Appendix

A

Property Data Bank

The listing of compounds is by the total carbon number. Within each carbon number class, subgroups are indexed by the number of hydrogens and, further, by additional atoms in alphabetical order.

The symbols and equations used are shown below. The enthalpy and Gibbs energy of formation at 298.2 K (DELHF and DELGF) are for the *ideal-gas state*. The reference states chosen for the elements are as follows:

Ideal gases at one atmosphere: Ar, Cl_2, D_2, F_2, He, H_2, Kr, Ne, O_2, Rn, T_2, and Xe. Al (crystal); As (crystal); B (crystal); Br_2 (liquid); C (graphite); Hg (liquid); I_2 (crystal); P (solid, red); S (crystal, rhombic); Se (crystal); Si (crystal); Ti (crystal, alpha); U (crystal).

MolWt = molecular weight, g/mol
Tfp = normal freezing point, K
Tb = normal boiling point (at 1 atm), K
Tc = critical temperature, K
Pc = critical pressure, bar
Vc = critical volume, cm^3/mole
Zc = critical compressibility factor, PcVc/RTc
Omega = Pitzer's acentric factor
Dipm = dipole moment, debyes

CPVAP A, CPVAP B, CPVAP C, CPVAP D = constants to calculate the isobaric heat capacity of the ideal gas, with Cp in J/(mol·K) and T in kelvins:

$$Cp = \text{CPVAP A} + (\text{CPVAP B})T + (\text{CPVAP C})T^2 + (\text{CPVAP D})T^3$$

DELHF = standard enthalpy of formation for the ideal gas at 298.2 K, J/ mol
(See note above on reference states.)
DELGF = standard Gibbs energy of formation for the ideal gas at 298.2 K and 1 atm, J/ mol
(See note above on reference states.)

Vapor pressure: Pvp = vapor pressure, in bars
Pc = critical pressure, in bars
Tc = critical temperature, in kelvins
T = temperature, in kelvins

There is a choice of equations as noted in the tables:

Equation (1):

$$\ln(Pvp/Pc) = (1 - x)^{-1}[(\text{VP A})x + (\text{VP B})x^{1.5} + (\text{VP C})x^3 + (\text{VP D})x^6]$$

$$x = 1 - T/Tc$$

Equation (2):

$$\ln Pvp = \text{VP A} - (\text{VP B})/T + (\text{VP C})\ln T + (\text{VP D})(Pvp)/T^2$$

Equation (3):

$$\ln Pvp = \text{VP A} - (\text{VP B})/[T + (\text{VP C})]$$

LDEN = liquid density, g/cm^3
TDEN = temperature for LDEN, K

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mole	Zc	Omega	Dipm debye
1	AlBr3	aluminum tribromide	266.694	370.7	528.	763.	28.9	310.	0.141	0.399	5.0
2	AlCl3	aluminum trichloride	133.341	467.	453.	620.	26.3	259.	0.132	0.660	2.0
3	AlI3	aluminum triiodide	407.697	464.	655.	983.		408.			2.3
4	Ar	argon	39.948	83.8	87.3	150.8	48.7	74.9	0.291	0.001	0.0
5	As	arsenic	74.922		888.	1673.	223.	34.9	0.056	0.121	
6	AsCl3	arsenic trichloride	181.281	264.7	403.	654.		252.			1.6
7	BBr3	boron tribromide	250.568	227.	364.	581.		272.			0.0
8	BCl3	boron trichloride	117.191	165.9	285.8	455.	38.7	239.5	0.245	0.140	0.0
9	BF3	boron trifluoride	67.805	146.5	172.	260.8	49.9	114.7	0.264	0.393	0.0
10	BI3	boron triiodide	391.55	323.1	483.	773.		356.			
11	Br2	bromine	159.808	266.0	331.9	588.	103.	127.2	0.268	0.108	0.2
12	BrI	iodine bromide	206.813	315.	389.	719.		139.			1.2
13	Br3P	phosphorus tribromide	270.723	233.	446.1	711.		300.			0.5
14	Br4Si	silicon tetrabromide	347.702	278.6	427.	663.		382.			0.0
15	Br4Ti	titanium tetrabromide	367.536	312.	503.	795.7		391.			
16	ClFO3	perchloryl fluoride	102.448	125.5	226.4	368.4	53.7	160.8	0.282	0.170	0.0
17	ClF2N	nitrogen chloride difluoride	87.456		207.	337.5	51.5			0.154	
18	ClF2P	phosphorus chloride difluoride	104.423		225.9	362.4	45.2			0.164	
19	ClF2PS	thiophosphoryl chloride difluoride	136.489		279.	439.2	41.4			0.202	
20	ClF5	chlorine pentafluoride	130.443		260.0	416.	52.7	233.	0.355	0.216	
21	ClNO	nitrosyl chloride	65.459	213.5	267.7	440.					1.8
22	Cl2	chlorine	70.906	172.2	239.2	416.9	79.8	123.8	0.285	0.090	0.0
23	Cl2FP	phosphorus dichloride fluoride	120.878		287.0	463.0	49.6			0.174	
24	Cl3P	phosphorus trichloride	137.333	161.	349.1	563.		264.			0.9
25	Cl4Si	silicon tetrachloride	169.898	204.3	330.8	508.1	35.9	325.7	0.277	0.232	0.0

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
1	AlBr3	aluminum tribromide	6.494E+1	6.098E-2	-7.306E-5	2.978E-8	-4.233E+5	-4.522E+5
2	AlCl3	aluminum trichloride	5.054E+1	1.037E-1	-1.202E-4	4.793E-8	-5.849E+5	-5.704E+5
3	AlI3	aluminum triiodide	6.270E+1	6.802E-2	-8.113E-5	3.298E-8	-2.052E+5	-2.531E+5
4	Ar	argon	2.080E+1				0.0	0.0
5	As	arsenic						
6	AsCl3	arsenic trichloride						
7	BBr3	boron tribromide	4.331E+1	1.160E-1	-1.267E-4	4.849E-8	-2.043E+5	-2.312E+5
8	BCl3	boron trichloride	3.261E+1	1.390E-1	-1.461E-4	5.439E-8	-4.032E+5	-3.882E+5
9	BF3	boron trifluoride	1.858E+1	1.399E-1	-1.217E-4	3.916E-8	-1.136E+6	-1.120E+6
10	BI3	boron triiodide	4.937E+1	1.028E-1	-1.159E-4	4.529E-8	7.118E+4	2.089E+4
11	Br2	bromine	3.386E+1	1.125E-2	-1.192E-5	4.534E-9	3.093E+4	3.136E+3
12	BrI	iodine bromide	3.402E+1	1.229E-2	-1.420E-5	5.847E-9	4.091E+5	3.714E+3
13	Br3P	phosphorus tribromide	6.102E+1	7.421E-2	-8.899E-5	3.631E-8	-1.285E+5	-1.575E+5
14	Br4Si	silicon tetrabromide	7.466E+1	1.097E-1	-1.298E-4	5.246E-8	-4.159E+5	-4.324E+5
15	Br4Ti	titanium tetrabromide	8.499E+1	7.785E-2	-9.361E-5	3.826E-8	-5.506E+5	-5.695E+5
16	ClFO3	perchloryl fluoride	1.245E+1	2.390E-1	-2.346E-4	8.321E-8	-2.144E+4	5.062E+4
17	ClF2N	nitrogen chloride difluoride						
18	ClF2P	phosphorus chloride difluoride						
19	ClF2PS	thiophosphoryl chloride difluoride						
20	ClF5	chlorine pentafluoride	3.098E+1	3.203E-1	-3.685E-4	1.462E-7	-2.386E+5	-1.469E+5
21	ClNO	nitrosyl chloride	3.410E+1	4.472E-2	-3.340E-5	1.015E-8	5.263E+4	6.699E+4
22	Cl2	chlorine	2.693E+1	3.384E-2	-3.869E-5	1.547E-8	0.0	0.0
23	Cl2FP	phosphorus dichloride fluoride						
24	Cl3P	phosphorus trichloride	4.849E+1	1.131E-1	-1.334E-4	5.380E-8	-2.713E+5	-2.577E+5
25	Cl4Si	silicon tetrachloride	5.658E+1	1.636E-1	-1.897E-4	7.565E-8	-6.577E+5	-6.178E+5

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
1	AlBr3	aluminum tribromide									
2	AlCl3	aluminum trichloride								1.31	473
3	AlI3	aluminum triiodide									
4	Ar	argon	1	-5.90501	1.12627	-0.76787	-1.62721	84	TC	1.373	90
5	As	arsenic									
6	AsCl3	arsenic trichloride								2.163	293
7	BBr3	boron tribromide								2.643	291
8	BCl3	boron trichloride	2	46.103	4443.16	-5.404	2228.	230	TC	1.349	284
9	BF3	boron trifluoride	2	61.138	3481.19	-7.963	576.	160	TC	2.811	293
10	BI3	boron triiodide								3.35	323
11	Br2	bromine	3	9.2239	2582.32	-51.56		259	354	3.119	293
12	BrI	iodine bromide									
13	Br3P	phosphorous tribromide								2.852	288
14	Br4Si	silicon tetrabromide								2.772	298
15	Br4Ti	titanium tetrabromide									
16	ClFO3	perchloryl fluoride								2.003	399
17	ClF2N	nitrogen chloride difluoride									
18	ClF2P	phosphorous chloride difluoride									
19	ClF2PS	thiophosphoryl chloride difluoride									
20	ClF5	chlorine pentafluoride									
21	ClNO	nitrosyl chloride	2	29.760	3748.59	-2.819	900.	230	TC	1.42	261
22	Cl2	chlorine	1	-6.34074	1.15037	-1.40416	-2.23220	206	TC	1.563	239
23	Cl2FP	phosphorous dichloride fluoride									
24	Cl3 P	phosphorus trichloride								1.574	294
25	Cl4Si	silicon tetrachloride	3	9.1817	2634.16	-43.15		238	364	1.48	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
26	Cl4Ti	titanium tetrachloride	189.712	243.	409.6	638.	46.6	339.2	0.298	0.268	0.0
27	Cl5P	phosphorus pentachloride	208.260	148.	433.	646.					0.8
28	D2	deuterium (equilibrium)	4.032	18.7	23.6	38.2	16.5	60.3	0.313	-0.137	0.0
29	D2	deuterium (normal)	4.032	18.6	23.5	38.4	16.6			-0.160	0.0
30	D2O	deuterium oxide	20.031	277.0	374.6	644.0	216.6	56.6	0.225	0.351	1.9
31	FNO2	nitryl fluoride	65.003		213.2	349.5					0.5
32	F2	fluorine	37.997	53.5	85.0	144.3	52.2	66.3	0.288	0.054	0.0
33	F2N2	cis-difluorodiazine	66.010		167.5	272.	70.9			0.252	
34	F2N2	trans-difluorodiazine	66.010		161.7	260.	55.7			0.217	
35	F2O	oxygen difluoride	53.995	50.	128.4	215.	49.6				0.2
36	F2Xe	xenon difluoride	169.296		387.5	631.	93.2	148.6	0.264	0.317	
37	F3N	nitrogen trifluoride	71.002	66.4	144.4	234.0	45.3			0.135	0.2
38	F3NO	trifluoroamine oxide	87.001		186.	303.	64.3	146.9	0.375	0.212	
39	F3P	phosphorus trifluoride	87.968		178.	271.2	43.3			0.326	
40	F3PS	thiophosphoryl trifluoride	120.034		220.9	346.0	38.2			0.187	0.6
41	F4N2	tetrafluorohydrazine	104.016	105.	199.	309.	37.5			0.206	0.3
42	F4S	sulfur tetrafluoride	108.058	152.	232.7	364.					1.0
43	F4Si	silicon tetrafluoride	104.09	183.0	187.	259.0	37.2			0.753	0.0
44	F4Xe	xenon tetrafluoride	207.292	387.	388.9	612.	70.4	188.6	0.261	0.357	
45	F6S	sulfur hexafluoride	146.054	222.5	209.6	318.7	37.6	198.8	0.282	0.286	0.0
46	F6U	uranium hexafluoride	352.018	337.	329.	505.8	46.6	250.0	0.277	0.318	0.0
47	He	helium-3	3.017		3.19	3.31	1.14	72.9	0.302	-0.473	0.0
48	He	helium-4	4.003		4.25	5.19	2.27	57.4	0.302	-0.365	0.0
49	Hg	mercury	200.61	234.3	630.	1765.	1510.	42.7	0.439	-0.167	
50	I2	iodine	253.82	386.8	457.5	819.		155.			1.3

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
26	Cl4Ti	titanium tetrachloride	7.064E+1	1.224E-1	-1.443E-4	5.819E-8	-7.637E+5	-7.272E+5
27	Cl5P	phosphorus pentachloride	6.946E+1	2.079E-1	-2.455E-4	9.914E-8	-3.429E+5	-2.785E+5
28	D2	deuterium (equilibrium)	3.025E+1	-6.615E-3	1.170E-5	-3.684E-9	0.0	0.0
29	D2	deuterium (normal)					0.0	0.0
30	D2O	deuterium oxide	3.182E+1	3.045E-3	2.033E-5	-9.737E-9	-2.494E+5	-2.348E+5
31	FNO2	nitryl fluoride	1.778E+1	1.416E-1	-1.254E-4	4.140E-8	-1.089E+5	-6.649E+4
32	F2	fluorine	2.322E+1	3.657E-2	-3.613E-5	1.204E-8	0.0	0.0
33	F2N2	cis-difluorodiazine	1.121E+1	1.754E-1	-1.688E-4	5.898E-8	6.866E+4	1.088E+5
34	F2N2	trans-difluorodiazine	2.254E+1	1.377E-1	-1.258E-4	4.232E-8	8.122E+4	1.205E+5
35	F2O	oxygen difluoride	2.207E+1	9.875E-2	-1.028E-4	3.796E-8	2.453E+4	4.178E+4
36	F2Xe	xenon difluoride						
37	F3N	nitrogen trifluoride	1.141E+1	1.948E-1	-2.023E-4	7.454E-8	-1.316E+5	-9.010E+4
38	F3NO	trifluoroamine oxide	1.513E+1	2.446E-1	-2.528E-4	9.375E-8	-1.633E+5	-9.646E+4
39	F3P	phosphorus trifluoride	2.179E+1	1.733E-1	-1.852E-4	6.974E-8	-9.378E+5	-9.253E+5
40	F3PS	thiophosphoryl trifluoride	2.492E+1	2.326E-1	-2.472E-4	9.275E-8	-9.923E+5	-9.743E+5
41	F4N2	tetrafluorohydrazine	3.553E+0	3.509E-1	-3.637E-4	1.338E-7	-8.374E+3	7.988E+4
42	F4S	sulfur tetrafluoride	2.542E+1	2.420E-1	-2.653E-4	1.017E-7	-7.813E+5	-7.406E+5
43	F4Si	silicon tetrafluoride	2.678E+1	2.157E-1	-2.204E-4	8.031E-8	-1.616E+6	-1.574E+6
44	F4Xe	xenon tetrafluoride					-1.876E+5	
45	F6S	sulfur hexafluoride	-6.599E-1	4.639E-1	-5.089E-4	1.953E-7	-1.222E+6	-1.118E+6
46	F6U	uranium hexafluoride					-2.139E+6	-2.060E+6
47	He	helium-3	2.080E+1				0.0	0.0
48	He	helium-4	2.080E+1				0.0	0.0
49	Hg	mercury	2.080E+1				6.134E+4	3.186E+4
50	I2	iodine	3.559E+1	6.515E-3	-6.988E-6	2.834E-9	6.247E+4	1.938E+4

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
26	Cl4Ti	titanium tetrachloride								1.70	298
27	Cl5P	phosphorous pentachloride									
28	D2	deuterium (equilibrium)	3	6.6752	157.89	0.0		19	25	0.165	22.7
29	D2	deuterium (normal)									
30	D2O	deuterium oxide								1.105	298
31	FNO2	nitryl fluoride									
32	F2	fluorine	1	-6.18224	1.18062	-1.16555	-1.50167	64	TC	1.51	85
33	F2N2	cis-difluorodiazine									
34	F2N2	trans-difluorodiazine									
35	F2O	oxygen difluoride								1.521	128
36	F2Xe	xenon difluoride									
37	F3N	nitrogen trifluoride	2	32.599	1970.37	-3.81	509.	130	TC	1.54	144
38	F3NO	fluoroamine oxide									
39	F3P	phosphorous trifluoride								3.1	172
40	F3PS	thiophosphoryl trifluoride									
41	F4N2	tetrafluorohydrazine								1.5	163
42	F4S	sulfur tetrafluoride	3	7.4561	1218.59	-73.24		161	224	1.936	195
43	F4Si	silicon tetrafluoride									
44	F4Xe	xenon tetrafluoride									
45	F6S	sulfur hexafluoride	3	12.7583	2524.78	-11.16		159	220	1.83	223
46	F6U	uranium hexafluoride									
47	He	helium-3									
48	He	helium-4	1	-3.97466	1.00074	1.50056	-0.43020	2	TC	0.123	4.3
49	Hg	mercury								13.594	293
50	I2	iodine	3	9.5395	3709.23	-68.16		383	487	3.74	453

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
51	I4Si	silicon tetraiodide	535.706	393.7	560.5	944.		558.			
52	I4Ti	titanium tetraiodide	555.520	423.	650.	1040.		505.			
53	Kr	krypton	83.800	115.8	119.9	209.4	55.0	91.2	0.288	0.005	0.0
54	NO	nitric oxide	30.006	109.5	121.4	180.	64.8	57.7	0.250	0.588	0.2
55	NO2	nitrogen dioxide	46.006	261.9	294.3	431.	101.	167.8	0.473	0.834	0.4
56	N2	nitrogen	28.013	63.3	77.4	126.2	33.9	89.8	0.290	0.039	0.0
57	N2O	nitrous oxide	44.013	182.3	184.7	309.6	72.4	97.4	0.274	0.165	0.2
58	Ne	neon	20.183	24.5	27.1	44.4	27.6	41.6	0.311	-0.029	0.0
59	O2	oxygen	31.999	54.4	90.2	154.6	50.4	73.4	0.288	0.025	0.0
60	O2S	sulfur dioxide	64.063	197.7	263.2	430.8	78.8	122.2	0.269	0.256	1.6
61	O3	ozone	47.998	80.5	181.2	261.1	55.7	88.9	0.228	0.691	0.6
62	O3S	sulfur trioxide	80.058	290.	318.	491.0	82.1	127.3	0.256	0.481	0.0
63	P	phosphorous	30.974		553.	994.					
64	Rn	radon	222.00	202.	211.4	377.	62.8			-0.008	
65	S	sulfur	32.066		717.8	1314.	207.			0.171	
66	Se	selenium	78.96		1010.	1766.	272.			0.346	
67	T2	tritium	6.32		25.0	40.0		58.			0.0
68	Xe	xenon	131.300	161.3	165.0	289.7	58.4	118.4	0.287	0.008	0.0
69	HBr	hydrogen bromide	80.912	187.1	206.8	363.2	85.5			0.088	0.8
70	HCl	hydrogen chloride	36.461	159.0	188.1	324.7	83.1	80.9	0.249	0.133	1.1
71	HD	hydrogen deuteride	3.023	16.6	22.1	36.0	14.8	62.7	0.310	-0.179	0.0
72	HF	hydrogen fluoride	20.006	190.	293.	461.	64.8	69.2	0.117	0.329	1.9
73	HI	hydrogen iodide	127.912	222.4	237.6	424.0	83.1			0.049	0.5
74	HF2N	difluoroamine	53.011		250.	403.					
75	H2	hydrogen (equilibrium)	2.016	14.0	20.3	33.0	12.9	64.3	0.303	-0.216	0.0

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
51	I4Si	silicon tetraiodide	8.479E+1	7.800E-2	-9.340E-5	3.806E-8	-1.105E+5	-1.598E+5
52	I4Ti	titanium tetraiodide	9.575E+1	4.253E-2	-5.179E-5	2.135E-8	-2.775E+5	-3.282E+5
53	Kr	krypton	2.080E+1				0.0	0.0
54	NO	nitric oxide	2.935E+1	-9.378E-4	9.747E-6	-4.187E-9	9.043E+4	8.675E+4
55	NO2	nitrogen dioxide	2.423E+1	4.836E-2	-2.081E-5	0.293E-9	3.387E+4	5.200E+4
56	N2	nitrogen	3.115E+1	-1.357E-2	2.680E-5	-1.168E-8	0.0	0.0
57	N2O	nitrous oxide	2.162E+1	7.281E-2	-5.778E-5	1.830E-8	8.160E+4	1.037E+5
58	Ne	neon	2.080E+1				0.0	0.0
59	O2	oxygen	2.811E+1	-3.680E-6	1.746E-5	-1.065E-8	0.0	0.0
60	O2S	sulfur dioxide	2.385E+1	6.699E-2	-4.961E-5	1.328E-8	-2.971E+5	-3.004E+5
61	O3	ozone	2.054E+1	8.009E-2	-6.243E-5	1.697E-8	1.428E+5	1.629E+5
62	O3S	sulfur trioxide	1.921E+1	1.374E-1	-1.176E-4	3.700E-8	-3.960E+5	-3.713E+5
63	P	phosphorous	2.080E+1				3.341E+5	2.922E+5
64	Rn	radon	2.080E+1				0.0	0.0
65	S	sulfur					2.792E+5	2.386E+5
66	Se	selenium						
67	T2	tritium						
68	Xe	xenon	2.080E+1				0.0	0.0
69	HBr	hydrogen bromide	3.065E+1	-9.462E-3	1.722E-5	-6.238E-9	-3.626E+4	-5.330E+4
70	HCl	hydrogen chloride	3.067E+1	-7.201E-3	1.246E-5	-3.898E-9	-9.236E+4	-9.533E+4
71	HD	hydrogen deuteride	2.947E+1	-1.329E-3	1.311E-6	1.279E-9	3.220E+2	-1.465E+3
72	HF	hydrogen fluoride	2.906E+1	6.611E-4	-2.032E-6	2.504E-9	-2.713E+5	-2.734E+5
73	HI	hydrogen iodide	3.116E+1	-1.428E-2	2.972E-5	-1.353E-8	2.638E+4	1.591E+3
74	HF2N	difluoroamine						
75	H2	hydrogen (equilibrium)	2.714E+1	9.274E-3	-1.381E-5	7.645E-9	0.0	0.0

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
51	I4Si	silicon tetraiodide									
52	I4Ti	titanium tetraiodide									
53	Kr	krypton	2	24.097	1408.77	-2.579	336.	115	TC	2.42	120
54	NO	nitric oxide	2	54.894	2465.78	-7.211	209.	115	TC	1.28	121
55	NO2	nitrogen dioxide	2	55.242	6073.34	-6.094	780.	270	TC	1.45	293
56	N2	nitrogen	1	-6.09676	1.13670	-1.04072	-1.93306	63	TC	0.804	78
57	N2O	nitrous oxide	2	39.824	2867.98	-4.655	557.	190	TC	1.226	184
58	Ne	neon	1	-6.07686	1.59402	-1.06092	4.06656	25	TC	1.204	27
59	O2	oxygen	1	-6.28275	1.73619	-1.81349	-2.53645E-2	54	TC	1.149	90
60	O2S	sulfur dioxide	2	48.882	4552.50	-5.666	990.	235	TC	1.455	263
61	O3	ozone	3	9.1225	1272.18	-22.16		109	174	1.356	161
62	O3S	sulfur trioxide	2	132.94	10420.1	-17.38	1200.	300	TC	1.78	318
63	P	phosphorous									
64	Rn	radon								4.4	211
65	S	sulfur									
66	Se	selenium									
67	T2	tritium									
68	Xe	xenon	2	24.809	1951.76	-2.544	603.	170	TC	3.06	165
69	HBr	hydrogen bromide	2	21.482	2394.35	-1.843	653.	200	TC	2.16	216
70	HCl	hydrogen chloride	2	31.994	2626.67	-3.443	538.	180	TC	1.193	188
71	HD	hydrogen deuteride									
72	HF	hydrogen fluoride	1	-9.74369	4.68946	-2.98358	9.65825	273	TC	0.967	293
73	HI	hydrogen iodide	2	27.264	3013.08	-2.673	923.	235	TC	2.80	237
74	HF2N	difluoroamine									
75	H2	hydrogen (equilibrium)	1	-5.57929	2.60012	-0.85506	1.70503	14	TC	0.071	20

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
76	H2	hydrogen (normal)	2.016	14.0	20.4	33.2	13.0	65.1	0.306	−0.218	0.0
77	H2O	water	18.015	273.2	373.2	647.3	221.2	57.1	0.235	0.344	1.8
78	H2S	hydrogen sulfide	34.080	189.6	213.5	373.2	89.4	98.6	0.284	0.097	0.9
79	H3As	arsine	77.946	159.7	218.	373.1					0.2
80	H3N	ammonia	17.031	195.4	239.8	405.5	113.5	72.5	0.244	0.250	1.5
81	H3P	phosphine	33.998	140.	185.4	324.5	65.4			0.038	0.6
82	H4ClN	ammonium chloride	53.492		793.	882.	16.4			3.92	
83	H4ClP	phosphonium chloride	70.459		246.	322.3	73.7			1.64	
84	H4N2	hydrazine	32.045	274.7	386.7	653.	147.			0.316	3.0
85	H4Si	silane	32.122	88.2	161.	269.7	48.4			0.068	0.0
86	H6B2	diborane	27.668	108.	185.6	289.8	40.5			0.217	0.0
87	CBrClF2	bromochlorodifluoromethane	165.364		269.	426.9	42.5	245.5	0.294	0.184	
88	CBr2F2	dibromodifluoromethane	209.815	132.	298.	471.3	41.3				0.7
89	CBrF3	trifluorobromomethane	148.910		215.3	340.2	39.7	195.9	0.275	0.171	0.7
90	CClF3	chlorotrifluoromethane	104.459	92.0	193.2	302.0	38.7	180.4	0.278	0.198	0.5
91	CCl2F2	dichlorodifluoromethane	120.914	115.4	245.2	385.0	41.4	216.7	0.280	0.204	0.5
92	CCl2O	phosgene	98.916	145.0	281.	455.	56.7	190.1	0.285	0.205	1.1
93	CCl3F	trichlorofluoromethane	137.368	162.0	296.9	471.2	44.1	247.8	0.279	0.189	0.5
94	CCl4	carbon tetrachloride	153.823	250.	349.9	556.4	45.6	275.9	0.272	0.193	0.0
95	CD4	deuteromethane	20.071		111.7	189.2	46.6	98.2	0.291	0.032	0.0
96	CF4	carbon tetrafluoride	88.005	86.4	145.1	227.6	37.4	139.6	0.276	0.177	0.0
97	CO	carbon monoxide	28.010	68.1	81.7	132.9	35.0	93.2	0.295	0.066	0.1
98	COS	carbonyl sulfide	60.070	134.3	223.	378.8	63.5	136.3	0.275	0.105	0.7
99	CO2	carbon dioxide	44.010	216.6		304.1	73.8	93.9	0.274	0.239	0.0
100	CS2	carbon disulfide	76.131	161.3	319.	552.	79.0	160.	0.276	0.109	0.0

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
76	H2	hydrogen (normal)						
77	H2O	water	3.224E+1	1.924E-3	1.055E-5	-3.596E-9	-2.420E+5	-2.288E+5
78	H2S	hydrogen sulfide	3.194E+1	1.436E-3	2.432E-5	-1.176E-8	-2.018E+4	-3.308E+4
79	H3As	arsine					1.825E+5	1.578E+5
80	H3N	ammonia	2.731E+1	2.383E-2	1.707E-5	-1.185E-8	-4.572E+4	-1.616E+4
81	H_3P	phosphine	2.323E+1	4.401E-2	1.303E-5	-1.593E-8	2.290E+4	2.541E+4
82	H4ClN	ammonium chloride						
83	H4ClP	phosphonium chloride						
84	H4N2	hydrazine	9.768E+0	1.895E-1	-1.657E-4	6.025E-8	9.525E+4	1.586E+5
85	H4Si	silane	1.118E+1	1.220E-1	-5.548E-5	6.840E-9	3.266E+4	5.518E+4
86	H6B2	diborane					3.140E+4	8.332E+4
87	CBrClF2	bromochlorodifluoromethane						
88	CBr2F2	dibromodifluoromethane						
89	CBrF3	trifluorobromomethane	2.188E+1	2.159E-1	-2.114E-4	7.464E-8	-6.494E+5	-6.975E+5
90	CClF3	chlorotrifluoromethane	2.281E+1	1.911E-1	-1.576E-4	4.459E-8	-6.950E+5	-6.544E+5
91	CCl2F2	dichlorodifluoromethane	3.160E+1	1.782E-1	-1.509E-4	4.342E-8	-4.815E+5	-4.425E+5
92	CCl2O	phosgene	2.809E+1	1.361E-1	-1.374E-4	5.070E-8	-2.211E+5	-2.069E+5
93	CCl3F	trichlorofluoromethane	4.098E+1	1.668E-1	-1.416E-4	4.146E-8	-2.847E+5	-2.455E+5
94	CCl4	carbon tetrachloride	4.072E+1	2.049E-1	-2.270E-4	8.843E-8	-1.005E+5	-5.828E+4
95	CD4	deuteromethane	1.249E+1	1.010E-1	-2.199E-5	-8.458E-9	-8.830E+4	-5.954E+4
96	CF4	carbon tetrafluoride	1.398E+1	2.026E-1	-1.625E-4	4.513E-8	-9.337E+5	-8.890E+5
97	CO	carbon monoxide	3.087E+1	-1.285E-2	2.789E-5	-1.272E-8	-1.106E+5	-1.374E+5
98	COS	carbonyl sulfide	2.357E+1	7.984E-2	-7.017E-5	2.453E-8	-1.385E+5	-1.658E+5
99	CO2	carbon dioxide	1.980E+1	7.344E-2	-5.602E-5	1.715E-8	-3.938E+5	-3.946E+5
100	CS2	carbon disulfide	2.744E+1	8.127E-2	-7.666E-5	2.673E-8	1.171E+5	6.695E+4

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
76	H2	hydrogen (normal)									
77	H2O	water	1	-7.76451	1.45838	-2.77580	-1.23303	275	TC	0.998	293
78	H2S	hydrogen sulfide	2	36.067	3132.31	-3.985	653.	205	TC	0.993	214
79	H3As	arsine								1.604	209
80	H3N	ammonia	2	45.327	4104.67	-5.146	615.	220	TC	0.639	273
81	H3P	phosphine								1.529	298
82	H4ClN	ammonium chloride									
83	H4ClP	phosphonium chloride									
84	H4N2	hydrazine	2	49.476	6951.84	-5.286	1222.	350	TC	1.008	293
85	H4Si	silane								0.68	88
86	H6B2	diborane	3	8.0390	1200.78	-31.22		118	181	0.470	153
87	CBrClF2	bromochlorodifluoromethane	3	9.1295	2154.39	-32.87		178	283		
88	CBr2F2	dibromodifluoromethane	3	9.8485	2720.78	-19.35		247	296	2.462	288
89	CBrF3	trifluorobromomethane								1.538	298
90	CClF3	chlorotrifluoromethane	1	-6.78845	1.24435	-2.32601	1.45543	233	TC	1.298	243
91	CCl2F2	dichlorodifluoromethane	1	-7.01657	1.73224	-2.97909	-0.37723	155	TC	1.750	158
92	CCl2O	phosgene	1	-7.08177	1.60461	-2.57153	-1.88377	216	TC	1.381	293
93	CCl3F	trichlorofluoromethane	2	42.089	4464.14	-4.753	2138.	260	TC	1.494	290
94	CCl4	carbon tetrachloride	1	-7.07139	1.71497	-2.89930	-2.49466	250	TC	1.584	298
95	CD4	deuteromethane									
96	CF4	carbon tetrafluoride	3	9.4341	1244.55	-13.06		93	148	1.33	193
97	CO	carbon monoxide	1	-6.20798	1.27885	-1.34533	-2.56842	71	TC	0.803	81
98	COS	carbonyl sulfide	1	-6.40952	1.21015	-1.54976	-2.10074	162	TC	1.274	174
99	CO2	carbon dioxide	1	-6.95626	1.19695	-3.12614	2.99448	217	TC		
100	CS2	carbon disulfide	1	-6.63896	1.20395	-0.37653	-4.32820	277	TC	1.293	273

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
101	CHClF2	chlorodifluoromethane	86.469	113.	232.4	369.3	49.7	165.6	0.268	0.221	1.4
102	CHCl2F	dichloromonofluoromethane	102.923	138.	282.1	451.6	51.8	196.4	0.271	0.210	1.3
103	CHCl3	chloroform	119.378	209.6	334.3	536.4	53.7	238.9	0.293	0.218	1.1
104	CHF3	fluoroform	70.013	110.	191.0	299.3	48.6	132.7	0.259	0.260	1.6
105	CHN	hydrogen cyanide	27.026	259.9	298.9	456.7	53.9	138.8	0.197	0.388	3.0
106	CH2Br2	dibromomethane	173.835	220.6	370.	583.	71.				1.9
107	CH2Cl2	dichloromethane	84.933	178.1	313.0	510.	63.			0.199	1.8
108	CH2F2	difluoromethane	52.023		221.5	351.6	58.3	120.8	0.241	0.271	2.0
109	CH2O	formaldehyde	30.026	156.	254.	408.	65.9			0.253	2.3
110	CH2O2	formic acid	46.025	281.5	373.8	580.					1.5
111	CH3Br	methyl bromide	94.939	179.5	276.6	464.	66.1				1.8
112	CH3Cl	methyl chloride	50.488	175.4	249.1	416.3	67.0	138.9	0.269	0.153	1.9
113	CH3F	methyl fluoride	34.033	131.4	194.7	315.0	56.	113.2	0.240	0.187	1.8
114	CH3I	methyl iodide	141.939	206.7	315.7	528.	65.9				1.6
115	CH3NO2	nitromethane	61.041	244.6	374.3	588.	63.1	173.2	0.208	0.310	3.1
116	CH4	methane	16.043	90.7	111.6	190.4	46.0	99.2	0.288	0.011	0.0
117	CH4O	methanol	32.042	175.5	337.7	512.6	80.9	118.0	0.224	0.556	1.7
118	CH4S	methyl mercaptan	48.107	150.	279.1	470.0	72.3	144.8	0.268	0.153	1.3
119	CH5N	methyl amine	31.058	179.7	266.8	430.0	74.3			0.292	1.3
120	CH6N2	methyl hydrazine	46.072		362.	567.	82.4	271.2	0.474	0.425	1.7
121	CH6Si	methyl silane	46.145	116.7	215.6	352.5					0.7
122	C2Br2ClF3	1,2-dibromo-1-chlorotrifluoroethane	276.277	182.7	366.	560.7	36.1	368.	0.285	0.248	
123	C2Br2F4	1,2-dibromotetrafluoroethane	259.822	163.	320.4	487.8	33.9	341.	0.285	0.245	
124	C2ClF3	chlorotrifluoroethene	116.469	116.	245.3	379.	40.5	212.	0.272	0.252	0.4
125	C2ClF5	chloropentafluoroethane	154.467	167.	235.2	353.2	32.3	251.8	0.277	0.279	0.3

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
101	CHClF2	chlorodifluoromethane	1.730E+1	1.618E-1	-1.170E-4	3.058E-8	-5.020E+5	-4.709E+5
102	CHCl2F	dichloromonofluoromethane	2.366E+1	1.581E-1	-1.200E-4	3.264E-8	-2.989E+5	-2.684E+5
103	CHCl3	chloroform	2.400E+1	1.893E-1	-1.841E-4	6.657E-8	-1.013E+5	-6.858E+4
104	CHF3	fluoroform	8.156E+0	1.813E-1	-1.379E-4	3.938E-8	-6.975E+5	-6.628E+5
105	CHN	hydrogen cyanide	2.186E+1	6.062E-2	-4.961E-5	1.815E-8	1.306E+5	1.202E+5
106	CH2Br2	dibromomethane	2.500E+1	2.517E-1	-1.833E-4	5.646E-8	-3.890E+4	-1.059E+4
107	CH2Cl2	dichloromethane	1.295E+1	1.623E-1	-1.302E-4	4.208E-8	-9.546E+4	-6.891E+4
108	CH2F2	difluoromethane	1.179E+1	1.181E-1	-4.843E-5	2.125E-9	-4.509E+5	-4.229E+5
109	CH2O	formaldehyde	2.348E+1	3.157E-2	2.985E-5	-2.300E-8	-1.160E+5	-1.100E+5
110	CH2O2	formic acid	1.171E+1	1.358E-1	-8.411E-5	2.017E-8	-3.789E+5	-3.512E+5
111	CH3Br	methyl bromide	1.443E+1	1.091E-1	-5.401E-5	1.000E-8	-3.768E+4	-2.818E+4
112	CH3Cl	methyl chloride	1.388E+1	1.014E-1	-3.889E-5	2.567E-9	-8.637E+4	-6.293E+4
113	CH3F	methyl fluoride	1.382E+1	8.616E-2	-2.071E-5	-1.985E-9	-2.340E+5	-2.101E+5
114	CH3I	methyl iodide	1.081E+1	1.389E-1	-1.041E-4	3.486E-8	1.398E+4	1.566E+4
115	CH3NO2	nitromethane	7.423E+0	1.978E-1	-1.081E-4	2.085E-8	-7.478E+4	-6.950E+3
116	CH4	methane	1.925E+1	5.213E-2	1.197E-5	-1.132E-8	-7.490E+4	-5.087E+4
117	CH4O	methanol	2.115E+1	7.092E-2	2.587E-5	-2.852E-8	-2.013E+5	-1.626E+5
118	CH4S	methyl mercaptan	1.327E+1	1.457E-1	-8.545E-5	2.075E-8	-2.299E+4	-9.923E+3
119	CH5N	methyl amine	1.148E+1	1.427E-1	-5.334E-5	4.752E-9	-2.303E+4	3.228E+4
120	CH6N2	methyl hydrazine					8.541E+4	1.780E+5
121	CH6Si	methyl silane						
122	C2Br2ClF3	1,2-dibromo-1-chlorotrifluoroethane						
123	C2Br2F4	1,2-dibromotetrafluoroethane					-7.662E+5	
124	C2ClF3	chlorotrifluoroethene					-5.317E+5	
125	C2ClF5	chloropentafluoroethane	2.783E+1	3.492E-1	-2.891E-4	8.139E-8		

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
101	CHClF2	chlorodifluoromethane	1	-6.99913	1.23014	-2.49377	-2.21052	170	TC	1.23	289
102	CHCl2F	dichloromonofluoromethane	2	47.943	4629.02	-5.590	1665.	250	TC	1.38	282
103	CHCl3	chloroform	1	-6.95546	1.16625	-2.13970	-3.44421	215	TC	1.489	293
104	CHF3	fluoroform	1	-7.41994	1.65884	-3.14962	-0.84938	125	TC	1.246	239
105	CHN	hydrogen cyanide	2	31.122	4183.37	-3.004	1635.	280	TC	0.688	293
106	CH2Br2	dibromomethane								2.50	293
107	CH2Cl2	dichloromethane	1	-7.35739	2.17546	-4.07038	3.50701	233	TC	1.317	298
108	CH2F2	difluoromethane	1	-7.44206	1.51914	-2.75319	-0.97949	155	TC		
109	CH2O	formaldehyde	1	-7.29343	1.08395	-1.63882	-2.30677	184	TC	0.815	253
110	CH2O2	formic acid	3	10.3680	3599.58	-26.09		271	409	1.226	288
111	CH3Br	methyl bromide	1	-7.43951	3.15408	-4.67922	2.33796	184	TC	1.737	268
112	CH3Cl	methyl chloride	1	-6.86672	1.52273	-1.92919	-2.61459	175	TC	0.915	293
113	CH3F	methyl fluoride	1	-6.78099	0.828379	-1.41137	-2.41700	135	TC	0.843	213
114	CH3I	methyl iodide	1	-6.51125	0.888786	-1.36624	-3.03652	259	TC	2.279	293
115	CH3NO2	nitromethane	1	-8.41688	2.76466	-3.65341	-1.01376	328	TC	1.138	293
116	CH4	methane	1	-6.00435	1.18850	-0.83408	-1.22833	91	TC	0.425	112
117	CH4O	methanol	1	-8.54796	0.76982	-3.10850	1.54481	288	TC	0.791	293
118	CH4S	methyl mercaptan	1	-6.79300	1.52687	-2.45989	-1.34839	222	TC	0.866	293
119	CH5N	methyl amine	1	-7.52772	1.81615	-4.20677	-1.22275	200	TC	0.703	260
120	CH6N2	methyl hydrazine	3	8.5222	2319.84	-91.70		270	400		
121	CH6Si	methyl silane									
122	C2Br2ClF3	1,2-dibromo-1-chlorotrifluoroethane	1	-7.75667	2.65450	-4.26722	-0.10090	184	TC		
123	C2Br2F4	1,2-dibromotetrafluoroethane	1	-7.30588	1.65554	-3.20770	-1.65654	225	TC	2.175	294
124	C2ClF3	chlorotrifluoroethene	1	-7.73622	2.58699	-4.21453	-0.15430	116	TC	1.305	293
125	C2ClF5	chloropentafluoroethane	1	-7.69084	2.41233	-4.48383	1.92058	174	TC	1.26	303

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
126	C2C12F4	1,1-dichlorotetrafluoroethane	170.922	179.	277.0	418.6	33.0	294.2	0.279	0.263	
127	C2C12F4	1,2-dichlorotetrafluoroethane	170.922	179.	276.2	418.9	32.6	293.8	0.275	0.246	0.5
128	C2C13F3	1,2,2-trichlorotrifluoroethane	187.380	238.2	320.8	487.3	34.1	325.5	0.274	0.256	
129	C2C14	tetrachloroethene	165.834	251.	394.4	620.2	47.6	289.6	0.250		0.0
130	C2C14F2	1,1,2,2-tetrachlorodifluoroethane	203.831	298.0	366.0	551.	38.7				
131	C2F3N	trifluoroacetonitrile	95.023		205.5	311.1	36.2	202.	0.283	0.267	
132	C2F4	perfluoroethene	100.016	130.7	197.2	306.5	39.4	172.	0.267	0.223	
133	C2F6	perfluoroethane	138.012	172.4	194.9	293.0	30.6	222.	0.279		0.0
134	C2N2	cyanogen	52.035	245.3	252.0	400.	59.8			0.278	0.2
135	C2HC1F2	1-chloro-2,2-difluoroethene	98.479		254.6	400.6	44.6	197.	0.264	0.220	
136	C2HC1F4	chloro-1,1,2,2,-tetrafluoroethane	136.475		263.	399.9	37.2	244.	0.273	0.281	
137	C2HC13	trichloroethene	131.389	186.8	360.4	572.	50.5	256.	0.265	0.213	0.9
138	C2HC15	pentachloroethane	202.295	244.	435.	646.	34.8				1.0
139	C2HF302	trifluoroacetic acid	114.024	257.9	346.	491.3	32.6	204.	0.163	0.540	2.3
140	C2H2	acetylene	26.038		188.4	308.3	61.4	112.7	0.270	0.190	0.0
141	C2H2C12	cis-1,2-dichloroethene	96.944	192.7	333.3	537.	56.				1.8
142	C2H2C12	trans-1,2-dichloroethene	96.944	223.	321.9	513.	48.1			0.232	0.0
143	C2H2C14	1,1,2,2-tetrachloroethane	167.850	237.	419.4	661.2	58.4				1.5
144	C2H2F2	1,1-difluoroethene	64.035	129.	187.5	302.9	44.6	154.1	0.273	0.140	1.4
145	C2H2O	ketene	42.038	138.	232.	380.	65.	145.	0.30	0.21	1.4
146	C2H3C1	vinyl chloride	62.499	119.4	259.8	425.	51.5	169.	0.265	0.122	1.5
147	C2H3C1F2	1-chloro-1,1-difluoroethane	100.496	142.	263.4	409.6	43.3	231.	0.294	0.251	2.1
148	C2H3C10	acetyl chloride	78.498	160.2	323.9	508.0	58.7	204.	0.280	0.344	2.4
149	C2H3C13	1,1,1-trichloroethane	133.405	240.	347.2	545.	43.0			0.217	1.7
150	C2H3C13	1,1,2-trichloroethane	133.405	235.8	386.7	606.	51.4				1.4

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
126	C2C12F4	1,1-dichlorotetrafluoroethane	4.045E+1	3.278E-1	-2.752E-4	7.821E-8		
127	C2C12F4	1,2-dichlorotetrafluoroethane	3.878E+1	3.440E-1	-2.950E-4	8.508E-8	-8.985E+5	
128	C2C13F3	1,2,2-trichlorotrifluoroethane	6.114E+1	2.874E-1	-2.420E-4	6.904E-8	-7.457E+5	
129	C2C14	tetrachloroethene	4.597E+1	2.255E-1	-2.294E-4	8.382E-8	-1.214E+4	2.261E+4
130	C2C14F2	1,1,2,2-tetrachlorodifluoroethane						
131	C2F3N	trifluoroacetonitrile	2.213E+1	2.519E-1	-2.361E-4	8.207E-8	-4.957E+5	-4.622E+5
132	C2F4	perfluoroethene	2.901E+1	2.277E-1	-2.036E-4	6.778E-8	-6.590E+5	-6.241E+5
133	C2F6	perfluoroethane	2.682E+1	3.458E-1	-2.869E-4	8.135E-8	-1.344E+6	-1.258E+6
134	C2N2	cyanogen	3.594E+1	9.253E-2	-8.148E-5	2.950E-8	3.092E+5	2.974E+5
135	C2HC1F2	1-chloro-2,2-difluoroethene						
136	C2HC1F4	chloro-1,1,2,2,-tetrafluoroethane						
137	C2HC13	trichloroethene	3.017E+1	2.287E-1	-2.229E-4	8.244E-8	-5.862E+3	1.989E+4
138	C2HC15	pentachloroethane	4.394E+1	3.374E-1	-3.356E-4	1.213E-7	-1.424E+5	-6.670E+4
139	C2HF302	trifluoroacetic acid						
140	C2H2	acetylene	2.682E+1	7.578E-2	-5.007E-5	1.412E-8	2.269E+5	2.093E+5
141	C2H2C12	cis-1,2-dichloroethene	1.161E+1	2.358E-1	-2.100E-4	7.242E-8	1.880E+3	2.437E+4
142	C2H2C12	trans-1,2-dichloroethene	1.828E+1	2.100E-1	-1.764E-4	5.804E-8	4.190E+3	2.660E+4
143	C2H2C14	1,1,2,2-tetrachloroethane	2.767E+1	3.251E-1	-2.974E-4	1.028E-7	-1.528E+5	-8.583E+4
144	C2H2F2	1,1-difluoroethene	3.073E+0	2.445E-1	-2.099E-4	7.021E-8	-3.454E+5	-3.217E+5
145	C2H2O	ketene	6.385E+0	1.638E-1	-1.084E-4	2.698E-8	-6.113E+4	-6.033E+4
146	C2H3C1	vinyl chloride	5.949E+0	2.019E-1	-1.536E-4	4.773E-8	3.517E+4	5.154E+4
147	C2H3C1F2	1-chloro-1,1-difluoroethane	1.682E+1	2.757E-1	-1.992E-4	5.305E-8		
148	C2H3C10	acetyl chloride	2.502E+1	1.711E-1	-9.856E-5	2.219E-8	-2.441E+5	-2.064E+5
149	C2H3C13	1,1,1-trichloroethane						
150	C2H3C13	1,1,2-trichloroethane	6.322E+0	3.431E-1	-2.958E-4	9.793E-8	-1.386E+5	-7.754E+4

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
126	C2C12F4	1,1-dichlorotetrafluoroethane	1	-7.33582	1.62482	-3.06234	-2.42281	217	TC	1.455	298
127	C2C12F4	1,2-dichlorotetrafluoroethane	1	-7.15825	1.10752	-2.12022	-4.54857	180	TC	1.48	277
128	C2C13F3	1,2,2-trichlorotrifluoroethane	1	-7.26519	1.39273	-2.50843	-5.26657	238	TC	1.580	289
129	C2C14	tetrachloroethene	1	-7.36067	1.82732	-3.47735	-1.00033	252	TC	1.62	293
130	C2C14F2	1,1,2,2-tetrachlorodifluoroethane	1	-7.80715	1.69009	-3.12042	-3.29269	299	TC	1.65	298
131	C2F3N	trifluoroacetonitrile	3	9.7917	1781.77	-23.28		142	206		
132	C2F4	perfluoroethene	1	-6.74371	0.62458	-1.94752	-3.78881	145	TC	1.519	197
133	C2F6	perfluoroethane	1	-7.32301	1.50248	-2.64678	-4.93429	173	TC	1.590	195
134	C2N2	cyanogen	2	51.703	4390.80	-6.185	1130.	250	TC	0.954	252
135	C2HC1F2	1-chloro-2,2-difluoroethene	1	-7.19815	1.77543	-3.50534	-0.68772	136	TC		
136	C2HC1F4	chloro-1,1,2,2,-tetrafluoroethane	1	-7.56490	1.81516	-3.54300	-1.04102	157	TC		
137	C2HC13	trichloroethene	1	-7.38190	1.94817	-3.03294	-5.34536	291	TC	1.462	293
138	C2HC15	pentachloroethane	1	-7.50052	1.16078	-3.48149	-1.04212	312	TC	1.671	298
139	C2HF302	trifluoroacetic acid	3	7.5356	2828.94	-57.11		285	345	1.535	273
140	C2H2	acetylene	1	-6.90128	1.26873	-2.09113	-2.75601	192	TC	0.615	189
141	C2H2C12	cis-1,2-dichloroethene	1	-6.97612	1.11972	-1.88483	-3.32030	274	TC	1.282	298
142	C2H2C12	trans-1,2-dichloroethene	1	-6.69776	1.08543	-2.90387	-0.25533	258	TC	1.255	293
143	C2H2C14	1,1,2,2-tetrachloroethane	1	-7.98542	2.49931	-4.07076	-0.69180	303	TC	1.600	293
144	C2H2F2	1,1-difluoroethene	1	-6.58895	0.90734	-0.82882	0.11779	130	TC	0.617	297
145	C2H20	ketene	3	9.3995	1849.21	-35.15		170	255		
146	C2H3C1	vinyl chloride	1	-6.50008	1.21422	-2.57867	-2.00937	208	TC	0.969	259
147	C2H3C1F2	1-chloro-1,1-difluoroethane	1	-7.83556	2.79382	-4.42364	0.06334	143	TC	1.10	303
148	C2H3C10	acetyl chloride	1	-7.94455	1.81437	-2.09194	-1.98959	267	TC	1.104	293
149	C2H3C13	1,1,1-trichloroethane	1	-7.31317	2.04642	-3.77747	-0.45475	247	TC	1.339	298
150	C2H3C13	1,1,2-trichloroethane	1	-7.71341	2.15518	-3.96435	-0.54604	323	TC	1.441	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
151	C2H3F	vinyl fluoride	46.044	130.0	201.0	327.9	52.4	144.	0.277	0.157	1.4
152	C2H3F3	1,1,1-trifluoroethane	84.041	161.9	225.6	346.3	37.6	194.	0.253	0.251	2.3
153	C2H3N	acetonitrile	41.053	229.3	354.8	545.5	48.3	173.	0.184	0.327	3.5
154	C2H3NO	methyl isocyanate	57.052		312.	491.	55.7			0.278	
155	C2H4	ethylene	28.054	104.0	169.3	282.4	50.4	130.4	0.280	0.089	0.0
156	C2H4Br2	1,2-dibromoethane	187.862	283.3	404.7	646.	53.5			0.795	1.0
157	C2H4Cl2	1,1-dichloroethane	98.960	176.2	330.5	523.	50.7	236.	0.275	0.240	2.0
158	C2H4Cl2	1,2-dichloroethane	98.960	237.5	356.7	566.	53.7	225.	0.259	0.278	1.8
159	C2H4F2	1,1-difluoroethane	66.051	156.2	248.2	386.7	45.0	181.	0.253	0.256	2.3
160	C2H4O	acetaldehyde	44.054	150.2	294.	461.	55.7	154.	0.220	0.303	2.5
161	C2H4O	ethylene oxide	44.054	161.	283.7	469.	71.9	140.	0.259	0.202	1.9
162	C2H4O2	acetic acid	60.052	289.8	391.1	592.7	57.9	171.	0.201	0.447	1.3
163	C2H4O2	methyl formate	60.052	174.2	304.9	487.2	60.0	172.	0.255	0.257	1.8
164	C2H5Br	ethyl bromide	108.966	154.6	311.5	503.9	62.3	215.	0.320	0.229	2.0
165	C2H5Cl	ethyl chloride	64.515	136.8	285.5	460.4	52.7	199.	0.274	0.191	2.0
166	C2H5F	ethyl fluoride	48.060	129.9	235.5	375.3	50.2	169.	0.272	0.215	2.0
167	C2H5I	ethyl iodide	155.967	165.	345.6	554.	47.0				1.7
168	C2H6	ethane	30.070	89.9	184.6	305.4	48.8	148.3	0.285	0.099	0.0
169	C2H6O	dimethyl ether	46.069	131.7	248.3	400.0	52.4	178.	0.287	0.200	1.3
170	C2H6O	ethanol	46.069	159.1	351.4	513.9	61.4	167.1	0.240	0.644	1.7
171	C2H6O2	ethylene glycol	62.069	260.2	470.5	(645.)	(77.)				2.2
172	C2H6S	ethyl mercaptan	62.134	125.3	308.2	499.	54.9	207.	0.274	0.191	1.5
173	C2H6S	dimethyl sulfide	62.130	174.9	310.5	503.0	55.3	201.	0.266	0.191	1.5
174	C2H7N	ethyl amine	45.085	192.	289.7	456.4	56.4	182.	0.270	0.289	1.3
175	C2H7N	dimethylamine	45.085	181.0	280.0	437.7	53.1			0.302	1.0

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
151	C2H3F	vinyl fluoride					-1.172E+5	
152	C2H3F3	1,1,1-trifluoroethane	5.744E+0	3.141E-1	-2.597E-4	8.415E-8	-7.461E+5	-6.792E+5
153	C2H3N	acetonitrile	2.048E+1	1.196E-1	-4.492E-5	3.203E-9	8.792E+4	1.057E+5
154	C2H3NO	methyl isocyanate	3.576E+1	1.040E-1	-5.820E-6	-1.687E-8	-9.000E+4	
155	C2H4	ethylene	3.806E+0	1.566E-1	-8.348E-5	1.755E-8	5.234E+4	6.816E+4
156	C2H4Br2	1,2-dibromoethane	2.500E+1	2.517E-1	-1.833E-4	5.646E-8	-3.894E+4	-1.060E+4
157	C2H4Cl2	1,1-dichloroethane	1.247E+1	2.696E-1	-2.050E-4	6.301E-8	-1.300E+5	-7.314E+4
158	C2H4Cl2	1,2-dichloroethane	2.049E+1	2.310E-1	-1.438E-4	3.389E-8	-1.298E+5	-7.390E+4
159	C2H4F2	1,1-difluoroethane	8.675E+1	2.396E-1	-1.457E-4	3.394E-8	-4.940E+5	-4.365E+5
160	C2H4O	acetaldehyde	7.716E+0	1.823E-1	-1.007E-4	2.380E-8	-1.644E+5	-1.334E+5
161	C2H4O	ethylene oxide	-7.519E+0	2.222E-1	-1.256E-4	2.592E-8	-5.267E+4	-1.310E+4
162	C2H4O2	acetic acid	4.840E+0	2.549E-1	-1.753E-4	4.949E-8	-4.351E+5	-3.769E+5
163	C2H4O2	methyl formate	1.432E+0	2.700E-1	-1.949E-4	5.702E-8	-3.500E+5	-2.974E+5
164	C2H5Br	ethyl bromide	6.657E+0	2.348E-1	-1.472E-4	3.804E-8	-6.406E+4	-2.633E+4
165	C2H5Cl	ethyl chloride	-5.527E-1	2.606E-1	-1.840E-4	5.548E-8	-1.118E+5	-6.004E+4
166	C2H5F	ethyl fluoride	4.346E+0	2.180E-1	-1.166E-4	2.410E-8	-2.617E+5	-2.097E+5
167	C2H5I	ethyl iodide	1.011E+1	2.253E-1	-1.382E-4	3.531E-8	-8.370E+3	2.135E+4
168	C2H6	ethane	5.409E+0	1.781E-1	-6.938E-5	8.713E-9	-8.474E+4	-3.295E+4
169	C2H6O	dimethyl ether	1.702E+1	1.791E-1	-5.234E-5	-1.918E-9	-1.842E+5	-1.130E+5
170	C2H6O	ethanol	9.014E+0	2.141E-1	-8.390E-5	1.373E-9	-2.350E+5	-1.684E+5
171	C2H6O2	ethylene glycol	3.570E+1	2.483E-1	-1.497E-4	3.010E-8	-3.896E+5	-3.047E+5
172	C2H6S	ethyl mercaptan	1.492E+1	2.351E-1	-1.356E-4	3.162E-8	-4.614E+4	-4.670E+3
173	C2H6S	dimethyl sulfide	2.430E+1	1.875E-1	-6.875E-5	4.099E-9	-3.756E+4	6.950E+3
174	C2H7N	ethyl amine	3.693E+0	2.752E-1	-1.583E-4	3.808E-8	-4.605E+4	3.730E+4
175	C2H7N	dimethylamine	-1.717E-1	2.695E-1	-1.329E-4	2.339E-8	-1.880E+4	6.800E+4

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
151	C2H3F	vinyl fluoride	1	-6.80471	1.67182	-3.29094	-0.69493	114	TC	0.681	263
152	C2H3F3	1,1,1-trifluoroethane	1	-7.87141	2.78418	-4.55799	0.56876	163	TC		
153	C2H3N	acetonitrile	2	40.774	5392.43	-4.357	2615.	300	TC	0.782	293
154	C2H3NO	methyl isocyanate	3	9.7056	2480.37	-56.31		230	340	0.958	293
155	C2H4	ethylene	1	-6.32055	1.16819	-1.55935	-1.83552	105	TC	0.577	163
156	C2H4Br2	1,2-dibromoethane	1	-7.45007	2.22849	-3.97795	-0.24734	290	TC	2.180	293
157	C2H4Cl2	1,1-dichloroethane	2	49.613	5422.68	-5.726	2380.	280	TC	1.168	298
158	C2H4Cl2	1,2-dichloroethane	1	-7.36864	1.76727	-3.34295	-1.43530	260	TC	1.250	289
159	C2H4F2	1,1-difluoroethane	1	-7.40625	1.76980	-3.44560	-1.09392	157	TC	1.012	247
160	C2H4O	acetaldehyde	1	-7.04687	0.12142	-2.66037E-2	-5.90300	273	TC	0.778	293
161	C2H4O	ethylene oxide	1	-6.56234	0.42696	-1.25638	-3.18133	238	TC	0.899	273
162	C2H4O2	acetic acid	1	-7.83183	5.51929E-4	0.24709	-8.50462	304	TC	1.049	293
163	C2H4O2	methyl formate	1	-6.99601	0.89328	-2.52294	-3.16636	220	TC	0.974	293
164	C2H5Br	ethyl bromide	1	-9.14807	5.49831	-6.68657	6.27287	301	TC	1.451	298
165	C2H5Cl	ethyl chloride	1	-7.23667	2.11017	-3.53882	0.34775	217	TC	0.896	293
166	C2H5F	ethyl fluoride	1	-6.82738	0.59267	-0.73934	-3.69185	266	TC		
167	C2H5I	ethyl iodide	1	-6.50172	1.05321	-3.16148	-0.64188	290	TC	1.950	293
168	C2H6	ethane	1	-6.34307	1.01630	-1.19116	-2.03539	133	TC	0.548	183
169	C2H6O	dimethyl ether	1	-7.12597	1.81710	-3.10058	-0.91638	194	TC	0.667	293
170	C2H6O	ethanol	1	-8.51838	0.34163	-5.73683	8.32581	293	TC	0.789	293
171	C2H6O2	ethylene glycol	3	13.6299	6022.18	-28.25		364	494	1.114	293
172	C2H6S	ethyl mercaptan	1	-6.96578	1.50970	-2.73740	-1.73828	273	TC	0.839	293
173	C2H6S	dimethyl sulfide	1	-6.94973	1.43646	-2.51444	-2.47611	222	TC	0.848	293
174	C2H2N	ethyl amine	1	-7.20059	1.20679	-3.71972	-4.33511	215	TC	0.683	293
175	C2H7N	dimethylamine	1	-7.90295	2.81577	-6.31338	-0.22407	240	TC	0.656	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
176	C2H7NO	monoethanolamine	61.084	283.5	443.5	614.	44.5	196.	0.17		2.6
177	C2H8N2	ethylenediamine	60.099	284.	390.4	593.	62.8	206.	0.26	0.51	1.9
178	C3ClF5O	chloropentafluoroacetone	182.475		281.0	410.6	28.8			0.347	
179	C3F6O	perfluoroacetone	166.020		245.7	357.1	28.4	329.	0.314	0.365	
180	C3F8	perfluoropropane	188.017	90.	236.5	345.1	26.8	299.8	0.280	0.325	
181	C3H3F3	trifluoropropene	96.051		244.	376.2	38.0	211.	0.256	0.238	
182	C3H3F5	1,1,1,2,2-pentafluoropropane	134.047		255.7	380.1	31.4	273.	0.271	0.308	
183	C3H3N	acrylonitrile	53.064	189.5	350.5	536.	45.6	210.	0.21	0.35	3.5
184	C3H3NO	isoxazole	69.063		368.	552.					2.8
185	C3H4	propadiene	40.065	136.9	238.7	393.	54.7	162.	0.271	0.313	0.2
186	C3H4	methyl acetylene	40.065	170.5	249.9	402.4	56.3	164.	0.275	0.215	0.7
187	C3H4O	acrolein	56.064	186.	326.	506.	51.6			0.33	2.9
188	C3H4O2	acrylic acid	72.064	285.	414.	615.	56.7	210.	0.23	0.56	
189	C3H4O2	vinyl formate	72.064	215.5	319.6	475.	57.7	210.	0.31	0.55	
190	C3H5Cl	allyl chloride	76.526	138.7	318.3	514.	47.6	234.	0.26	0.13	2.0
191	C3H5Cl3	1,2,3-trichloropropane	147.432	258.5	429.	651.	39.5	348.	0.25	0.31	1.6
192	C3H5N	propionitrile	55.080	180.3	370.3	564.4	41.8	229.	0.205	0.313	3.7
193	C3H6	cyclopropane	42.081	145.7	240.3	397.8	54.9	163.	0.274	0.130	0.0
194	C3H6	propylene	42.081	87.9	225.5	364.9	46.0	181.	0.274	0.144	0.4
195	C3H6Cl2	1,2-dichloropropane	112.987	172.7	369.5	577.	44.5	226.	0.21	0.24	1.9
196	C3H6O	acetone	58.080	178.2	329.2	508.1	47.0	209.	0.232	0.304	2.9
197	C3H6O	allyl alcohol	58.080	144.	370.2	543.0					
198	C3H6O	propionaldehyde	58.080	193.	321.	515.3	63.3			0.313	2.7
199	C3H6O	1,2-propylene oxide	58.080	161.	308.	482.2	49.2	186.	0.229	0.269	2.0
200	C3H6O	vinyl methyl ether	58.080	151.5	278.	436.	47.6	205.	0.27	0.34	

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
176	C2H7NO	monoethanolamine	9.311E+0	3.009E-1	-1.818E-4	4.656E-8	-2.017E+5	
177	C2H8N2	ethylenediamine	3.830E+1	2.407E-1	-4.338E-5	-3.948E-8		
178	C3ClF5O	chloropentafluoroacetone						
179	C3F6O	perfluoroacetone						
180	C3F8	perfluoropropane						
181	C3H3F3	trifluoropropene						
182	C3H3F5	1,1,1,2,2-pentafluoropropane						
183	C3H3N	acrylonitrile	1.069E+1	2.208E-1	-1.565E-4	4.601E-8	1.851E+5	1.954E+5
184	C3H3NO	isoxazole						
185	C3H4	propadiene	9.906E+0	1.977E-1	-1.182E-4	2.782E-8	1.923E+5	2.025E+5
186	C3H4	methyl acetylene	1.471E+1	1.864E-1	-1.174E-4	3.224E-8	1.856E+5	1.946E+5
187	C3H4O	acrolein	1.197E+1	2.106E-1	-1.071E-4	1.906E-8	-7.092E+4	-6.519E+4
188	C3H4O2	acrylic acid	1.742E+0	3.191E-1	-2.352E-4	6.975E-8	-3.365E+5	-2.863E+5
189	C3H4O2	vinyl formate	2.781E+1	1.839E-1	-3.560E-5	-2.335E-7		
190	C3H5Cl	allyl chloride	2.529E+0	3.047E-1	-2.278E-4	7.293E-8	-6.280E+2	4.363E+4
191	C3H5Cl3	1,2,3-trichloropropane	2.688E+1	3.622E-1	-2.787E-4	8.788E-8	-1.859E+5	-9.785E+4
192	C3H5N	propionitrile	1.540E+1	2.245E-1	-1.100E-4	1.954E-8	5.066E+4	9.621E+4
193	C3H6	cyclopropane	-3.524E+1	3.813E-1	-2.881E-4	9.035E-8	5.334E+4	1.045E+5
194	C3H6	propylene	3.710E+0	2.345E-1	-1.160E-4	2.205E-8	2.043E+4	6.276E+4
195	C3H6Cl2	1,2-dichloropropane	1.045E+1	3.655E-1	-2.604E-4	7.741E-8	-1.660E+5	-8.315E+4
196	C3H6O	acetone	6.301E+0	2.606E-1	-1.253E-4	2.038E-8	-2.177E+5	-1.532E+5
197	C3H6O	allyl alcohol	-1.105E+0	3.146E-1	-2.032E-4	5.321E-8	-1.321E+5	-7.130E+4
198	C3H6O	propionaldehyde	1.172E+1	2.614E-1	-1.300E-4	2.126E-8	-1.922E+5	-1.305E+5
199	C3H6O	1,2-propylene oxide	-8.457E+0	3.257E-1	-1.989E-4	4.823E-8	-9.282E+4	-2.580E+4
200	C3H6O	vinyl methyl ether	1.563E+1	2.341E-1	-9.697E-5	1.062E-8		

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
176	C2H7NO	monoethanolamine	1	-10.8842	3.03743	-7.21939	-2.99322	379	TC	1.016	293
177	C2H8N2	ethylenediamine	1	-8.82254	2.27867	-3.52636	-6.97579	285	TC	0.896	293
178	C3ClF5O	chloropentafluoroacetone									
179	C3F6O	perfluoroacetone									
180	C3F8	perfluoropropane	3	9.3122	1901.54	-31.97		194	237	1.350	293
181	C3H3F3	trifluoropropene									
182	C3H3F5	1,1,1,2,2-pentafluoropropane									
183	C3H3N	acrylonitrile	3	9.3051	2782.21	-51.15		255	385	0.806	293
184	C3H3NO	isoxazole								1.078	293
185	C3H4	propadiene	3	6.5361	1054.72	-77.08		174	257	0.658	238
186	C3H4	methyl acetylene	1	-7.43860	2.62026	-5.76535	7.55261	178	TC	0.706	223
187	C3H4O	acrolein	3	9.2855	2606.53	-45.15		235	360	0.839	293
188	C3H4O2	acrylic acid	3	9.9415	3319.18	-80.15		315	450	1.051	293
189	C3H4O2	vinyl formate	3	10.0329	2569.68	-63.15		240	350	0.963	293
190	C3H5Cl	allyl chloride	1	-6.76334	2.50730	-7.64033	11.6666	286	TC	0.937	293
191	C3H5Cl3	1,2,3-trichloropropane	3	9.5044	3417.27	-69.15		315	470	1.389	293
192	C3H5N	propionitrile	1	-7.27719	0.46035	-0.45714	-10.1636	309	TC	0.782	293
193	C3H6	cyclopropane	1	-7.98411	4.38160	-5.72309	3.40444	183	TC	0.563	288
194	C3H6	propylene	1	-6.64231	1.21857	-1.81005	-2.48212	140	TC	0.612	223
195	C3H6Cl2	1,2-dichloropropane	1	-6.82259	0.54655	-1.59982	-5.05429	318	TC	1.15	293
196	C3H6O	acetone	1	-7.45514	1.20200	-2.43926	-3.35590	259	TC	0.790	293
197	C3H6O	allyl alcohol	3	10.2864	2928.20	-85.15		286	400	0.855	288
198	C3H6O	propionaldehyde	1	-7.18479	1.00298	-1.49247	-5.13288	235	TC	0.797	293
199	C3H6O	1,2-propylene oxide	1	-6.97569	0.63650	-1.49187	-6.37743	249	TC	0.829	293
200	C3H6O	vinyl methyl ether	3	7.8400	1980.22	-25.15		190	315	0.750	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
201	C3H6O2	propionic acid	74.080	252.5	414.5	612.	54.	222.	0.183	0.520	1.5
202	C3H6O2	ethyl formate	74.080	193.8	327.5	508.5	47.4	229.	0.257	0.285	2.0
203	C3H6O2	methyl acetate	74.080	175.	330.4	506.8	46.9	228.	0.254	0.326	1.7
204	C3H7Cl	propyl chloride	78.542	150.4	320.4	503.	45.8	254.	0.278	0.235	2.0
205	C3H7Cl	isopropyl chloride	78.542	156.0	308.9	485.0	47.2	230.	0.269	0.232	2.1
206	C3H8	propane	44.094	85.5	231.1	369.8	42.5	203.	0.281	0.153	0.0
207	C3H8O	1-propanol	60.096	146.9	370.3	536.8	51.7	219.	0.253	0.623	1.7
208	C3H8O	isopropyl alcohol	60.096	184.7	355.4	508.3	47.6	220.	0.248	0.665	1.7
209	C3H8O	methyl ethyl ether	60.096	134.	280.6	437.8	44.0	221.	0.267	0.244	1.2
210	C3H8O2	methylal	76.096	168.	315.	480.6	39.5	213.	0.211	0.286	1.0
211	C3H8O2	1,2-propanediol	76.096	213.	460.5	625.	60.7	237.	0.28		3.6
212	C3H8O2	1,3-propanediol	76.096	246.4	487.6	724.	89.5				3.7
213	C3H8O3	glycerol	92.095	291.	563.	726.	66.8	255.	0.28		3.0
214	C3H8S	methyl ethyl sulfide	76.157	167.2	339.8	533.	42.6			0.216	
215	C3H9BO3	trimethyl borate	103.912		342.	501.7	35.9			0.415	0.8
216	C3H9N	n-propyl amine	59.112	190.	321.7	497.0	48.1	233.	0.271	0.303	1.3
217	C3H9N	isopropyl amine	59.112	177.9	305.6	471.8	45.4	221.	0.255	0.291	
218	C3H9N	trimethyl amine	59.112	156.	276.0	433.3	40.9	254.	0.288	0.205	0.6
219	C4F8	perfluorocyclobutane	200.028		267.2	388.5	27.8	324.	0.279	0.356	
220	C4F10	perfluorobutane	238.024	145.	271.2	386.4	23.2	378.	0.274	0.374	
221	C4H4	vinylacetylene	52.076	227.6	278.1	455.	49.6	202.	0.26	0.092	
222	C4H4O	furan	68.075	187.5	304.5	490.2	55.0	218.	0.295	0.209	0.7
223	C4H4S	thiophene	84.136	234.9	357.2	579.4	56.9	219.	0.258	0.196	0.5
224	C4H5N	allyl cyanide	67.091	186.7	392.	585.	39.5	265.	0.22	0.39	3.4
225	C4H5N	pyrrole	67.091		403.0	639.8					1.8

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
201	C3H6O2	propionic acid	5.669E+0	3.689E-1	-2.865E-4	9.877E-8	-4.554E+5	-3.696E+5
202	C3H6O2	ethyl formate	2.467E+1	2.316E-1	-2.120E-5	-5.359E-8	-3.715E+5	
203	C3H6O2	methyl acetate	1.655E+1	2.245E-1	-4.342E-5	2.914E-8	-4.097E+5	
204	C3H7Cl	propyl chloride	-3.345E+0	3.626E-1	-2.508E-4	7.448E-8	-1.302E+5	-5.070E+4
205	C3H7Cl	isopropyl chloride	1.842E+0	3.488E-1	-2.244E-4	5.862E-8	-1.465E+5	-6.255E+4
206	C3H8	propane	-4.224E+0	3.063E-1	-1.586E-4	3.215E-8	-1.039E+5	-2.349E+4
207	C3H8O	1-propanol	2.470E+0	3.325E-1	-1.855E-4	4.296E-8	-2.566E+5	-1.619E+5
208	C3H8O	isopropyl alcohol	3.243E+1	1.885E-1	6.406E-5	-9.261E-8	-2.726E+5	-1.735E+5
209	C3H8O	methyl ethyl ether	1.867E+1	2.685E-1	-1.025E-4	8.951E-9	-2.166E+5	-1.177E+5
210	C3H8O2	methylal						
211	C3H8O2	1,2-propanediol	6.322E-1	4.212E-1	-2.981E-4	8.951E-8	-4.242E+5	
212	C3H8O2	1,3-propanediol	8.269E+0	3.676E-1	-2.162E-4	5.053E-8	-4.091E+5	
213	C3H8O3	glycerol	8.424E+0	4.442E-1	-3.159E-4	9.378E-8	-5.853E+5	
214	C3H8S	methyl ethyl sulfide	1.953E+1	2.891E-1	-1.209E-4	1.287E-8	-5.966E+4	1.140E+4
215	C3H9BO3	trimethyl borate						
216	C3H9N	n-propyl amine	6.691E+0	3.498E-1	-1.822E-4	3.586E-8	-7.243E+4	3.982E+4
217	C3H9N	isopropyl amine	-7.486E+0	4.175E-1	-2.826E-4	8.348E-8	-8.382E+4	
218	C3H9N	trimethyl amine	-8.206E+0	3.972E-1	-2.219E-4	4.622E-8	-2.386E+4	9.898E+4
219	C4F8	perfluorocyclobutane						
220	C4F10	perfluorobutane						
221	C4H4	vinylacetylene	6.757E+0	2.841E-1	-2.265E-4	7.461E-8	3.048E+5	3.062E+5
222	C4H4O	furan	-3.553E+1	4.321E-1	-3.455E-4	1.074E-7	-3.470E+4	8.790E+2
223	C4H4S	thiophene	-3.061E+1	4.480E-1	-3.772E-4	1.253E-7	1.158E+5	1.269E+5
224	C4H5N	allyl cyanide	2.170E+1	2.572E-1	-1.192E-4	1.229E-8		
225	C4H5N	pyrrole					1.084E+5	

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
201	C3H6O2	propionic acid	1	-8.69958	1.49460	-4.50355	1.06898	345	TC	0.993	293
202	C3H6O2	ethyl formate	1	-7.16968	1.13188	-3.37309	-3.53058	277	TC	0.927	289
203	C3H6O2	methyl acetate	1	-8.05406	2.56375	-5.12994	0.16125	275	TC	0.934	293
204	C3H7Cl	propyl chloride	1	-7.55764	2.60153	-5.06041	3.31163	248	TC	0.891	293
205	C3H7Cl	isopropyl chloride	3	9.4182	2490.48	-43.15		225	340	0.862	293
206	C3H8	propane	1	-6.72219	1.33236	-2.13868	-1.38551	145	TC	0.582	231
207	C3H8O	1-propanol	1	-8.05594	4.25183E-2	-7.51296	6.89004	260	TC	0.804	293
208	C3H8O	isopropyl alcohol	1	-8.16927	-9.43213E-2	-8.10040	7.85000	250	TC	0.786	293
209	C3H8O	methyl ethyl ether	1	-7.64466	2.88475	-6.32922	0.33736	224	TC	0.700	293
210	C3H8O2	methylal	3	9.2035	2415.92	-52.58		270	315	0.888	291
211	C3H8O2	1,2-propanediol	3	13.9122	6091.95	-22.46		357	483	1.036	293
212	C3H8O2	1,3-propanediol	1	-10.20156	2.93938	-6.69889	5.49989	332	TC	1.053	293
213	C3H8O3	glycerol	3	10.6190	4487.04	-140.2		440	600	1.261	293
214	C3H8S	methyl ethyl sulfide	3	9.3563	2722.95	-48.37		250	360	0.837	293
215	C3H9BO3	trimethyl borate								0.915	293
216	C3H9N	n-propyl amine	1	-7.23587	1.22853	-3.75004	-4.33990	235	TC	0.717	293
217	C3H9N	isopropyl amine	1	-7.40866	1.79229	-4.75675	-1.70138	235	TC	0.688	293
218	C3H9N	trimethyl amine	1	-6.88066	1.15962	-2.18332	-2.94707	200	TC	0.633	293
219	C4F8	perfluorocyclobutane	3	9.0726	1985.95	-48.01		241	274	1.654	253
220	C4F10	perfluorobutane	3	9.5788	2280.18	-32.82		233	272	1.517	293
221	C4H4	vinylacetylene	3	9.3898	2203.57	-43.15		200	305	0.710	273
222	C4H4O	furan	3	9.4410	2442.70	-45.41		238	363	0.938	293
223	C4H4S	thiophene	1	-7.05208	1.69640	-3.17778	-1.57742	312	TC	1.071	289
224	C4H5N	allyl cyanide	3	9.3817	3128.75	-58.15		400	430	0.835	293
225	C4H5N	pyrrole	3	10.1764	3457.47	-62.73		330	440	0.967	294

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
226	C4H6	1-butyne	54.092	147.4	281.2	463.7	47.1	220.	0.27	0.050	0.8
227	C4H6	2-butyne	54.092	240.9	300.1	488.7	50.8	221.	0.277	0.124	0.8
228	C4H6	1,2-butadiene	54.092	137.0	284.0	443.7	44.9	219.	0.267	0.255	0.4
229	C4H6	1,3-butadiene	54.092	164.2	268.7	425.	43.3	221.	0.270	0.195	0.0
230	C4H6O2	vinyl acetate	86.091	173.	346.	525.	43.5	265.	0.26	0.34	1.7
231	C4H6O3	acetic anhydride	102.089	199.	413.2	569.	46.8			0.908	3.0
232	C4H6O4	dimethyl oxalate	118.090	327.	436.5	628.	39.8			0.556	
233	C4H6O4	succinic acid	118.090	456.	508.						2.2
234	C4H7N	butyronitrile	69.107	161.0	391.1	582.2	37.9			0.373	3.8
235	C4H6O2	methyl acrylate	86.091	196.7	353.5	536.	43.	265.	0.25	0.35	
236	C4H8	1-butene	56.108	87.8	266.9	419.6	40.2	240.	0.277	0.191	0.3
237	C4H8	2-butene,cis	56.108	134.3	276.9	435.6	42.0	234.	0.271	0.202	0.3
238	C4H8	2-butene,trans	56.108	167.6	274.0	428.6	39.9	238.	0.266	0.205	0.0
239	C4H8	cyclobutane	56.108	182.4	285.7	460.0	49.9	210.	0.274	0.181	
240	C4H8	isobutylene	56.108	132.8	266.2	417.9	40.0	239.	0.275	0.194	0.5
241	C4H8O	n-butyraldehyde	72.107	176.8	348.0	545.4	53.8			0.352	2.6
242	C4H8O	isobutyraldehyde	72.107	208.2	337.	513.	41.5	274.	0.27	0.35	
243	C4H8O	methyl ethyl ketone	72.107	186.5	352.7	536.8	42.1	267.	0.252	0.320	3.3
244	C4H8O	tetrahydrofuran	72.107	164.7	338.	540.1	51.9	224.	0.259	0.217	1.7
245	C4H8O	vinyl ethyl ether	72.107	157.9	308.7	475.	40.7			0.268	1.3
246	C4H8O2	n-butyric acid	88.107	267.9	437.2	628.	52.7	290.	0.292	0.683	1.5
247	C4H8O2	isobutyric acid	88.107	227.2	427.9	609.	40.5	292.	0.234	0.623	1.3
248	C4H8O2	1,4-dioxane	88.107	285.	374.6	587.	52.1	238.	0.254	0.281	0.4
249	C4H8O2	ethyl acetate	88.107	189.6	350.3	523.2	38.3	286.	0.252	0.362	1.9
250	C4H8O2	methyl propionate	88.107	185.7	352.8	530.6	40.0	282.	0.256	0.350	1.7

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
226	C4H6	1-butyne	1.255E+1	2.744E-1	-1.545E-4	3.450E-8	1.653E+5	2.022E+5
227	C4H6	2-butyne	1.593E+1	2.381E-1	-1.070E-4	1.753E-8	1.464E+5	1.856E+5
228	C4H6	1,2-butadiene	1.120E+1	2.724E-1	-1.468E-4	3.089E-8	1.623E+5	1.986E+5
229	C4H6	1,3-butadiene	-1.687E+0	3.419E-1	-2.340E-4	6.335E-8	1.102E+5	1.508E+5
230	C4H6O2	vinyl acetate	1.516E+1	2.795E-1	-8.805E-5	-1.660E-8	-3.160E+5	
231	C4H6O3	acetic anhydride	-2.313E+1	5.087E-1	-3.580E-4	9.835E-8	-5.761E+5	-4.770E+5
232	C4H6O4	dimethyl oxalate						
233	C4H6O4	succinic acid	1.507E+1	4.689E-1	-3.143E-4	7.938E-8		
234	C4H7N	butyronitrile	1.521E+1	3.206E-1	-1.638E-4	2.982E-8	3.410E+4	1.087E+5
235	C4H6O2	methyl acrylate	1.516E+1	2.796E-1	-8.805E-5	-1.660E-8		
236	C4H8	1-butene	-2.994E+0	3.532E-1	-1.990E-4	4.463E-8	-1.260E+2	7.134E+4
237	C4H8	2-butene,cis	4.396E-1	2.953E-1	-1.018E-4	-0.616E-9	-6.990E+3	6.590E+4
238	C4H8	2-butene,trans	1.832E+1	2.564E-1	-7.013E-5	-8.989E-9	-1.118E+4	6.301E+4
239	C4H8	cyclobutane	-5.025E+1	5.024E-1	-3.558E-4	1.047E-7	2.667E+4	1.101E+5
240	C4H8	isobutylene	1.605E+1	2.804E-1	-1.091E-4	9.098E-9	-1.691E+4	5.811E+4
241	C4H8O	n-butyraldehyde	1.408E+1	3.457E-1	-1.723E-4	2.887E-8	-2.052E+5	-1.148E+5
242	C4H8O	isobutyraldehyde	2.446E+1	3.356E-1	-2.057E-4	6.368E-8	-2.159E+5	-1.214E+5
243	C4H8O	methyl ethyl ketone	1.094E+1	3.559E-1	-1.900E-4	3.920E-8	-2.385E+5	-1.462E+5
244	C4H8O	tetrahydrofuran	1.910E+1	5.162E-1	-4.132E-4	1.454E-7	-1.843E+5	
245	C4H8O	vinyl ethyl ether	1.728E+1	3.236E-1	-1.471E-4	2.150E-8	-1.403E+5	
246	C4H8O2	n-butyric acid	1.174E+1	4.137E-1	-2.430E-4	5.531E-8	-4.762E+5	
247	C4H8O2	isobutyric acid	9.814E+0	4.668E-1	-3.720E-4	1.350E-7	-4.842E+5	
248	C4H8O2	1,4-dioxane	-5.357E+1	5.987E-1	-4.085E-4	1.062E-7	-3.153E+5	-1.809E+5
249	C4H8O2	ethyl acetate	7.235E+0	4.072E-1	-2.092E-4	2.855E-8	-4.432E+5	-3.276E+5
250	C4H8O2	methyl propionate	1.820E+1	3.140E-1	-9.353E-5	-1.828E-8		

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
226	C4H6	1-butyne	1	-6.29693	2.12358	-6.42124	4.11543	194	TC	0.650	289
227	C4H6	2-butyne	3	9.6669	2536.78	-37.34		240	320	0.691	293
228	C4H6	1,2-butadiene	3	9.4837	2397.26	-30.88		245	305	0.652	293
229	C4H6	1,3-butadiene	1	-7.12563	1.73913	-2.70805	-1.68376	197	TC	0.621	293
230	C4H6O2	vinyl acetate	1	-7.80478	1.80668	-4.48160	1.70357	295	TC	0.932	293
231	C4H6O3	acetic anhydride	1	-18.1529	18.3036	-20.0953	16.6970	336	TC	1.087	293
232	C4H6O4	dimethyl oxalate								1.15	288
233	C4H6O4	succinic acid									
234	C4H7N	butyronitrile	2	49.985	6476.68	-5.599	3770.	320	TC	0.792	293
235	**C4H6O2**	methyl acrylate	3	9.4886	2788.43	-59.15		260	390	0.956	293
236	C4H8	1-butene	1	-6.88204	1.27051	-2.26284	-2.61632	170	TC	0.595	293
237	C4H8	2-butene,cis	1	-6.88706	1.15941	-2.19304	-3.12758	203	TC	0.621	293
238	C4H8	2-butene,trans	2	43.517	4174.56	-5.041	1995.	240	400	0.604	293
239	C4H8	cyclobutane	1	-7.40011	2.37997	-3.12269	-0.34310	213	TC	0.694	293
240	C4H8	isobutylene	1	-6.95542	1.35673	-2.45222	-1.46110	170	TC	0.594	293
241	C4H8O	n-butyraldehyde	1	-7.01403	0.12265	-0.00073	-8.50911	304	TC	0.802	293
242	C4H8O	isobutyraldehyde	1	-7.53679	1.08548	-1.52929	-8.48589	286	TC	0.789	293
243	C4H8O	methyl ethyl ketone	1	-7.71476	1.71061	-3.68770	-0.75169	255	TC	0.805	293
244	C4H8O	tetrahydrofuran	3	9.4867	2768.38	-46.90		270	370	0.889	293
245	C4H8O	vinyl ethyl ether	1	-7.33727	1.50878	-3.30376	-1.10728	256	TC	0.793	293
246	C4H8O2	n-butyric acid	1	-10.0392	3.15679	-7.72604	5.27630	364	TC	0.958	293
247	C4H8O2	isobutyric acid	2	76.037	9222.72	-8.986	3863.	320	TC	0.968	293
248	C4H8O2	1,4-dioxane	3	9.5125	2966.88	-62.15		275	410	1.033	293
249	C4H8O2	ethyl acetate	1	-7.68521	1.36511	-4.08980	-1.75342	289	TC	0.901	293
250	C4H8O2	methyl propionate	1	-8.23756	2.71406	-5.35097	-2.34114	294	TC	0.915	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
251	C4H8O2	n-propyl formate	88.107	180.3	354.1	538.0	40.6	285.	0.259	0.314	1.9
252	C4H8S	tetrahydrothiophene	88.172	177.0	394.2	632.					1.9
253	C4H9Cl	1-chlorobutane	92.569	150.1	351.6	542.	36.8	312.	0.255	0.218	2.0
254	C4H9Cl	2-chlorobutane	92.569	141.8	341.4	520.6	39.5	305.	0.28	0.30	2.1
255	C4H9Cl	tert-butyl chloride	92.569	247.8	324.	507.	39.5	295.	0.28	0.19	2.1
256	C4H9N	pyrrolidine	71.123		359.6	568.6	56.1	249.	0.295	0.274	1.6
257	C4H9NO	morpholine	87.122	268.4	401.4	618.	54.7	253.	0.27	0.37	1.5
258	C4H10	n-butane	58.124	134.8	272.7	425.2	38.0	255.	0.274	0.199	0.0
259	C4H10	isobutane	58.124	113.6	261.4	408.2	36.5	263.	0.283	0.183	0.1
260	C4H10O	n-butanol	74.123	183.9	390.9	563.1	44.2	275.	0.259	0.593	1.8
261	C4H10O	2-butanol	74.123	158.5	372.7	536.1	41.8	269.	0.252	0.577	1.7
262	C4H10O	isobutanol	74.123	165.2	381.0	547.8	43.0	273.	0.257	0.592	1.7
263	C4H10O	tert-butanol	74.123	298.8	355.5	506.2	39.7	275.	0.259	0.612	1.7
264	C4H10O	diethyl ether	74.123	156.9	307.6	466.7	36.4	280.	0.262	0.281	1.3
265	C4H10O	methyl propyl ether	74.123		311.7	476.3	38.0			0.271	1.2
266	C4H10O	methyl isopropyl ether	74.123		303.9	464.5	37.6			0.266	
267	C4H10O2	1,2-dimethoxyethane	90.123	202.	358.	536.	38.7	271.	0.235	0.358	0.0
268	C4H10O3	diethylene glycol	106.122	265.	519.	681.	47.				
269	C4H10S	diethyl sulfide	90.184	169.2	365.3	557.	39.6	318.	0.272	0.292	1.6
270	C4H10S2	diethyl disulfide	122.244	171.7	427.1	642.					2.0
271	C4H11N	n-butyl amine	73.139	224.1	349.5	531.9	42.0			0.329	1.3
272	C4H11N	isobutyl amine	73.139	188.0	336.2	514.3	41.0			0.368	1.2
273	C4H11N	diethyl amine	73.139	223.4	328.6	496.5	37.1	301.	0.271	0.291	1.1
274	C5F12	perfluoropentane	288.031		302.4	420.6	20.5	473.	0.276	0.432	0.0
275	C5H2F6O2	hexafluoroacetylacetone	208.059		327.3	485.1	27.7			0.278	

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
251	C4H8O2	n-propyl formate						
252	C4H8S	tetrahydrothiophene						
253	C4H9Cl	1-chlorobutane	-2.613E+0	4.497E-1	-2.937E-4	8.081E-8	-1.474E+5	-3.881E+4
254	C4H9Cl	2-chlorobutane	-3.433E+0	4.559E-1	-2.981E-4	8.256E-8	-1.616E+5	-5.351E+4
255	C4H9Cl	tert-butyl chloride	-3.931E+0	4.652E-1	-2.886E-4	7.871E-8	-1.834E+5	-6.414E+4
256	C4H9N	pyrrolidine	-5.153E+1	5.338E-1	-3.240E-4	7.528E-8	-3.600E+3	1.148E+5
257	C4H9NO	morpholine	-4.280E+1	5.388E-1	-2.666E-4	4.199E-8		
258	C4H10	n-butane	9.487E+0	3.313E-1	-1.108E-4	-2.822E-9	-1.262E+5	-1.610E+4
259	C4H10	isobutane	-1.390E+0	3.847E-1	-1.846E-4	2.895E-8	-1.346E+5	-2.090E+4
260	C4H10O	n-butanol	3.266E+0	4.180E-1	-2.242E-4	4.685E-8	-2.749E+5	-1.509E+5
261	C4H10O	2-butanol	5.753E+0	4.245E-1	-2.328E-4	4.773E-8	-2.928E+5	-1.677E+5
262	C4H10O	isobutanol	-7.708E+0	4.689E-1	-2.884E-4	7.231E-8	-2.834E+5	-1.674E+5
263	C4H10O	tert-butanol	-4.861E+1	7.172E-1	-7.084E-4	2.920E-7	-3.128E+5	-1.778E+5
264	C4H10O	diethyl ether	2.142E+1	3.359E-1	-1.035E-4	-9.357E-9	-2.524E+5	-1.224E+5
265	C4H10O	methyl propyl ether	2.131E+1	3.390E-1	-1.127E-4	-2.855E-9	-2.379E+5	-1.100E+5
266	C4H10O	methyl isopropyl ether	1.353E+1	3.697E-1	-1.481E-4	1.205E-8	-2.522E+5	-1.210E+5
267	C4H10O2	1,2-dimethoxyethane	3.223E+1	3.567E-1	-1.336E-4	8.399E-9		
268	C4H10O3	diethylene glycol	7.306E+1	3.461E-1	-1.468E-4	1.846E-8	-5.715E+5	
269	C4H10S	diethyl sulfide	1.359E+1	3.959E-1	-1.780E-4	2.649E-8	-8.353E+4	1.780E+4
270	C4H10S2	diethyl disulfide	2.690E+1	4.601E-1	-2.710E-4	5.970E-8	-7.469E+4	2.227E+4
271	C4H11N	n-butyl amine	5.079E+0	4.476E-1	-2.407E-4	7.599E-8	-9.211E+4	4.924E+4
272	C4H11N	isobutyl amine	9.491E+0	4.430E-1	-2.110E-4	2.333E-8		
273	C4H11N	diethyl amine	2.039E+0	4.430E-1	-2.183E-4	3.653E-8	-7.243E+4	7.214E+4
274	C5F12	perfluoropentane						
275	C5H2F6O2	hexafluoroacetylacetone						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
251	C4H8O2	n-propyl formate	1	-7.48563	1.71260	-5.16404	1.64290	299	TC	0.911	289
252	C4H8S	tetrahydrothiophene	3	9.3870	3160.1	-57.2		308	473	1.000	293
253	C4H9Cl	1-chlorobutane	1	-6.79852	0.78511	-2.31047	-5.83223	256	TC	0.886	293
254	C4H9Cl	2-chlorobutane	3	9.3705	2753.43	-47.15		250	375	0.873	293
255	C4H9Cl	tert-butyl chloride	3	9.1919	2567.15	-44.15		235	360	0.842	293
256	C4H9N	pyrrolidine	1	-7.73658	2.33495	-4.20213	-3.71251	316	TC	0.852	295
257	C4H9NO	morpholine	3	9.6162	3171.35	-71.15		300	440	1.000	293
258	C4H10	n-butane	1	-6.88709	1.15157	-1.99873	-3.13003	170	TC	0.579	293
259	C4H10	isobutane	1	-6.95579	1.50090	-2.52717	-1.49776	165	TC	0.557	293
260	C4H10O	n-butanol	1	-8.00756	0.53783	-9.34240	6.68692	275	TC	0.810	293
261	C4H10O	2-butanol	1	-7.80578	0.32456	-9.41265	2.64643	265	TC	0.807	293
262	C4H10O	isobutanol	3	10.2510	2874.73	-100.3		293	388	0.802	293
263	C4H10O	tert-butanol	3	10.2346	2658.29	-95.50		293	376	0.787	293
264	C4H10O	diethyl ether	1	-7.29916	1.24828	-2.91931	-3.36740	250	TC	0.713	293
265	C4H10O	methyl propyl ether	1	-7.59830	2.01601	-3.70390	-1.64710	258	TC	0.738	293
266	C4H10O	methyl isopropyl ether	1	-7.06696	0.86497	-2.16269	-4.72211	252	TC	0.724	288
267	C4H10O2	1,2-dimethoxyethane	3	9.4039	2869.79	-53.15		262	393	0.867	293
268	C4H10O3	diethylene glycol	3	10.4124	4122.52	-122.5		402	560	1.116	293
269	C4H10S	diethyl sulfide	3	9.3329	2896.27	-54.49		260	390	0.837	293
270	C4H10S2	diethyl disulfide	3	9.4405	3421.57	-64.19		312	455	0.998	293
271	C4H11N	n-butyl amine	1	-7.91668	2.36401	-5.01170	-2.54215	255	TC	0.739	293
272	C4H11N	isobutyl amine	1	-8.41366	3.12108	-5.70064	-1.83920	248	TC	0.722	295
273	C4H11N	diethyl amine	1	-7.26796	1.15810	-3.91125	-1.17981	240	TC	0.707	293
274	C5F12	perfluoropentane	3	9.5390	2470.33	-43.20		282	338		
275	C5H2F6O2	hexafluoroacetylacetone									

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
276	C5H4O2	furfural	96.085	234.5	434.9	670.	58.9			0.383	3.6
277	C5H5N	pyridine	79.102	231.5	388.4	620.0	56.3	254.	0.277	0.243	2.3
278	C5H6N2	2-methyl pyrazine	94.117		410.	634.3	50.1	283.	0.268	0.315	
279	C5H6O	2-methyl furan	82.102		338.	527.	47.2	247.	0.266	0.270	0.7
280	C5H8	cyclopentene	68.119	138.1	317.4	506.0					0.9
281	C5H8	1,2-pentadiene	68.119	135.9	318.0	503.	40.7	276.	0.269	0.173	
282	C5H8	1,3-pentadiene,trans	68.119	185.7	315.1	496.	39.9	275.	0.266	0.175	0.7
283	C5H8	1,4-pentadiene	68.119	124.9	299.1	478.	37.9	276.	0.263	0.104	0.4
284	C5H8	1-pentyne	68.119	167.5	313.3	493.5	40.5	278.	0.275	0.164	0.9
285	C5H8	2-methyl-1,3-butadiene	68.119	127.2	307.2	484.	38.5	276.	0.264	0.164	0.3
286	C5H8	3-methyl-1,2-butadiene	68.119	159.5	314.0	496.	41.1	267.	0.266	0.160	
287	C5H8O	cyclopentanone	84.118	222.5	403.9	634.6	51.1	268.	0.260	0.35	3.0
288	C5H8O	dihydropyran	84.118		359.	561.7	45.6	268.	0.262	0.247	1.4
289	C5H8O2	ethyl acrylate	100.118	201.	373.	552.	37.4	320.	0.261	0.400	
290	C5H10	cyclopentane	70.135	179.3	322.4	511.7	45.1	260.	0.275	0.196	0.0
291	C5H10	1-pentene	70.135	107.9	303.1	464.8	35.3	300.	0.31	0.233	0.4
292	C5H10	2-pentene,cis	70.135	121.7	310.1	476.	36.5			0.251	
293	C5H10	2-pentene,trans	70.135	132.9	309.5	475.	36.6			0.259	
294	C5H10	2-methyl-1-butene	70.135	135.6	304.3	465.	34.5			0.236	0.5
295	C5H10	2-methyl-2-butene	70.135	139.3	311.7	470.	34.5			0.244	
296	C5H10	3-methyl-1-butene	70.135	104.7	293.3	450.	35.1			0.209	
297	C5H10O	valeraldehyde	86.134	182.	376.	554.	35.4	333.	0.26	0.40	2.6
298	C5H10O	methyl n-propyl ketone	86.134	196.	375.4	561.1	36.9	301.	0.238	0.346	2.5
299	C5H10O	methyl isopropyl ketone	86.134	181.	367.5	553.4	38.5	310.	0.259	0.331	2.8
300	C5H10O	diethyl ketone	86.134	234.2	375.1	561.0	37.3	336.	0.269	0.344	2.7

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
276	C5H4O2	furfural						
277	C5H5N	pyridine	3.979E+1	4.928E-1	-3.558E-4	1.004E-7	1.403E+5	1.903E+5
278	C5H6N2	2-methyl pyrazine						
279	C5H6O	2-methyl furan						
280	C5H8	cyclopentene	-4.151E+1	4.631E-1	-2.579E-4	5.434E-8	3.295E+4	1.109E+5
281	C5H8	1,2-pentadiene	8.826E+0	3.880E-1	-2.280E-4	5.246E-8	1.457E+5	2.106E+5
282	C5H8	1,3-pentadiene,trans	3.069E+1	2.811E-1	-6.711E-5	-2.352E-8	7.787E+4	1.468E+5
283	C5H8	1,4-pentadiene	6.996E+0	3.952E-1	-2.374E-4	5.598E-8	1.055E+5	1.704E+5
284	C5H8	1-pentyne	1.807E+1	3.511E-1	-1.913E-4	4.098E-8	1.444E+5	2.104E+5
285	C5H8	2-methyl-1,3-butadiene	-3.412E+0	4.585E-1	-3.337E-4	1.000E-7	7.578E+4	1.460E+5
286	C5H8	3-methyl-1,2-butadiene	1.469E+1	3.598E-1	-1.976E-4	4.262E-8	1.298E+5	1.987E+5
287	C5H8O	cyclopentanone	-4.064E+1	5.255E-1	-3.124E-4	7.130E-8	-1.928E+5	
288	C5H8O	dihydropyran						
289	C5H8O2	ethyl acrylate	1.681E+1	3.690E-1	-1.382E-4	-5.732E-9		
290	C5H10	cyclopentane	-5.362E+1	5.426E-1	-3.031E-4	6.485E-8	-7.729E+4	3.860E+4
291	C5H10	1-pentene	-1.340E-1	4.329E-1	-2.317E-4	4.681E-8	-2.093E+4	7.917E+4
292	C5H10	2-pentene,cis	-1.429E+1	4.601E-1	-2.541E-4	5.455E-8	-2.809E+4	7.189E+4
293	C5H10	2-pentene,trans	1.947E+0	4.182E-1	-2.178E-4	4.405E-8	-3.178E+4	6.996E+4
294	C5H10	2-methyl-1-butene	1.057E+1	3.997E-1	-1.946E-4	3.314E-8	-3.634E+4	6.565E+4
295	C5H10	2-methyl-2-butene	1.180E+1	3.509E-1	-1.117E-4	-5.807E-9	-4.258E+4	5.970E+4
296	C5H10	3-methyl-1-butene	2.174E+1	3.890E-1	-2.007E-4	4.011E-8	-2.897E+4	7.482E+4
297	C5H10O	valeraldehyde	1.424E+1	4.329E-1	-2.107E-4	3.162E-8	-2.280E+5	-1.084E+5
298	C5H10O	methyl n-propyl ketone	1.147E+0	4.802E-1	-2.818E-4	6.661E-8	-2.588E+5	-1.372E+5
299	C5H10O	methyl isopropyl ketone	-2.914E+0	4.991E-1	-2.935E-4	6.665E-8		
300	C5H10O	diethyl ketone	3.001E+1	3.939E-1	-1.907E-4	3.398E-8	-2.588E+5	-1.354E+5

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
276	C5H4O2	furfural	3	8.5214	2760.09	-110.4		328	434	1.159	293
277	C5H5N	pyridine	1	-7.07689	1.21511	-2.76681	-2.87472	340	TC	0.983	293
278	C5H6N2	2-methyl pyrazine								1.044	273
279	C5H6O	2-methyl furan								0.913	293
280	C5H8	cyclopentene	3	9.3154	2583.07	-39.70		244	378	0.772	293
281	C5H8	1,2-pentadiene	3	9.3095	2544.34	-44.30		250	340	0.693	293
282	C5H8	1,3-pentadiene,trans	3	9.2980	2541.69	-41.43		250	340	0.676	293
283	C5H8	1,4-pentadiene	3	9.1190	2344.02	-41.69		240	320	0.661	293
284	C5H8	1-pentyne	3	9.4227	2515.62	-45.97		230	335	0.690	293
285	C5H8	2-methyl-1,3-butadiene	1	-6.59262	1.28930	-3.89168	1.70215	257	TC	0.681	293
286	C5H8	3-methyl-1,2-butadiene	1	-6.71441	1.53531	-4.64262	2.99854	274	TC	0.686	293
287	C5H8O	cyclopentanone	1	-7.19551	1.16379	-2.52546	-3.28861	273	TC	0.950	293
288	C5H8O	dihydropyran									
289	C5H8O2	ethyl acrylate	3	9.4688	2974.94	-58.15		274	409	0.921	293
290	C5H10	cyclopentane	1	-6.51809	0.38442	-1.11706	-4.50275	289	TC	0.745	293
291	C5H10	1-pentene	1	-7.04875	1.17813	-2.45105	-2.21727	190	TC	0.640	293
292	C5H10	2-pentene,cis	1	-6.80160	0.54458	-1.55279	-5.68029	275	TC	0.656	293
293	C5H10	2-pentene,trans	1	-6.99461	1.00724	-2.42146	-2.51692	274	TC	0.649	293
294	C5H10	2-methyl-1-butene	1	-6.82990	0.72660	-2.15363	-3.62225	274	TC	0.650	293
295	C5H10	2-methyl-2-butene	1	-7.71438	1.95946	-3.15710	-2.22515	276	TC	0.662	293
296	C5H10	3-methyl-1-butene	1	-7.18870	1.42502	-2.27292	-2.04323	273	TC	0.627	293
297	C5H10O	valeraldehyde	3	9.5421	3030.20	-58.15		277	412	0.810	293
298	C5H10O	methyl n-propyl ketone	3	9.3829	2934.87	-62.25		275	410	0.806	293
299	C5H10O	methyl isopropyl ketone	3	7.5577	1993.12	-103.2		271	406	0.803	293
300	C5H10O	diethyl ketone	1	-7.70542	1.44422	-3.60173	-2.88141	330	TC	0.814	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
301	C5H10O	2-methyl tetrahydrofuran	86.134		351.	537.	37.6	267.	0.225	0.264	
302	C5H10O	tetrahydropyran	86.134		361.	572.2	47.7	263.	0.263	0.218	1.6
303	C5H10O2	n-valeric acid	102.134	239.0	459.5	651.					
304	C5H10O2	isovaleric acid	102.134		449.7	634.					1.0
305	C5H10O2	isobutyl formate	102.134	178.	371.4	554.	37.3	352.	0.285	0.396	1.9
306	C5H10O2	n-propyl acetate	102.134	178.	374.7	549.4	33.3	345.	0.252	0.391	1.8
307	C5H10O2	ethyl propionate	102.134	199.3	372.2	546.0	33.6	345.	0.256	0.391	1.8
308	C5H10O2	methyl butyrate	102.134	188.4	375.9	554.4	34.8	340.	0.257	0.380	1.7
309	C5H10O2	methyl isobutyrate	102.134	185.4	365.5	540.8	34.3	339.	0.259	0.362	2.0
310	C5H11N	piperidine	85.150	262.7	379.6	594.0	47.6	289.	0.280	0.251	1.2
311	C5H12	n-pentane	72.151	143.4	309.2	469.7	33.7	304.	0.263	0.251	0.0
312	C5H12	2-methyl butane	72.151	113.3	301.0	460.4	33.9	306.	0.271	0.227	0.1
313	C5H12	2,2-dimethlypropane	72.151	256.6	282.6	433.8	32.0	303.	0.269	0.197	0.0
314	C5H12O	1-pentanol	88.150	195.0	411.1	588.2	39.1	326.	0.26	0.579	1.7
315	C5H12O	2-methyl-1-butanol	88.150	203.	401.9	571.0	33.4				
316	C5H12O	3-methyl-1-butanol	88.150	156.	405.2	579.4					1.8
317	C5H12O	2-methyl-2-butanol	88.150	264.4	375.5	545.0	39.5				1.9
318	C5H12O	2,2-dimethyl-1-propanol	88.150	327.	386.3	549.0					
319	C5H12O	ethyl propyl ether	88.150	146.4	336.4	500.2	33.7	339.	0.275	0.333	1.2
320	C5H12O	butyl methyl ether	88.150	157.7	343.3	512.8	33.7	329.	0.260	0.316	1.3
321	C5H12O	tert-butyl methyl ether	88.150		328.3	496.4	33.7			0.269	1.2
322	C6BrF5	bromopentafluorobenzene	246.960		410.0	601.	30.4			0.355	
323	C6ClF5	chloropentafluorobenzene	202.509		391.1	570.8	32.4	376.	0.256	0.400	
324	C6Cl2F4	dichlorotetrafluorobenzene	218.964		430.9	626.	53.2			0.622	
325	C6Cl3F3	1,3,5-trichlorotrifluorobenzene	235.419		471.5	684.9	32.7	448.	0.257	0.426	

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
301	C5H10O	2-methyl tetrahydrofuran						
302	C5H10O	tetrahydropyran						
303	C5H10O2	n-valeric acid	1.339E+1	5.033E-1	-2.931E-4	6.619E-8	-4.907E+5	-3.574E+5
304	C5H10O2	isovaleric acid						
305	C5H10O2	isobutyl formate	1.985E+1	4.034E-1	-1.436E-4	-7.402E-9		
306	C5H10O2	n-propyl acetate	1.542E+1	4.501E-1	-1.686E-4	-1.439E-8	-4.660E+5	
307	C5H10O2	ethyl propionate	1.985E+1	4.034E-1	-1.437E-4	-7.394E-9	-4.702E+5	-3.237E+5
308	C5H10O2	methyl butyrate						
309	C5H10O2	methyl isobutyrate						
310	C5H11N	piperidine	-5.307E+1	6.289E-1	-3.358E-4	6.427E-8	-4.903E+4	
311	C5H12	n-pentane	-3.626E+0	4.873E-1	-2.580E-4	5.305E-8	-1.465E+5	-8.370E+3
312	C5H12	2-methyl butane	-9.525E+0	5.066E-1	-2.729E-4	5.723E-8	-1.546E+5	-1.482E+4
313	C5H12	2,2-dimethlypropane	-1.659E+1	5.552E-1	-3.306E-4	7.633E-8	-1.661E+5	-1.524E+4
314	C5H12O	1-pentanol	3.869E+0	5.045E-1	-2.639E-4	5.120E-8	-2.989E+5	-1.461E+5
315	C5H12O	2-methyl-1-butanol	-9.483E+0	5.677E-1	-3.481E-4	8.637E-8	-3.027E+5	-1.657E+5
316	C5H12O	3-methyl-1-butanol	-9.542E+0	5.681E-1	-3.485E-4	8.650E-8	-3.023E+5	
317	C5H12O	2-methyl-2-butanol	-1.209E+1	6.096E-1	-4.204E-4	1.228E-7	-3.299E+5	-1.654E+5
318	C5H12O	2,2-dimethyl-1-propanol	1.215E+1	5.397E-1	-3.160E-4	7.122E-8	-2.931E+5	-1.255E+5
319	C5H12O	ethyl propyl ether						
320	C5H12O	butyl methyl ether						
321	C5H12O	tert-butyl methyl ether	2.534E+0	5.136E-1	-2.596E-4	4.303E-8	-2.931E+5	-1.255E+5
322	C6BrF5	bromopentafluorobenzene						
323	C6ClF5	chloropentafluorobenzene						
324	C6Cl2F4	dichlorotetrafluorobenzene						
325	C6Cl3F3	1,3,5-trichlorotrifluorobenzene						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
301	C5H10O	2-methyl tetrahydrofuran								0.855	293
302	C5H10O	tetrahydropyran								0.886	288
303	C5H10O2	n-valeric acid	3	11.0104	4092.15	-86.55		350	495	0.939	293
304	C5H10O2	isovaleric acid	3	2.4671	588.09	-261.9		359	378	0.925	293
305	C5H10O2	isobutyl formate	1	-8.01454	2.05091	-4.38201	-2.85582	270	TC	0.885	293
306	C5H10O2	n-propyl acetate	1	-7.85524	1.43936	-4.30187	-3.04832	312	TC	0.887	293
307	C5H10O2	ethyl propionate	1	-8.55094	3.10067	-6.99241	3.45112	307	TC	0.895	289
308	C5H10O2	methyl butyrate	1	-7.77600	1.32028	-3.93963	-3.53112	275	TC	0.898	293
309	C5H10O2	methyl isobutyrate	1	-7.65814	1.29248	-3.85632	-3.49858	270	TC	0.891	293
310	C5H11N	piperidine	1	-7.56707	2.15002	-3.89030	-3.70363	316	TC	0.862	293
311	C5H12	n-pentane	1	-7.28936	1.53679	-3.08367	-1.02456	195	TC	0.626	293
312	C5H12	2-methyl butane	1	-7.12727	1.38996	-2.54302	-2.45657	220	TC	0.620	293
313	C5H12	2,2-dimethlypropane	1	-6.89153	1.25019	-2.28233	-4.74891	260	TC	0.591	293
314	C5H12O	1-pentanol	1	-8.97725	2.99791	-12.9596	8.84205	290	TC	0.815	293
315	C5H12O	2-methyl-1-butanol	1	-9.26305	3.86947	-15.3562	12.1464	308	TC	0.819	293
316	C5H12O	3-methyl-1-butanol	3	10.0925	3026.43	-104.1		298	426	0.810	293
317	C5H12O	2-methyl-2-butanol	1	-8.66602	3.46689	-14.1750	10.9679	298	TC	0.809	293
318	C5H12O	2,2-dimethyl-1-propanol	3	11.5134	3694.96	-65.00		328	406	0.783	327
319	C5H12O	ethyl propyl ether	1	-8.05820	2.35916	-4.51822	0.92352	275	TC	0.733	293
320	C5H12O	butyl methyl ether	1	-7.75110	1.87213	-3.80629	-1.81410	285	TC	0.744	293
321	C5H10O	tert-butyl methyl ether	1	-7.82516	2.95493	-6.94079	12.17416	287	TC		
322	C6BrF5	bromopentafluorobenzene									
323	C6ClF5	chloropentafluorobenzene	1	-8.02172	1.54665	-3.78361	-2.99849	309	TC		
324	C6Cl2F4	dichlorotetrafluorobenzene									
325	C6Cl3F3	1,3,5-trichlorotrifluorobenzene	1	-8.20940	1.68886	-4.17824	-1.54115	364	TC		

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
326	C6F6	perfluorobenzene	186.056		353.4	516.7	33.0	335.	0.255	0.396	
327	C6F12	perfluorocyclohexane	300.047		326.0	457.2	24.3	459.	0.270	0.432	0.0
328	C6F14	perfluoro-n-hexane	338.044	186.0	329.8	448.8	18.7	606.	0.303	0.514	
329	C6F14	perfluoro-2-methylpentane	338.044		330.8	453.	18.2	550.	0.266	0.464	
330	C6F14	perfluoro-3-methylpentane	338.044		331.5	450.	16.9			0.476	
331	C6F14	perfluoro-2,3-dimethylbutane	338.044		332.9	463.	18.7	525.	0.256	0.394	
332	C6HF5	pentafluorobenzene	168.064		358.9	531.0	35.3	324.	0.260	0.373	
333	C6HF5O	pentafluorophenol	184.063		418.8	609.	40.0	348.	0.275	0.502	
334	C6H2F4	1,2,3,4-tetrafluorobenzene	150.074		367.5	550.8	37.9	313.	0.259	0.344	
335	C6H2F4	1,2,3,5-tetrafluorobenzene	150.074		357.6	535.3	37.5			0.346	
336	C6H2F4	1,2,4,5-tetrafluorobenzene	150.074		363.4	543.4	38.0			0.355	
337	C6H4Cl2	o-dichlorobenzene	147.004	256.1	452.0	729.	41.0	360.	0.244	0.272	2.3
338	C6H4F2	1,4-difluorobenzene	114.094		362.0	556.	44.0			0.299	
339	C6H5Br	bromobenzene	157.010	242.3	429.2	670.0	45.2	324.	0.263	0.251	1.5
340	C6H5Cl	chlorobenzene	112.559	227.6	404.9	632.4	45.2	308.	0.265	0.249	1.6
341	C6H5F	fluorobenzene	96.104	234.0	357.9	560.1	45.5	269.	0.263	0.244	1.4
342	C6H5I	iodobenzene	204.011	241.8	461.6	721.0	45.2	351.	0.265	0.249	1.4
343	C6H6	benzene	78.114	278.7	353.2	562.2	48.9	259.	0.271	0.212	0.0
344	C6H6O	phenol	94.113	314.0	455.0	694.2	61.3	229.	0.240	0.438	1.6
345	C6H7N	aniline	93.129	267.0	457.6	699.	53.1	274.	0.250	0.384	1.6
346	C6H7N	2-methylpyridine	93.129	207.	402.6	621.	46.0			0.299	1.9
347	C6H7N	3-methylpyridine	93.129		417.3	645.					2.4
348	C6H7N	4-methylpyridine	93.129	276.9	418.5	646.0	44.6	311.	0.260	0.301	
349	C6H10	1,5-hexadiene	82.146	132.0	332.6	507.0	34.4			0.160	
350	C6H10	cyclohexene	82.146	169.7	356.1	560.5	43.4			0.210	0.6

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
326	C6F6	perfluorobenzene	3.628E+1	5.267E-1	-4.547E-4	1.456E-7	-9.573E+5	-8.800E+5
327	C6F12	perfluorocyclohexane						
328	C6F14	perfluoro-n-hexane						
329	C6F14	perfluoro-2-methylpentane						
330	C6F14	perfluoro-3-methylpentane						
331	C6F14	perfluoro-2,3-dimethylbutane						
332	C6HF5	pentafluorobenzene						
333	C6HF5O	pentafluorophenol						
334	C6H2F4	1,2,3,4-tetrafluorobenzene						
335	C6H2F4	1,2,3,5-tetrafluorobenzene						
336	C6H2F4	1,2,4,5-tetrafluorobenzene						
337	C6H4Cl2	o-dichlorobenzene	-1.430E+1	5.506E-1	-4.513E-4	1.429E-7	3.000E+4	8.273E+4
338	C6H4F2	1,4-difluorobenzene	-2.596E+1	5.722E-1	-4.677E-4	1.475E-7	-3.074E+5	-2.530E+5
339	C6H5Br	bromobenzene	-2.881E+1	5.351E-1	-4.080E-4	1.212E-7	1.051E+5	1.386E+5
340	C6H5Cl	chlorobenzene	-3.389E+1	5.631E-1	-4.522E-4	1.426E-7	5.187E+4	9.923E+4
341	C6H5F	fluorobenzene	-3.873E+1	5.669E-1	-4.434E-4	1.355E-7	-1.166E+5	-6.908E+4
342	C6H5I	iodobenzene	-2.927E+1	5.564E-1	-4.509E-4	1.443E-7	1.627E+5	1.879E+5
343	C6H6	benzene	-3.392E+1	4.739E-1	-3.017E-4	7.130E-8	8.298E+4	1.297E+5
344	C6H6O	phenol	-3.584E+1	5.983E-1	-4.827E-4	1.527E-7	-9.642E+4	-3.290E+4
345	C6H7N	aniline	-4.052E+1	6.385E-1	-5.133E-4	1.633E-7	8.692E+4	1.668E+5
346	C6H7N	2-methylpyridine	-3.626E+1	5.584E-1	-3.704E-4	9.663E-8	9.902E+4	1.772E+5
347	C6H7N	3-methylpyridine	-3.709E+1	5.600E-1	-3.719E-4	9.685E-8	1.062E+5	1.844E+5
348	C6H7N	4-methylpyridine	-1.743E+1	4.882E-1	-2.798E-4	5.451E-8	1.023E+5	
349	C6H10	1,5-hexadiene					8.374E+4	
350	C6H10	cyclohexene	-6.865E+1	7.252E-1	-5.414E-4	1.644E-7	-5.360E+3	1.069E+5

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
326	C6F6	perfluorobenzene	1	-7.97271	1.43798	-3.62195	-4.79241	278	TC		
327	C6F12	perfluorocyclohexane	3	7.2885	1374.07	-136.8		280	400		
328	C6F14	perfluoro-n-hexane	1	-9.16184	2.97539	-7.17322	5.50684	270	TC		
329	C6F14	perfluoro-2-methylpentane	3	9.6896	2760.0	-45.70		259	346	1.733	293
330	C6F14	perfluoro-3-methylpentane	3	9.2670	2565.44	-54.23		255	333		
331	C6F14	perfluoro-2,3-dimethylbutane	3	9.9846	2933.85	-38.70		262	333		
332	C6HF5	pentafluorobenzene	1	-7.79730	1.35271	-3.50409	-3.76856	322	TC		
333	C6HF5O	pentafluorophenol	1	-8.69734	2.03071	-5.32619	-3.28915	379	TC		
334	C6H2F4	1,2,3,4-tetrafluorobenzene	1	-7.71223	1.48262	-3.55699	-2.83189	301	TC		
335	C6H2F4	1,2,3,5-tetrafluorobenzene	1	-7.71193	1.46356	-3.49452	-3.04916	288	TC		
336	C6H2F4	1,2,4,5-tetrafluorobenzene	1	-7.79740	1.57406	-3.82060	-2.45398	294	TC		
337	C6H4C12	o-dichlorobenzene	1	-8.23991	6.34949	-13.24326	17.25417	403	TC	1.306	293
338	C6H4F2	1,4-difluorobenzene									
339	C6H5Br	bromobenzene	1	-7.54985	2.09359	-3.57864	-1.82558	329	TC	1.495	293
340	C6H5Cl	chlorobenzene	1	-7.58700	2.26551	-4.09418	0.17038	335	TC	1.106	293
341	C6H5F	fluorobenzene	2	48.521	5819.21	-5.489	2910.	300	TC	1.024	293
342	C6H5I	iodobenzene	2	51.071	7589.50	-5.646	4845.	380	TC	1.855	277
343	C6H6	benzene	1	-6.98273	1.33213	-2.62863	-3.33399	288	TC	0.885	289
344	C6H6O	phenol	1	-8.75550	2.92651	-6.31601	-1.36889	380	TC	1.059	313
345	C6H7N	aniline	1	-7.65517	0.85386	-2.51602	-5.96795	376	TC	1.022	293
346	C6H7N	2-methylpyridine	3	9.5725	3259.83	-61.58		352	442	0.950	288
347	C6H7N	3-methylpyridine	3	9.6136	3411.91	-61.95		347	458	0.961	288
348	C6H7N	4-methyl pyridine	1	-7.13732	0.93444	-2.93708	-2.65045	348	TC	0.955	293
349	C6H10	1,5-hexadiene	1	-7.72848	2.21648	-2.23190	-8.51382	273	TC	0.692	293
350	C6H10	cyclohexene	3	9.2041	2813.53	-49.98		300	360	0.816	289

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
351	C6H10O	cyclohexanone	98.145	242.0	428.8	629.	39.				3.1
352	C6H11N	capronitrile	97.161	194.	436.8	622.	32.5			0.524	3.5
353	C6H12	cyclohexane	84.162	279.6	353.8	553.5	40.7	308.	0.273	0.212	0.3
354	C6H12	methylcyclopentane	84.162	130.7	345.0	532.7	37.8	319.	0.272	0.231	0.0
355	C6H12	1-hexene	84.163	133.3	336.6	504.0	31.7	350.	0.26	0.285	0.4
356	C6H12	2-hexene,cis	84.162	132.0	342.0	518.	32.8	351.	0.27	0.256	
357	C6H12	2-hexene,trans	84.162	140.	341.0	516.	32.7	351.	0.27	0.242	
358	C6H12	3-hexene,cis	84.162	135.3	339.6	517.	32.8	350.	0.27	0.225	0.3
359	C6H12	3-hexene,trans	84.162	159.7	340.3	519.9	32.5	350.	0.26	0.227	0.0
360	C6H12	2-methyl-2-pentene	84.162	138.1	340.5	518.	32.8	351.	0.27	0.229	
361	C6H12	3-methyl-2-pentene,cis	84.162	138.3	340.9	518.	32.8	351.	0.27	0.269	
362	C6H12	3-methyl-2-pentene,trans	84.162	134.7	343.6	521.	32.9	350.	0.27	0.207	
363	C6H12	4-methyl-2-pentene,cis	84.162	139.	329.6	490.	30.4	360.	0.27	0.29	
364	C6H12	4-methyl-2-pentene,trans	84.162	132.	331.7	493.	30.4	360.	0.27	0.29	
365	C6H12	2,3-dimethyl-1-butene	84.162	115.9	328.8	501.	32.4	343.	0.27	0.221	
366	C6H12	2,3-dimethyl-2-butene	84.162	198.9	346.4	524.	33.6	351.	0.27	0.239	
367	C6H12	3,3-dimethyl-1-butene	84.162	158.	314.4	490.	32.5	340.	0.27	0.121	
368	C6H12O	cyclohexanol	100.160	298.	434.3	625.	37.5			0.528	1.7
369	C6H12O	ethyl propyl ketone	100.160		396.6	582.8	33.2			0.378	
370	C6H12O	methyl butyl ketone	100.160	216.	400.7	587.0	33.2			0.392	
371	C6H12O	methyl isobutyl ketone	100.160	189.	389.6	571.	32.7			0.385	2.8
372	C6H12O2	n-butyl acetate	116.160	199.7	399.3	579.	31.4	400.	0.26	0.417	1.8
373	C6H12O2	isobutyl acetate	116.160	174.3	389.7	564.	30.2	414.	0.267	0.455	1.9
374	C6H12O2	ethyl butyrate	116.160	180.	394.7	569.	29.6	421.	0.263	0.461	1.8
375	C6H12O2	ethyl isobutyrate	116.160	185.	383.2	555.	29.7	421.	0.271	0.431	2.1

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
351	C6H10O	cyclohexanone	-3.781E+1	5.539E-1	-1.953E-4	-1.534E-8	-2.303E+5	-9.081E+4
352	C6H11N	capronitrile						
353	C6H12	cyclohexane	-5.454E+1	6.113E-1	-2.523E-4	1.321E-8	-1.232E+5	3.178E+4
354	C6H12	methylcyclopentane	-5.011E+1	6.381E-1	-3.642E-4	8.014E-8	-1.068E+5	3.580E+4
355	C6H12	1-hexene	-1.746E+0	5.309E-1	-2.903E-4	6.054E-8	-4.170E+4	8.750E+4
356	C6H12	2-hexene,cis	-9.810E+0	5.309E-1	-2.717E-4	4.827E-8	-5.238E+4	7.628E+4
357	C6H12	2-hexene,trans	-3.292E+1	6.929E-1	-5.619E-4	2.005E-7	-5.393E+4	7.649E+4
358	C6H12	3-hexene,cis	-2.173E+1	5.811E-1	-3.362E-4	7.457E-8	-4.765E+4	8.307E+4
359	C6H12	3-hexene,trans	-4.338E+0	5.510E-1	-3.282E-4	8.047E-8	-5.447E+4	7.767E+4
360	C6H12	2-methyl-2-pentene	-1.475E+1	5.669E-1	-3.341E-4	7.963E-8	-6.653E+4	7.126E+4
361	C6H12	3-methyl-2-pentene,cis	-1.475E+1	5.669E-1	-3.341E-4	7.963E-8	-6.222E+4	7.327E+4
362	C6H12	3-methyl-2-pentene,trans	-1.475E+1	5.669E-1	-3.341E-4	7.963E-8	-6.314E+4	7.134E+4
363	C6H12	4-methyl-2-pentene,cis	-1.675E+0	5.376E-1	-3.044E-4	6.753E-8	-5.748E+4	8.219E+4
364	C6H12	4-methyl-2-pentene,trans	1.263E+1	5.154E-1	-3.007E-4	7.327E-8	-6.150E+4	7.967E+4
365	C6H12	2,3-dimethyl-1-butene	7.025E+0	5.585E-1	-3.696E-4	1.063E-7	-6.636E+4	7.909E+4
366	C6H12	2,3-dimethyl-2-butene	2.294E+0	4.827E-1	-2.199E-4	3.042E-8	-6.984E+4	7.591E+4
367	C6H12	3,3-dimethyl-1-butene	-1.256E+1	5.485E-1	-2.915E-4	5.208E-8	-6.155E+4	9.822E+4
368	C6H12O	cyclohexanol	-5.553E+1	7.214E-1	-4.086E-4	8.235E-8	-2.948E+5	-1.180E+5
369	C6H12O	ethyl propyl ketone						
370	C6H12O	methyl butyl ketone						
371	C6H12O	methyl isobutyl ketone	3.894E+0	5.656E-1	-3.318E-4	8.231E-8	-2.840E+5	
372	C6H12O2	n-butyl acetate	1.362E+1	5.489E-1	-2.278E-4	0.791E-9	-4.868E+5	
373	C6H12O2	isobutyl acetate	7.310E+0	5.740E-1	-2.576E-4	1.101E-8	-4.955E+5	
374	C6H12O2	ethyl butyrate	2.151E+1	4.928E-1	-1.938E-4	3.559E-9		
375	C6H12O2	ethyl isobutyrate						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
351	C6H10O	cyclohexanone								0.951	288
352	C6H11N	capronitrile	3	9.7814	3677.63	-60.40		363	438	0.809	288
353	C6H12	cyclohexane	1	-6.96009	1.31328	-2.75683	-2.45491	293	TC	0.779	293
354	C6H12	methylcyclopentane	1	-7.15937	1.48017	-2.92482	-1.98377	288	TC	0.754	289
355	C6H12	1-hexene	1	-7.76467	2.29843	-4.44302	0.89947	289	TC	0.673	293
356	C6H12	2-hexene,cis	3	9.5855	2897.97	-39.30		245	370	0.687	293
357	C6H12	2-hexene,trans	2	53.818	5734.51	-6.348	3548.	280	TC	0.678	293
358	C6H12	3-hexene,cis	3	9.2182	2680.52	-48.40		245	365	0.680	293
359	C6H12	3-hexene,trans	3	9.3086	2718.68	-47.77		245	365	0.677	293
360	C6H12	2-methyl-2-pentene	3	9.3221	2725.89	-47.64		245	370	0.691	289
361	C6H12	3-methyl-2-pentene,cis	3	9.2922	2731.79	-46.47		248	364	0.694	293
362	C6H12	3-methyl-2-pentene,trans	3	9.3282	2750.50	-48.33		250	366	0.698	293
363	C6H12	4-methyl-2-pentene,cis	3	9.1325	2580.52	-46.56		238	352	0.669	293
364	C6H12	4-methyl-2-pentene,trans	3	9.2223	2631.57	-46.00		240	354	0.669	293
365	C6H12	2,3-dimethyl-1-butene	3	9.1810	2612.69	-43.78		235	360	0.678	293
366	C6H12	2,3-dimethyl-2-butene	1	-7.15852	1.36868	-4.12890	1.53046	302	TC	0.708	293
367	C6H12	3,3-dimethyl-1-butene	1	-6.54633	1.50412	-4.54855	2.96466	264	TC	0.653	293
368	C6H12O	cyclohexanol	1	-8.77758	3.11622	-12.3555	7.50610	367	TC	0.942	303
369	C6H12O	ethyl propyl ketone	3	9.5000	3144.85	-65.19		347	408	0.813	295
370	C6H12O	methyl butyl ketone								0.816	288
371	C6H12O	methyl isobutyl ketone	1	-8.54349	2.92801	-5.27311	-2.54507	295	TC	0.801	293
372	C6H12O2	n-butyl acetate	1	-8.36658	2.40985	-6.42511	4.85939	333	TC	0.898	273
373	C6H12O2	isobutyl acetate	1	-8.12456	1.66934	-4.20511	-3.72813	290	TC	0.875	293
374	C6H12O2	ethyl butyrate	1	-8.00073	1.34045	-3.99843	-3.74347	290	TC	0.879	293
375	C6H12O2	ethyl isobutyrate	1	-8.08582	1.61436	-4.14816	-3.80720	280	TC	0.869	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
376	C6H12O2	n-propyl propionate	116.160	197.3	395.8	571.	30.2				1.8
377	C6H12O2	n-amyl formate	116.160	199.7	403.6	576.	34.6			0.538	
378	C6H12O2	isoamyl formate	116.160		396.7	578.					
379	C6H14	n-hexane	86.178	177.8	341.9	507.5	30.1	370.	0.264	0.299	0.0
380	C6H14	2-methyl pentane	86.178	119.5	333.4	497.5	30.1	367.	0.267	0.278	
381	C6H14	3-methyl pentane	86.178	155.	336.4	504.5	31.2	367.	0.273	0.272	
382	C6H14	2,2-dimethyl butane	86.178	173.3	322.8	488.8	30.8	359.	0.272	0.232	
383	C6H14	2,3-dimethyl butane	86.178	144.6	331.1	500.0	31.3	358.	0.269	0.247	
384	C6H14O	1-hexanol	102.177	229.2	430.2	611.	40.5	381.	0.300	0.560	1.8
385	C6H14O	2-hexanol	102.177		411.	586.2					
386	C6H14O	ethyl butyl ether	102.177	170.	365.4	531.	30.4	390.	0.27	0.40	1.2
387	C6H14O	methyl amyl ether	102.177		372.	546.5	30.4	392.	0.262	0.347	
388	C6H14O	dipropyl ether	102.177	151.	363.2	530.6	30.3			0.369	1.2
389	C6H14O	diisopropyl ether	102.177	187.7	341.7	500.3	28.8	386.	0.262	0.331	1.2
390	C6H15N	dipropylamine	101.193	233.6	382.5	555.8	29.9			0.471	1.0
391	C6H15N	diisopropylamine	101.193	212.2	357.1	523.1	30.2			0.360	1.0
392	C6H15N	triethylamine	101.193	158.4	362.5	535.	30.3	389.	0.265	0.320	0.9
393	C7F8	perfluorotoluene	236.061		377.7	534.5	27.1	428.	0.260	0.475	
394	C7F14	perfluoromethylcyclohexane	350.055		349.5	486.8	23.3			0.491	
395	C7F16	perfluoro-n-heptane	388.051	195.	355.6	474.8	16.2	664.	0.273	0.556	
396	C7H3F5	2,3,4,5,6-pentafluorotoluene	182.091		390.7	566.5	31.3	384.	0.255	0.415	
397	C7H5N	benzonitrile	103.124	260.	464.3	699.4	42.2			0.362	3.5
398	C7H6O	benzaldehyde	106.124	216.	452.2	694.8	45.4			0.316	2.8
399	C7H6O2	benzoic acid	122.124	395.6	523.	752.	45.6	341.	0.25	0.62	1.7
400	C7H8	toluene	92.141	178.	383.8	591.8	41.0	316.	0.263	0.263	0.4

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
376	C6H12O2	n-propyl propionate						
377	C6H12O2	n-amyl formate						
378	C6H12O2	isoamyl formate						
379	C6H14	n-hexane	-4.413E+0	5.820E-1	-3.119E-4	6.494E-8	-1.673E+5	-1.670E+2
380	C6H14	2-methyl pentane	-1.057E+1	6.184E-1	-3.573E-4	8.085E-8	-1.744E+5	-5.020E+3
381	C6H14	3-methyl pentane	-2.386E+0	5.690E-1	-2.870E-4	5.033E-8	-1.717E+5	-2.140E+3
382	C6H14	2,2-dimethyl butane	-1.663E+1	6.293E-1	-3.481E-4	6.850E-8	-1.857E+5	-9.630E+3
383	C6H14	2,3-dimethyl butane	-1.461E+1	6.150E-1	-3.376E-4	6.820E-8	-1.779E+5	-4.100E+3
384	C6H14O	1-hexanol	4.811E+0	5.891E-1	-3.010E-4	5.426E-8	-3.178E+5	-1.357E+5
385	C6H14O	2-hexanol						
386	C6H14O	ethyl butyl ether	2.363E+1	5.367E-1	-2.528E-4	4.157E-8		
387	C6H14O	methyl amyl ether						
388	C6H14O	dipropyl ether	1.862E+1	5.335E-1	-2.285E-4	2.442E-8	-2.931E+5	-1.056E+5
389	C6H14O	diisopropyl ether	7.505E+0	5.849E-1	-3.027E-4	5.845E-8	-3.190E+5	-1.220E+5
390	C6H15N	dipropylamine	6.460E+0	6.293E-1	-3.390E-4	7.072E-8		
391	C6H15N	diisopropylamine						
392	C6H15N	triethylamine	-1.843E+1	7.155E-1	-4.392E-4	1.092E-7	-9.965E+4	1.104E+5
393	C7F8	perfluorotoluene						
394	C7F14	perfluoromethylcyclohexane					-2.898E+6	
395	C7F16	perfluoro-n-heptane					-3.387E+6	-3.089E+6
396	C7H3F5	2,3,4,5,6-pentafluorotoluene						
397	C7H5N	benzonitrile	-2.605E+1	5.732E-1	-4.430E-4	1.349E-7	2.190E+5	2.610E+5
398	C7H6O	benzaldehyde	-1.214E+1	4.961E-1	-2.845E-4	5.167E-8	-3.680E+4	2.240E+4
399	C7H6O2	benzoic acid	-5.129E+1	6.293E-1	-4.237E-4	1.062E-7	-2.904E+5	-2.106E+5
400	C7H8	toluene	-2.435E+1	5.125E-1	-2.765E-4	4.911E-8	5.003E+4	1.221E+5

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
376	C6H12O2	n-propyl propionate	1	-8.00913	1.33297	-3.97513	-3.83674	290	TC	0.881	293
377	C6H12O2	n-amyl formate								0.902	273
378	C6H12O2	isoamyl formate								0.882	293
379	C6H14	n-hexane	1	-7.46765	1.44211	-3.28222	-2.50941	220	TC	0.659	293
380	C6H14	isohexane	1	-7.31728	1.33940	-3.06807	-1.99255	240	TC	0.653	293
381	C6H14	3-methyl pentane	1	-7.27084	1.26113	-2.81741	-2.17642	235	TC	0.664	293
382	C6H14	2,2-dimethyl butane	1	-7.24296	1.66876	-3.23718	-0.53171	225	TC	0.649	293
383	C6H14	2,3-dimethyl butane	1	-7.27870	1.56349	-3.05387	-1.57752	235	TC	0.662	293
384	C6H14O	1-hexanol	3	11.4792	4055.45	-76.49		308	430	0.819	293
385	C6H14O	2-hexanol	3	10.0989	3158.53	-99.98		295	418	0.816	293
386	C6H14O	ethyl butyl ether	1	-8.30292	2.02889	-3.26245	-6.32274	311	TC	0.749	293
387	C6H14O	methyl amyl ether								0.75	298
388	C6H14O	dipropyl ether	1	-8.22229	2.22110	-3.90291	-3.77431	288	TC	0.736	293
389	C6H14O	diisopropyl ether	1	-7.62613	1.29308	-2.90101	-6.14467	297	TC	0.724	293
390	C6H15N	dipropylamine	1	-8.56471	2.93461	-5.56089	0.56571	275	TC	0.738	293
391	C6H15N	diisopropylamine	1	-7.84319	1.80097	-4.66547	-0.29364	257	TC	0.722	295
392	C6H15N	triethylamine	1	-11.3617	10.0092	-13.4750	-9.36035	323	TC	0.728	293
393	C7F8	perfluorotoluene									
394	C7F14	perfluoromethylcyclohexane	1	-10.5469	6.38028	-10.6940	11.6006	306	TC	1.789	298
395	C7F16	perfluoro-n-heptane	1	-9.13392	2.75328	-8.33813	6.82085	271	TC	1.733	293
396	C7H3F5	2,3,4,5,6-pentafluorotoluene	1	-8.05688	1.46673	-3.82439	-2.78727	313	TC		
397	C7H5N	benzonitrile	2	53.154	7912.31	-5.881	4898.	340	TC	1.010	288
398	C7H6O	benzaldehyde	1	-7.16527	0.52710	-1.51484	-7.92908	300	TC	1.045	293
399	C7H6O2	benzoic acid	3	10.5432	4190.70	-125.2		405	560	1.075	403
400	C7H8	toluene	1	-7.28607	1.38091	-2.83433	-2.79168	309	TC	0.867	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
401	C7H8O	methyl phenyl ether	108.140	235.7	426.8	645.6	42.5			0.347	1.2
402	C7H8O	benzyl alcohol	108.140	257.8	478.6	720.2	44.0				1.7
403	C7H8O	o-cresol	108.140	304.1	464.2	697.6	50.1			0.433	1.6
404	C7H8O	m-cresol	108.140	285.4	475.4	705.8	45.6	309.	0.240	0.454	1.8
405	C7H8O	p-cresol	108.140	307.9	475.1	704.6	51.5			0.505	1.6
406	C7H9N	2,3-dimethylpyridine	107.156		434.4	655.4					2.2
407	C7H9N	2,4-dimethylpyridine	107.156		431.6	647.					2.3
408	C7H9N	2,5-dimethylpyridine	107.156		430.2	644.2					2.2
409	C7H9N	2,6-dimethylpyridine	107.156	267.	417.2	623.8					1.7
410	C7H9N	3,4-dimethylpyridine	107.156		452.3	683.8					1.9
411	C7H9N	3,5-dimethylpyridine	107.156		445.1	667.2					2.6
412	C7H9N	N-methylaniline	107.156	216.	469.4	701.	52.0			0.475	1.7
413	C7H9N	o-toluidine	107.156	258.4	473.5	694.	37.5			0.438	1.6
414	C7H9N	m-toluidine	107.156	242.8	476.6	709.	41.5			0.410	1.5
415	C7H9N	p-toluidine	107.156	316.9	473.7	667.	23.8			0.443	1.6
416	C7H14	cycloheptane	98.189	265.	391.6	604.2	38.1	353.	0.268	0.237	
417	C7H14	1,1-dimethylcyclopentane	98.189	203.4	361.0	547.	34.4	360.	0.27	0.273	
418	C7H14	1,2-dimethylcyclopentane-cis	98.189	219.3	372.7	564.8	34.4	368.	0.27	0.269	
419	C7H14	1,2-dimethylcyclopentane-trans	98.189	155.6	365.0	553.2	34.4	362.	0.27	0.269	
420	C7H14	ethylcyclopentane	98.189	134.7	376.6	569.5	34.0	375.	0.269	0.271	
421	C7H14	methylcyclohexane	98.189	146.6	374.1	572.2	34.7	368.	0.268	0.236	0.0
422	C7H14	1-heptene	98.189	154.3	366.8	537.3	28.3	440.	0.28	0.358	0.3
423	C7H14	2,3,3-trimethyl-1-butene	98.189	163.3	351.0	533.	28.9	400.	0.26	0.192	
424	C7H14O	methyl amyl ketone	114.188		424.2	611.5	34.4			0.483	
425	C7H14O2	n-propyl butyrate	130.187	176.0	416.2	590.	27.1				1.8

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
401	C7H8O	methyl phenyl ether						
402	C7H8O	benzyl alcohol	-7.398E+0	5.481E-1	-3.357E-4	7.771E-8	-9.408E+4	
403	C7H8O	o-cresol	-3.228E+1	7.005E-1	-5.924E-4	2.124E-7	-1.287E+5	-3.300E+4
404	C7H8O	m-cresol	-4.501E+1	7.264E-1	-6.029E-4	2.077E-7	-1.324E+5	-4.057E+4
405	C7H8O	p-cresol	-4.063E+1	7.055E-1	-5.757E-4	1.967E-7	-1.255E+5	-3.090E+4
406	C7H9N	2,3-dimethylpyridine					6.829E+4	
407	C7H9N	2,4-dimethylpyridine						
408	C7H9N	2,5-dimethylpyridine					6.644E+4	
409	C7H9N	2,6-dimethylpyridine						
410	C7H9N	3,4-dimethylpyridine					7.005E+4	
411	C7H9N	3,5-dimethylpyridine					7.281E+4	
412	C7H9N	N-methylaniline					8.541E+4	1.993E+5
413	C7H9N	o-toluidine						
414	C7H9N	m-toluidine	-1.599E+1	5.681E-1	-3.033E-4	4.643E-8		
415	C7H9N	p-toluidine						
416	C7H14	cycloheptane	-7.619E+1	7.867E-1	-4.204E-4	7.561E-8	-1.194E+5	6.305E+4
417	C7H14	1,1-dimethylcyclopentane	-5.789E+1	7.670E-1	-4.501E-4	1.010E-7	-1.384E+5	3.906E+4
418	C7H14	1,2-dimethylcyclopentane-cis	-5.564E+1	7.616E-1	-4.484E-4	1.014E-7	-1.296E+5	4.576E+4
419	C7H14	1,2-dimethylcyclopentane-trans	-5.452E+1	7.591E-1	-4.480E-4	1.017E-7	-1.368E+5	3.839E+4
420	C7H14	ethylcyclopentane	-5.531E+1	7.511E-1	-4.396E-4	1.004E-7	-1.272E+5	4.459E+4
421	C7H14	methylcyclohexane	-6.192E+1	7.842E-1	-4.438E-4	9.366E-8	-1.549E+5	2.730E+4
422	C7H14	1-heptene	-3.303E+0	6.297E-1	-3.512E-4	7.607E-8	-6.234E+4	9.588E+4
423	C7H14	2,3,3-trimethyl-1-butene					-8.654E+4	
424	C7H14O	methyl amyl ketone						
425	C7H14O2	n-propyl butyrate						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
401	C7H8O	methyl phenyl ether	1	-7.87545	1.83291	-4.06977	-2.18906	357	TC	0.996	293
402	C7H8O	benzyl alcohol	1	-7.09506	1.18389	-9.14255	5.56311	303	TC	1.041	298
403	C7H8O	o-cresol	1	-8.82061	3.14917	-6.63041	-0.84857	393	TC	1.028	313
404	C7H8O	m-cresol	1	-8.58506	2.82624	-8.57418	8.74822	423	TC	1.034	293
405	C7H8O	p-cresol	1	-9.23951	3.29880	-7.17725	-0.48000	401	TC	1.019	313
406	C7H9N	2,3-dimethylpyridine	3	10.5290	4219.74	-33.04		420	440	0.942	298
407	C7H9N	2,4-dimethylpyridine	3	10.2785	3991.27	-42.79		418	438	0.949	273
408	C7H9N	2,5-dimethylpyridine	3	9.6844	3545.14	-63.59		350	435	0.938	273
409	C7H9N	2,6-dimethylpyridine	3	9.6286	3385.20	-65.19		350	420	0.923	298
410	C7H9N	3,4-dimethylpyridine	3	10.3315	4237.04	-41.65		400	460	0.954	298
411	C7H9N	3,5-dimethylpyridine	3	10.2648	4106.95	-44.45		400	460	0.939	298
412	C7H9N	N-methylaniline	3	9.6864	3756.28	-80.71		320	480	0.989	293
413	C7H9N	o-toluidine	1	-8.68458	2.72553	-5.94620	-1.09185	392	TC	0.998	293
414	C7H9N	m-toluidine	1	-8.43741	2.58101	-6.00776	-1.52856	395	TC	0.989	293
415	C7H9N	p-toluidine	3	10.0766	4041.04	-72.15		350	500	0.964	323
416	C7H14	cycloheptane	3	9.1616	3066.05	-56.80		330	435	0.810	293
417	C7H14	1,1-dimethylcyclopentane	1	-7.56029	1.82906	-2.90303	-3.11433	289	TC	0.759	289
418	C7H14	1,2-dimethylcyclopentane-cis	1	-7.67242	2.20160	-3.86394	-1.16796	299	TC	0.777	289
419	C7H14	1,2-dimethylcyclopentane-trans	1	-7.19675	1.03696	-1.93618	-5.30531	299	TC	0.756	289
420	C7H14	ethylcyclopentane	1	-7.68089	2.28014	-4.40365	0.54338	302	TC	0.771	289
421	C7H14	methylcyclohexane	1	-7.01915	1.09615	-2.37009	-3.37562	299	TC	0.774	289
422	C7H14	1-heptene	1	-8.26875	3.02688	-6.18709	4.33049	295	TC	0.697	293
423	C7H14	2,3,3-trimethyl-1-butene	3	9.0334	2719.47	-49.56		253	375	0.705	293
424	C7H14O	methyl amyl ketone								0.820	288
425	C7H14O2	n-propyl butyrate	1	-8.28062	1.40511	-4.19323	-3.70158	300	TC	0.879	288

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
426	C7H1402	n-propyl isobutyrate	130.187		408.6	581.	28.3				
427	C7H1402	isoamyl acetate	130.187	194.7	415.7	599.					1.8
428	C7H1402	isobutyl propionate	130.187	201.8	410.0	583.	27.7				
429	C7H16	n-heptane	100.205	182.6	371.6	540.3	27.4	432.	0.263	0.349	0.0
430	C7H16	2-methylhexane	100.205	154.9	363.2	530.4	27.3	421.	0.261	0.329	0.0
431	C7H16	3-methylhexane	100.205	100.0	365.0	535.3	28.1	404.	0.255	0.323	0.0
432	C7H16	2,2-dimethylpentane	100.205	149.4	352.4	520.5	27.7	416.	0.266	0.287	0.0
433	C7H16	2,3-dimethylpentane	100.205		362.9	537.4	29.1	393.	0.256	0.296	0.0
434	C7H16	2,4-dimethylpentane	100.205	154.	353.6	519.8	27.4	418.	0.264	0.302	0.0
435	C7H16	3,3-dimethylpentane	100.205	138.7	359.2	536.4	29.5	414.	0.273	0.267	0.0
436	C7H16	3-ethylpentane	100.205	154.6	366.6	540.6	28.9	416.	0.267	0.310	0.0
437	C7H16	2,2,3-trimethylbutane	100.205	248.3	354.0	531.2	29.5	398.	0.266	0.250	0.0
438	C7H160	1-heptanol	116.204	239.2	449.8	633.	30.4	435.	0.251	0.560	1.7
439	C8H403	phthalic anhydride	148.118	404.	560.	810.	47.6	368.	0.26		5.3
440	C8H8	styrene	104.152	242.5	418.3	647.	39.9			0.257	0.1
441	C8H80	methyl phenyl ketone	120.151	292.8	474.9	714.0	40.6	376.	0.257	0.42	3.0
442	C8H802	methyl benzoate	136.151	260.8	472.2	692.	36.4	396.	0.25	0.43	1.9
443	C8H803	methyl salicylate	152.149	264.6	496.1	709.					2.4
444	C8H10	o-xylene	106.168	248.0	417.6	630.3	37.3	369.	0.262	0.310	0.5
445	C8H10	m-xylene	106.168	225.3	412.3	617.1	35.4	376.	0.259	0.325	0.3
446	C8H10	p-xylene	106.168	286.4	411.5	616.2	35.1	379.	0.260	0.320	0.1
447	C8H10	ethylbenzene	106.168	178.2	409.3	617.2	36.0	374.	0.262	0.302	0.4
448	C8H100	o-ethylphenol	122.167	269.8	477.7	703.0					
449	C8H100	m-ethylphenol	122.167	269.	491.6	718.8					
450	C8H100	p-ethylphenol	122.167	318.	491.1	716.4					

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
426	C7H14O2	n-propyl isobutyrate						
427	C7H14O2	isoamyl acetate						
428	C7H14O2	isobutyl propionate						
429	C7H16	n-heptane	-5.146E+0	6.762E-1	-3.651E-4	7.658E-8	-1.879E+5	8.000E+3
430	C7H16	2-methylhexane	-3.939E+1	8.642E-1	-6.289E-4	1.836E-7	-1.951E+5	3.220E+3
431	C7H16	3-methylhexane	-7.046E+0	6.837E-1	-3.734E-4	7.834E-8	-1.924E+5	4.600E+3
432	C7H16	2,2-dimethylpentane	-5.010E+1	8.956E-1	-6.360E-4	1.736E-7	-2.063E+5	8.400E+2
433	C7H16	2,3-dimethylpentane	-7.046E+0	6.837E-1	-3.734E-4	7.834E-8	-1.994E+5	6.700E+2
434	C7H16	2,4-dimethylpentane	-7.046E+0	6.837E-1	-3.734E-4	7.834E-8	-2.021E+5	3.100E+3
435	C7H16	3,3-dimethylpentane	-7.046E+0	6.837E-1	-3.734E-4	7.834E-8	-2.017E+5	2.640E+3
436	C7H16	3-ethylpentane	-7.046E+0	6.837E-1	-3.734E-4	7.834E-8	-1.898E+5	1.100E+4
437	C7H16	2,2,3-trimethylbutane	-2.294E+1	7.519E-1	-4.421E-4	1.005E-7	-2.049E+5	4.270E+3
438	C7H16O	1-heptanol	4.907E+1	6.778E-1	-3.447E-4	6.046E-8	-3.320E+5	-1.210E+5
439	C8H4O3	phthalic anhydride	-4.455E+0	6.540E-1	-4.283E-4	1.009E-7	-3.718E+5	
440	C8H8	styrene	-2.825E+1	6.159E-1	-4.023E-4	9.935E-8	1.475E+5	2.139E+5
441	C8H8O	methyl phenyl ketone	-2.958E+1	6.410E-1	-4.071E-4	9.722E-8	-8.692E+4	1.840E+3
442	C8H8O2	methyl benzoate	-2.121E+1	5.501E-1	-1.799E-4	4.425E-8	-2.541E+5	
443	C8H8O3	methyl salicylate						
444	C8H10	o-xylene	-1.585E+1	5.962E-1	-3.443E-4	7.528E-8	1.900E+4	1.222E+5
445	C8H10	m-xylene	-2.917E+1	6.297E-1	-3.747E-4	8.478E-8	1.725E+4	1.189E+5
446	C8H10	p-xylene	-2.509E+1	6.042E-1	-3.374E-4	6.820E-8	1.796E+4	1.212E+5
447	C8H10	ethylbenzene	-4.310E+1	7.072E-1	-4.811E-4	1.301E-7	2.981E+4	1.307E+5
448	C8H10O	o-ethylphenol					-1.458E+5	
449	C8H10O	m-ethylphenol					-1.466E+5	
450	C8H10O	p-ethylphenol					-1.447E+5	

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
426	C7H1402	n-propyl isobutyrate	1	-8.52052	2.10660	-4.44053	-3.90420	300	TC	0.884	273
427	C7H1402	isoamyl acetate	3	10.5011	3699.29	-57.54		311	369	0.876	288
428	C7H1402	isobutyl propionate	1	-8.32761	1.56574	-3.97739	-4.71845	300	TC	0.888	273
429	C7H16	n-heptane	1	-7.67468	1.37068	-3.53620	-3.20243	240	TC	0.684	293
430	C7H16	2-methylhexane	1	-7.62477	1.47806	-3.53616	-2.70794	230	TC	0.679	293
431	C7H16	3-methylhexane	1	-7.58592	1.47394	-3.52511	-2.35419	235	TC	0.687	293
432	C7H16	2,2-dimethylpentane	1	-7.45564	1.56232	-3.44620	-1.80802	225	TC	0.674	293
433	C7H16	2,3-dimethylpentane	1	-7.46078	1.47778	-3.37079	-1.88997	230	TC	0.695	293
434	C7H16	2,4-dimethylpentane	1	-7.46358	1.43203	-3.42422	-2.20238	225	TC	0.673	293
435	C7H16	3,3-dimethylpentane	1	-7.49199	1.83146	-3.57292	-0.89448	225	TC	0.693	293
436	C7H16	3-ethylpentane	1	-7.58305	1.58587	-3.56732	-2.42625	265	TC	0.698	293
437	C7H16	2,2,3-trimethylbutane	1	-7.22017	1.44914	-3.11808	-1.10598	250	TC	0.690	293
438	C7H160	1-heptanol	3	8.6866	2626.42	-146.6		333	449	0.822	293
439	C8H403	phthalic anhydride	3	9.3782	4467.01	-83.15		409	615		
440	C8H8	styrene	1	-7.15981	1.78861	-5.10359	1.63749	303	TC	0.906	293
441	C8H80	methyl phenyl ketone	1	-7.63896	1.20432	-3.60753	-1.55754	298	TC	1.032	288
442	C8H802	methyl benzoate	3	9.6070	3751.83	-81.15		350	516	1.086	293
443	C8H803	methyl salicylate	3	9.6897	3943.86	-86.19		350	495	1.182	298
444	C8H10	o-xylene	1	-7.53357	1.40968	-3.10985	-2.85992	337	TC	0.880	293
445	C8H10	m-xylene	1	-7.59222	1.39441	-3.22746	-2.40376	332	TC	0.864	293
446	C8H10	p-xylene	1	-7.63495	1.50724	-3.19678	-2.78710	331	TC	0.861	293
447	C8H10	ethylbenzene	1	-7.48645	1.45488	-3.37538	-2.23048	330	TC	0.867	293
448	C8H100	o-ethylphenol	3	11.3408	4928.36	-45.75		350	500	1.037	273
449	C8H100	m-ethylphenol	3	10.5753	4272.77	-86.08		370	500	1.025	273
450	C8H100	p-ethylphenol	3	12.4703	5579.62	-44.15		370	500		

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
451	C8H10O	ethyl phenyl ether	122.167	243.	443.0	647.	34.2			0.418	1.2
452	C8H10O	2,3-xylenol	122.167	348.	490.1	722.8					
453	C8H10O	2,4-xylenol	122.167	298.	484.1	707.6					2.0
454	C8H10O	2,5-xylenol	122.167	348.	484.3	706.9					1.5
455	C8H10O	2,6-xylenol	122.167	322.	474.2	701.0					
456	C8H10O	3,4-xylenol	122.167	338.	500.2	729.8					1.7
457	C8H10O	3,5-xylenol	122.167	337.	494.9	715.6					1.8
458	C8H11N	N,N-dimethylaniline	121.183	275.6	467.3	687.	36.3			0.411	1.6
459	C8H11N	N-ethylaniline	121.183	207.4	476.2	698.					1.7
460	C8H14O4	diethylsuccinate	174.196	251.9	490.9	663.					2.3
461	C8H16	1,1-dimethylcyclohexane	112.216	239.7	392.7	591.	29.6	416.	0.25	0.238	
462	C8H16	1,2-dimethylcyclohexane-cis	112.216	223.1	402.9	606.	29.6			0.236	
463	C8H16	1,2-dimethylcyclohexane-trans	112.216	185.0	396.6	596.				0.242	
464	C8H16	1,3-dimethylcyclohexane-cis	112.216	197.6	393.3	591.	29.6			0.224	
465	C8H16	1,3-dimethylcyclohexane-trans	112.216	183.0	397.6	598.	29.7			0.189	
466	C8H16	1,4-dimethylcyclohexane-cis	112.216	185.7	397.5	598.	29.7			0.234	
467	C8H16	1,4-dimethylcyclohexane-trans	112.216		392.5	587.7	29.7			0.242	
468	C8H16	ethylcyclohexane	112.216	161.8	404.9	609.	30.	450.	0.27	0.243	0.0
469	C8H16	1,1,2-trimethylcyclopentane	112.216		386.9	579.5	29.4			0.252	
470	C8H16	1,1,3-trimethylcyclopentane	112.216		378.0	569.5	28.3			0.211	
471	C8H16	1,2,4-trimethylcyclopentane-c,c,t	112.216		391.	579.	29.			0.277	
472	C8H16	1,2,4-trimethylcyclopentane-c,t,c	112.216		382.4	571.	28.			0.246	
473	C8H16	1-methyl-1-ethylcyclopentane	112.216		394.7	592.	30.			0.250	
474	C8H16	n-propylcyclopentane	112.216	155.8	404.1	603.	30.	425.	0.25	0.335	
475	C8H16	isopropylcyclopentane	112.216	160.5	399.6	601.	30.			0.240	

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
451	C8H10O	ethyl phenyl ether						
452	C8H10O	2,3-xylenol					-1.573E+5	
453	C8H10O	2,4-xylenol					-1.628E+5	
454	C8H10O	2,5-xylenol					-1.615E+5	
455	C8H10O	2,6-xylenol					-1.619E+5	
456	C8H10O	3,4-xylenol					-1.565E+5	
457	C8H10O	3,5-xylenol					-1.615E+5	
458	C8H11N	N,N-dimethylaniline					8.415E+4	2.314E+5
459	C8H11N	N-ethylaniline						
460	C8H14O4	diethylsuccinate						
461	C8H16	1,1-dimethylcyclohexane	-7.211E+1	8.997E-1	-5.020E-4	1.030E-7	-1.811E+5	3.525E+4
462	C8H16	1,2-dimethylcyclohexane-cis	-6.837E+1	8.972E-1	-5.137E-4	1.099E-7	-1.723E+5	4.124E+4
463	C8H16	1,2-dimethylcyclohexane-trans	-6.848E+1	9.123E-1	-5.355E-4	1.181E-7	-1.801E+5	3.450E+4
464	C8H16	1,3-dimethylcyclohexane-cis	-6.516E+1	8.838E-1	-4.932E-4	1.020E-7	-1.849E+5	2.985E+4
465	C8H16	1,3-dimethylcyclohexane-trans	-6.415E+1	8.826E-1	-5.016E-4	1.068E-7	-1.767E+5	3.634E+4
466	C8H16	1,4-dimethylcyclohexane-cis	-6.415E+1	8.826E-1	-5.016E-4	1.068E-7	-1.768E+5	3.797E+4
467	C8H16	1,4-dimethylcyclohexane-trans	-7.036E+1	9.131E-1	-5.309E-4	1.155E-7	-1.847E+5	3.174E+4
468	C8H16	ethylcyclohexane	-6.389E+1	8.893E-1	-5.108E-4	1.103E-7	-1.719E+5	3.927E+4
469	C8H16	1,1,2-trimethylcyclopentane						
470	C8H16	1,1,3-trimethylcyclopentane						
471	C8H16	1,2,4-trimethylcyclopentane-c,c,t						
472	C8H16	1,2,4-trimethylcyclopentane-c,t,c						
473	C8H16	1-methyl-1-ethylcyclopentane						
474	C8H16	n-propylcyclopentane	-5.597E+1	8.449E-1	-4.924E-4	1.117E-7	-1.482E+5	5.263E+4
475	C8H16	isopropylcyclopentane						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
451	C8H10O	ethyl phenyl ether	1	-8.50867	2.56997	-5.78999	0.10899	371	TC	0.979	277
452	C8H10O	2,3-xylenol	3	9.6222	3724.58	-102.4		420	500		
453	C8H10O	2,4-xylenol	3	9.6254	3655.26	-103.8		410	500		
454	C8H10O	2,5-xylenol	3	9.6166	3667.32	-102.4		410	490		
455	C8H10O	2,6-xylenol	3	9.6607	3749.35	-85.55		400	480		
456	C8H10O	3,4-xylenol	3	9.6802	3733.53	-113.9		430	520		
457	C8H10O	3,5-xylenol	3	9.7990	3775.91	-109.0		410	500		
458	C8H11N	N,N-dimethylaniline	3	10.3445	4276.08	-52.80		345	480	0.956	293
459	C8H11N	N-ethylaniline	3	10.4715	4382.63	-58.88		321	481	0.963	293
460	C8H14O4	diethylsuccinate								1.041	293
461	C8H16	1,1-dimethylcyclohexane	1	-6.92810	1.01872	-3.04857	-1.70684	314	TC	0.785	289
462	C8H16	1,2-dimethylcyclohexane-cis	1	-7.01944	1.31860	-3.96577	0.08142	322	TC	0.796	293
463	C8H16	1,2-dimethylcyclohexane-trans	2	46.903	6162.66	-5.245	4785.	320	TC	0.776	293
464	C8H16	1,3-dimethylcyclohexane-cis	3	9.1268	3081.95	-55.08		284	420	0.766	293
465	C8H16	1,3-dimethylcyclohexane-trans	2	49.477	6271.67	-5.615	4718.	320	TC	0.785	293
466	C8H16	1,4-dimethylcyclohexane-cis	2	46.951	6219.26	-5.233	4718.	320	TC	0.783	293
467	C8H16	1,4-dimethylcyclohexane-trans	2	46.289	6071.72	-5.163	4650.	320	TC	0.763	293
468	C8H16	ethylcyclohexane	3	9.1923	3183.25	-58.15		293	433	0.788	293
469	C8H16	1,1,2-trimethylcyclopentane	1	-7.01985	1.06194	-3.15886	-1.64858	309	TC		
470	C8H16	1,1,3-trimethylcyclopentane	1	-6.97215	1.62353	-4.90587	2.76293	302	TC		
471	C8H16	1,2,4-trimethylcyclopentane-c,c,t	3	9.1341	3073.95	-54.20		283	418		
472	C8H16	1,2,4-trimethylcyclopentane-c,t,c	3	9.1554	3009.70	-53.23		282	417		
473	C8H16	1-methyl-1-ethylcyclopentane	1	-7.09092	1.31715	-3.96332	0.30332	316	TC		
474	C8H16	n-propylcyclopentane	1	-7.82031	2.88785	-6.85367	6.03561	325	TC	0.781	289
475	C8H16	isopropylcyclopentane	1	-7.10096	1.54495	-4.66594	2.34067	320	TC	0.776	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
476	C8H16	cyclooctane	112.216	287.6	422.	647.2	35.6	410.	0.271	0.236	
477	C8H16	1-octene	112.216	171.4	394.4	566.7	26.2	464.	0.26	0.386	0.3
478	C8H16	2-octene-trans	112.216	185.4	398.1	580.	27.7			0.350	
479	C8H1602	isoamyl propionate	144.214		433.4	611.					
480	C8H1602	isobutyl butyrate	144.214		430.1	603.	24.5				
481	C8H1602	isobutyl isobutyrate	144.214		421.8	594.	24.6				
482	C8H1602	n-propyl isovalerate	144.214		429.1	609.					
483	C8H18	n-octane	114.232	216.4	398.8	568.8	24.9	492.	0.259	0.398	0.0
484	C8H18	2-methylheptane	114.232	164.	390.8	559.6	24.8	488.	0.261	0.378	
485	C8H18	3-methylheptane	114.232	152.7	392.1	563.7	25.5	464.	0.252	0.370	
486	C8H18	4-methylheptane	114.232	152.2	390.9	561.7	25.4	476.	0.259	0.371	
487	C8H18	2,2-dimethylhexane	114.232	152.	380.0	549.9	25.3	478.	0.264	0.338	
488	C8H18	2,3-dimethylhexane	114.232		388.8	563.5	26.3	468.	0.263	0.346	
489	C8H18	2,4-dimethylhexane	114.232		382.6	553.5	25.6	472.	0.262	0.343	
490	C8H18	2,5-dimethylhexane	114.232	181.9	382.3	550.1	24.9	482.	0.262	0.356	
491	C8H18	3,3-dimethylhexane	114.232	147.	385.1	562.0	26.5	443.	0.251	0.320	
492	C8H18	3,4-dimethylhexane	114.232		390.9	568.9	26.9	466.	0.265	0.338	
493	C8H18	3-ethylhexane	114.232		391.7	565.5	26.1	455.	0.252	0.361	
494	C8H18	2,2,3-trimethylpentane	114.232	160.9	383.0	563.5	27.3	436.	0.254	0.297	
495	C8H18	2,2,4-trimethylpentane	114.232	165.8	372.4	544.0	25.7	468.	0.266	0.303	
496	C8H18	2,3,3-trimethylpentane	114.232	172.5	387.9	573.6	28.2	455.	0.269	0.290	
497	C8H18	2,3,4-trimethylpentane	114.232	163.9	386.6	566.4	27.3	461.	0.267	0.315	
498	C8H18	2-methyl-3-ethylpentane	114.232	158.2	388.8	567.1	27.0	443.	0.254	0.330	
499	C8H18	3-methyl-3-ethylpentane	114.232	182.3	391.4	576.6	28.1	455.	0.267	0.303	
500	C8H18	2,2,3,3-tetramethylbutane	114.232	374.	379.6	567.8	28.7	461.	0.280	0.251	

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
476	C8H16	cyclooctane						
477	C8H16	1-octene	-4.099E+0	7.239E-1	-4.036E-4	8.675E-8	-8.298E+4	1.043E+5
478	C8H16	2-octene-trans	-1.282E+1	7.532E-1	-4.442E-4	1.050E-7	-9.458E+4	9.274E+4
479	C8H1602	isoamyl propionate						
480	C8H1602	isobutyl butyrate						
481	C8H1602	isobutyl isobutyrate						
482	C8H1602	n-propyl isovalerate						
483	C8H18	n-octane	-6.096E+0	7.712E-1	-4.195E-4	8.855E-8	-2.086E+5	1.640E+4
484	C8H18	2-methylheptane	-8.970E+1	1.242E+0	-1.176E-3	4.618E-7	-2.156E+5	1.277E+4
485	C8H18	3-methylheptane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.128E+5	1.373E+4
486	C8H18	4-methylheptane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.122E+5	1.675E+4
487	C8H18	2,2-dimethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.249E+5	1.072E+4
488	C8H18	2,3-dimethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.141E+5	1.771E+4
489	C8H18	2,4-dimethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.196E+5	1.172E+4
490	C8H18	2,5-dimethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.228E+5	1.047E+4
491	C8H18	3,3-dimethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.203E+5	1.327E+4
492	C8H18	3,4-dimethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.131E+5	1.733E+4
493	C8H18	3-ethylhexane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.110E+5	1.694E+4
494	C8H18	2,2,3-trimethylpentane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.203E+5	1.712E+4
495	C8H18	2,2,4-trimethylpentane	-7.461E+0	7.779E-1	-4.287E-4	9.173E-8	-2.243E+5	1.369E+4
496	C8H18	2,3,3-trimethylpentane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.166E+5	1.892E+4
497	C8H18	2,3,4-trimethylpentane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.176E+5	1.892E+4
498	C8H18	2-methyl-3-ethylpentane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.113E+5	2.127E+4
499	C8H18	3-methyl-3-ethylpentane	-9.215E+0	7.859E-1	-4.400E-4	9.697E-8	-2.151E+5	1.993E+4
500	C8H18	2,2,3,3-tetramethylbutane						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
476	C8H16	cyclooctane	3	9.1799	3310.62	-63.18		367	470	0.834	293
477	C8H16	1-octene	2	57.867	6883.34	-6.765	5235.	320	TC	0.715	293
478	C8H16	2-octene-trans	3	9.2352	3134.97	-58.00		289	425	0.720	293
479	C8H1602	isoamyl propionate								0.870	293
480	C8H1602	isobutyl butyrate	1	-8.32597	1.42350	-4.25376	-3.09772	310	TC	0.863	291
481	C8H1602	isobutyl isobutyrate	1	-8.18677	1.32200	-3.94343	-3.68833	310	TC	0.875	273
482	C8H1602	n-propyl isovalerate								0.863	293
483	C8H18	n-octane	1	-7.91211	1.38007	-3.80435	-4.50132	260	TC	0.703	293
484	C8H18	2-methylheptane	1	-7.80701	1.38191	-3.78286	-3.50395	250	TC	0.702	289
485	C8H18	3-methylheptane	1	-7.82876	1.50656	-3.86146	-3.52377	255	TC	0.706	293
486	C8H18	4-methylheptane	1	-7.78757	1.40709	-3.76234	-3.50643	250	TC	0.705	293
487	C8H18	2,2-dimethylhexane	1	-7.69898	1.56083	-3.75189	-3.01869	245	TC	0.695	293
488	C8H18	2,3-dimethylhexane	1	-7.75180	1.58578	-3.80794	-2.58547	250	TC	0.712	293
489	C8H18	2,4-dimethylhexane	1	-7.65152	1.41393	-3.62789	-3.06548	245	TC	0.700	293
490	C8H18	2,5-dimethylhexane	1	-7.76508	1.51236	-3.78809	-3.07843	245	TC	0.693	293
491	C8H18	3,3-dimethylhexane	1	-7.59847	1.50336	-3.49912	-2.38236	245	TC	0.710	293
492	C8H18	3,4-dimethylhexane	1	-7.72976	1.61174	-3.75756	-2.62874	250	TC	0.719	293
493	C8H18	3-ethylhexane	1	-7.75246	1.42908	-3.68445	-3.46671	250	TC	0.718	289
494	C8H18	2,2,3-trimethylpentane	1	-7.48839	1.52208	-3.44481	-2.12538	245	TC	0.716	293
495	C8H18	2,2,4-trimethylpentane	1	-7.38890	1.25294	-3.16606	-2.22001	265	TC	0.692	293
496	C8H18	2,3,3-trimethylpentane	1	-7.41747	1.42778	-3.19166	-1.81367	245	TC	0.726	293
497	C8H18	2,3,4-trimethylpentane	1	-7.62000	1.60334	-3.57834	-2.04401	245	TC	0.719	293
498	C8H18	2-methyl-3-ethylpentane	1	-7.65393	1.54032	-3.64686	-2.52380	250	TC	0.719	293
499	C8H18	3-methyl-3-ethylpentane	1	-7.56484	1.58810	-3.40610	-1.71546	250	TC	0.727	293
500	C8H18	2,2,3,3-tetramethylbutane	3	11.4937	3856.39	-42.42		270	343		

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
501	C8H18O	1-octanol	130.231	257.7	468.3	652.5	28.6	490.	0.258	0.587	2.0
502	C8H18O	2-octanol	130.231	241.2	452.	637.					1.6
503	C8H18O	4-methyl-3-heptanol	130.231		443.	623.5					
504	C8H18O	5-methyl-3-heptanol	130.231		445.	621.2					
505	C8H18O	2-ethyl-1-hexanol	130.231	203.2	457.8	640.2					1.8
506	C8H18O	dibutyl ether	130.231	175.	413.4	580.	25.3			0.502	1.2
507	C8H18O	di-tert-butyl ether	130.231		382.2	550.	24.2				
508	C8H19N	dibutyl amine	129.247	211.	432.8	607.5	26.4			0.580	1.1
509	C8H19N	diisobutyl amine	129.247	203.	412.8	584.4	27.2			0.548	
510	C9H7N	quinoline	129.162	258.	510.8	782.					
511	C9H7N	isoquinoline	129.162	300.	516.4	803.					
512	C9H10	indane	118.179		451.1	684.9	39.5			0.308	
513	C9H10	alpha-methylstyrene	118.179		438.5	654.	34.				
514	C9H10O2	ethyl benzoate	150.178	238.3	485.9	668.7	23.2			0.48	
515	C9H12	n-propylbenzene	120.195	173.7	432.4	638.2	32.0	440.	0.265	0.344	
516	C9H12	isopropylbenzene	120.195	177.1	425.6	631.1	32.1			0.326	
517	C9H12	1-methyl-2-ethylbenzene	120.195	192.3	438.3	651.	30.4	460.	0.26	0.294	
518	C9H12	1-methyl-3-ethylbenzene	120.195	177.6	434.5	637.	28.4	490.	0.26	0.360	
519	C9H12	1-methyl-4-ethylbenzene	120.195	210.8	435.2	640.	29.4	470.	0.26	0.322	
520	C9H12	1,2,3-trimethylbenzene	120.195	247.7	449.3	664.5	34.5			0.366	
521	C9H12	1,2,4-trimethylbenzene	120.195	227.	442.5	649.2	32.3			0.376	
522	C9H12	1,3,5-trimethylbenzene	120.195	228.4	437.9	637.3	31.3			0.399	0.1
523	C9H13N	N,N-dimethyl-o-toluidine	135.210	212.	467.3	668.	31.2			0.484	0.9
524	C9H18	n-propylcyclohexane	126.243	178.7	429.9	639.0	28.0			0.258	
525	C9H18	isopropylcyclohexane	126.243	183.4	427.7	640.0	28.3			0.237	0.0

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
501	C8H18O	1-octanol	6.171E+0	7.607E-1	-3.797E-4	6.263E-8	-3.601E+5	-1.202E+5
502	C8H18O	2-octanol	2.588E+1	7.641E-1	-4.224E-4	9.064E-8		
503	C8H18O	4-methyl-3-heptanol						
504	C8H18O	5-methyl-3-heptanol						
505	C8H18O	2-ethyl-1-hexanol	-1.499E+1	8.654E-1	-5.280E-4	1.285E-7	-3.655E+5	
506	C8H18O	dibutyl ether	6.054E+0	7.729E-1	-4.085E-4	8.085E-8	-3.341E+5	-8.859E+4
507	C8H18O	di-tert-butyl ether						
508	C8H19N	dibutyl amine	9.764E+0	8.081E-1	-4.392E-4	9.249E-8		
509	C8H19N	diisobutyl amine						
510	C9H7N	quinoline						
511	C9H7N	isoquinoline						
512	C9H10	indane						
513	C9H10	alpha-methylstyrene	-2.433E+1	6.933E-1	-4.530E-4	1.181E-7		
514	C9H10O2	ethyl benzoate	2.067E+1	6.887E-1	-3.608E-4	5.062E-8		
515	C9H12	n-propylbenzene	-3.129E+1	7.486E-1	-4.601E-4	1.081E-7	7.830E+3	1.373E+5
516	C9H12	isopropylbenzene	-3.936E+1	7.842E-1	-5.087E-4	1.291E-7	3.940E+3	1.371E+5
517	C9H12	1-methyl-2-ethylbenzene	-1.645E+1	6.996E-1	-4.120E-4	9.328E-8	1.210E+3	1.312E+5
518	C9H12	1-methyl-3-ethylbenzene	-2.900E+1	7.293E-1	-4.363E-4	9.998E-8	-1.930E+3	1.265E+5
519	C9H12	1-methyl-4-ethylbenzene	-2.731E+1	7.176E-1	-4.224E-4	9.542E-8	-2.050E+3	1.268E+5
520	C9H12	1,2,3-trimethylbenzene	-6.942E+0	6.335E-1	-3.326E-4	6.611E-8	-9.590E+3	1.246E+5
521	C9H12	1,2,4-trimethylbenzene	-4.668E+0	6.238E-1	-3.263E-4	6.376E-8	-1.394E+4	1.170E+5
522	C9H12	1,3,5-trimethylbenzene	-1.959E+1	6.724E-1	-3.692E-4	7.700E-8	-1.608E+4	1.180E+5
523	C9H13N	N,N-dimethyl-o-toluidine						
524	C9H18	n-propylcyclohexane	-6.252E+1	9.889E-1	-5.795E-4	1.291E-7	-1.934E+5	4.735E+4
525	C9H18	isopropylcyclohexane						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
501	C8H18O	1-octanol	1	-9.71763	4.22514	-12.9222	-3.59254	325	TC	0.826	293
502	C8H18O	2-octanol	3	8.0906	2441.66	-150.7		345	453	0.821	293
503	C8H18O	4-methyl-3-heptanol									
504	C8H18O	5-methyl-3-heptanol									
505	C8H18O	2-ethyl-1-hexanol	3	8.7412	2773.46	-140.0		348	458	0.833	293
506	C8H18O	dibutyl ether	1	-9.04970	2.78734	-5.11686	-3.97104	362	TC	0.768	293
507	C8H18O	di-tert-butyl ether	1	-7.47062	1.33672	-4.00322	-1.89122	300	TC		
508	C8H19N	dibutyl amine	1	-9.14853	2.93179	-6.02092	0.93342	315	TC	0.767	293
509	C8H19N	diisobutyl amine	1	-8.95962	2.85335	-5.81427	0.65701	300	TC	0.741	298
510	C9H7N	quinoline	3	9.0779	3842.40	-86.94		437	515	1.095	293
511	C9H7N	isoquinoline	3	9.2957	3968.37	-88.94		437	517	1.091	303
512	C9H10	indane									
513	C9H10	alpha-methylstyrene	3	9.7106	3644.30	-67.15		348	493	0.911	293
514	C9H10O2	ethyl benzoate	1	-9.32936	2.89807	-6.54758	5.56703	317	TC	1.046	293
515	C9H12	n-propylbenzene	1	-7.92198	1.97403	-4.27504	-1.28568	346	TC	0.862	293
516	C9H12	isopropylbenzene	1	-7.46042	1.14486	-3.19082	-3.62628	343	TC	0.862	293
517	C9H12	1-methyl-2-ethylbenzene	1	-7.58007	2.20412	-6.68027	6.06587	354	TC	0.881	293
518	C9H12	1-methyl-3-ethylbenzene	1	-7.86301	2.47961	-6.98644	6.35609	351	TC	0.865	293
519	C9H12	1-methyl-4-ethylbenzene	1	-7.68892	1.92605	-5.51788	2.76399	351	TC	0.861	293
520	C9H12	1,2,3-trimethylbenzene	1	-8.44191	2.92198	-5.66712	2.28086	363	TC	0.894	293
521	C9H12	1,2,4-trimethylbenzene	1	-8.50002	2.98227	-6.02665	3.51307	358	TC	0.880	289
522	C9H12	1,3,5-trimethylbenzene	1	-8.37150	2.41166	-5.30321	2.67635	355	TC	0.865	293
523	C9H13N	N,N-dimethyl-o-toluidine								0.929	293
524	C9H18	n-propylcyclohexane	1	-7.37782	2.13149	-6.45979	5.82529	349	TC	0.793	293
525	C9H18	isopropylcyclohexane	1	-7.24565	2.09643	-6.35158	5.5038	344	TC	0.802	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
526	C9H18	1,trans-3,5-trimethylcyclohexane	126.243		413.7	602.2					
527	C9H18	1-nonene	126.243	191.8	420.0	592.	23.4	580.	0.28	0.430	
528	C9H18O	dibutyl ketone	142.242	267.3	461.6	640.					2.7
529	C9H20	n-nonane	128.259	219.7	424.0	594.6	22.9	548.	0.26	0.445	
530	C9H20	2-methyloctane	128.242	192.8	416.4	587.0	23.1			0.423	
531	C9H20	2,2-dimethylheptane	128.242	160.	405.9	576.8	23.5			0.390	
532	C9H20	2,2,3-trimethylhexane	128.259		406.8	588.	24.9			0.332	
533	C9H20	2,2,4-trimethylhexane	128.259	153.	399.7	573.7	23.7			0.321	
534	C9H20	2,2,5-trimethylhexane	128.259	167.4	397.2	568.	23.3	519.	0.260	0.357	
535	C9H20	3,3-diethylpentane	128.259	240.1	419.3	610.	26.7			0.338	0.0
536	C9H20	2,2,3,3-tetramethylpentane	128.259	263.	413.4	607.7	27.4			0.303	
537	C9H20	2,2,3,4-tetramethylpentane	128.259	152.	406.1	592.7	26.0			0.313	
538	C9H20	2,2,4,4-tetramethylpentane	128.259	206.0	395.4	574.7	24.9			0.312	
539	C9H20	2,3,3,4-tetramethylpentane	128.259	171.1	414.7	607.7	27.2			0.313	
540	C9H20O	1-nonanol	144.258	268.	486.7	671.		546.			1.7
541	C10F8	perfluoronaphthalene	272.094		482.	673.1					
542	C10F18	perfluorodecalin	462.074		415.	566.	15.2			0.392	
543	C10H8	naphthalene	128.174	353.5	491.1	748.4	40.5	413.	0.269	0.302	0.0
544	C10H12	1,2,3,4-tetrahydronaphthalene	132.206	242.	480.7	719.	35.1			0.303	
545	C10H14	n-butylbenzene	134.222	185.2	456.5	660.5	28.9	497.	0.261	0.393	0.4
546	C10H14	isobutylbenzene	134.222	221.7	445.9	650.	31.4	480.	0.28	0.380	0.3
547	C10H14	sec-butylbenzene	134.222	197.7	446.5	664.	29.4			0.274	0.4
548	C10H14	tert-butylbenzene	134.222	215.3	442.3	660.	29.6			0.265	0.5
549	C10H14	1-methyl-2-isopropylbenzene	134.222		451.5	670.	28.9			0.277	
550	C10H14	1-methyl-3-isopropylbenzene	134.222		448.3	666.	29.3			0.279	

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
526	C9H18	1,trans-3,5-trimethylcyclohexane						
527	C9H18	1-nonene	-3.718E+0	8.122E-1	-4.509E-4	9.705E-8	-1.036E+5	1.128E+5
528	C9H18O	dibutyl ketone						
529	C9H20	n-nonane	-8.374E+0	8.729E-1	-4.823E-4	1.031E-7	-2.292E+5	2.483E+4
530	C9H20	2-methyloctane	-1.011E+1	8.805E-1	-4.936E-4	1.083E-7	-2.292E+5	2.483E+4
531	C9H20	2,2-dimethylheptane	-2.089E+1	9.668E-1	-6.120E-4	1.570E-7	-2.470E+5	1.675E+4
532	C9H20	2,2,3-trimethylhexane	-4.563E+1	1.055E+0	-7.172E-4	1.987E-7	-2.414E+5	2.453E+4
533	C9H20	2,2,4-trimethylhexane	-6.031E+1	1.104E+0	-7.712E-4	2.188E-7	-2.434E+5	2.252E+4
534	C9H20	2,2,5-trimethylhexane	-5.411E+1	1.095E+0	-7.746E-4	2.255E-7	-2.542E+5	1.344E+4
535	C9H20	3,3-diethylpentane	-6.727E+1	1.126E+0	-7.988E-4	2.306E-7	-2.321E+5	3.509E+4
536	C9H20	2,2,3,3-tetramethylpentane	-5.458E+1	1.089E+0	-7.570E-4	2.142E-7	-2.374E+5	3.433E+4
537	C9H20	2,2,3,4-tetramethylpentane	-5.458E+1	1.089E+0	-7.570E-4	2.142E-7	-2.371E+5	3.266E+4
538	C9H20	2,2,4,4-tetramethylpentane	-6.740E+1	1.168E+0	-8.612E-4	2.574E-7	-2.421E+5	3.404E+4
539	C9H20	2,3,3,4-tetramethylpentane	-5.492E+1	1.091E+0	-7.603E-4	2.158E-7	-2.364E+5	3.412E+4
540	C9H20O	1-nonanol	1.280E+0	8.817E-1	-4.791E-4	9.801E-8	-3.872E+5	-1.183E+5
541	C10F8	perfluoronaphthalene						
542	C10F18	perfluorodecalin						
543	C10H8	naphthalene	-6.880E+1	8.499E-1	-6.506E-4	1.981E-7	1.511E+5	2.237E+5
544	C10H12	1,2,3,4-tetrahydronaphthalene					2.760E+3	1.671E+5
545	C10H14	n-butylbenzene	-2.299E+1	7.934E-1	-4.396E-4	8.570E-8	-1.382E+4	1.448E+5
546	C10H14	isobutylbenzene					-2.156E+4	
547	C10H14	sec-butylbenzene	-6.515E+1	9.893E-1	-7.214E-4	2.152E-7	-1.746E+4	
548	C10H14	tert-butylbenzene	-8.600E+1	1.102E+0	-8.746E-4	2.827E-7	-2.269E+4	
549	C10H14	1-methyl-2-isopropylbenzene						
550	C10H14	1-methyl-3-isopropylbenzene	-4.876E+1	9.064E-1	-6.054E-4	1.627E-7	-2.931E+4	

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
526	C9H18	1,trans-3,5-trimethylcyclohexane								0.722	293
527	C9H18	1-nonene	1	-8.30824	2.03357	-5.42753	0.95331	340	TC	0.745	273
528	C9H18O	dibutyl ketone								0.827	286
529	C9H20	n-nonane	1	-8.24480	1.57885	-4.38155	-4.04412	343	TC	0.718	293
530	C9H20	2-methyloctane	3	9.3089	3246.64	-67.20		323	448	0.713	293
531	C9H20	2,2-dimethylheptane	3	9.1710	3120.00	-65.20		313	438	0.711	293
532	C9H20	2,2,3-trimethylhexane	3	9.1815	3164.17	-61.66		297	436	0.729	293
533	C9H20	2,2,4-trimethylhexane	3	9.1437	3084.08	-61.94		291	428	0.720	289
534	C9H20	2,2,5-trimethylhexane	1	-7.80573	1.68023	-4.50859	-0.78808	319	TC	0.717	289
535	C9H20	3,3-diethylpentane	1	-7.98732	2.15446	-4.25035	-0.09787	336	TC	0.752	293
536	C9H20	2,2,3,3-tetramethylpentane	1	-7.40615	1.23976	-2.94462	-3.35833	331	TC	0.757	293
537	C9H20	2,2,3,4-tetramethylpentane	1	-7.60624	1.62208	-3.71777	-1.50403	325	TC	0.739	293
538	C9H20	2,2,4,4-tetramethylpentane	1	-7.71570	1.89775	-4.08940	-0.75421	316	TC	0.719	293
539	C9H20	2,3,3,4-tetramethylpentane	1	-7.65000	1.71897	-3.82026	-0.95911	332	TC	0.755	293
540	C9H20O	1-nonanol	3	8.7513	2939.54	-150.1		363	487	0.828	293
541	C10F8	perfluoronaphthalene									
542	C10F18	perfluorodecalin									
543	C10H8	naphthalene	1	-7.85178	2.17172	-3.70504	-4.81238	399	TC	0.971	363
544	C10H12	1,2,3,4-tetrahydronaphthalene	3	9.5883	4009.49	-64.89		365	500	0.973	293
545	C10H14	n-butylbenzene	1	-8.39978	2.61916	-5.80532	2.11591	369	TC	0.860	293
546	C10H14	isobutylbenzene	1	-8.13153	1.58186	-2.37146	-7.46781	360	TC	0.853	293
547	C10H14	sec-butylbenzene	1	-7.49482	2.23440	-6.77346	6.31118	360	TC	0.862	293
548	C10H14	tert-butylbenzene	1	-7.45802	2.33227	-7.07129	6.72178	357	TC	0.867	293
549	C10H14	1-methyl-2-isopropylbenzene	3	9.3607	3564.52	-70.00		330	481	0.876	293
550	C10H14	1-methyl-3-isopropylbenzene	2	61.106	8033.58	-7.076	6293.	330	TC	0.861	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
551	C10H14	1-methyl-4-isopropylbenzene	134.222	200.	450.3	651.	27.3			0.373	0.0
552	C10H14	1,4-diethylbenzene	134.222	231.	456.9	657.9	28.0			0.404	0.1
553	C10H14	1,2,3,5-tetramethylbenzene	134.222	249.	471.2	679.					
554	C10H14	1,2,4,5-tetramethylbenzene	134.212	352.	470.0	675.	29.4			0.435	
555	C10H14O	thymol	150.221	323.	505.7	698.					
556	C10H15N	n-butylaniline	149.236	259.	513.9	721.	28.3				
557	C10H18	cis-decalin	138.254	230.	468.9	702.3	32.0			0.286	0.0
558	C10H18	trans-decalin	138.254	242.8	460.5	687.1	31.4			0.270	0.0
559	C10H18	1,3-decadiene	138.254		442.	615.					
560	C10H19N	caprylonitrile	153.269	255.3	516.	622.0	32.5				
561	C10H20	butylcyclohexane	140.260	198.4	454.1	667.	31.5			0.362	
562	C10H20	isobutylcyclohexane	140.270		444.5	659.	31.2			0.319	
563	C10H20	sec-butylcyclohexane	140.270		452.5	669.	26.7			0.264	
564	C10H20	tert-butylcyclohexane	140.270	232.0	444.7	659.	26.6			0.252	0.0
565	C10H20	1-decene	140.270	206.9	443.7	615.	22.0	650.	0.28	0.491	
566	C10H20O	menthol	156.269	316.	489.5	694.					
567	C10H22	n-decane	142.286	243.5	447.3	617.7	21.2	603.	0.249	0.489	0.0
568	C10H22	3,3,5-trimethylheptane	142.286		428.9	609.7	23.2			0.382	
569	C10H22	2,2,3,3-tetramethylhexane	142.286		433.5	623.2	25.1			0.364	
570	C10H22	2,2,5,5-tetramethylhexane	142.286		410.6	581.6	21.9			0.375	
571	C10H22O	1-decanol	158.285	280.1	506.1	687.	22.2	600.	0.230		1.8
572	C11H10	1-methylnaphthalene	142.201	242.7	517.9	772.	36.	462.	0.234	0.310	0.5
573	C11H10	2-methylnaphthalene	142.201	307.7	514.3	761.	35.	462.	0.26	0.382	0.4
574	C11H14O2	butyl benzoate	178.232	251.	523.	723.	26.	561.	0.25	0.58	
575	C11H16	pentamethylbenzene	148.249	327.5	504.6	719.					

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
551	C10H14	1-methyl-4-isopropylbenzene						
552	C10H14	1,4-diethylbenzene	-3.742E+1	8.671E-1	-5.560E-4	1.411E-7	-2.227E+4	1.380E+5
553	C10H14	1,2,3,5-tetramethylbenzene	3.923E+0	7.131E-1	-3.711E-4	6.840E-8	-4.484E+4	1.188E+5
554	C10H14	1,2,4,5-tetramethylbenzene	1.652E+1	6.519E-1	-2.879E-4	3.257E-8	-4.530E+4	1.195E+5
555	C10H14O	thymol						
556	C10H15N	n-butylaniline	-3.407E+1	9.144E-1	-5.560E-4	1.287E-7		
557	C10H18	cis-decalin	-1.125E+2	1.118E+0	-6.607E-4	1.437E-7	-1.691E+5	8.587E+4
558	C10H18	trans-decalin	-9.767E+1	1.045E+0	-5.476E-4	8.981E-8	-1.824E+5	7.348E+4
559	C10H18	1,3-decadiene						
560	C10H19N	caprylonitrile						
561	C10H20	butylcyclohexane	-6.296E+1	1.081E+0	-6.305E-4	1.400E-7	-2.133E+5	5.648E+4
562	C10H20	isobutylcyclohexane						
563	C10H20	sec-butylcyclohexane						
564	C10H20	tert-butylcyclohexane						
565	C10H20	1-decene	-4.664E+0	9.077E-1	-5.058E-4	1.095E-7	-1.242E+5	1.211E+5
566	C10H20O	menthol						
567	C10H22	n-decane	-7.913E+0	9.609E-1	-5.288E-4	1.131E-7	-2.498E+5	3.324E+4
568	C10H22	3,3,5-trimethylheptane	-7.037E+1	1.232E+0	-8.646E-4	2.455E-7	-2.587E+5	3.358E+4
569	C10H22	2,2,3,3-tetramethylhexane	-5.883E+1	1.231E+0	-8.834E-4	2.585E-7		
570	C10H22	2,2,5,5-tetramethylhexane	-6.234E+1	1.245E+0	-8.956E-4	2.618E-7		
571	C10H22O	1-decanol	1.457E+1	8.947E-1	-3.921E-4	3.451E-8	-4.019E+5	-1.043E+5
572	C11H10	1-methylnaphthalene	-6.482E+1	9.387E-1	-6.942E-4	2.016E-7	1.169E+5	2.178E+5
573	C11H10	2-methylnaphthalene	-5.652E+1	8.997E-1	-6.469E-4	1.840E-7	1.162E+5	2.163E+5
574	C11H14O2	butyl benzoate	-1.737E+1	8.675E-1	-4.610E-4	7.235E-8		
575	C11H16	pentamethylbenzene						

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
551	C10H14	1-methyl-4-isopropylbenzene	2	56.605	7800.97	-6.432	6308.	360	TC	0.857	293
552	C10H14	1,4-diethylbenzene	1	-8.11413	1.77697	-4.43960	-1.47477	370	TC	0.862	293
553	C10H14	1,2,3,5-tetramethylbenzene	3	9.6750	3854.53	-72.26		368	513	0.890	293
554	C10H14	1,2,4,5-tetramethylbenzene	2	57.519	8300.92	-6.478	6600.	360	TC	0.838	354
555	C10H14O	thymol									
556	C10H15N	n-butylaniline	3	9.7792	4079.72	-96.15		385	560	0.932	293
557	C10H18	cis-decalin	3	9.2110	3671.61	-69.74		368	495	0.897	293
558	C10H18	trans-decalin	3	9.1787	3610.66	-66.49		363	470	0.870	293
559	C10H18	1,3-decadiene								0.750	293
560	C10H19N	caprylonitrile								0.820	293
561	C10H20	butylcyclohexane	3	9.2914	3542.57	-72.32		332	485	0.799	293
562	C10H20	isobutylcyclohexane	1	-8.05035	2.67134	-5.49473	2.06044	358	TC	0.795	293
563	C10H20	sec-butylcyclohexane	1	-7.49250	2.47712	-7.51526	7.69513	369	TC	0.813	293
564	C10H20	tert-butylcyclohexane	1	-7.34348	2.13810	-6.48025	5.89241	357	TC	0.813	293
565	C10H20	1-decene	1	-9.05778	3.06154	-7.07236	4.20695	360	TC	0.741	293
566	C10H20O	menthol									
567	C10H22	n-decane	1	-8.56523	1.97756	-5.81971	-0.29982	368	TC	0.730	293
568	C10H22	3,3,5-trimethylheptane	3	9.1646	3305.20	-67.66		313	458		
569	C10H22	2,2,3,3-tetramethylhexane	3	9.1396	3371.05	-64.09		314	463		
570	C10H22	2,2,5,5-tetramethylhexane	3	9.2244	3172.92	-66.15		300	438		
571	C10H22O	1-decanol	1	-8.62283	1.39315	-8.24774	-19.21149	400	TC	0.830	293
572	C11H10	1-methylnaphthalene	1	-7.56390	1.19577	-3.38134	-2.86388	415	TC	1.020	293
573	C11H10	2-methylnaphthalene	1	-8.43595	2.88433	-5.70017	2.50897	412	TC	0.990	313
574	C11H14O2	butyl benzoate	3	9.7161	4158.47	-94.15		390	570	1.006	293
575	C11H16	pentamethylbenzene	3	9.8147	4222.48	-74.20		398	543		

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
576	C11H22	n-hexylcyclopentane	154.297	200.2	476.3	660.1	21.3			0.476	
577	C11H22	1-undecene	154.297	224.0	465.8	637.	19.9			0.518	
578	C11H24	n-undecane	156.313	247.6	469.1	638.8	19.7	660.	0.24	0.535	0.0
579	C12H10	diphenyl	154.212	342.4	529.3	789.	38.5	502.	0.295	0.372	
580	C12H10O	diphenyl ether	170.211	300.	531.2	766.	31.4			0.44	1.1
581	C12H18	hexamethylbenzene	162.276		536.6	758.					
582	C12H24	n-heptylcyclopentane	168.324	220.	497.3	679.	19.4			0.515	
583	C12H24	1-dodecene	168.324	238.0	486.5	657.	18.5			0.558	
584	C12H26	dodecane	170.340	263.6	489.5	658.2	18.2	713.	0.24	0.575	0.0
585	C12H26O	dihexylether	186.339	230.0	499.6	657.	18.2	720.	0.24	0.70	
586	C12H26O	dodecanol	186.339	297.1	533.1	679.	19.2	718.	0.24		1.6
587	C12H27N	tributylamine	185.355		486.6	643.	18.2				0.8
588	C13H12	diphenylmethane	168.239	300.	538.2	770.	28.6			0.442	0.4
589	C13H26	n-octylcyclopentane	182.351	229.	516.9	694.	17.9			0.564	
590	C13H26	1-tridecene	182.351	250.1	505.9	674.	17.0			0.598	
591	C13H28	n-tridecane	184.367	267.8	508.6	676.	17.2	780.	0.240	0.619	
592	C14H10	anthracene	178.234	489.7	613.1	869.3		554.			0.0
593	C14H10	phenanthrene	178.234	373.7	613.	873.		554.			0.0
594	C14H28	n-nonylcyclopentane	196.378	244.	535.3	710.5	16.5			0.610	
595	C14H28	1-tetradecene	196.378	260.3	524.3	689.	15.6			0.644	
596	C14H30	n-tetradecane	198.394	279.0	526.7	693.0	14.4	830.	0.23	0.581	
597	C15H30	n-decylcyclopentane	210.405	251.1	552.5	723.8	15.2			0.654	
598	C15H30	1-pentadecene	210.405	269.4	541.5	704.	14.5			0.682	
599	C15H32	n-pentadecane	212.421	283.	543.8	707.	15.2	880.	0.23	0.706	
600	C16H2204	dibutyl-o-phthalate	278.350	238.	608.						

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
576	C11H22	n-hexylcyclopentane	-5.832E+1	1.128E+0	-6.536E-4	1.473E-7	-2.096E+5	7.825E+4
577	C11H22	1-undecene	-5.585E+0	1.003E+0	-5.602E-4	1.216E-7	-1.449E+5	1.295E+5
578	C11H24	n-undecane	-8.395E+0	1.054E+0	-5.799E-4	1.237E-7	-2.705E+5	4.162E+4
579	C12H10	diphenyl	-9.707E+1	1.106E+0	-8.855E-4	2.790E-7	1.822E+5	2.803E+5
580	C12H10O	diphenyl ether	-6.073E+1	9.282E-1	-5.870E-4	1.359E-7	4.999E+4	
581	C12H18	hexamethylbenzene						
582	C12H24	n-heptylcyclopentane	-5.926E+1	1.223E+0	-7.084E-4	1.596E-7	-2.303E+5	8.667E+4
583	C12H24	1-dodecene	-6.544E+0	1.098E+0	-6.155E-4	1.341E-7	-1.655E+5	1.380E+5
584	C12H26	dodecane	-9.328E+0	1.149E+0	-6.347E-4	1.359E-7	-2.911E+5	5.007E+4
585	C12H26O	dihexylether	3.354E+1	1.073E+0	-5.535E-4	1.678E-7		
586	C12H26O	dodecanol	9.224E+0	1.103E+0	-5.338E-4	7.779E-8	-4.431E+5	-8.713E+4
587	C12H27N	tributylamine	7.993E+0	1.198E+0	-6.703E-4	1.449E-7		
588	C13H12	diphenylmethane						
589	C13H26	n-octylcyclopentane	-5.995E+1	1.317E+0	-7.612E-4	1.708E-7	-2.509E+5	9.512E+4
590	C13H26	1-tridecene	-7.118E+0	1.191E+0	-6.674E-4	1.451E-7	-1.861E+5	1.464E+5
591	C13H28	n-tridecane	-1.046E+1	1.245E+0	-6.912E-4	1.490E-7	-3.117E+5	5.849E+4
592	C14H10	anthracene	-5.898E+1	1.006E+0	-6.594E-4	1.606E-7	2.248E+5	
593	C14H10	phenanthrene	-5.898E+1	1.006E+0	-6.594E-4	1.606E-7		
594	C14H28	n-nonylcyclopentane	-6.081E+1	1.412E+0	-8.156E-4	1.830E-7	-2.715E+5	1.035E+5
595	C14H28	1-tetradecene	-7.967E+0	1.286E+0	-7.210E-4	1.569E-7	-2.067E+5	1.549E+5
596	C14H30	n-tetradecane	-1.098E+1	1.338E+0	-7.423E-4	1.598E-7	-3.323E+5	6.686E+4
597	C15H30	n-decylcyclopentane	-6.192E+1	1.508E+0	-8.717E-4	1.959E-7	-2.922E+5	1.119E+5
598	C15H30	1-pentadecene	-9.203E+0	1.382E+0	-7.783E-4	1.703E-7	-2.274E+5	1.632E+5
599	C15H32	n-pentadecane	-1.192E+1	1.433E+0	-7.972E-4	1.720E-7	-3.530E+5	7.528E+4
600	C16H2204	dibutyl-o-phthalate	1.880E+0	1.254E+0	-6.121E-4	6.971E-8		

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
576	C11H22	n-hexylcyclopentane	3	9.3938	3702.56	-81.55		351	507	0.797	293
577	C11H22	1-undecene	2	71.675	9105.75	-8.489	8596.	350	TC	0.751	293
578	C11H24	n-undecane	2	73.501	9305.80	-8.729	8813.	350	TC	0.740	293
579	C12H10	diphenyl	1	-7.67400	1.23008	-3.67908	-2.29172	342	TC	0.990	347
580	C12H10O	diphenyl ether	1	-8.59849	2.46297	-5.62029	-1.23996	477	TC	1.066	303
581	C12H18	hexamethylbenzene									
582	C12H24	n-heptylcyclopentane	3	9.4387	3850.38	-88.75		368	529	0.810	293
583	C12H24	1-dodecene	2	76.348	9846.99	-9.073	9826.	360	TC	0.758	293
584	C12H26	dodecane	2	77.628	10012.5	-9.236	10030.	360	TC	0.748	293
585	C12H26O	dihexylether	3	9.7170	3982.78	-89.15		373	545	0.794	293
586	C12H26O	dodecanol	3	8.6436	3242.04	-157.1		407	580	0.835	293
587	C12H27N	tributylamine	3	9.6676	3865.58	-86.15		362	531	0.779	293
588	C13H12	diphenylmethane	3	7.8654	2902.44	-167.9		473	563	1.006	293
589	C13H26	n-octylcyclopentane	3	9.4739	3983.01	-95.85		385	549	0.805	293
590	C13H26	1-tridecene	2	81.389	10609.4	-9.709	11250.	370	TC	0.766	293
591	C13H28	n-tridecane	3	9.5153	3892.91	-98.93		380	540	0.756	293
592	C14H10	anthracene	3	11.0499	6492.44	-26.13		490	655		
593	C14H10	phenanthrene	3	10.0985	5477.94	-69.39		450	655		
594	C14H28	n-nonylcyclopentane	3	9.4887	4096.30	-103.0		400	569	0.808	293
595	C14H28	1-tetradecene	2	85.854	11329.2	-10.27	12800.	380	TC	0.786	273
596	C14H30	n-tetradecane	2	84.552	11322.9	-10.07	12500.	380	TC	0.763	293
597	C15H30	n-decylcyclopentane	3	9.5059	4203.94	-109.7		413	586	0.811	293
598	C15H30	1-pentadecene	2	92.300	12205.3	-11.09	14370.	400	TC	0.791	273
599	C15H32	n-pentadecane	2	88.380	11995.6	-10.54	13840.	400	TC	0.769	293
600	C16H22O4	dibutyl-o-phthalate	3	10.3337	4852.47	-138.1		469	657	1.047	293

No	Formula	Name	MolWt	Tfp K	Tb K	Tc K	Pc bar	Vc cm^3/mol	Zc	Omega	Dipm debye
601	C16H32	n-decylcyclohexane	224.432	271.	570.8	750.	13.5			0.583	
602	C16H32	1-hexadecene	224.432	277.3	558.	717.	13.3			0.721	
603	C16H34	hexadecane	226.448	291.	560.	722.	14.1			0.742	
604	C17H34	n-dodecylcyclopentane	238.459	268.	584.1	750.	12.9			0.719	
605	C17H36O	heptadecanol	256.474	327.	597.	736.	14.1				
606	C17H36	n-heptadecane	240.475	295.	575.2	733.	13.	1000.	0.22	0.77	
607	C18H14	o-terphenyl	230.310	330.	605.	891.0	39.0	753.	0.396	0.431	
608	C18H14	m-terphenyl	230.310	360.	638.	924.9	35.1	768.	0.358	0.449	
609	C18H14	p-terphenyl	230.310	485.	649.	926.0	33.2	763.	0.329	0.523	0.7
610	C18H36	1-octadecene	252.486	290.8	588.0	739.	11.3			0.807	
611	C18H36	n-tridecylcyclopentane	252.486	278.	598.6	761.	12.0			0.755	
612	C18H38	octadecane	254.504	301.3	589.5	748.	12.0			0.790	
613	C18H38O	1-octadecanol	270.501	331.	608.	747.	14.1				1.7
614	C19H38	1-cyclopentyltetradecane	266.513	282.	599.	772.	11.2			0.789	
615	C19H40	n-nonadecane	268.529	305.	603.1	756.	11.1			0.827	
616	C20H40	1-cyclopentylpentadecane	280.540	290.	625.	780.	10.2			0.833	
617	C20H42	n-eicosane	282.556	310.	617.	767.	11.1			0.907	
618	C20H42O	1-eicosanol	298.555	339.	629.	770.	12.				

No	Formula	Name	CPVAP A	CPVAP B	CPVAP C	CPVAP D	DELHF	DELGF
601	C16H32	n-decylcyclohexane	-6.902E+1	1.654E+0	-9.613E-4	2.143E-7		
602	C16H32	1-hexadecene	-9.705E+0	1.475E+0	-8.298E-4	1.810E-7	-2.480E+5	1.716E+5
603	C16H34	hexadecane	-1.302E+1	1.529E+0	-8.537E-4	1.850E-7	-3.736E+5	8.374E+4
604	C17H34	n-dodecylcyclopentane	-6.326E+1	1.695E+0	-9.768E-4	2.186E-7	-3.361E+5	1.260E+5
605	C17H36O	heptadecanol	-7.792E+0	1.653E+0	-9.345E-4	2.044E-7	-5.463E+5	-4.467E+4
606	C17H36	n-heptadecane	-1.397E+1	1.624E+0	-9.081E-4	1.972E-7	-3.942E+5	9.215E+4
607	C18H14	o-terphenyl						
608	C18H14	m-terphenyl						
609	C18H14	p-terphenyl						
610	C18H36	1-octadecene	-1.133E+1	1.664E+0	-9.374E-4	2.049E-7	-2.892E+5	1.884E+5
611	C18H36	n-tridecylcyclopentane	-6.421E+1	1.790E+0	-1.032E-3	2.309E-7	-3.540E+5	1.371E+5
612	C18H38	octadecane	-1.447E+1	1.717E+0	-9.592E-4	2.078E-7	-4.148E+5	1.006E+5
613	C18H38O	1-octadecanol	-8.704E+0	1.748E+0	-9.881E-4	2.157E-7	-5.669E+5	-3.622E+4
614	C19H38	1-cyclopentyltetradecane	-6.493E+1	1.884E+0	-1.085E-3	2.426E-7	-3.746E+5	1.456E+5
615	C19H40	n-nonadecane	-1.549E+1	1.812E+0	-1.015E-3	2.205E-7	-4.354E+5	1.090E+5
616	C20H40	1-cyclopentylpentadecane	-6.609E+1	1.980E+0	-1.140E-3	2.550E-7	-3.953E+5	1.540E+5
617	C20H42	n-eicosane	-2.238E+1	1.939E+0	-1.117E-3	2.528E-7	-4.561E+5	1.174E+5
618	C20H42O	1-eicosanol	-1.258E+1	1.950E+0	-1.118E-3	2.516E-7	-6.081E+5	-1.943E+4

No	Formula	Name	Eq.	VP A	VP B	VP C	VP D	Tmin	Tmax	LDEN	TDEN
601	C16H32	n-decylcyclohexane	3	9.5425	4373.37	-111.8		463	573	0.819	293
602	C16H32	1-hexadecene	2	99.280	13117.0	-11.99	16260.	400	TC	0.788	283
603	C16H34	hexadecane	2	89.060	12411.3	-10.58	15200.	400	TC	0.773	293
604	C17H34	n-dodecylcyclopentane	3	9.5713	4395.87	-124.2		441	619	0.816	293
605	C17H360	heptadecanol	3	8.9959	3672.62	-188.1		464	656	0.848	327
606	C17H36	n-heptadecane	3	9.5308	4294.55	-124.0		434	610	0.778	298
607	C18H14	o-terphenyl									
608	C18H14	m-terphenyl									
609	C18H14	p-terphenyl									
610	C18H36	1-octadecene	3	9.6019	4416.13	-127.3		444	623	0.789	293
611	C18H36	n-tridecylcyclopentane	3	9.6068	4483.13	-131.3		453	634	0.818	293
612	C18H38	octadecane	3	9.5030	4361.79	-129.9		445	625	0.777	301
613	C18H380	1-octadecanol	3	9.0696	3757.82	-193.1		474	658	0.812	332
614	C19H38	1-cyclopentyltetradecane	3	9.6430	4439.38	-138.1		465	648	0.820	293
615	C19H40	n-nonadecane	3	9.5331	4450.44	-135.6		456	639	0.789	305
616	C20H40	1-cyclopentylpentadecane	3	9.6890	4692.01	-145.1		476	661	0.821	293
617	C20H42	n-eicosane	3	9.8483	4680.46	-141.1		471	652	0.775	313
618	C20H420	1-eicosanol	3	9.2031	3912.10	-203.1		492	679		