.1	0.187	656	20	26,502	112
113	C2H7NO	MONOETHANOLAMINE	61.084	10.3	170.3	614.0	44.6	0.196	1016	20	50,242	113
114	C2H8N2	ETHYLENEDIAMINE	60.099	10.8	117.2	593.0	62.8	0.206	896	20	41,868	114
115	C3H3N	ACRYLONITRILE	53.064	-83.7	77.3	536.0	35.5	0.210	806	20	32,657	115
116	C3H4	PROPADIENE	40.065	-136.3	-34.5	393.0	54.7	0.162	658	-35	18,631	116
117	C3H4	METHYL ACETYLENE	40.065	-102.7	-23.2	402.4	56.2	0.164	706	-50	22,148	117
118	C3H4O	ACROLEIN	56.064	-87.2	52.8	506.0	51.7		839	20	28,345	118
119	C3H4O2	ACRYLIC ACID	72.064	11.8	140.8	615.0	56.7	0.210	1051	20	46,055	119
120	C3H4O2	VINYL FORMATE	72.064	-57.7	46.4	475.0	57.8	0.210	963	20	32,155	120
121	C3H5CL	ALLYL CHLORIDE	76.526	-134.5	45.1	514.0	47.6	0.234	937	20	27,110	121
122	C3H5CL3	1,2,3-TRICHLOROPROPANE	147.432	-14.7	155.8	651.0	39.5	0.348	1389	20	38,435	122
123	C3H5N	PROPIONITRILE	55.080	-92.7	97.3	564.4	41.8	0.230	782	20	32,280	123
124	C3H6	CYCLOPROPANE	42.081	-127.5	-32.8	397.8	54.9	0.170	563	15	20,055	124
125	C3H6	PROPYLENE	42.081	-185.3	-47.8	365.0	46.2	0.181	612	-50	18,422	125
126	C3H6CL2	1,2-DICHLOROPROPANE	112.987	-100.5	96.3	577.0	44.6	0.226	1150	20	31,401	126
127	C3H6O	ACETONE	58.080	-95.0	56.2	508.1	47.0	0.209	790	20	29,140	127
128	C3H6O	ALLYL ALCOHOL	58.080	-129.2	96.8	545.0	57.1	0.203	855	15	39,984	128
129	C3H6O	PROPIONALDEHYDE	58.080	-80.2	47.8	496.0	47.6	0.223	797	20	28,303	129
130	C3H6O	PROPYLENE OXIDE	58.080	-112.2	34.3	482.2	49.2	0.186	829	20	27,005	130
131	C3H6O	VINYL METHYL ETHER	58.080	-121.7	4.8	436.0	47.6	0.205	750	20	19,050	131
132	C3H6O2	PROPIONIC ACID	74.080	-20.7	140.8	612.0	53.7	0.230	993	20	32,238	132
133	C3H6O2	ETHYL FORMATE	74.080	-79.4	54.2	508.4	47.4	0.229	927	16	30,145	133
134	C3H6O2	METHYL ACETATE	74.080	-98.2	56.9	506.8	46.9	0.228	934	20	30,145	134
135	C3H7CL	PROPYL CHLORIDE	78.542	-122.8	46.4	503.0	45.8	0.254	891	20	27,256	135
136	C3H7CL	ISOPROPYL CHLORIDE	78.452	-117.2	35.7	485.0	47.2	0.230	862	20	26,293	136
137	C3H8	PROPANE	44.097	-187.7	-42.1	369.8	42.5	0.203	582	-42	18,786	137
138	C3H8O	N-PROPYL ALCOHOL	60.096	-126.3	97.2	536.7	51.7	0.219	804	20	41,784	138
139	C3H8O	ISOPROPYL ALCOHOL	60.096	-88.5	82.2	508.3	47.6	0.220	786	20	39,858	139
140	C3H8O	METHYL ETHYL ETHER	60.096	-139.2	7.3	437.8	44.0	0.221	800	20	24,702	140
141	C3H8O2	METHYLAL	76.096	-105.2	41.8	497.0			888	18		141
142	C3H8O2	1,2-PROPANEDIOL	76.096	-60.2	187.3	625.0	60.8	0.237	1036	20	54,177	142
143	C3H8O2	1,3-PROPANEDIOL	76.096	-26.8	214.4	658.0	59.8	0.241	1053	20	56,522	143
144	C3H8O3	GLYCEROL	92.095	17.8	289.8	726.0	66.9	0.255	1261	20	61,127	144
145	C3H8S	METHYL ETHYL SULPHIDE	76.157	-106.0	66.6	533.0	42.6		837	20	29,517	145
146	C3H9N	N-PROPYL AMINE	59.112	-83.2	48.6	497.0	47.4	0.233	717	20	29,726	146
147	C3H9N	ISOPROPYL AMINE	59.112	-95.3	32.4	476.0	50.7	0.229	688	20	27,214	147
148	C3H9N	TRIMETHYL AMINE	59.112	-117.2	2.9	433.2	40.7	0.254	633	20	24,116	148
149	C4H2O3	MALEIC ANHYDRIDE	98.058	52.8	199.6				1310	60		149
150	C4H4	VINYL ACETYLENE	52.076	-45.6	4.9	455.0	49.6	0.202	710	0	24,493	150

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
151	C4H4O	FURAN	68.075	-85.7	31.3	490.2	55.0	0.218	938	20	27,105	151
152	C4H4S	THIOPHENE	84.136	-38.3	84.1	579.4	56.9	0.219	1071	16	31,485	152
153	C4H5CL	CHLOROPRENE	88.537	-60.0	59.4	511.2	42.5	0.266	958	20	29,658	153
154	C4H5CL	CHLOROBUTADIENE	88.537	-60.0	67.8	527.2	39.5	0.265	963	20	29,038	154
155	C4H5N	ALLYL CYANIDE	67.091	-86.5	118.8	585.0	39.5	0.265	835	20	34,332	155
156	C4H5N	PYRROLE	67.091	-86.5	129.8	640.0	39.5	0.265	967	21	34,332	156
157	C4H6	ETHYLACETYLENE	54.092	-125.8	8.0	463.7	47.1	0.220	650	16	24,995	157
158	C4H6	DIMETHYL ACETYLENE	54.092	-32.3	27.0	488.6	50.9	0.221	691	20	26,670	158
159	C4H6	1,2-BUTADIENE	54.092	-136.2	10.8	443.7	45.0	0.219	652	20	24,283	159
160	C4H6	1,3-BUTADIENE	54.092	-108.9	10.8	425.0	43.3	0.221	621	20	22,483	160
161	C4H6O2	VINYL ACETATE	86.091	-100.2	72.8	525.0	43.6	0.265	932	20	41,240	161
162	C4H6O3	ACETIC ANHYDRIDE	102.089	-74.2	138.8	569.0	46.8	0.290	1087	20	41,240	162
163	C4H6O4	DIMETHYL OXALATE	118.090	53.8	163.4	628.0	39.8	0.282	1150	15	163	163
164	C4H6O4	SUCCINIC ACID	118.090	182.8	234.8	628.0	39.8	0.282	1150	15	163	164
165	C4H7N	BUTYRONITRILE	69.107	-112.2	117.2	582.0	37.9	0.285	792	20	34,415	165
166	C4H7O2	METHYL ACRYLATE	86.091	-76.5	80.3	536.0	42.6	0.265	956	20	32,029	166
167	C4H8	1-BUTENE	56.108	-185.4	-6.3	419.6	37.2	0.240	595	20	21,930	167
168	C4H8	CIS-2-BUTENE	56.108	-138.9	3.7	435.6	42.0	0.234	621	20	23,362	168
169	C4H8	TRANS-2-BUTENE	56.108	-105.6	0.8	428.6	41.0	0.238	604	20	22,772	169
170	C4H8	CYCLOBUTANE	56.108	-90.8	12.5	459.9	49.9	0.210	694	20	24,200	170
171	C4H8	ISOBUTYLENE	56.108	-140.4	-6.9	417.9	40.0	0.239	594	20	22,131	171
172	C4H8O	N-BUTYRALDEHYDE	72.107	-96.4	74.8	524.0	40.5	0.278	802	20	31,527	172
173	C4H8O	ISOBUTYRALDEHYDE	72.107	-65.0	63.8	513.0	41.5	0.274	789	20	31,401	173
174	C4H8O	MERTYL ETHYL KETONE	72.107	-86.7	79.6	535.6	41.5	0.267	805	20	31,234	174
175	C4H8O	TETRAHYDROFURAN	72.107	-108.5	65.9	540.2	51.9	0.224	889	20	29,601	175
176	C4H8O	VINYL ETHYL ETHER	72.107	-115.3	35.6	475.0	40.7	0.260	793	20	26,502	176
177	C4H8O2	N-BUTYRIC ACID	88.107	-5.3	163.2	628.0	52.7	0.292	958	20	42,035	177
178	C4H8O2	1,4-DIOXANE	88.107	11.8	101.3	587.0	52.1	0.238	1033	20	36,383	178
179	C4H8O2	ETHYL ACETATE	88.107	-83.6	77.1	523.2	38.3	0.286	901	20	32,238	179
180	C4H8O2	ISOBUTYRIC ACID	88.107	-46.0	154.7	609.0	40.5	0.292	968	20	41,156	180
181	C4H8O2	METHYL PROPIONATE	88.107	-87.5	79.8	530.6	40.0	0.282	915	20	32,573	181
182	C4H8O2	N-PROPYL FORMATE	88.107	-92.9	80.5	538.0	40.6	0.285	911	16	32,490	182
183	C4H9CL	1-CHLOROBUTANE	92.569	-123.1	78.4	542.0	36.9	0.312	886	20	30,019	183
184	C4H9CL	2-CHLOROBUTANE	92.569	-131.4	68.2	520.6	39.5	0.305	873	20	29,224	184
185	C4H9CL	2-CHLORO-2-METHYL PROPANE	92.569	-25.4	50.8	507.0	39.5	0.295	842	20	27,424	185
186	C4H9N	PYRROLIDINE	71.123	-85.2	86.5	568.6	56.1	0.249	852	22	27,424	186
187	C4H9NO	MORPHOLINE	87.122	-4.8	128.2	618.0	54.7	0.253	1000	20	37,681	187
188	C4H10	N-BUTANE	58.124	-138.4	-0.5	425.2	38.0	0.255	579	20	22,408	188
189	C4H10	ISOBUTANE	58.124	-159.6	-11.9	408.1	36.5	0.263	557	20	21,311	189
190	C4H10O	N-BUTANOL	74.123	-89.3	117.7	562.9	44.2	0.274	810	20	43,124	190
191	C4H10O	2-BUTANOL	74.123	-114.7	99.5	536.0	41.9	0.268	807	20	40,821	191
192	C4H10O	ISOBUTANOL	74.123	-108.0	107.8	547.7	43.0	0.273	802	20	42,077	192
193	C4H10O	2-METHYL-2-PROPANOL	74.123	25.6	82.4	506.2	39.7	0.275	787	20	39,063	193
194	C4H10O	ETHYL ETHER	74.123	-116.3	34.5	466.7	36.4	0.280	713	20	26,712	194
195	C4H10O2	1,2-DIMETHOXYETHANE	90.123	-71.2	85.4	536.0	38.7	0.271	867	20	31,443	195
196	C4H10O3	DIETHYLENE GLYCOL	106.122	-8.2	245.8	681.0	46.6	0.316	1116	20	57,234	196
197	C4H10S	DIMETHYL SULPHIDE	90.184	-104.0	92.1	557.0	39.6	0.318	998	20	37,778	197
198	C4H10S2	DIETHYL DISULPHIDE	122.244	-101.5	154.0	642.0	41.5	0.288	739	20	37,723	198
199	C4H11N	N-BUTYL AMINE	73.139	-49.1	77.4	524.0	42.6	0.284	739	20	32,113	199
200	C4H11N	ISOBUTYL AMINE	73.139	-85.2	67.4	516.0	42.6	0.284	739	20	30,982	200

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
151	389.40	222.70	-34.71	0.88	-35.529	43.208E-02	-3.455E-04	10.743E-08	16.0612	244.70	-45.41	-35	90	151
152	498.60	264.90	115.81	126.86	-30.606	44.799E-02	-3.772E-04	12.527E-08	16.0243	2869.07	-51.80	-13	107	152
153			65.86						14.4844	1938.59	-85.36	27	84	153
154			79.97											154
155	521.30	252.03			21.700	25.715E-02	-1.192E-04	12.292E-09	16.0019	3128.75	-58.15	127	157	155
156			108.35						16.7966	3457.47	-62.73	57	167	156
157			165.29						16.0605	2271.42	-40.30	-73	27	157
158			146.41		12.548	27.436E-02	-1.545E-04	34.499E-09	16.0605	2271.42	-40.30	-73	27	158
159			162.32		15.927	23.815E-02	-1.070E-04	17.534E-09	16.2821	2536.78	-37.34	-33	47	159
160	300.59	163.12	110.24	150.77	-1.687	34.185E-02	-2.340E-04	30.890E-09	16.1039	2397.26	-30.88	-28	32	160
161	457.89	235.35	-316.10		15.160	27.951E-02	-8.805E-05	-1.660E-08	16.1003	2744.68	-56.15	-18	106	161
162	502.33	286.04	-576.10	-477.00	-23.128	50.870E-02	-3.580E-04	98.348E-09	16.3982	3287.56	-75.11	35	164	162
163														163
164	0.00		34.08	108.73	15.211	15.072E+00	46.892E-03	-3.143E-04	16.2092	3202.21	-56.16	34	160	164
165	438.04	256.84			15.165	32.058E-02	-1.638E-04	29.823E-09	16.1088	2788.43	-59.15	-13	117	165
166	451.02	245.30			-2.994	35.320E-02	-8.805E-05	-1.660E-08	16.1088	2788.43	-59.15	-13	117	166
167	256.30	151.86	-0.13	71.34	-2.994	35.320E-02	-1.982E-04	44.631E-09	15.7564	2132.42	-33.15	-83	22	167
168	268.94	155.34	-6.99	65.90	0.440	29.534E-02	-1.018E-04	-6.155E-10	15.8171	2210.71	-36.15	-73	32	168
169	259.01	153.30	-11.18	63.01	18.317	25.636E-02	-7.013E-05	-8.989E-09	15.8177	2212.32	-33.15	-73	27	169
170			26.67	110.11	-50.254	50.242E-02	-3.558E-04	10.471E-08	15.9254	2359.09	-31.78	-73	17	170
171			-16.91	58.11	16.052	28.043E-02	-1.091E-04	90.979E-10	15.7528	2125.75	-33.15	-83	17	171
172	472.31	233.42	-205.15	-114.84	14.080	34.570E-02	-1.723E-04	28.872E-09	16.1668	2839.09	-50.15	-18	107	172
173	464.06	253.64	-215.87	-121.42	24.463	33.552E-02	-2.057E-04	63.681E-09	15.9888	2676.98	-51.15	-26	103	173
174	423.84	231.67	-238.52	-10.944	10.944	35.529E-02	-1.900E-04	39.197E-09	15.9888	2676.98	-51.15	-26	103	174
175	419.79	244.46	-184.34		-19.104	51.623E-02	-4.132E-04	14.541E-08	16.1069	2768.38	-46.90	-3	97	175
176	349.95	189.02	-140.26	176	17.279	32.360E-02	-1.471E-04	21.495E-09	15.8911	2449.26	-44.15	-48	67	176
177	640.42	321.13	-476.16	-177	11.740	41.370E-02	-2.430E-04	55.308E-09	17.9240	4130.93	-70.55	62	197	177
178	600.36	308.77	-315.27	-180.91	-53.574	59.871E-02	-4.085E-04	10.622E-08	16.1327	2966.88	-62.15	2	137	178
179	427.38	235.98	-443.21	-327.62	7.235	40.717E-02	-2.092E-04	28.546E-09	16.1516	2790.50	-57.15	-13	112	179
180	588.65	311.24	-484.25		9.814	46.683E-02	-3.720E-04	13.502E-08	16.7792	3385.49	-94.15	57	192	180
181	442.88	238.39			18.204	31.397E-02	-9.353E-05	-1.828E-08	16.1693	2804.06	-58.92	-13	112	181
182	452.97	246.09							15.7671	2593.95	-69.69	7	87	182
183	483.72	260.03	-147.38	-38.81	-2.613	44.966E-02	-2.937E-04	80.805E-09	15.9750	2826.26	-49.05	-18	112	183
184	480.77	237.30	-161.61	-53.51	-3.433	45.594E-02	-2.981E-04	82.564E-09	15.9907	2753.43	-47.15	-23	102	184
185	543.41	253.35	-183.38	-64.14	-3.931	46.515E-02	-2.886E-04	78.712E-09	15.8121	2567.15	-44.15	-38	87	185
186			-3.60	114.76	-51.531	53.382E-02	-3.240E-04	75.279E-09	15.9444	2717.03	-67.90	27	127	186
187	914.14	332.75			-42.802	53.884E-02	-2.666E-04	41.994E-09	16.2364	3171.35	-71.15	27	167	187
188	263.84	160.20	-126.23	-17.17	9.487	33.130E-02	-1.108E-04	-2.822E-09	15.6782	2154.90	-34.42	-78	17	188
189	302.51	170.20	-134.61	20.89	-1.390	38.473E-02	-1.846E-04	28.952E-09	15.5381	2032.73	-33.15	-86	7	189
190	984.54	341.12	-274.86	-150.89	3.266	41.801E-02	-2.242E-04	46.850E-09	17.2160	3137.02	-94.43	15	131	190
191	1441.70	331.50	-292.82	-167.72	5.753	42.454E-02	-2.328E-04	47.730E-09	17.2102	3026.03	-86.65	25	120	191
192	1199.10	343.85	-283.40	-167.43	-7.708	46.892E-02	-2.884E-04	72.306E-09	16.8712	2874.73	-100.30	20	115	192
193	972.10	363.38	-312.63	-177.77	-48.613	33.578E-02	-7.084E-04	29.199E-08	16.8548	2658.29	-95.50	20	103	193
194	353.14	190.58	-252.38	-122.42	21.424	71.720E-02	-1.035E-04	-9.357E-09	16.0828	2511.29	-41.95	-48	67	194
195					32.234	35.672E-02	-1.336E-04	83.987E-10	16.0241	2869.79	-53.15	-11	120	195
196	1943.00	385.24	-571.50	-196	73.060	34.441E-02	-1.468E-04	18.464E-09	17.0326	4122.52	-122.50	129	287	196
197	407.59	233.32	-83.53	17.79	13.595	39.595E-02	-1.780E-04	26.490E-09	15.9531	2896.27	-54.49	-13	117	197
198			-74.69	22.27	26.896	46.013E-02	-2.710E-04	59.704E-09	16.0607	3421.57	-64.19	39	182	198
199	472.06	243.98	-92.11	49.24	5.079	44.757E-02	-2.407E-04	75.990E-09	16.6085	3012.70	-48.96	-14	100	199
200					9.491	44.296E-02	-2.110E-04	23.329E-09	16.1419	2704.16	-56.15	-22	100	200

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	L DEN	T DEN	HVAP	NO
201	C4H11N	DIETHYL AMINE	73.139	-49.8	55.4	496.6	37.1	0.301	707	20	27,842	201
202	C4H12SI	TETRAMETHYLSILANE	88.225	-102.2	27.6	448.6	28.2	0.362	646	20	24,685	202
203	C5H4O2	FURFURAL	96.085	-31.0	161.7	657.1	49.2	0.270	115.6	25		203
204	C5H5N	PYRIDINE	79.102	-41.7	115.3	620.0	56.3	0.254	98.3	20	35,169	204
205	C5H8	CYCLOPENTENE	68.119	-135.1	44.2	506.0			772	20	27,005	205
206	C5H8	1,2-PENTADIENE	68.119	-137.3	44.8	503.0	40.7	0.276	693	20	27,591	206
207	C5H8	1-TRANS-3-PENTADIENE	68.119	-87.5	42.0	496.0	39.9	0.275	676	20	27,047	207
208	C5H8	1,4-PENTADIENE	68.119	-148.3	25.9	478.0	37.9	0.276	661	20	25,163	208
209	C5H8	1-PENTYNE	68.119	-105.7	40.1	493.4	40.5	0.278	690	20		209
210	C5H8	2-METHYL-1,3-BUTADIENE	68.119	-146.0	34.0	484.0	38.5	0.276	681	20	26,084	210
211	C5H8	3-METHYL-1,2-BUTADIENE	68.119	-113.7	40.8	496.0	41.1	0.267	686	20	27,256	211
212	C5H8O	CYCLOPENTONE	84.118	-50.7	130.7	626.0	53.7	0.268	950	20	33,285	212
213	C5H8O2	ETHYL ACRYLATE	100.118	-72.2	99.8	552.0	37.5	0.320	921	20		213
214	C5H10	CYCLOPENTANE	70.135	-93.9	49.2	511.6	45.1	0.260	745	20	27,315	214
215	C5H10	1-PENTENE	70.135	-165.3	29.9	464.7	40.5	0.300	640	20	25,213	215
216	C5H10	CIS-2-PENTENE	70.135	-151.4	36.9	476.0	36.5	0.300	656	20	26,126	216
217	C5H10	TRANS-2-PENTENE	70.135	-140.3	36.3	475.0	36.6	0.300	649	20	26,084	217
218	C5H10	2-METHYL-1-BUTENE	70.135	-137.6	31.1	465.0	34.5	0.294	650	20	25,514	218
219	C5H10	2-METHYL-2-BUTENE	70.135	-133.8	38.5	470.0	34.5	0.318	662	20	26,322	219
220	C5H10	3-METHYL-1-BUTENE	70.135	-168.5	20.1	450.0	35.2	0.300	627	20	24,116	220
221	C5H10O	VALERALDEHYDE	86.134	-91.2	102.8	554.0	35.5	0.333	810	20	33,662	221
222	C5H10O	METHYL-N-PROPYL KETONE	86.134	-77.2	102.3	564.0	38.9	0.301	806	20	33,494	222
223	C5H10O	METHYL ISOPROPYL KETONE	86.134	-92.2	94.2	553.4	38.5	0.310	803	20	30,647	223
224	C5H10O	DIETHYL KETONE	86.134	-39.0	101.9	561.0	37.4	0.336	814	20	33,746	224
225	C5H10O2	N-VALERIC ACID	102.134	-34.2	185.5	651.0	38.5	0.340	939	20	49,823	225
226	C5H10O2	ISOBUTYL FORMATE	102.134	-95.2	98.4	551.0	38.8	0.350	885	20	34,206	226
227	C5H10O2	N-PROPYL ACETATE	102.134	-95.2	101.6	549.4	33.3	0.345	887	20	34,206	227
228	C5H10O2	ETHYL PROPIONATE	102.134	-73.9	98.8	546.0	33.6	0.345	895	16	34,248	228
229	C5H10O2	METHYL BUTYRATE	102.134	-84.8	102.6	554.4	34.8	0.340	898	20	34,101	229
230	C5H10O2	METHYL ISOBUTYRATE	102.134	-87.8	92.2	540.8	34.3	0.339	891	20	33,386	230
231	C5H11N	PIPERIDINE	85.150	-10.5	106.5	594.0	47.6	0.289	862	20	34,248	231
232	C5H12	N-PENTANE	72.151	-129.8	36.0	469.6	33.7	0.304	626	20	25,791	232
233	C5H12	2-METHYL BUTANE	72.151	-159.3	27.8	460.4	33.8	0.306	620	20	24,702	233
234	C5H12	2,2-DIMETHYL PROPANE	72.151	-16.6	9.4	433.8	32.0	0.303	591	20	22,768	234
235	C5H12O	1-PENTANOL	88.150	-78.2	137.8	586.0	38.5	0.326	815	20	44,380	235
236	C5H12O	2-METHYL-1-BUTANOL	88.150	-70.2	128.7	571.0	38.5	0.322	819	20	45,217	236
237	C5H12O	3-METHYL-1-BUTANOL	88.150	-117.2	131.2	579.5	38.5	0.329	810	20	44,129	237
238	C5H12O	2-METHYL-2-BUTANOL	88.150	-8.8	102.0	545.0	39.5	0.319	809	20	40,612	238
239	C5H12O	2,2-DIMETHYL-1-PROPANOL	88.150	53.8	113.1	549.0	39.5	0.319	783	54	43,124	239
240	C5H12O	ETHYL PROPYL ETHER	88.150	-126.8	63.6	500.6	32.5	0.319	733	20	30,522	240
241	C5H12O	METHYL-T-BUTYL ETHER	88.150	-108.2	55.1	407.1	34.3	0.339	741	20		241
242	C5H12O	BUTYL METHYL ETHER	88.150	-115.5	70.1	512.8	34.3	0.329	733	20	27,646	242
243	C6F6	PERFLUOROBENZENE	186.056		80.2	516.7	33.0					243
244	C6F12	PERFLUOROCYCLOHEXANE	300.047		52.5	457.2	24.3					244
245	C6F14	PERFLUORO-N-HEXANE	338.044	-87.2	57.1	451.7	19.0	0.442				245
246	C6H3Cl3	1,2,4-TRICHLOROBENZENE	181.449	16.8	213.0	734.9	39.8	0.401				246
247	C6H4Cl2	O-DICHLOROBENZENE	147.004	-17.1	180.4	697.3	41.0	0.360	1306	20	39,691	247
248	C6H4Cl2	M-DICHLOROBENZENE	147.004	-24.8	172.8	684.0	38.5	0.359	1288	20	38,644	248
249	C6H4Cl2	P-DICHLOROBENZENE	147.004	53.1	174.1	685.0	39.5	0.372	1248	55	38,812	249
250	C6H5BR	BROMOBENZENE	157.010	-30.9	156.0	670.0	45.2	0.324	1495	20		250

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
201	473.89	229.29	-72.43	72.14	2.039	44.296E-02	-2.183E-04	36.530E-09	16.0545	2595.01	-53.15	-31	77	201
202			-232.41						16.0999	2570.24	-28.73	77	-84	202
203					18.196	28.198E-02	-6.523E-05	-5.476E-08	18.7949	5365.88	5.40	77	277	203
204	618.50	291.58	140.26	190.33	39.791	49.279E-02	-3.538E-04	10.044E-08	16.0910	3095.13	-61.15	12	152	204
205	396.83	218.66	32.95	110.66	-41.512	46.306E-02	-2.579E-04	54.345E-09	15.9356	2583.07	-39.70	-29	105	205
206			145.70	210.55	8.826	38.799E-02	-2.280E-04	52.461E-09	15.9297	2544.34	-44.30	-23	67	206
207			77.87	146.83	30.689	28.110E-02	-6.711E-05	-2.352E-08	15.9182	2541.69	-41.43	-23	67	207
208			105.51	170.36	6.996	39.515E-02	-2.374E-04	55.978E-09	15.7392	2344.02	-41.69	-33	47	208
209			144.44	210.39	18.066	35.035E-02	-1.913E-04	40.976E-09	16.0429	2515.62	-45.97	-43	62	209
210			75.78	145.95	-34.122	45.845E-02	-3.337E-04	10.002E-08	15.8548	2467.40	-39.64	-23	57	210
211			129.79	198.75	14.687	35.977E-02	-1.976E-04	42.622E-09	15.9880	2541.83	-42.26	-23	62	211
212			-192.76		-40.641	52.251E-02	-3.035E-04	71.301E-09	16.0897	3193.92	-66.15	27	167	212
213					16.810	36.898E-01	-1.382E-04	-5.732E-09	16.0890	2974.94	-58.15	1	136	213
214			-77.29	38.64	-53.625	54.261E-02	-3.031E-04	64.854E-09	15.8574	2588.48	-41.79	-43	72	214
215			-20.93	79.17	-0.134	43.292E-02	-2.317E-04	46.808E-09	15.7646	2405.96	-39.63	-53	52	215
216			-28.09	71.89	-13.151	46.013E-02	-2.541E-04	54.554E-09	15.8251	2459.05	-42.56	-53	57	216
217			-31.78	69.96	1.947	41.818E-02	-2.178E-04	44.045E-09	15.9011	2495.97	-40.18	-53	57	217
218			-36.34	65.65	10.572	39.971E-02	-1.946E-04	33.139E-09	15.8260	2426.42	-40.36	-53	52	218
219			-42.58	59.70	11.803	35.090E-02	-1.117E-04	-5.807E-09	15.9238	2521.53	-40.31	-47	62	219
220			-28.97	74.82	21.742	38.895E-02	-2.007E-04	40.105E-09	15.7179	2333.61	-36.33	-63	42	220
221			-227.97	-108.35	14.239	43.292E-02	-2.107E-04	31.623E-09	16.1623	3030.20	-58.15	-46	139	221
222			-258.83	-137.16	1.147	48.023E-02	-2.818E-04	66.612E-09	16.0031	2934.87	-62.25	-2	137	222
223			-258.83	135.36	-2.914	49.907E-02	-2.935E-04	66.654E-09	14.1779	1993.12	-103.20	-2	133	223
224			-490.69	-357.43	30.011	39.394E-02	-1.907E-04	33.976E-09	16.8138	3410.51	-40.15	-2	127	224
225					13.389	50.325E-02	-2.931E-04	66.193E-09	17.6306	4092.15	-86.55	77	222	225
226					19.850	40.336E-02	-1.436E-04	-7.402E-09	16.2292	2980.47	-64.15	5	136	226
227			-466.03		15.420	45.008E-02	-1.686E-04	-1.439E-08	16.2291	2980.47	-64.15	7	137	227
228			-470.18	-323.72	19.854	40.344E-02	-1.437E-04	-7.402E-09	16.1620	2935.11	-64.16	3	123	228
229														229
230														230
231			-49.03		-53.068	62.886E-02	-3.358E-04	64.267E-09	16.1004	3015.46	-61.15	7	143	231
232			-146.54	-8.37	-3.626	48.734E-02	-2.580E-04	53.047E-09	15.8333	2477.07	-39.94	-53	57	232
233			-154.58	-14.82	-9.525	50.660E-02	-2.729E-04	57.234E-09	15.6338	2348.67	-40.05	-57	49	233
234			-166.09	-15.24	-16.592	55.517E-02	-3.306E-04	76.323E-09	15.2069	2034.15	-45.37	-13	32	234
235			-298.94	-146.12	3.869	50.451E-02	-2.639E-04	51.205E-09	16.5270	3026.89	-105.00	37	138	235
236			-302.71	-163.71	-9.483	56.773E-02	-3.481E-04	86.278E-09	16.2708	2752.19	-116.30	34	129	236
237			-302.29		-9.542	60.815E-02	-3.485E-04	86.499E-09	16.7127	3026.43	-104.10	25	153	237
238			-329.92	-165.38	-12.087	60.960E-02	-4.204E-04	12.284E-08	15.0113	1988.08	-137.80	25	102	238
239			-293.08	-125.52	12.154	53.968E-02	-3.160E-04	71.217E-09	18.1336	3694.96	-65.00	55	133	239
240			-292.99	-125.52	2.533	51.372E-02	-2.596E-04	43.040E-09	15.3549	2423.41	-62.28	-27	87	240
241					36.283	52.670E-02	-4.547E-04	14.558E-08	16.4174	2913.70	-30.63	-88	88	241
242			-957.27	-879.98					15.8830	2666.26	-53.70	69	23	242
243									16.1940	2827.53	-57.66	-3	117	243
244									13.9087	1374.07	-136.80	7	127	244
245									15.8307	2488.59	-59.73	-3	57	245
246					-14.361	60.876E-02	-5.623E-04	20.725E-08	16.8979	4452.50	-53.00	127	327	246
247			29.98	82.73	-14.302	55.056E-02	-4.513E-04	14.294E-08	16.2799	3798.23	-59.84	58	210	247
248			26.46	78.63	-13.590	54.931E-02	-4.505E-04	14.269E-08	16.8173	4104.13	-43.15	53	202	248
249			23.03	77.20	-14.344	55.349E-02	-4.559E-04	14.478E-08	16.1135	3626.83	-64.64	54	204	249
250			105.09	138.62	-28.805	53.507E-02	-4.080E-04	12.117E-08	15.7972	3313.00	-67.71	47	177	250

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
251	C6H5CL	CHLOROBENZENE	112.559	-45.6	131.7	632.4	45.2	0.308	1106	20	36,572	251
252	C6H5F	FLUOROBENZENE	96.104	-39.2	85.3	560.1	45.5	0.271	1024	20		252
253	C6H5I	IODOBENZENE	204.011	-31.4	188.2	721.0	45.2	0.351	1855	4	39,523	253
254	C6H5NO2	NITROBENZENE	123.112	4.8	210.6	712.0	35.0	0.337	1203	20	44,031	254
255	C6H6	BENZENE	78.114	5.5	80.1	562.1	48.9	0.259	885	16	30,781	255
256	C6H6O	PHENOL	94.113	40.8	181.8	694.2	61.3	0.229	1059	40	45,636	256
257	C6H7N	ANILINE	93.129	-6.2	184.3	699.0	53.1	0.270	1022	20	41,868	257
258	C6H7N	4-METHYL PYRIDINE	93.129	3.7	145.3	646.0	44.6	0.311	955	20	37,472	258
259	C6H10	1,5-HEXADIENE	82.146	-141.2	59.4	507.0	34.5	0.328	692	20	27,470	259
260	C6H10	CYCLOHEXENE	82.146	-103.5	82.9	560.4	43.5	0.292	816	16	30,480	260
261	C6H10O	CYCLOHEXANONE	98.145	-31.2	155.6	629.0	38.5	0.312	951	15	39,775	261
262	C6H12	CYCLOHEXANE	84.162	6.5	80.7	553.4	40.7	0.308	779	20	29,977	262
263	C6H12	METHYLCYCLOPENTANE	84.162	-142.5	71.8	532.7	37.9	0.319	754	16	29,098	263
264	C6H12	1-HEXENE	84.162	-139.9	63.4	504.0	31.7	0.350	673	20	28,303	264
265	C6H12	CIS-2-HEXENE	84.162	-141.2	68.8	518.0	32.8	0.351	687	20	29,140	265
266	C6H12	TRANS-2-HEXENE	84.162	-133.2	67.8	516.0	32.7	0.351	678	20	28,931	266
267	C6H12	CIS-3-HEXENE	84.162	-137.9	66.4	517.0	32.8	0.350	680	20	28,721	267
268	C6H12	TRANS-3-HEXENE	84.162	-113.5	67.1	519.9	32.5	0.350	677	20	28,973	268
269	C6H12	2-METHYL-2-PENTENE	84.162	-135.1	67.3	518.0	32.8	0.351	691	16	29,015	269
270	C6H12	3-METHYL-2-PENTENE	84.162	-134.9	67.7	518.0	32.8	0.351	694	20	28,847	270
271	C6H12	3-METHYL-TRANS-2-PENTENE	84.162	-138.5	70.4	521.0	32.9	0.350	698	20	29,308	271
272	C6H12	4-METHYL-CIS-2-PENTENE	84.162	-134.2	56.4	490.0	30.4	0.360	669	20	27,591	272
273	C6H12	4-METHYL-TRANS-2-PENTENE	84.162	-141.2	58.5	493.0	30.4	0.360	669	20	27,968	273
274	C6H12	2,3-DIMETHYL-1-BUTENE	84.162	-157.3	55.6	501.0	32.4	0.343	678	20	27,424	274
275	C6H12	2,3-DIMETHYL-2-BUTENE	84.162	-74.3	73.2	524.0	33.6	0.351	708	20	29,655	275
276	C6H12	3,3-DIMETHYL-1-BUTENE	84.162	-115.2	41.2	490.0	32.5	0.340	653	20	25,665	276
277	C6H12O	CYCLOHEXANOL	100.161	24.8	161.1	625.0	37.5	0.327	942	30	45,511	277
278	C6H12O	METHYL ISOBUTYL KETONE	100.161	-84.2	116.4	571.0	32.7	0.371	801	20	35,588	278
279	C6H12O2	N-BUTYL ACETATE	116.160	-73.5	126.0	579.0	31.4	0.400	898	0	36,006	279
280	C6H12O2	ISOBUTYL ACETATE	116.160	-98.9	116.8	561.0	30.4	0.414	875	20	35,873	280
281	C6H12O2	ETHYL BUTYRATE	116.160	-93.2	120.8	566.0	31.4	0.395	879	20	34,332	281
282	C6H12O2	ETHYL ISOBUTYRATE	116.160	-88.2	111.0	553.0	30.4	0.410	869	20	35,023	282
283	C6H12O2	N-PROPYL PROPIONATE	116.160	-75.9	122.5	578.0			881	20	36,383	283
284	C6H14	N-HEXANE	86.178	-95.4	68.7	507.4	29.7	0.370	659	20	28,872	284
285	C6H14	2-METHYL PENTANE	86.178	-153.7	60.2	497.5	30.1	0.367	653	20	27,800	285
286	C6H14	3-METHYL PENTANE	86.178	-118.2	63.2	504.4	31.2	0.367	664	20	28,093	286
287	C6H14	2,2-DIMETHYL BUTANE	86.178	-99.9	49.7	488.7	30.8	0.359	649	20	26,322	287
288	C6H14	2,3-DIMETHYL BUTANE	86.178	-128.6	58.0	499.9	31.3	0.358	662	20	27,298	288
289	C6H14O	1-HEXANOL	102.177	-44.0	157.0	610.0	40.5	0.381	819	20	48,567	289
290	C6H14O	ETHYL BUTYL ETHER	102.177	-103.2	92.2	531.0	30.4	0.390	749	20	31,820	290
291	C6H14O	DIISOPROPYL ETHER	102.177	-85.5	68.3	500.0	28.8	0.386	724	20	29,349	291
292	C6H15N	DIPROPYLAMINE	101.193	-63.2	109.2	550.0	31.4	0.407	738	20	37,011	292
293	C6H15N	TRIETHYLAMINE	101.193	-114.8	89.5	535.0	30.4	0.390	728	20	31,401	293
294	C7F14	PERFLUOROMETHYLCYCLOHEXANE	350.055		76.3	486.8	23.3					294
295	C7F16	PERFLUORO-N-HEPTANE	388.051	-78.2	82.5	474.8	16.2	0.664	1733	20		295
296	C7H5N	BENZONITRILE	103.124	-13.2	190.8	699.4	42.2		1010	15		296
297	C7H6O	BENZALDEHYDE	106.124	-57.2	178.8	695.0	46.6		1045	20	42,705	297
298	C7H6O2	BENZOIC ACID	122.124	122.4	249.8	752.0	45.6	0.341	1075	130	50,660	298
299	C7H7NO2	O-NITROTOLUENE	137.139	-9.2	222.1	720.0	34.0	0.371	1167	20	45,487	299
300	C7H7NO2	M-NITROTOLUENE	137.139	16.0	233.1	725.0	30.5	0.371	1158	20	46,090	300

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
301	C7H7NO2	P-NITROTOLUENE	137.139	54.8	238.0	735.0	30.1	0.371	1164	20	46,875	301
302	C7H8	TOLUENE	92.141	-95.2	110.6	591.7	41.1	0.316	867	20	33,201	302
303	C7H8O	METHYL PHENYL ETHER	108.140	-37.5	153.6	641.0	41.7	0.316	996	20	33,201	303
304	C7H8O	BENZYL ALCOHOL	108.140	-15.4	205.4	677.0	46.6	0.334	1041	25	50,535	304
305	C7H8O	O-CRESOL	108.140	30.9	191.0	697.6	50.1	0.282	1028	40	45,217	305
306	C7H8O	M-CRESOL	108.140	12.2	202.2	705.8	45.6	0.310	1034	20	47,436	306
307	C7H8O	P-CRESOL	108.140	34.7	201.9	704.6	51.5	0.310	1019	40	47,478	307
308	C7H9N	2,3-DIMETHYLPYRIDINE	107.156	160.8	160.8	655.4			942	25		308
309	C7H9N	2,5-DIMETHYLPYRIDINE	107.156	157.0	157.0	644.2			938	0		309
310	C7H9N	3,4-DIMETHYLPYRIDINE	107.156	179.1	179.1	683.8			954	25		310
311	C7H9N	3,5-DIMETHYLPYRIDINE	107.156	171.9	171.9	667.2			939	25		311
312	C7H9N	METHYLPHENYLAMINE	107.156	-57.2	195.9	701.0	52.0		989	20		312
313	C7H9N	O-TOLUIDINE	107.156	-14.8	200.1	694.0	37.5	0.343	998	20	45,364	313
314	C7H9N	M-TOLUIDINE	107.156	-30.4	203.3	709.0	41.5	0.343	989	20	45,636	314
315	C7H9N	PILOUIDINE	107.156	43.7	200.1	667.0			964	50	44,799	315
316	C7H14	CYCLOHEPTANE	98.189	-8.2	118.7	589.0	37.2	0.390	810	20	33,076	316
317	C7H14	1;1-DIMETHYLCYCLOPENTANE	98.189	-69.8	87.8	547.0	34.5	0.360	759	16	30,312	317
318	C7H14	CIS-1,2-DIMETHYLCYCLOPENTANE	98.189	-53.9	99.5	564.8	34.5	0.368	777	16	31,719	318
319	C7H14	TRANS-1,2-DIMETHYLCYCLOPENTANE	98.189	-117.6	91.8	553.2	34.5	0.362	756	16	30,878	319
320	C7H14	ETHYLCYCLOPENTANE	98.189	-138.5	103.4	569.5	33.9	0.375	771	16	32,301	320
321	C7H14	METHYLCYCLOHEXANE	98.189	-126.6	100.9	572.1	34.8	0.368	774	16	31,150	321
322	C7H14	1-HEPTENE	98.189	-118.9	93.6	537.2	28.4	0.440	679	20	31,108	322
323	C7H14	2,3,3-TRIMETHYL-1-BUTENE	98.189	-109.9	77.8	533.0	29.0	0.400	705	20	28,889	323
324	C7H16	N-HEPTANE	100.205	-90.6	98.4	540.2	27.4	0.432	684	20	31,719	324
325	C7H16	2-METHYLHEXANE	100.205	-118.3	90.0	530.3	27.4	0.421	679	20	30,689	325
326	C7H16	3-METHYLHEXANE	100.205	-173.2	91.8	535.2	28.2	0.404	687	20	30,815	326
327	C7H16	2,2-DIMETHYLPENTANE	100.205	-123.8	79.2	520.4	27.8	0.416	674	20	29,182	327
328	C7H16	2,3-DIMETHYLPENTANE	100.205	-123.8	89.7	537.3	29.1	0.393	965	20	30,409	328
329	C7H16	2,4-DIMETHYLPENTANE	100.205	-119.2	80.5	519.7	27.4	0.418	673	20	29,517	329
330	C7H16	3,3-DIMETHYLPENTANE	100.205	-134.5	86.0	536.3	29.5	0.414	693	20	29,668	330
331	C7H16	3-ETHYLPENTANE	100.205	-118.6	93.4	540.6	28.9	0.416	698	20	30,978	331
332	C7H16	2,2,3-TRIMETHYLBUTANE	100.205	-24.9	80.8	531.1	29.6	0.398	690	20	28,968	332
333	C7H16O	1-HEPTANOL	116.204	-34.0	176.3	633.0	30.4	0.435	822	20	48,148	333
334	C8H4O3	PHTHALIC ANHYDRIDE	148.118	130.8	286.8	810.0	47.6	0.368	906	20	49,614	334
335	C8H8	STYRENE	104.152	-30.7	145.1	647.0	39.9	0.368	906	20	36,844	335
336	C8H8O	METHYL PHENYL KETONE	120.151	19.6	201.7	701.0	38.5	0.376	1032	15	36,844	336
337	C8H8O2	METHYL BENZOATE	136.151	-12.4	199.0	692.0	36.5	0.396	1083	20	43,124	337
338	C8H10	O-XYLENE	106.168	-25.2	144.4	630.2	37.3	0.369	880	20	36,844	338
339	C8H10	M-XYLENE	106.168	-47.9	139.1	617.0	35.5	0.376	864	20	36,383	339
340	C8H10	P-XYLENE	106.168	13.2	138.3	616.2	35.2	0.379	861	20	36,006	340
341	C8H10	ETHYL BENZENE	106.168	-95.0	136.1	617.1	36.1	0.374	867	20	35,588	341
342	C8H10O	O-ETHYLPHENOL	122.167	-3.4	204.5	703.0			1037	0	48,106	342
343	C8H10O	M-ETHYLPHENOL	122.167	-4.2	218.4	716.4			1025	0	50,828	343
344	C8H10O	P-ETHYLPHENOL	122.167	44.8	217.8	716.4			979	4	50,660	344
345	C8H10O	ETHYL PHENYL ETHER	122.167	-30.2	169.8	647.0	34.2					345
346	C8H10O	2,3-XYLENOL	122.167	74.8	216.9	722.8					47,311	346
347	C8H10O	2,4-XYLENOL	122.167	24.8	210.8	707.6					47,143	347
348	C8H10O	2,5-XYLENOL	122.167	74.8	211.1	723.0					46,892	348
349	C8H10O	2,6-XYLENOL	122.167	48.8	200.9	701.0					44,380	349
350	C8H10O	3,4-XYLENOL	122.167	64.8	226.8	729.8					49,823	350

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
301									16.0433	3914.07	-90.45	233	129	301
302	467.33	255.24	50.03	122.09	-24.355	51.246E-02	-2.765E-04	49.111E-09	16.0137	3096.52	-53.67	7	137	302
303	388.84	325.85							16.2394	3430.82	-69.58	97	167	303
304	1088.00	367.21	-94.08		-7.398	54.805E-02	-3.357E-04	77.707E-09	17.4582	4384.81	-73.15	112	330	304
305	1533.40	365.61	-128.70		-32.276	70.045E-02	-5.924E-04	21.240E-08	15.9148	3305.37	-108.00	97	207	305
306	1785.60	370.75	-132.43		-45.008	72.641E-02	-6.029E-04	20.775E-08	17.2878	4274.42	-74.09	97	207	306
307	1822.90	372.68	-125.48		-40.633	70.548E-02	-5.757E-04	19.674E-08	16.1989	3479.39	-111.30	97	207	307
308			68.29						17.1492	4219.74	-33.04	147	167	308
309			66.44						16.3046	3545.14	-63.59	77	162	309
310			70.05						16.9517	4237.04	-41.65	127	187	310
311			72.81						16.8850	4106.95	-44.45	127	187	311
312	915.12	332.74	85.41	199.33					16.3066	3756.28	-80.71	47	207	312
313	1085.10	356.46							16.7834	4072.58	-72.15	102	227	313
314	928.12	354.07							16.7498	4080.32	-73.15	82	227	314
315	738.90	356.02							16.6968	4041.04	-72.15	77	227	315
316									15.7818	3066.05	-56.80	57	162	316
317			-119.41	63.05	-76.187	78.670E-02	-4.204E-04	75.614E-09	15.8737	2911.32	-56.51	-3	127	324
318			-138.37	39.06	-57.891	76.702E-02	-4.501E-04	10.103E-08	15.6973	2807.94	-51.20	-13	117	317
319			-129.62	45.76	-55.643	76.158E-02	-4.484E-04	10.140E-08	15.7729	2922.30	-52.94	-3	127	318
320	433.81	249.72	-136.78	38.39	-54.521	75.907E-02	-4.480E-04	10.170E-08	15.7594	2861.53	-51.46	-13	117	319
321	528.41	271.58	-127.15	44.59	-55.312	75.111E-02	-4.396E-04	10.040E-08	15.8581	2990.13	-52.47	-3	129	320
322	368.69	214.32	-154.87	27.30	-61.919	78.419E-02	-4.438E-04	93.659E-09	15.7105	2926.04	-51.75	-3	127	321
323			-62.34	95.88	-3.303	62.969E-02	-3.512E-04	76.074E-09	15.8894	2895.51	-53.97	-8	127	322
324			-86.54						15.6536	2719.47	-49.56	-20	102	323
325	436.73	232.53	-187.90	8.00	-5.146	67.617E-02	-3.651E-04	76.577E-09	15.8737	2911.32	-56.51	-3	127	324
326	417.46	225.13	-195.06	3.22	-39.389	86.416E-02	-6.289E-04	18.363E-08	15.8261	2845.06	-53.60	-9	117	325
327			-192.43	4.61	-7.046	68.370E-02	-3.734E-04	78.335E-09	15.8133	2855.66	-53.93	-8	117	326
328	417.37	226.19	-206.28	0.08	-50.099	89.556E-02	-6.360E-04	17.358E-08	15.6917	2740.15	-49.85	-19	105	327
329			-199.38	0.67	-7.046	70.476E-02	-3.734E-04	78.335E-09	15.7815	2850.64	-51.33	-11	115	328
330			-202.14	3.10	-7.046	68.370E-02	-3.734E-04	78.335E-09	15.7179	2744.78	-51.52	-17	105	329
331			-201.68	2.64	-7.046	68.370E-02	-3.734E-04	78.335E-09	15.7190	2829.10	-47.83	-13	112	330
332			-204.94	4.27	-22.944	75.195E-02	-4.421E-04	10.048E-08	15.6398	2764.40	-47.10	-19	106	332
333	1287.00	361.83	-332.01	-121.00	4.907	67.784E-02	-3.447E-04	60.457E-09	15.9984	4467.01	-83.15	136	342	334
334			-371.79		-4.455	65.398E-02	-4.283E-04	10.094E-08	15.9984	4467.01	-83.15	136	342	334
335	528.64	276.71	-147.46	213.95	-28.248	61.588E-02	-4.023E-04	99.353E-09	16.0193	3328.57	-63.72	32	187	335
336	1316.40	310.82	-86.92	1.84	-29.580	64.100E-02	-4.071E-04	97.217E-09	16.2384	3781.07	-81.15	77	247	336
337	768.94	332.33	-254.06		-21.210	55.015E-02	-1.799E-04	44.254E-09	16.2272	3751.83	-81.15	77	247	336
338	513.54	277.98	-191.01	122.17	-15.851	59.620E-02	-3.443E-04	75.279E-09	16.1156	3395.57	-59.46	32	172	338
339	453.42	257.18	-17.25	118.95	-29.165	62.969E-02	-3.747E-04	84.783E-09	16.1390	3366.99	-58.04	27	167	339
340	475.16	261.40	-17.96	121.21	-25.091	60.416E-02	-3.374E-04	68.203E-09	16.0963	3346.65	-57.84	27	167	340
341	472.82	264.22	-29.81	130.67	-43.099	70.715E-02	-4.811E-04	13.008E-08	16.0195	3272.47	-59.95	27	177	341
342			-145.78						17.9610	4928.36	-45.75	77	227	342
343			-146.58						17.1955	4272.72	-86.08	97	227	343
344			-144.65						19.0905	5579.67	-44.15	97	227	344
345	646.88	305.91							16.1673	3473.20	-78.66	112	187	345
346			-167.34						16.2424	3724.58	-102.40	147	227	346
347			-162.78						13.2456	3655.26	-103.80	137	227	347
348			-161.53						16.2328	3667.32	-102.40	137	217	348
349			-161.95						16.2809	3749.35	-85.55	127	207	349
350			-156.50						16.3004	3733.53	-113.90	157	247	350

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
351	C8H10O	3,5-XYLENOL	122.167	63.8	221.6	715.6					49,404	351
352	C8H11N	N,N-DIMETHYLANILINE	121.183	2.4	193.5	687.0	36.3		956	20		352
353	C8H16	1,1-DIMETHYLCYCLOHEXANE	112.216	-33.5	119.5	591.0	29.7	0.416	785	16	32,615	353
354	C8H16	CIS-1,2-DIMETHYLCYCLOHEXANE	112.216	-50.1	129.7	606.0	29.7		796	20	33,662	354
355	C8H16	TRANS-1,2-DIMETHYLCYCLOHEXANE	112.216	-88.2	123.4	596.0	29.7		776	20	32,908	355
356	C8H16	CIS-1,3-DIMETHYLCYCLOHEXANE	112.216	-75.6	120.1	591.0	29.7		766	20	32,825	356
357	C8H16	TRANS-1,3-DIMETHYLCYCLOHEXANE	112.216	-90.2	124.4	598.0	29.7		785	20	33,871	357
358	C8H16	CIS-1,4-DIMETHYLCYCLOHEXANE	112.216	-87.5	124.3	598.0	29.7		783	20	33,787	358
359	C8H16	TRANS-1,4-DIMETHYLCYCLOHEXANE	112.216	-37.0	119.3	590.0	29.7		763	20	32,615	359
360	C8H16	ETHYLCYCLOHEXANE	112.216	-111.4	131.7	609.0	30.3	0.450	788	20	34,332	360
361	C8H16	1,1,2-TRIMETHYLCYCLOPENTANE	112.216		113.7	579.5	29.4		32,615			361
362	C8H16	1,1,3-TRIMETHYLCYCLOPENTANE	112.216		104.8	569.5	28.8		31,694			362
363	C8H16	CIS; CIS; TRANS-1,2,4-TRIMETHYLCYCLOPENTANE	112.216		117.8	579.0	28.8		33,076			363
364	C8H16	CIS; TRANS; CIS-1,2,4-TRIMETHYLCYCLOPENTANE	112.216		109.2	571.0	28.1		33,076			364
365	C8H16	1-METHYL-1-ETHYLCYCLOPENTANE	112.216		121.5	592.0	29.9		33,662			365
366	C8H16	N-PROPYLCYCLOPENTANE	112.216	-117.4	130.9	603.0	30.0	0.425	781	16	34,131	366
367	C8H16	ISOPROPYLCYCLOPENTANE	112.216	-112.7	126.4	601.0	30.0		776	20	34,122	367
368	C8H16	1-OCTENE	112.216	-101.8	121.2	566.6	26.2	0.464	715	20	33,787	368
369	C8H16	TRANS-2-OCTENE	112.216	-87.8	124.9	580.0	27.7		720	20	34,332	369
370	C8H18	N-OCTANE	114.232	-56.8	125.6	568.8	24.8	0.492	703	20	34,436	370
371	C8H18	2-METHYLHEPTANE	114.232	-109.2	117.6	559.6	24.8	0.488	702	16	33,829	371
372	C8H18	3-METHYLHEPTANE	114.232	-120.5	118.9	563.6	25.4	0.464	706	20	33,913	372
373	C8H18	4-METHYLHEPTANE	114.232	-121.0	117.7	561.7	25.4	0.476	705	20	33,913	373
374	C8H18	2,2-DIMETHYLHEXANE	114.232	-121.2	108.8	549.8	25.3	0.478	695	20	32,280	374
375	C8H18	2,3-DIMETHYLHEXANE	114.232		115.6	563.4	26.2	0.468	712	20	33,226	375
376	C8H18	2,4-DIMETHYLHEXANE	114.232		109.4	553.5	25.5	0.472	700	20	32,615	376
377	C8H18	2,5-DIMETHYLHEXANE	114.232	-91.3	109.1	550.0	24.8	0.482	693	20	32,657	377
378	C8H18	3,3-DIMETHYLHEXANE	114.232	-126.2	111.9	562.0	26.5	0.443	710	20	32,490	378
379	C8H18	3,4-DIMETHYLHEXANE	114.232		117.7	568.8	27.0	0.466	719	20	33,298	379
380	C8H18	3-ETHYLHEXANE	114.232		118.5	565.4	26.0	0.455	718	16	33,633	380
381	C8H18	2,2,3-TRIMETHYLPENTANE	114.232	-112.3	109.8	563.4	27.3	0.436	716	20	32,029	381
382	C8H18	2,2,4-TRIMETHYLPENTANE	114.232	-107.4	99.2	543.9	25.6	0.468	692	20	31,028	382
383	C8H18	2,3,3-TRIMETHYLPENTANE	114.232	-100.7	114.7	573.5	28.2	0.455	726	20	32,364	383
384	C8H18	2,3,4-TRIMETHYLPENTANE	114.232	-109.3	113.4	566.3	27.3	0.461	719	20	32,753	384
385	C8H18	2-METHYL-3-ETHYLPENTANE	114.232	-115.0	115.6	567.0	27.1	0.443	719	20	32,988	385
386	C8H18	3-METHYL-3-ETHYLPENTANE	114.232	-90.9	118.2	576.5	28.1	0.455	727	20	32,816	386
387	C8H18O	1-OCTANOL	130.231	-15.5	195.2	658.0	34.5	0.490	826	20	50,660	387
388	C8H18O	2-OCTANOL	130.231	-32.0	179.7	637.0	27.4	0.494	821	20	44,380	388
389	C8H18O	2-ETHYLHEXANOL	130.231	-70.0	184.6	613.0	27.6	0.494	833	20	46,599	389
390	C8H18O	BUTYL ETHER	130.231	-97.9	142.4	580.0	25.3	0.500	768	20	37,263	390
391	C8H18O5	TETRAETHYLENE GLYCOL	194.229		318.9	795.8	21.0	0.646				391
392	C8H19N	DIBUTYLAMINE	129.247	-62.2	159.6	596.0	25.3	0.517	767	20	39,775	392
393	C8H20Si	TETRAETHYL SILANE	144.333	-82.5	153.4	603.7	26.0	0.582	766	20	36,473	393
394	C9H8	INDENE	116.163		181.9	681.9	38.2	0.377				394
395	C9H10	INDAN	118.179		177.0	681.1	36.3	0.392				395
396	C9H10	ALPHA-METHYL STYRENE	118.179		165.3	654.0	34.0	0.397	911	20	38,309	396
397	C9H10O2	ETHYL BENZOATE	150.178	-34.9	212.7	697.0	32.4	0.451	1046	20	44,799	397
398	C9H12	N-PROPYLBENZENE	120.195	-99.5	159.2	638.3	32.0	0.440	862	20	38,267	398
399	C9H12	ISOPROPYLBENZENE	120.195	-96.1	152.4	631.0	32.1	0.428	862	20	37,556	399
400	C9H12	1-METHYL-2-ETHYLBENZENE	120.195	-80.9	165.1	651.0	30.4	0.460	881	20	38,895	400

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
351			- 161.48						16.4192	3775.91	- 109.00	137	227	351
352	553.02	320.03	84.15	231.36	- 72.105	89.974E-02	- 5.020E-04	10.304E-08	16.9647	4276.08	- 52.80	72	207	352
353			- 181.12	35.25	- 68.370	89.723E-02	- 5.137E-04	0.986E-08	15.6535	3043.34	- 55.30	10	147	353
354			- 172.29	41.24	- 68.479	91.230E-02	- 5.355E-04	1.811E-08	15.7438	3148.35	- 57.31	17	157	354
355			- 180.12	34.50	- 65.163	88.383E-02	- 4.932E-04	1.0199E-08	15.7337	3117.43	- 54.02	13	151	355
356			- 184.89	29.85	- 64.154	88.258E-02	- 5.016E-04	1.0685E-08	15.7470	3081.95	- 55.08	11	147	356
357			- 176.68	36.34	- 64.154	88.258E-02	- 5.016E-04	1.0685E-08	15.7371	3093.95	- 57.76	15	152	357
358			- 176.77	37.97	- 64.154	88.258E-02	- 5.016E-04	1.0685E-08	15.7333	3098.39	- 57.00	14	152	358
359			184.72	31.74	- 70.363	91.314E-02	- 5.309E-04	1.1547E-08	15.6984	3063.44	- 54.57	10	147	359
360	506.43	280.76	- 171.87	39.27	- 63.891	88.928E-02	- 5.108E-04	1.1028E-08	15.8125	3183.25	- 58.15	20	160	360
361									15.7084	3015.51	- 54.59	6	141	361
362									15.6794	2938.09	- 53.25	0	131	362
363									15.7543	3073.95	- 54.20	10	145	363
364									15.7756	3009.70	- 53.23	9	144	364
365									15.8222	3120.66	- 55.06	13	149	365
366	454.23	264.22	- 148.17	52.63	- 55.973	84.490E-02	- 4.924E-04	1.1175E-08	15.8969	3187.67	- 59.99	21	158	366
367									15.8561	3176.22	- 55.18	16	154	367
368	418.82	237.63	- 82.98	104.29	- 4.099	72.390E-02	- 4.036E-04	86.750E-09	15.9630	3116.52	- 60.39	16	147	368
369	427.64	240.32	- 94.58	92.74	- 12.820	75.321E-02	- 4.442E-04	10.505E-08	15.8554	3134.97	- 58.00	16	152	369
370	473.70	251.71	- 208.59	16.41	- 6.096	77.121E-02	- 4.195E-04	88.551E-09	15.9426	3120.29	- 63.63	19	152	370
371	643.61	259.51	- 215.62	12.77	- 89.744	12.422E-01	- 1.176E-03	46.180E-08	15.9278	3097.63	- 59.46	12	144	371
372			- 212.77	13.73	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8865	3065.96	- 60.74	13	145	372
373			- 212.23	16.75	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8893	3057.05	- 60.59	12	144	373
374			- 224.87	10.72	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7431	2932.56	- 58.08	3	132	374
375			- 214.07	17.71	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8189	3029.06	- 58.99	10	142	375
376			- 219.56	11.72	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7797	2965.44	- 58.36	5	135	376
377			- 222.78	10.47	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7954	2964.06	- 58.74	5	135	377
378	446.20	244.67	- 220.27	13.27	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7755	3011.51	- 55.71	6	138	378
379			- 213.15	17.33	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8415	3062.52	- 58.29	11	144	379
380	437.60	238.33	- 211.01	16.54	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8671	3057.57	- 60.55	13	145	380
381	474.57	257.61	- 220.27	17.12	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7162	2981.56	- 54.73	4	136	381
382	467.04	246.43	- 224.29	13.69	- 7.461	77.791E-02	- 4.287E-04	91.733E-09	15.6850	2896.28	- 52.41	4	125	382
383			- 216.58	18.92	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7578	3057.94	- 52.77	7	142	383
384			- 217.59	18.92	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.7818	3028.09	- 55.62	7	140	384
385			- 211.35	21.27	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8040	3035.08	- 57.84	9	142	385
386	1312.10	369.97	- 215.12	19.93	- 9.215	78.586E-02	- 4.400E-04	96.966E-09	15.8126	3102.06	- 53.47	10	145	386
387			- 360.06	- 120.16	6.171	76.074E-02	- 3.797E-04	62.635E-09	15.7428	3017.81	- 137.10	70	180	387
388					25.879	76.409E-02	- 4.224E-04	90.644E-09	14.7108	2441.66	- 150.70	72	180	388
389	1798.00	351.17	- 365.55	- 88.59	- 14.993	86.541E-02	- 5.280E-04	12.845E-08	15.3614	2773.46	- 140.00	75	185	389
390	473.50	266.56	- 334.11		6.054	77.288E-02	- 4.085E-04	80.847E-09	16.0778	3296.15	- 66.15	32	182	390
391					7.164	86.164E-02	- 2.904E-04	- 9.115E-08	20.5564	8215.28	- 11.50	227	427	391
392	581.42	286.54		131.17	9.764	80.803E-02	- 4.392E-04	92.486E-09	16.7307	3721.90	- 64.15	49	186	392
393									16.6385	3993.18	- 39.33	153	- 1	393
394			- 314.93		- 42.944	68.957E-02	- 4.340E-04	91.482E-09	16.4380	3994.77	- 49.40	77	277	394
395					- 59.639	78.126E-02	- 4.841E-04	98.474E-09	16.2601	3789.86	- 57.00	77	277	395
396	354.34	270.80			- 24.329	69.333E-02	- 4.530E-04	11.807E-08	16.3308	3644.30	- 67.15	75	220	396
397	746.50	338.47			20.670	68.873E-02	- 3.608E-04	50.618E-09	16.2065	3845.09	- 84.15	88	258	397
398	527.45	282.65	7.83	137.33	- 31.288	74.860E-02	- 4.601E-04	10.810E-08	16.0062	3433.84	- 66.01	43	188	398
399	517.17	276.22	3.94	137.08	- 39.364	78.419E-02	- 5.087E-04	12.912E-08	15.9722	3363.60	- 63.37	38	181	399
400			1.21	131.17	- 16.446	69.961E-02	- 4.120E-04	93.282E-09	16.1253	3535.33	- 65.85	48	194	400

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	LDEN	TDEN	HVAP	NO
401	C9H12	1-METHYL-3-ETHYLBENZENE	120.195	-95.6	161.3	637.0	28.4	0.490	865	20	38,560	401
402	C9H12	1-METHYL-4-ETHYLBENZENE	120.195	-62.4	162.0	640.0	29.4	0.470	861	20	38,435	402
403	C9H12	1,2,3-TRIMETHYLBENZENE	120.195	-25.5	176.0	664.5	34.6	0.430	894	20	40,068	403
404	C9H12	1,2,4-TRIMETHYLBENZENE	120.195	-46.2	169.3	649.1	32.3	0.430	880	16	39,272	404
405	C9H12	1,3,5-TRIMETHYLBENZENE	120.195	-44.8	164.7	637.3	31.3	0.433	865	20	39,063	405
406	C9H18	N-PROPYLCYCLOHEXANE	126.243	-94.5	156.7	639.0	28.1		793	20	36,090	406
407	C9H18	ISOPROPYLCYCLOHEXANE	126.243	-89.8	154.5	640.0	28.4		802	20		407
408	C9H18	1-NONENE	126.243	-81.4	146.8	592.0	23.4	0.580	745	0	36,341	408
409	C9H20	N-NONANE	128.259	-53.5	150.8	594.6	23.1	0.548	718	20	36,940	409
410	C9H20	2,2,3-TRIMETHYLBENZENE	128.259		133.6	588.0	24.9				34,792	410
411	C9H20	2,2,4-TRIMETHYLBENZENE	128.259	-120.2	126.5	573.7	23.7		720	16	34,039	411
412	C9H20	2,2,5-TRIMETHYLBENZENE	128.259	-105.8	124.1	568.0	23.3	0.519	717	16	33,787	412
413	C9H20	3,3-DIMETHYLPENTANE	128.259		146.1	610.0	26.7		752	20	36,006	413
414	C9H20	2,2,3,3-TETRAMETHYLPENTANE	128.259		140.2	607.6	27.4				35,295	414
415	C9H20	2,2,3,4-TETRAMETHYLPENTANE	128.259		133.0	592.7	26.0		719	20	34,290	415
416	C9H20	2,2,4,4-TETRAMETHYLPENTANE	128.259		122.2	574.7	24.8				32,866	416
417	C9H20	2,3,3,4-TETRAMETHYLPENTANE	128.259	-67.2	141.5	607.6	27.2				34,960	417
418	C10H8	NAPHTHALENE	128.174	80.3	217.9	748.4	40.5	0.410	971	90	43,292	418
419	C10H12	1,2,3,4-TETRAHYDRONAPHTHALENE	132.206	-31.2	207.5	719.0	35.2		973	20	39,733	419
420	C10H14	N-BUTYLBENZENE	134.222	-88.0	183.2	660.5	28.9	0.497	860	20	39,272	420
421	C10H14	ISOBUTYLBENZENE	134.222	-51.5	172.7	650.0	31.4	0.480	853	20	37,849	421
422	C10H14	SEC-BUTYLBENZENE	134.222	-73.5	173.3	664.0	29.5		862	20	37,974	422
423	C10H14	TERT-BUTYLBENZENE	134.222	-57.9	169.1	660.0	29.7		867	20	37,639	423
424	C10H14	1-METHYL-2-ISOPROPYLBENZENE	134.222		178.3	670.0	29.0		876	20		424
425	C10H14	1-METHYL-3-ISOPROPYLBENZENE	134.222		175.1	666.0	29.4		861	20	38,142	425
426	C10H14	1-METHYL-4-ISOPROPYLBENZENE	134.222	-73.2	177.1	653.0	28.3		857	20	39,398	426
427	C10H14	1,4-DIETHYLBENZENE	134.222	-42.2	183.7	657.9	28.1	0.480	862	20	39,398	427
428	C10H14	1,2,4,5-TETRAMETHYLBENZENE	134.222	78.8	196.8	675.0	29.4	0.480	838	81	45,552	428
429	C10H15N	N-BUTYLANILINE	149.236	-14.2	240.7	721.0	28.4	0.518	932	20	48,944	429
430	C10H18	CIS-DECALIN	138.254	-43.2	195.7	702.2	31.4		897	20	39,356	430
431	C10H18	TRANS-DECALIN	138.254	-30.4	187.2	690.0	31.4		870	20	38,519	431
432	C10H19N	CAPRYLONITRILE	153.269	-17.9	242.8	622.0	32.5		820	20		432
433	C10H20	N-BUTYLCYCLOHEXANE	140.270	-74.8	180.9	667.0	31.5		799	20	38,519	433
434	C10H20	ISOBUTYLCYCLOHEXANE	140.270		171.3	659.0	31.2		795	20		434
435	C10H20	SEC-BUTYLCYCLOHEXANE	140.270		179.3	669.0	26.7		813	20		435
436	C10H20	TERT-BUTYLCYCLOHEXANE	140.270	-41.2	171.5	659.0	26.6		813	20		436
437	C10H20	1-DECENE	140.270	-66.3	170.5	615.0	22.1	0.650	741	20	38,686	437
438	C10H20O	MENTHOL	156.269	42.8	216.3	694.0						438
439	C10H22	N-DECANE	142.286	-29.7	174.1	617.6	21.1	0.603	730	20	39,306	439
440	C10H22	3,3,3-TRIMETHYLHEPTANE	142.286		155.6	609.6	23.2				36,676	440
441	C10H22	2,2,3,3-TETRAMETHYLHEXANE	142.286		160.3	623.1	25.1				36,383	441
442	C10H22	2,2,3,5-TETRAMETHYLHEXANE	142.286		137.4	581.5	21.9				35,295	442
443	C10H22O	1-DECANOL	158.285	6.9	230.2	700.0	22.3	0.600	830	20	50,242	443
444	C11H10	1-METHYLNAPHTHALENE	142.201	-30.5	244.6	772.0	35.7	0.445	1020	20	46,055	444
445	C11H10	2-METHYLNAPHTHALENE	142.201	34.5	241.0	761.0	35.1	0.462	990	40	46,055	445
446	C11H14O2	BUTYL BENZOATE	178.232	-22.2	249.8	723.0	26.3	0.561	1006	20	48,198	446
447	C11H22	N-HEXYLCYCLOPENTANE	154.297		203.1	660.1	21.4				41,986	447
448	C11H22	1-UNDECENE	154.297	-49.2	192.6	637.0	20.0		751	20	40,905	448
449	C11H24	N-UNDECANE	156.313	-25.6	195.9	638.8	19.7	0.660	740	20	41,533	449
450	C12H8	ACENAPHTHALENE	152.196	95.0	270.0	796.9	32.2	0.487				450

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
401			-1.93	126.53	-28.998	72.934E-02	-4.363E-04	99.981E-09	16.1545	3521.08	-64.64	45	190	401
402	463.17	266.08	-2.05	126.78	-27.310	71.762E-02	-4.224E-04	95.417E-09	16.1135	3516.31	-64.23	45	190	402
403			-9.59	124.64	-6.942	63.346E-02	-3.326E-04	66.110E-09	16.2121	3670.22	-66.07	56	206	403
404	872.74	297.75	-13.94	117.02	-4.668	62.383E-02	-3.263E-04	63.763E-09	16.2190	3622.58	-64.59	51	198	404
405	437.52	268.27	-16.08	118.03	-19.590	67.240E-02	-3.692E-04	76.993E-09	16.2893	3614.19	-63.57	48	193	405
406	549.08	293.93	-193.43	47.35	-62.517	98.892E-02	-5.795E-04	12.912E-08	15.8567	3363.62	-65.21	40	186	406
407									15.8260	3346.12	-63.71	57	167	407
408	471.00	258.92	-103.58	112.75	-3.718	81.224E-02	-4.509E-04	97.050E-09	16.0118	3305.03	-67.61	35	175	408
409	525.36	272.12	-229.19	24.83	3.144	67.742E-02	-1.928E-04	-2.981E-08	15.9671	3291.45	-71.33	39	179	409
410			-241.37	24.53	-45.632	10.555E-01	-7.172E-04	19.866E-08	15.8017	3164.17	-61.66	24	163	410
411			-243.38	22.52	-60.311	11.045E-01	-7.712E-04	21.876E-08	15.7639	3084.08	-61.94	18	155	411
412			254.18	13.44	-54.106	10.948E-01	-7.746E-04	22.546E-08	15.7445	3052.17	-62.24	42	147	412
413			231.95	35.09	-67.269	11.262E-01	-7.988E-04	23.061E-08	15.8709	3341.62	-57.57	77	167	413
414			-237.39	34.33	-54.583	10.890E-01	-7.570E-04	21.420E-08	15.7280	3220.55	-59.31	55	167	414
415			-237.22	32.66	-54.583	10.890E-01	-7.570E-04	21.420E-08	15.7363	3167.42	-58.21	45	157	415
416			-242.12	34.04	-67.403	11.681E-01	-8.612E-04	25.736E-08	15.6488	3049.98	-57.13	40	140	416
417			-236.39	34.12	-54.918	10.911E-01	-7.603E-04	21.579E-08	15.8029	3269.07	-58.19	52	152	417
418	873.32	352.57	151.06	223.74	-68.802	84.992E-02	-6.506E-04	19.808E-08	16.1426	3992.01	-71.29	87	252	418
419			27.63	167.05				16.2805	4009.49		-64.98	92	227	419
420	563.84	296.01	-13.82	144.78	-22.990	79.340E-02	-4.396E-04	85.704E-09	16.0793	3633.40	-71.77	62	213	420
421			-21.56					15.9524	3512.47		-69.03	53	203	421
422	582.82	295.82	-17.46		-65.147	98.934E-02	-7.214E-04	21.520E-08	15.9999	3544.19	-68.10	52	203	422
423			-22.69		-86.001	11.020E-01	-8.746E-04	28.265E-08	15.9500	3462.28	-69.87	50	199	423
424								15.9809	3564.52		-70.00	57	208	424
425			-29.31		-48.759	90.644E-02	-6.054E-04	16.274E-08	15.9811	3543.79	-69.22	55	205	425
426								15.9424	3539.21		-70.10	56	207	426
427			-22.27	137.96	-37.417	86.709E-02	-5.560E-04	14.110E-08	16.1140	3657.22	-71.18	62	214	427
428			-45.30	119.53	15.265	65.188E-02	-2.879E-04	32.569E-09	16.3023	3850.91	-71.72	88	227	428
429	1111.10	341.28			-34.068	91.440E-02	-5.560E-04	12.874E-08	16.3994	4079.72	-96.15	112	287	429
430			-169.06	85.87	-112.457	11.183E-01	-6.607E-04	14.369E-08	15.8312	3671.61	-69.74	95	222	430
431	702.27	339.66	-182.42	73.48	-97.670	10.446E-01	-5.476E-04	89.807E-09	15.7989	3610.66	-66.49	90	197	431
432								14.001E-08	15.9116	3542.57	-72.32	59	212	432
433	598.30	311.39	-213.32	56.48	-62.957	10.627E-01	-6.305E-04	14.001E-08	15.9116	3542.57	-72.32	59	212	433
434			-258.74	33.58	-70.372	12.322E-01	-8.646E-04	24.551E-08	15.8141	3437.99	-69.99	82	182	434
435					-58.833	12.313E-01	-8.834E-04	25.849E-08	15.8670	3524.57	-70.78	87	197	435
436					-62.341	12.447E-01	-8.956E-04	26.180E-08	15.7884	3457.85	-67.04	84	177	436
437	518.37	277.80	-124.22	121.12	-4.664	90.770E-02	-5.058E-04	10.953E-08	16.0129	3448.18	-76.09	83	187	437
438								19.0161	5539.90		-37.85	212	56	438
439	558.61	288.37	-249.83	33.24	-7.913	96.087E-02	-5.288E-04	11.309E-08	16.0114	3456.80	-78.67	57	203	439
440			-258.74	33.58	-70.372	12.322E-01	-8.646E-04	24.551E-08	15.7848	3305.20	-67.66	40	275	440
441					-58.833	12.313E-01	-8.834E-04	25.849E-08	15.7598	3371.05	-64.09	41	190	441
442	1481.80	380.00	-401.93	104.25	-62.341	12.447E-01	-8.956E-04	26.180E-08	15.8446	3172.92	-66.15	27	165	442
443	862.89	361.76	116.94	217.84	-14.570	89.472E-02	-3.921E-04	34.508E-09	15.9395	3389.43	-139.00	103	230	443
444	695.42	351.79	116.18	216.29	-64.820	93.868E-02	-6.942E-04	20.155E-08	16.2008	4206.70	-78.15	107	278	444
445	882.36	350.34	-209.63	78.25	-56.518	89.974E-02	-6.469E-04	18.401E-08	16.2758	4237.37	-74.75	104	275	445
446	617.57	318.65	-209.63	78.25	-17.367	86.751E-02	-4.610E-04	72.348E-09	16.3363	4158.47	-94.15	117	297	446
447	566.26	294.89	-144.86	129.54	-58.322	11.279E-01	-6.536E-04	14.729E-08	16.0140	3702.56	-81.55	78	234	447
448	605.50	305.01	-270.47	41.62	-5.385	10.027E-01	-5.602E-04	12.163E-08	16.0412	3597.72	-83.41	72	223	448
449					-8.395	10.538E-01	-5.799E-04	12.368E-08	16.0541	3614.07	-85.45	75	225	449
450					-64.623	88.509E-02	-5.853E-04	13.054E-08	16.3091	4470.92	-81.40	177	377	450

NO	FORMULA	COMPOUND NAME	MOLWT	TFP	TBP	TC	PC	VC	L DEN	T DEN	HVAP	NO
451	C12H10	DIPHENYL	154.212	69.2	255.2	789.0	38.5	0.502	990	74	45,636	451
452	C12H10O	DIPHENYL ETHER	170.211	26.8	258.0	766.0	31.4		1066	30	47,143	452
453	C12H24	N-HEPTYLCYCLOPENTANE	168.324		224.1	679.0	19.5				43,375	453
454	C12H24	1-DODECENE	168.324	-35.2	213.3	657.0	18.5				42,998	454
455	C12H26	N-DODECANE	170.340	-9.6	216.3	658.3	18.2	0.713	758	20	43,668	455
456	C12H26O	DIHEXYL ETHER	186.339	-43.2	226.4	637.0	18.2	0.720	794	20	45,636	456
457	C12H26O	DODECANOL	186.339	23.9	259.9	679.0	19.3	0.718	835	20		457
458	C12H27N	TRIBUTYLAMINE	185.355		213.4	643.0	18.2		779	20	44,380	458
459	C13H10	FLUORENE	166.223	114.0	297.9	822.3	29.9	0.534				459
460	C13H12	DIPHENYLMETHANE	168.239	26.8	264.3	767.0	29.8		1006	20		460
461	C13H26	N-OCTYLCYCLOPENTANE	182.351		243.7	694.0	17.9				45,427	461
462	C13H26	1-TRIDECENE	182.351	-23.1	232.7	674.0	17.0		766	20	45,008	462
463	C13H28	N-TRIDECANE	184.367	-5.4	235.4	675.8	17.2	0.780	756	20	45,678	463
464	C14H10	ANTHRACENE	178.234	216.5	341.2	883.0					56,522	464
465	C14H10	PHENANTHRENE	178.234	100.5	339.4	878.0					55,684	465
466	C14H28	N-NONYLCYCLOPENTANE	196.378		262.1	710.5	16.5				47,269	466
467	C14H28	1-TETRADECENE	196.378	-12.9	251.1	689.0	15.6		786	0	46,934	467
468	C14H30	N-TETRADECANE	198.394	5.8	253.5	694.0	16.2	0.830	763	20	47,646	468
469	C15H12	1-PHENYLINDENE	192.261		322.0	843.7	27.0	0.598				469
470	C15H14	2-ETHYLFLUORENE	194.277		309.0	811.1	24.6	0.629				470
471	C15H30	N-DECYLCYCLOPENTANE	210.405		279.3	723.8	15.2				49,027	471
472	C15H30	1-PENTADECENE	210.405	-3.8	268.3	704.0	14.6		791	0	48,692	472
473	C15H32	N-PENTADECANE	212.421	9.8	270.6	707.0	15.2	0.880	769	20	49,488	473
474	C16H10	FLUORANTHENE	202.256	110.0	393.0	936.6	26.0	0.660				474
475	C16H10	PYRENE	202.256	151.0	362.0	892.1	26.0	0.637				475
476	C16H12	N-PHENYLNAPHTHALENE	204.272		316.0	840.1	26.3	0.605				476
477	C16H22O4	DIBUTYL-O-PHTHALATE	278.350	-35.2	334.8				1047	20	79,131	477
478	C16H32	N-DECYLCYCLOHEXANE	224.432		297.6	750.0	13.6				50,409	478
479	C16H32	1-HEXADECENE	224.432	4.1	284.8	717.0	13.4		788	10	50,451	479
480	C16H32O2	PALMIC ACID	256.431	63.0	348.5	791.0	19.0	0.946	828	102	66,992	480
481	C16H34	N-HEXADECANE	226.448	17.8	286.8	717.0	14.2		773	20	51,246	481
482	C17H34	N-DODECYLCYCLOPENTANE	238.459		310.9	750.0	13.0				52,628	482
483	C17H36O	HEPTADECANOL	256.474	53.8	323.8	736.0	14.2		848	54	60,709	483
484	C17H36	N-HEPTADECANE	240.475	21.8	302.0	733.0	13.2	1.000	778	20	52,921	484
485	C18H12	CHRYSENE	228.294	255.0	448.0	993.6	23.9	0.736				485
486	C18H14	O-TERPHENYL	230.310	56.8	331.8	891.0	39.0	0.769				486
487	C18H14	M-TERPHENYL	230.310	86.8	364.8	924.8	35.1	0.784				487
488	C18H14	P-TERPHENYL	230.310	211.8	375.8	926.0	33.2	0.779				488
489	C18H34O2	OLEIC ACID	282.469	13.3	362.3	797.0	17.0	1.035	893	20	68,131	489
490	C18H36	1-OCTADECENE	252.486	17.6	314.8	739.0	11.3		789	20	54,303	490
491	C18H36	N-TRIDECYLCYCLOPENTANE	252.486		325.4	761.0	12.1				54,345	491
492	C18H38	STEARIC ACID	284.485	70.0	371.9	810.0	16.5	1.054	844	70	70,049	492
493	C18H38	N-OCTADECANE	254.502	28.1	316.3	743.0	12.1		777	28	54,512	493
494	C18H38O	1-OCTADECANOL	270.501	57.8	334.8	747.0	14.2		812	59		494
495	C19H38	N-TETRADECYLCYCLOPENTANE	266.513		325.8	772.0	11.2				56,019	495
496	C19H40	N-NONADECANE	268.529	31.8	329.9	756.0	11.1		789	32	56,061	496
497	C20H40	N-PENTADECYLCYCLOPENTANE	280.540		351.8	780.0	10.2				57,694	497
498	C20H42	N-EICOSANE	282.556	36.8	343.8	767.0	11.1		775	40	57,527	498
499	C20H42O	1-EICOSANOL	298.555	65.8	355.8	770.0	12.2				65,314	499
500	C21H42	N-HEXADECYLCYCLOPENTANE	294.567		363.8	791.0	9.7				59,369	500

NO	VISA	VISB	DELHF	DELGF	CPVAPA	CPVAPB	CPVAPC	CPVAPD	ANTA	ANTB	ANTC	TMN	TMX	NO
451	733.87	369.58	182.21	280.26	-97.067	11.057E-01	-8.855E-04	27.901E-08	16.6832	4602.23	-70.42	70	272	451
452	1146.00	379.29	49.99		-60.730	92.821E-02	-5.870E-04	13.586E-08	16.3459	4310.25	-87.31	145	325	452
453	654.77	333.12	-230.27	86.67	-59.264	12.234E-01	-7.084E-04	15.964E-08	16.0589	3850.38	-88.75	95	256	453
454	615.67	310.07	-165.46	138.00	-6.544	10.978E-01	-6.155E-04	13.410E-08	16.0610	3729.87	-90.88	88	244	454
455	631.63	318.78	-291.07	50.07	-9.328	11.489E-01	-6.347E-04	13.590E-08	16.1134	3774.56	-91.31	91	247	455
456	723.43	323.35		456	33.536	10.735E-01	-5.535E-04	16.777E-08	16.3372	3982.78	-89.15	100	272	456
457	1417.80	398.89	-443.13		9.224	11.032E-01	-5.338E-04	77.791E-09	15.2638	3242.04	-157.10	134	307	457
458	889.06	312.48		458	7.993	11.978E-01	-6.703E-04	14.486E-08	16.2878	3865.58	-86.15	89	258	458
459					-54.491	90.351E-02	-5.388E-04	92.570E-09	14.4856	6462.60	-13.40	207	407	459
460									18.2200	290.40	-167.90	200	290	460
461	695.83	346.19	-250.87	95.12	-59.951	13.167E-01	-7.612E-04	17.082E-08	16.0941	3983.01	-95.85	112	276	461
462	658.16	323.71	-186.10	146.37	-7.118	11.911E-01	-6.674E-04	14.511E-08	16.0850	3856.23	-97.94	104	264	462
463	664.10	332.10	-311.71	58.49	-10.463	12.452E-01	-6.912E-04	14.897E-08	16.1355	3892.91	-98.93	107	267	463
464	513.28	405.81	224.83		-58.979	10.057E-01	-6.594E-04	16.056E-08	16.1701	3892.44	-26.13	217	382	464
465			202.64		-58.979	10.057E-01	-6.594E-04	16.056E-08	16.1787	5477.94	-69.39	177	382	465
466	735.19	357.74	-271.51	103.50	-60.809	14.118E-01	-8.156E-04	18.347E-08	16.1089	4096.30	-103.00	127	296	466
467	697.49	336.13	-206.66	154.87	-7.967	12.858E-01	-7.210E-04	15.692E-08	16.1643	4018.01	-102.70	119	284	467
468	689.85	344.21	-332.35	66.86	-10.982	13.377E-01	-7.423E-04	15.981E-08	16.1480	4008.52	-105.40	121	287	468
469					-96.154	11.865E-01	-7.786E-04	17.650E-08	16.4170	4872.90	-97.30	227	427	469
470					-107.036	12.611E-01	-8.156E-04	17.928E-08	16.5199	4789.44	-97.90	207	407	470
471	771.74	368.30	-292.15	111.91	-61.923	13.077E-01	-8.717E-04	19.590E-08	16.1261	4203.94	-109.70	140	313	471
472	739.13	347.46	-227.39	163.16	-9.203	13.825E-01	-7.783E-04	17.028E-08	16.1539	4103.15	-110.60	133	301	472
473	718.51	355.92	-352.99	75.28	-11.916	14.327E-01	-7.972E-04	17.199E-08	16.1724	4121.51	-111.80	135	304	473
474					-80.706	11.715E-01	-7.938E-04	18.600E-08	16.4523	5438.77	-112.40	287	487	474
475					-94.379	11.916E-01	-7.930E-04	17.559E-08	16.4842	5203.08	-107.20	257	477	475
476					-99.516	11.639E-01	-6.113E-04	60.612E-09	16.9691	5351.04	-81.70	227	427	476
477	2588.10	336.24			1.880	12.539E-01	-6.121E-04	69.710E-09	16.9539	4852.47	-138.10	196	384	477
478	925.84	378.69			-69.015	16.542E-01	-9.613E-04	21.428E-08	16.1627	4373.37	-111.80	190	300	478
479	767.48	357.85	-247.98	171.62	-9.705	14.750E-01	-8.298E-04	18.104E-08	16.2203	4245.00	-115.20	147	319	479
480			-723.06						18.9558	7049.18	-55.08	353	153	480
481	738.30	366.11	-373.59	83.74	-13.017	15.290E-01	-8.537E-04	18.497E-08	16.1841	4214.91	-118.70	150	321	481
482	853.53	385.53	-336.12	126.02	-63.263	16.952E-01	-9.768E-04	21.855E-08	16.1915	4395.87	-124.20	168	346	482
483			-546.25	-44.67	-7.792	16.529E-01	-9.345E-04	20.436E-08	15.6161	3672.62	-188.10	191	383	483
484	757.88	375.90	-394.19	92.15	-13.967	16.241E-01	-9.081E-04	19.720E-08	16.1510	4294.55	-124.00	161	337	484
485					-115.757	13.415E-01	-8.311E-04	15.412E-08	16.6038	5915.26	-128.10	377	577	485
486	1094.10	461.27							18.9558	7049.18	-55.08	353	153	486
487	940.58	460.94							16.1841	4214.91	-118.70	150	321	487
488	911.01	461.10							16.1915	4395.87	-124.20	168	346	488
489			-646.02						18.2445	5884.49	-127.26	360	176	489
490	816.19	376.93	-289.22	188.45	-11.329	16.643E-01	-9.374E-04	20.486E-08	16.2221	4416.13	-127.30	171	350	490
491	891.80	392.78	-353.99	137.08	-64.209	17.903E-01	-1.032E-03	23.094E-08	16.2270	4483.13	-131.30	180	361	491
492			-764.51						19.8034	7709.35	-57.83	370	174	492
493	777.40	385.00	-414.83	100.57	-14.470	17.170E-01	-9.592E-04	20.783E-08	16.1232	4361.79	-129.90	172	352	493
494			-566.85	-36.22	-8.704	17.476E-01	-8.524E-04	21.573E-08	15.6898	3757.82	-193.10	201	385	494
495	924.60	399.62	-374.63	145.58	-64.929	18.845E-01	-1.085E-03	24.258E-08	16.2632	4439.38	-138.10	192	375	495
496	793.62	393.54	-108.98	108.98	-15.491	18.125E-01	-1.015E-03	22.052E-08	16.1533	4450.44	-135.60	183	366	496
497	950.57	406.33	-395.28	153.99	-66.093	19.804E-01	-1.140E-03	25.498E-08	16.3092	4642.01	-145.10	203	388	497
498	811.29	401.67	-456.07	117.40	-22.383	19.393E-01	-1.171E-03	25.284E-08	16.4685	4680.46	-141.10	198	379	498
499			-608.13	-19.43	-12.581	19.498E-01	-1.118E-03	25.158E-08	15.8233	3912.10	-203.10	219	406	499
500	977.42	412.29	-415.87	162.41	-66.683	20.741E-01	-1.237E-03	26.682E-08	16.3553	4715.69	-152.10	215	401	500