

2.6. DENSITIES

Unit Conversions Unless otherwise noted, densities are given in grams per cubic centimeter. To convert to pounds per cubic foot, multiply by 62.43. Temperature conversion: $^{\circ}\text{F} = 9/5^{\circ}\text{C} + 32$.

Additional References and Comments The aqueous solution data tables are from *International Critical Tables*, vol. 3, pp. 115–129, unless otherwise stated. All compositions are in weight percent in vacuo. All density values are $d_4^t = \text{g/mL}$ in vacuo. For more detailed data on densities, see also the *CRC Handbook of Chemistry and Physics*, Chemical Rubber Publishing Co., 97th ed.; or <http://hbcponline.com>.

2.6.1. DENSITIES OF PURE SUBSTANCES

Table 2-31 Density (kg/m^3) of Saturated Liquid Water from the Triple Point to the Critical Point

T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$
273.160*	999.793	352	972.479	432	908.571	512	814.982	592	669.930
274	999.843	354	971.235	434	906.617	514	812.164	594	664.974
276	999.914	356	969.972	436	904.645	516	809.318	596	659.907
278	999.919	358	968.689	438	902.656	518	806.441	598	654.722
280	999.862	360	967.386	440	900.649	520	803.535	600	649.411
282	999.746	362	966.064	442	898.624	522	800.597	602	643.97
284	999.575	364	964.723	444	896.580	524	797.629	604	638.38
286	999.352	366	963.363	446	894.519	526	794.628	606	632.64
288	999.079	368	961.984	448	892.439	528	791.594	608	626.74
290	998.758	370	960.587	450	890.341	530	788.527	610	620.65
292	998.392	372	959.171	452	888.225	532	785.425	612	614.37
294	997.983	374	957.737	454	886.089	534	782.288	614	607.88
296	997.532	376	956.285	456	883.935	536	779.115	616	601.15
298	997.042	378	954.815	458	881.761	538	775.905	618	594.16
300	996.513	380	953.327	460	879.569	540	772.657	620	586.88
302	995.948	382	951.822	462	877.357	542	769.369	622	579.26
304	995.346	384	950.298	464	875.125	544	766.042	624	571.25

T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$	T, K	$\rho, \text{kg/m}^3$
306	994.711	386	948.758	466	872.873	546	762.674	626	562.81
308	994.042	388	947.199	468	870.601	548	759.263	628	553.84
310	993.342	390	945.624	470	868.310	550	755.808	630	544.25
312	992.610	392	944.030	472	865.997	552	752.308	632	533.92
314	991.848	394	942.420	474	863.664	554	748.762	634	522.71
316	991.056	396	940.793	476	861.310	556	745.169	636	510.42
318	990.235	398	939.148	478	858.934	558	741.525	638	496.82
320	989.387	400	937.486	480	856.537	560	737.831	640	481.53
322	988.512	402	935.807	482	854.118	562	734.084	641	473.01
324	987.610	404	934.111	484	851.678	564	730.283	642	463.67
326	986.682	406	932.398	486	849.214	566	726.425	643	453.14
328	985.728	408	930.668	488	846.728	568	722.508	644	440.73
330	984.750	410	928.921	490	844.219	570	718.530	645	425.05
332	983.747	412	927.157	492	841.686	572	714.489	646	402.96
334	982.721	414	925.375	494	839.130	574	710.382	647	357.34
336	981.671	416	923.577	496	836.549	576	706.206	647.096 [†]	322
338	980.599	418	921.761	498	833.944	578	701.959		
340	979.503	420	919.929	500	831.313	580	697.638		
342	978.386	422	918.079	502	828.658	582	693.238		
344	977.247	424	916.212	504	825.976	584	688.757		
346	976.086	426	914.328	506	823.269	586	684.190		
348	974.904	428	912.426	508	820.534	588	679.533		
350	973.702	430	910.507	510	817.772	590	674.781		

*Triple point

[†]Critical point

From Wagner, W., and Pruss, A., "The IAPWS Formulation 1995 for the Thermodynamic Properties of Ordinary Water Substance for General and Scientific Use," *J. Phys. Chem. Ref. Data* **31**(2):387–535, 2002.

<input type="checkbox"/>	Click here for the Natural Convection Heat Transfer Coefficients spreadsheet calculator.
<input type="checkbox"/>	Click here for the Forced Convection Heat Transfer Coefficients spreadsheet calculator.
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<input type="checkbox"/>	Click here for the Incompressible Annulus and Duct Flow Calculations spreadsheet calculator.

Table 2-32 Densities of Inorganic and Organic Liquids (mol/dm³)

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	T _{min} , K	Den sity at T _{min}	T _{max} , K	Den sity at T _{max}
105	1	Ace tal de hy de	C ₂ H 4O	75- 07-0	44.0 525 6	1.71 136 5	0.26 355	466	0.28 571				149. 78	21.4 23	466. 00	6.49 35
105	2	Ace tami de	C ₂ H 5NO	60- 35-5	59.0 672	1.01 6	0.21 845	761	0.26 116				353. 33	16.9 36	761. 00	4.65 09
105	3	Ace tic acid	C ₂ H 4O ₂	64- 19-7	60.0 52	1.44 86	0.25 892	591. 95	0.25 29				289. 81	17.4 92	591. 95	5.59 48
105	4	Ace tic anh ydri de	C ₄ H 6O ₃	108- 24-7	102. 088 64	0.79 388	0.24 119	606	0.29 817				200. 15	11.6 26	606. 00	3.29 15
105	5	Ace tone	C ₃ H 6O	67- 64-1	58.0 791 4	1.23 32	0.25 886	508. 2	0.29 13				178. 45	15.6 83	508. 20	4.76 40
105	6	Ace tonit rile	C ₂ H 3N	75- 05-8	41.0 519	1.06 93	0.20 656	545. 5	0.24 699				229. 32	20.5 44	545. 50	5.17 67
105	7	Ace tyle ne	C ₂ H 2	74- 86-2	26.0 372 8	2.45 07	0.27 448	308. 3	0.28 752				192. 40	23.6 92	308. 30	8.92 85
105	8	Acr olei n	C ₃ H 4O	107- 02-8	56.0 632 6	1.32 61	0.26 124	506	0.24 89				185. 45	16.8 22	506. 00	5.07 62
105	9	Acry lic acid	C ₃ H 4O ₂	79- 10-7	72.0 626 6	1.24 14	0.25 822	615	0.30 701				286. 15	14.6 93	615. 00	4.80 75

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	10	Acry lonit rile	C ₃ H 3N	107- 13-1	53.0 626	1.03 79	0.22 465	540	0.28 921				189. 63	17.2 54	540. 00	4.62 01
105	11	Air	Mixt ure	132 259- 10-0	28.9 6	2.89 63	0.26 733	132. 45	0.27 341				59.1 5	33.2 79	132. 45	10.8 340
105	12	Am mon ia	H ₃ N	766 4- 41-7	17.0 305 2	3.53 83	0.25 443	405. 65	0.28 88				195. 41	43.1 41	405. 65	13.9 070
105	13	Anis ole	C ₇ H 8O	100- 66-3	108. 137 82	0.77 488	0.26 114	645. 6	0.28 234				235. 65	9.66 75	645. 60	2.96 73
105	14	Arg on	Ar	744 0- 37-1	39.9 48	3.84 69	0.28 81	150. 86	0.29 783				83.7 8	35.4 91	150. 86	13.3 530
105	15	Ben zam ide	C ₇ H 7NO	55- 21-0	121. 136 58	0.73 71	0.25 487	824	0.28 571				403. 00	8.93 81	824. 00	2.89 21
105	16	Ben zen e	C ₆ H 6	71- 43-2	78.1 118 4	1.02 59	0.26 666	562. 05	0.28 394				278. 68	11.4 22	562. 05	3.84 72
105	17	Ben zen ethi ol	C ₆ H 6S	108- 98-5	110. 176 84	0.83 573	0.26 326	689	0.30 798				258. 27	10.0 74	689. 00	3.17 45
105	18	Ben zoic acid	C ₇ H 6O ₂	65- 85-0	122. 121 34	0.71 587	0.24 812	751	0.28 57				395. 45	8.89 35	751. 00	2.88 52
105	19	Ben zoni trile	C ₇ H 5N	100- 47-0	103. 121 3	0.72 184	0.24 606	702. 3	0.28 789				260. 28	10.0 08	702. 30	2.93 36
105	20	Ben zop hen one	C ₁₃ H ₁₀ O	119- 61-9	182. 217 9	0.43 743	0.24 833	830	0.27 555				321. 35	5.94 96	830. 00	1.76 15
105	21	Ben zyl alco hol	C ₇ H 8O	100- 51-6	108. 137 82	0.59 867	0.22 849	720. 15	0.23 567				257. 85	9.90 51	720. 15	2.62 01
105	22	Ben zyl ethy l ethe r	C ₉ H 12O	539- 30-0	136. 190 98	0.60 917	0.26 925	662	0.26 32				275. 65	7.06 51	662. 00	2.26 25

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	23	Ben zyl mer capt an	C ₇ H ₈ S	100-53-8	124.20342	0.70797	0.25982	718	0.32144				243.95	8.8623	718.00	2.7248
105	24	Biph enyl	C ₁₂ H ₁₀	92-52-4	154.2078	0.52257	0.25833	773	0.27026				342.20	6.4251	773.00	2.0229
105	25	Bro min e	Br ₂	7726-95-6	159.808	2.1872	0.29527	584.15	0.3295				265.85	20.109	584.15	7.4075
105	26	Bro mob enz ene	C ₆ H ₅ Br	108-86-1	157.0079	0.8226	0.26632	670.15	0.2821				242.43	9.9087	670.15	3.0888
105	27	Bro moe than e	C ₂ H ₅ Br	74-96-4	108.965	1.3285	0.2708	503.8	0.3012				154.25	15.809	503.80	4.9058
105	28	Bro mo met han e	CH ₃ Br	74-83-9	94.93852	1.796	0.27065	464	0.28947				173.00	20.787	464.00	6.6359
105	29	1,2- But adie ne	C ₄ H ₆	590-19-2	54.09044	1.187	0.26114	452	0.3065				136.95	15.123	452.00	4.5455
105	30	1,3- But adie ne	C ₄ H ₆	106-99-0	54.09044	1.2346	0.27216	425	0.28707				164.25	14.058	425.00	4.5363
105	31	But ane	C ₄ H ₁₀	106-97-8	58.1222	1.0677	0.27188	425.12	0.28688				134.86	12.62	425.12	3.9271
105	32	1,2- But ane diol	C ₄ H ₁₀ O ₂	584-03-2	90.121	0.81696	0.24755	680	0.24535				220.00	11.734	680.00	3.3002
105	33	1,3- But ane diol	C ₄ H ₁₀ O ₂	107-88-0	90.121	0.81856	0.24967	676	0.22023				196.15	11.872	676.00	3.2786
105	34	1- But anol	C ₄ H ₁₀ O	71-36-3	74.1216	0.98279	0.2683	563.1	0.25488				183.85	12.035	563.10	3.6630

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	35	2- But anol	C ₄ H ₁₀ O	78- 92-2	74.1 216	0.97 552	0.26 339	535. 9	0.26 864				158. 45	12.4 73	535. 90	3.70 37
105	36	1- But ene	C ₄ H ₈	106- 98-9	56.1 063 2	1.08 77	0.26 454	419. 5	0.28 43				87.8 0	14.2 64	419. 50	4.11 17
105	37	cis- 2- But ene	C ₄ H ₈	590- 18-1	56.1 063 2	1.15 91	0.27 085	435. 5	0.28 116				134. 26	13.8 94	435. 50	4.27 95
105	38	tran s-2- But ene	C ₄ H ₈	624- 64-6	56.1 063 2	1.14 48	0.27 154	428. 6	0.28 419				167. 62	13.0 8	428. 60	4.21 60
105	39	Buty l acet ate	C ₆ H ₁₂ O ₂	123- 86-4	116. 158 28	0.67 794	0.26 37	575. 4	0.29 318				199. 65	8.33 65	575. 40	2.57 09
105	40	Buty lben zen e	C ₁₀ H ₁₄	104- 51-8	134. 218 16	0.50 812	0.25 238	660. 5	0.29 373				185. 30	7.02 64	660. 50	2.01 33
105	41	Buty l mer capt an	C ₄ H ₁₀ S	109- 79-5	90.1 872	0.89 458	0.27 463	570. 1	0.28 512				157. 46	10.5 85	570. 10	3.25 74
105	42	sec- Buty l mer capt an	C ₄ H ₁₀ S	513- 53-1	90.1 872	0.89 137	0.27 365	554	0.29 53				133. 02	10.7 61	554. 00	3.25 73
105	43	1- Buty ne	C ₄ H ₆	107- 00-6	54.0 904 4	1.34 09	0.27 892	440	0.29 661				147. 43	14.9 01	440. 00	4.80 75
105	44	Buty rald ehy de	C ₄ H ₈ O	123- 72-8	72.1 057 2	1.03 387 3	0.26 673 9	537. 2	0.28 571				176. 80	12.6 02	537. 20	3.87 60
105	45	Buty ric acid	C ₄ H ₈ O ₂	107- 92-6	88.1 051	0.88 443	0.25 828	615. 7	0.24 8				267. 95	11.0 87	615. 70	3.42 43
105	46	Buty roni trile	C ₄ H ₇ N	109- 74-0	69.1 051	0.79 716	0.23 168	585. 4	0.28 071				161. 30	13.0 87	585. 40	3.44 08

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	47	Car bon diox ide	CO ₂	124- 38-9	44.0 095	2.76 8	0.26 212	304. 21	0.29 08				216. 58	26.8 28	304. 21	10.5 600
105	48	Car bon disu lfide	CS ₂	75- 15-0	76.1 407	1.79 68	0.28 749	552	0.32 26				161. 11	19.0 64	552. 00	6.25 00
105	49	Car bon mon oxid e	CO	630- 08-0	28.0 101	2.89 7	0.27 532	132. 92	0.28 13				68.1 5	30.1 8	132. 92	10.5 220
105	50	Car bon tetr achl orid e	CCl ₄	56- 23-5	153. 822 7	0.99 835	0.27 4	556. 35	0.28 7				250. 33	10.8 43	556. 35	3.64 36
105	51	Car bon tetr aflu orid e	CF ₄	75- 73-0	88.0 043	1.95 5	0.27 884	227. 51	0.28 571				89.5 6	21.2 11	227. 51	7.01 12
105	52	Chlo rine	Cl ₂	778 2- 50-5	70.9 06	2.23	0.27 645	417. 15	0.29 26				172. 12	24.2 42	417. 15	8.06 66
105	53	Chlo robe nze ne	C ₆ H ₅ Cl	108- 90-7	112. 556 9	0.87 11	0.26 805	632. 35	0.27 99				227. 95	10.3 85	632. 35	3.24 98
105	54	Chlo roet han e	C ₂ H ₅ Cl	75- 00-3	64.5 141	1.39 625	0.26 867	460. 35	0.28 571				136. 75	17.0 55	460. 35	5.19 69
105	55	Chlo rofo rm	CHC l ₃	67- 66-3	119. 377 64	1.08 41	0.25 81	536. 4	0.27 41				209. 63	13.7 02	536. 40	4.20 03
105	56	Chlo rom etha ne	CH ₃ Cl	74- 87-3	50.4 875	1.86 51	0.26 27	416. 25	0.28 571				175. 43	22.2 72	416. 25	7.09 97
105	57	1- Chlo ropr opa ne	C ₃ H ₇ Cl	540- 54-5	78.5 406 8	1.12 465	0.27 28	503. 15	0.28 571				150. 35	13.3 33	503. 15	4.12 26

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	58	2-Chloropropane	C ₃ H ₇ Cl	75-29-6	78.54068	1.1202	0.27669	489	0.27646				155.97	12.855	489.00	4.0486
105	59	m-Cresol	C ₇ H ₈ O	108-39-4	108.13782	0.9061	0.28268	705.85	0.2707				285.39	9.6115	705.85	3.2054
105	60	o-Cresol	C ₇ H ₈ O	95-48-7	108.13782	0.95937	0.2882	697.55	0.2857				304.19	9.5725	697.55	3.3288
105	61	p-Cresol	C ₇ H ₈ O	106-44-5	108.13782	1.1503	0.31861	704.65	0.30104				307.93	9.4494	704.65	3.6104
105	62	Cumene	C ₉ H ₁₂	98-82-8	120.19158	0.58711	0.25583	631	0.28498				177.14	7.9387	631.00	2.2949
105	63	Cyanogen	C ₂ N ₂	460-19-5	52.0348	1.7805	0.26846	400.15	0.26079				245.25	18.517	400.15	6.6323
105	64	Cyclobutane	C ₄ H ₈	287-23-0	56.10632	1.3931	0.29255	459.93	0.24913				182.48	14.074	459.93	4.7619
105	65	Cyclohexane	C ₆ H ₁₂	110-82-7	84.15948	0.88998	0.27376	553.8	0.28571				279.69	9.3804	553.80	3.2509
105	66	Cyclohexanol	C ₆ H ₁₂ O	108-93-0	100.15888	0.8243	0.26545	650.1	0.28495				296.60	9.4693	650.10	3.1053
105	67	Cyclohexanone	C ₆ H ₁₀ O	108-94-1	98.143	0.86464	0.26888	653	0.29943				242.00	10.09	653.00	3.2157
105	68	Cyclohexene	C ₆ H ₁₀	110-83-8	82.1436	0.92997	0.27056	560.4	0.28943				169.67	11.16	560.40	3.4372
105	69	Cyclopentane	C ₅ H ₁₀	287-92-3	70.1329	1.0897	0.28356	511.7	0.25142				179.28	11.906	511.70	3.8429

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	70	Cycl ope nten e	C ₅ H ₈	142- 29-0	68.1 170 2	1.10 35	0.27 035	507	0.28 699				138. 13	13.4 7	507. 00	4.08 17
105	71	Cycl opro pan e	C ₃ H ₆	75- 19-4	42.0 797 4	1.74 11	0.28 205	398	0.29 598				145. 59	18.6 58	398. 00	6.17 30
105	72	Cycl othe xyl mer capt an	C ₆ H ₁₂ S	156 9- 69-3	116. 224 48	0.78 578	0.27 882	664	0.31 067				189. 64	8.90 48	664. 00	2.81 82
105	73	Dec anal	C ₁₀ H ₂₀ O	112- 31-2	156. 265 2	0.47 854 2	0.27 516 2	674	0.28 571				285. 00	5.23 96	674. 00	1.73 91
105	74	Dec ane	C ₁₀ H ₂₂	124- 18-5	142. 281 68	0.41 084	0.25 175	617. 7	0.28 571				243. 51	5.39 27	617. 70	1.63 19
105	75	Dec anoic acid	C ₁₀ H ₂₀ O ₂	334- 48-5	172. 265	0.39 348	0.24 92	722. 1	0.28 571				304. 55	5.18 09	722. 10	1.57 90
105	76	1- Dec anol	C ₁₀ H ₂₂ O	112- 30-1	158. 281 08	0.38 208	0.24 645	688	0.26 125				280. 05	5.26 09	688. 00	1.55 03
105	77	1- Dec ene	C ₁₀ H ₂₀	872- 05-9	140. 265 8	0.43 981	0.25 661	616. 6	0.29 148				206. 89	5.73 28	616. 60	1.71 39
105	78	Dec yl mer capt an	C ₁₀ H ₂₂ S	143- 10-2	174. 346 68	0.44 289	0.27 636	696	0.27 668				247. 56	5.00 48	696. 00	1.60 26
105	79	1- Dec yne	C ₁₀ H ₁₈	764- 93-2	138. 249 92	0.46 877	0.25 875	619. 85	0.29 479				229. 15	5.89 54	619. 85	1.81 17
105	80	Deu teriu m	D ₂	778 2- 39-0	4.03 16	5.21 15	0.31 5	38.3 5	0.28 571				18.7 3	42.9 45	38.3 5	16.5 440
105	81	1,1- Dibr omo etha ne	C ₂ H 4Br ₂	557- 91-5	187. 861 16	0.95 523	0.26 364	628	0.29 825				210. 15	11.7 99	628. 00	3.62 32

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	82	1,2-Dibromomethane	C ₂ H ₄ Br ₂	106-93-4	187.8616	1.0132	0.26634	650.15	0.28571				282.85	11.704	650.15	3.8042
105	83	Dibromomethane	CH ₂ Br ₂	74-95-3	173.83458	1.1136	0.24834	611	0.27583				220.60	15.358	611.00	4.4842
105	84	Dibutyl ether	C ₈ H ₁₈ O	142-96-1	130.22792	0.55941	0.27243	584.1	0.29932				175.30	6.6071	584.10	2.0534
105	85	m-Dichlorobenzene	C ₆ H ₄ Cl ₂	541-73-1	147.00196	0.74495	0.26147	683.95	0.31526				248.39	9.1207	683.95	2.8491
105	86	o-Dichlorobenzene	C ₆ H ₄ Cl ₂	95-50-1	147.00196	0.74404	0.26112	705	0.30815				256.15	9.1658	705.00	2.8494
105	87	p-Dichlorobenzene	C ₆ H ₄ Cl ₂	106-46-7	147.00196	0.74858	0.26276	684.75	0.30788				326.14	8.5175	684.75	2.8489
105	88	1,1-Dichloroethane	C ₂ H ₄ Cl ₂	75-34-3	98.95916	1.1055	0.26533	523	0.287				176.19	13.549	523.00	4.1665
105	89	1,2-Dichloroethane	C ₂ H ₄ Cl ₂	107-06-2	98.95916	1.2591	0.27698	561.6	0.30492				237.49	13.462	561.60	4.5458
105	90	Dichloromethane	CH ₂ Cl ₂	75-09-2	84.93258	1.3897	0.25678	510	0.2902				178.01	17.974	510.00	5.4120

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	91	1,1-Dichloropropane	C ₃ H ₆ Cl ₂	78-99-9	112.98574	0.9551	0.27794	560	0.24132				192.50	10.925	560.00	3.4364
105	92	1,2-Dichloropropane	C ₃ H ₆ Cl ₂	78-87-5	112.98574	0.89833	0.26142	572	0.2868				172.71	11.526	572.00	3.4363
105	93	Dietanolamine	C ₄ H ₁₁ N O ₂	111-42-2	105.13564	0.68184	0.23796	736.6	0.2062				301.15	10.39	736.60	2.8654
105	94	Diethylamine	C ₄ H ₁₁ N	109-89-7	73.13684	0.85379	0.25675	496.6	0.27027				223.35	10.575	496.60	3.3254
105	95	Dietylether	C ₄ H ₁₀ O	60-29-7	74.1216	0.9554	0.26847	466.7	0.2814				156.85	11.487	466.70	3.5587
105	96	Diethylsulfide	C ₄ H ₁₀ S	352-93-2	90.1872	0.82227	0.26314	557.15	0.27369				169.20	10.47	557.15	3.1248
105	97	1,1-Difluoroethane	C ₂ H ₄ F ₂	75-37-6	66.04997	1.4345	0.25774	386.44	0.28178				154.56	18.006	386.44	5.5657
105	98	1,2-Difluoroethane	C ₂ H ₄ F ₂	624-72-6	66.04997	1.173	0.22856	445	0.28571				179.60	18.336	445.00	5.1321
105	99	Difluoromethane	CH ₂ F ₂	75-10-5	52.02339	1.9973	0.24653	351.26	0.28153				136.95	27.399	351.26	8.1017
105	100	Diisopropylamine	C ₆ H ₁₅ N	108-18-9	101.19	0.6181	0.25786	523.1	0.271				176.85	8.0541	523.10	2.3970

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	101	Di- sopr opyl ethe r	C ₆ H ₁₄ O	108- 20-3	102. 174 76	0.69 213	0.26 974	500. 05	0.28 571				187. 65	8.06 73	500. 05	2.56 59
105	102	Di- sopr opyl keto ne	C ₇ H ₁₄ O	565- 80-0	114. 185 46	0.64 619	0.26 881	576	0.28 036				204. 81	7.67 96	576. 00	2.40 39
105	103	1,1- Dim etho xyet han e	C ₄ H ₁₀ O ₂	534- 15-6	90.1 21	0.89 368	0.26 599	507. 8	0.28 571				159. 95	11.0 29	507. 80	3.35 98
105	104	1,2- Dim etho xypr opa ne	C ₅ H ₁₂ O ₂	777 8- 85-0	104. 147 58	0.76 327	0.26 742	543	0.28 571				226. 10	8.84 31	543. 00	2.85 42
105	105	Dim ethy l acet ylen e	C ₄ H ₆	503- 17-3	54.0 904 4	1.17 17	0.25 895	473. 2	0.27 289				240. 91	13.7 67	473. 20	4.52 48
105	106	Dim ethy l ami ne	C ₂ H ₇ N	124- 40-3	45.0 836 8	1.54 36	0.27 784	437. 2	0.25 72				180. 96	16.9 64	437. 20	5.55 57
105	107	2,3- Dim ethy lbut ane	C ₆ H ₁₄	79- 29-8	86.1 753 6	0.75 65	0.27 305	500	0.27 408				145. 19	9.03 1	500. 00	2.77 06
105	108	1,1- Dim ethy lcycl ohe xan e	C ₈ H ₁₆	590- 66-9	112. 212 64	0.55 873	0.25 143	591. 15	0.27 758				239. 66	7.34 17	591. 15	2.22 22
105	109	cis- 1,2- Dim ethy lcycl ohe xan e	C ₈ H ₁₆	220 7- 01-4	112. 212 64	0.52 953	0.24 358	606. 15	0.26 809				223. 16	7.57 83	606. 15	2.17 39

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	110	trans-1,2-Dimethylcyclohexane	C ₈ H ₁₆	6876-23-9	112.21264	0.54405	0.25026	596.15	0.2658				184.99	7.6258	596.15	2.1739
105	111	Dimethyl disulfide	C ₂ H ₆ S ₂	624-92-0	94.19904	1.1058	0.27866	615	0.31082				188.44	12.413	615.00	3.9683
105	112	Dimethyl ether	C ₂ H ₆ O	115-10-6	46.06844	1.5693	0.2679	400.1	0.2882				131.65	18.95	400.10	5.8578
105	113	N,N-Dimethylformamide	C ₃ H ₇ NO	68-12-2	73.09378	0.89615	0.23478	649.6	0.28091				212.72	13.954	649.60	3.8170
105	114	2,3-Dimethylpentane	C ₇ H ₁₆	565-59-3	100.20194	0.72352	0.28629	537.3	0.27121				141.23	7.9932	537.30	2.5272
105	115	Dimethyl phthalate	C ₁₀ H ₁₀ O ₄	131-11-3	194.184	0.47977	0.25428	766	0.30722				274.18	6.2334	766.00	1.8868
105	116	Dimethylsilane	C ₂ H ₈ Si	1111-74-6	60.17042	1.0214	0.26351	402	0.28421				122.93	12.898	402.00	3.8761
105	117	Dimethyl sulfide	C ₂ H ₆ S	75-18-3	62.134	1.4029	0.27991	503.04	0.2741				174.88	15.556	503.04	5.0120

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	118	Dim ethy l sulf oxid e	C ₂ H ₆ OS	67- 68-5	78.1 334 4	1.10 96	0.25 189	729	0.33 11				291. 67	14.1 11	729. 00	4.40 51
105	119	Dim ethy l tere phth alat e	C ₁₀ H ₁₀ O ₄	120- 61-6	194. 184	0.48 611	0.25 715	777. 4	0.28 571				413. 79	5.63 97	777. 40	1.89 04
105	120	1,4- Diox ane	C ₄ H ₈ O ₂	123- 91-1	88.1 051 2	1.18 19	0.28 13	587	0.30 47				284. 95	11.8 38	587. 00	4.20 16
105	121	Diph enyl ethe r	C ₁₂ H ₁₀ O	101- 84-8	170. 207 2	0.52 133	0.26 218	766. 8	0.31 033				300. 03	6.26 48	766. 80	1.98 84
105	122	Dipr opyl ami ne	C ₆ H ₁₅ N	142- 84-7	101. 19	0.65 9	0.26 428	550	0.27 66				210. 15	7.99 29	550. 00	2.49 36
105	123	Dod eca ne	C ₁₂ H ₂₆	112- 40-3	170. 334 84	0.33 267	0.24 664	658	0.28 571				263. 57	4.52 05	658. 00	1.34 88
105	124	Eico san e	C ₂₀ H ₄₂	112- 95-8	282. 547 48	0.18 166	0.23 351	768	0.28 571				309. 58	2.72 93	768. 00	0.77 80
105	125	Etha ne	C ₂ H ₆	74- 84-0	30.0 69	1.91 22	0.27 937	305. 32	0.29 187				90.3 5	21.6 4	305. 32	6.84 47
105	126	Etha nol	C ₂ H ₆ O	64- 17-5	46.0 684 4	1.62 88	0.27 469	514	0.23 178				159. 05	19.4 1	514. 00	5.92 96
105	127	Ethy l acet ate	C ₄ H ₈ O ₂	141- 78-6	88.1 051 2	0.89 96	0.25 856	523. 3	0.27 8				189. 60	11.4 78	523. 30	3.47 93
105	128	Ethy l ami ne	C ₂ H ₇ N	75- 04-7	45.0 836 8	1.09 36	0.22 636	456. 15	0.25 522				192. 15	17.5 88	456. 15	4.83 12
105	129	Ethy lben zen e	C ₈ H ₁₀	100- 41-4	106. 165	0.70 041	0.26 162	617. 15	0.28 454				178. 20	9.04 07	617. 15	2.67 72

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	130	Ethyl benzoate	C ₉ H ₁₀ O ₂	93-89-0	150.1745	0.48864	0.23894	698	0.28421				238.45	7.2908	698.00	2.0450
105	131	2-Ethylbutanoic acid	C ₆ H ₁₂ O ₂	88-09-5	116.15828	0.66085	0.25707	655	0.31103				258.15	8.2198	655.00	2.5707
105	132	Ethyl butyrate	C ₆ H ₁₂ O ₂	105-54-4	116.15828	0.63566	0.25613	571	0.27829				175.15	8.4912	571.00	2.4818
105	133	Ethylcyclohexane	C ₈ H ₁₆	1678-91-7	112.21264	0.61587	0.26477	609.15	0.28054				161.84	7.8679	609.15	2.3261
105	134	Ethylcyclopentane	C ₇ H ₁₄	1640-89-7	98.18606	0.71751	0.26903	569.5	0.27733				134.71	9.0179	569.50	2.6670
105	135	Ethylene	C ₂ H ₄	74-85-1	28.05316	2.0961	0.27657	282.34	0.29147				104.00	23.326	282.34	7.5789
105	136	Ethylenediamine	C ₂ H ₈ N ₂	107-15-3	60.09832	0.7842	0.20702	593	0.20254				284.29	15.055	593.00	3.7880
105	137	Ethyleneglycol	C ₂ H ₆ O ₂	107-21-1	62.06784	1.315	0.25125	720	0.21868				260.15	18.31	720.00	5.2338
105	138	Ethylenimine	C ₂ H ₅ N	151-56-4	43.0678	1.3462	0.23289	537	0.23357				195.20	21.45	537.00	5.7804
105	139	Ethylenoxide	C ₂ H ₄ O	75-21-8	44.05256	1.836	0.26024	469.15	0.2696				160.65	23.477	469.15	7.0550
105	140	Ethylformate	C ₃ H ₆ O ₂	109-94-4	74.07854	1.1343	0.26168	508.4	0.2791				193.55	14.006	508.40	4.3347

Eqn	Compd. no.	Name	Formula	CAS	Mol. wt.	C	C	C	C	C	C	C	T, K	Density at T	T, K	Density at T
105	141	2-Ethylhexanoic acid	C ₈ H ₁₆ O ₂	149-57-5	144.211	0.47428	0.25028	674.6	0.25442				155.15	6.926	674.60	1.8950
105	142	Ethylhexyl ether	C ₈ H ₁₈ O	5756-43-4	130.22792	0.55729	0.2714	583	0.29538				180.00	6.612	583.00	2.0534
105	143	Ethylisopropyl ether	C ₅ H ₁₂ O	625-54-7	88.14818	0.8185	0.26929	489	0.30621				140.00	9.9236	489.00	3.0395
105	144	Ethylisopropyl ketone	C ₆ H ₁₂ O	565-69-5	100.15888	0.68162	0.25152	567	0.3182				204.15	8.9749	567.00	2.7100
105	145	Ethylmercaptan	C ₂ H ₆ S	75-08-1	62.13404	1.3047	0.2694	499.15	0.27866				125.26	16.242	499.15	4.8430
105	146	Ethyl propionate	C ₅ H ₁₀ O ₂	105-37-3	102.1317	0.7405	0.25563	546	0.2795				199.25	9.6317	546.00	2.8968
105	147	Ethylpropyl ether	C ₅ H ₁₂ O	628-32-0	88.14818	0.7908	0.266	500.23	0.292				145.65	9.8474	500.23	2.9729
105	148	Ethyltrichlorosilane	C ₂ H ₅ Cl ₃ Si	115-21-9	163.506	0.61243	0.24681	559.95	0.30858				167.55	8.6934	559.95	2.4814
105	149	Fluorine	F ₂	7782-41-4	37.9968064	4.2895	0.28587	144.12	0.28776				53.48	44.888	144.12	15.0050
105	150	Fluorobenzene	C ₆ H ₅ F	462-06-6	96.1023032	1.0146	0.27277	560.09	0.28291				230.94	11.374	560.09	3.7196

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	151	Fluor ethane	C ₂ H ₅ F	353-36-6	48.0595	1.693858	0.269323	375.31	0.28571				129.95	20.099	375.31	6.2893
105	152	Fluoromethane	CH ₃ F	593-53-3	34.03292	2.2261	0.25072	317.42	0.27343				131.35	29.345	317.42	8.8788
105	153	Formaldehyde	CH ₂ O	50-00-0	30.02598	3.897011	0.331636	420	0.28571				155.15	30.92	420.00	11.7510
105	154	Formamide	CH ₃ NO	75-12-7	45.04062	1.2486	0.20352	771	0.25178				275.60	25.488	771.00	6.1350
105	155	Formic acid	CH ₂ O ₂	64-18-6	46.0257	1.938	0.24225	588	0.24435				281.45	26.806	588.00	8.0000
105	156	Furan	C ₄ H ₄ O	110-00-9	68.07396	1.1339	0.24741	490.15	0.2612				187.55	15.702	490.15	4.5831
105	157	Helium-4	He	7440-59-7	4.0026	7.2475	0.41865	5.2	0.24096				2.20	37.115	5.20	17.3120
105	158	Hep tadecane	C ₁₇ H ₃₆	629-78-7	240.46774	0.21897	0.23642	736	0.28571				295.13	3.2189	736.00	0.9262
105	159	Hep tanal	C ₇ H ₁₄ O	111-71-7	114.18546	0.577362	0.250575	620	0.28571				229.80	7.7462	620.00	2.3041
105	160	Hep tane	C ₇ H ₁₆	142-82-5	100.20194	0.61259	0.26211	540.2	0.28141				182.57	7.6998	540.20	2.3371
105	161	Hep tanoic acid	C ₇ H ₁₄ O ₂	111-14-8	130.185	0.53066	0.24729	677.3	0.28289				265.83	7.2212	677.30	2.1459
105	162	1-Hep tanol	C ₇ H ₁₆ O	111-70-6	116.20134	0.55687	0.24725	632.3	0.31471				239.15	7.5022	632.30	2.2523

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	163	2- Hep tano l	C ₇ H ₁₆ O	543- 49-7	116. 201 34	0.59 339	0.26 02	608. 3	0.26 968				220. 00	7.51 73	608. 30	2.28 05
105	164	3- Hep tano ne	C ₇ H ₁₄ O	106- 35-4	114. 185 46	0.59 268	0.25 663	606. 6	0.27 766				234. 15	7.57 51	606. 60	2.30 95
105	165	2- Hep tano ne	C ₇ H ₁₄ O	110- 43-0	114. 185 46	0.58 247	0.25 279	611. 4	0.29 818				238. 15	7.55 14	611. 40	2.30 42
105	166	1- Hep tene	C ₇ H ₁₄	592- 76-7	98.1 860 6	0.66 016	0.26 657	537. 4	0.28 571				154. 12	8.22 57	537. 40	2.47 65
105	167	Hep tyl mer capt an	C ₇ H ₁₆ S	163 9- 09-4	132. 266 94	0.58 622	0.27 26	645	0.29 644				229. 92	6.72 77	645. 00	2.15 05
105	168	1- Hep tyne	C ₇ H ₁₂	628- 71-7	96.1 701 8	0.67 304	0.26 045	547	0.28 388				192. 22	8.49 22	547. 00	2.58 41
105	169	Hex ade can e	C ₁₆ H ₃₄	544- 76-3	226. 441 16	0.23 289	0.23 659	723	0.28 571				291. 31	3.41 5	723. 00	0.98 44
105	170	Hex anal	C ₆ H ₁₂ O	66- 25-1	100. 158 88	0.66 850 4	0.25 269 5	594	0.28 571				214. 93	8.87 08	594. 00	2.64 55
105	171	Hex ane	C ₆ H ₁₄	110- 54-3	86.1 753 6	0.70 824	0.26 411	507. 6	0.27 537				177. 83	8.74 7	507. 60	2.68 16
105	172	Hex anoi c acid	C ₆ H ₁₂ O ₂	142- 62-1	116. 158	0.62 833	0.25 598	660. 2	0.25 304				269. 25	8.09 64	660. 20	2.45 46
105	173	1- Hex anol	C ₆ H ₁₄ O	111- 27-3	102. 174 76	0.70 093	0.26 776	611. 3	0.24 919				228. 55	8.45 6	611. 30	2.61 78
105	174	2- Hex anol	C ₆ H ₁₄ O	626- 93-7	102. 175	0.67 393	0.25 948	585. 3	0.26 552				223. 00	8.51 81	585. 30	2.59 72

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	175	2- Hex ano ne	C ₆ H ₁₂ O	591- 78-6	100. 158 88	0.67 816	0.25 634	587. 61	0.28 365				217. 35	8.73 19	587. 61	2.64 55
105	176	3- Hex ano ne	C ₆ H ₁₂ O	589- 38-8	100. 158 88	0.67 666	0.25 578	582. 82	0.27 746				217. 50	8.76 31	582. 82	2.64 55
105	177	1- Hex ene	C ₆ H ₁₂	592- 41-6	84.1 594 8	0.76 925	0.26 809	504	0.28 571				133. 39	9.58 15	504. 00	2.86 94
105	178	3- Hex yne	C ₆ H ₁₀	928- 49-4	82.1 436	0.78 045	0.26 065	544	0.28 571				170. 05	10.0 21	544. 00	2.99 42
105	179	Hex yl mer capt an	C ₆ H ₁₄ S	111- 31-9	118. 240 36	0.66 372	0.27 345	623	0.29 185				192. 62	7.77 33	623. 00	2.42 72
105	180	1- Hex yne	C ₆ H ₁₀	693- 02-7	82.1 436	0.84 427	0.27 185	516. 2	0.27 71				141. 25	10.2 3	516. 20	3.10 56
105	181	2- Hex yne	C ₆ H ₁₀	764- 35-2	82.1 436	0.76 277	0.25 248	549	0.31 611				183. 65	10.1 33	549. 00	3.02 11
105	182	Hyd razi ne	H ₄ N ₂	302- 01-2	32.0 451 6	1.05 16	0.16 613	653. 15	0.18 98				274. 69	31.9 34	653. 15	6.33 00
105	183	Hyd roge n	H ₂	133 3- 74-0	2.01 588	5.41 4	0.34 893	33.1 9	0.27 06				13.9 5	38.4 87	33.1 9	15.5 160
105	184	Hyd roge n bro mid e	BrH	100 35- 10-6	80.9 119 4	2.83 2	0.28 32	363. 15	0.28 571				185. 15	27.9 85	363. 15	10.0 000
105	185	Hyd roge n chlo ride	ClH	764 7- 01-0	36.4 609 4	3.34 2	0.27 29	324. 65	0.32 17				158. 97	34.8 54	324. 65	12.2 460

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	186	Hyd roge n cya nide	CH N	74- 90-8	27.0 253 4	1.34 13	0.18 589	456. 65	0.28 206				259. 83	27.2 02	456. 65	7.21 56
105	187	Hyd roge n fluo ride	FH	766 4- 39-3	20.0 063 432	2.80 61	0.19 362	461. 15	0.29 847				189. 79	58.8 61	461. 15	14.4 930
105	188	Hyd roge n sulfi de	H ₂ S	778 3- 06-4	34.0 808 8	2.76 72	0.27 369	373. 53	0.29 015				187. 68	29.1 3	373. 53	10.1 110
105	189	Isob utyri c acid	C ₄ H 8O ₂	79- 31-2	88.1 051 2	0.88 575	0.25 736	605	0.26 265				227. 15	11.4 2	605. 00	3.44 17
105	190	Isop ropy l ami ne	C ₃ H 9N	75- 31-0	59.1 102 6	1.28 01	0.28 28	471. 85	0.29 72				177. 95	13.5 61	471. 85	4.52 65
105	191	Mal onic acid	C ₃ H 4O ₄	141- 82-2	104. 061 46	0.87 969	0.24 543	834	0.28 571				409. 15	11.4 17	834. 00	3.58 43
105	192	Met hacr ylic acid	C ₄ H 6O ₂	79- 41-4	86.0 892 4	0.87 025	0.24 383	662	0.28 571				288. 15	11.8 34	662. 00	3.56 91
105	193	Met han e	CH ₄	74- 82-8	16.0 425	2.92 14	0.28 976	190. 56	0.28 881				90.6 9	28.1 8	190. 56	10.0 820
105	194	Met han ol	CH ₄ O	67- 56-1	32.0 418 6	2.32 67	0.27 073	512. 5	0.24 713				175. 47	27.9 15	512. 50	8.59 42
105	195	N- Met hyl acet ami de	C ₃ H 7NO	79- 16-3	73.0 937 8	0.88 268	0.23 568	718	0.27 379				301. 15	13.0 12	718. 00	3.74 52
105	196	Met hyl acet ate	C ₃ H 6O ₂	79- 20-9	74.0 785 4	1.13	0.25 93	506. 55	0.27 64				175. 15	14.4 75	506. 55	4.35 79

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	197	Met hyl acet ylen e	C ₃ H ₄	74- 99-7	40.0 638 6	1.60 85	0.26 436	402. 4	0.27 987				170. 45	19.0 31	402. 40	6.08 45
105	198	Met hyl acry late	C ₄ H ₆ O ₂	96- 33-3	86.0 892 4	0.97 286	0.26 267	536	0.25 08				196. 32	12.2 03	536. 00	3.70 37
105	199	Met hyl ami ne	CH ₅ N	74- 89-5	31.0 571	1.39	0.21 405	430. 05	0.22 75				179. 69	25.3 78	430. 05	6.49 38
105	200	Met hyl ben zoat e	C ₈ H ₈ O ₂	93- 58-3	136. 147 92	0.53 382	0.23 274	693	0.28 147				260. 75	8.22 02	693. 00	2.29 36
105	201	3- Met hyl- 1,2- buta dien e	C ₅ H ₈	598- 25-4	68.1 170 2	0.84 623	0.24 625	490	0.29 041				159. 53	11.9 94	490. 00	3.43 65
105	202	2- Met hylb utan e	C ₅ H ₁₂	78- 78-4	72.1 487 8	0.91 991	0.27 815	460. 4	0.28 667				113. 25	10.7 64	460. 40	3.30 72
105	203	2- Met hylb utan oic acid	C ₅ H ₁₀ O ₂	116- 53-0	102. 131 7	0.72 762	0.25 244	643	0.28 571				193. 00	9.99 15	643. 00	2.88 23
105	204	3- Met hyl- 1- buta nol	C ₅ H ₁₂ O	123- 51-3	88.1 482	0.81 89	0.26 974	577. 2	0.23 573				155. 95	10.2 48	577. 20	3.03 59
105	205	2- Met hyl- 1- bute ne	C ₅ H ₁₀	563- 46-2	70.1 329	0.91 619	0.26 752	465	0.28 164				135. 58	11.3 32	465. 00	3.42 48

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	206	2-Met hyl- 2-bute ne	C ₅ H ₁₀	513- 35-9	70.1 329	0.93 391	0.27 275	470	0.25 78				139. 39	11.2 16	470. 00	3.42 41
105	207	2-Met hyl- 1-bute ne- 3-yne	C ₅ H ₆	78- 80-8	66.1 011 4	1.11 57	0.27 671	492	0.30 821				160. 15	12.5 81	492. 00	4.03 20
105	208	Met hylb utyl ethe r	C ₅ H ₁₂ O	628- 28-4	88.1 481 8	0.83 63	0.27 514	512. 74	0.27 553				157. 48	9.75 81	512. 74	3.03 95
105	209	Met hylb utyl sulfi de	C ₅ H ₁₂ S	628- 29-5	104. 214	0.75 509	0.27 183	593	0.29 127				175. 30	9.00 56	593. 00	2.77 78
105	210	3-Met hyl- 1-buty ne	C ₅ H ₈	598- 23-2	68.1 170 2	0.94 575	0.26 008	463. 2	0.30 807				183. 45	11.5 19	463. 20	3.63 64
105	211	Met hyl buty rate	C ₅ H ₁₀ O ₂	623- 42-7	102. 131 7	0.76 983	0.26 173	554. 5	0.26 879				187. 35	9.76 38	554. 50	2.94 13
105	212	Met hyle chlor osil ane	CH ₅ ClSi	993- 00-0	80.5 889	1.06 74	0.26 257	442	0.26 569				139. 05	13.6 26	442. 00	4.06 52
105	213	Met hyle cyclo hex ane	C ₇ H ₁₄	108- 87-2	98.1 860 6	0.73 109	0.26 971	572. 1	0.29 185				146. 58	9.01 73	572. 10	2.71 07
105	214	1-Met hyle cyclo hex anol	C ₇ H ₁₄ O	590- 67-0	114. 185 46	0.70 13	0.26 6	686	0.28 571				285. 15	8.20 91	686. 00	2.63 65

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	215	cis-2-Methylcyclohexanol	C ₇ H ₁₄ O	7443-70-1	114.18546	0.70973	0.26544	614	0.26016				280.15	8.2931	614.00	2.6738
105	216	trans-2-Methylcyclohexanol	C ₇ H ₁₄ O	7443-52-9	114.18546	0.72836	0.27241	617	0.2478				269.15	8.2628	617.00	2.6738
105	217	Methylcyclopentane	C ₆ H ₁₂	96-37-7	84.15948	0.84758	0.27037	532.7	0.28258				130.73	10.491	532.70	3.1349
105	218	1-Methylcyclopentene	C ₆ H ₁₀	693-89-0	82.1436	0.88824	0.26914	542	0.27874				146.62	10.98	542.00	3.3003
105	219	3-Methylcyclopentene	C ₆ H ₁₀	1120-62-3	82.1436	0.9109	0.276	526	0.26756				168.54	10.538	526.00	3.3004
105	220	Methylchlorosilane	CH ₃ Cl ₂ Si	75-54-7	115.03396	0.97608	0.28209	483	0.22529				182.55	10.789	483.00	3.4602
105	221	Methyl ethyl ether	C ₃ H ₈ O	540-67-0	60.09502	1.2635	0.27878	437.8	0.2744				160.00	13.995	437.80	4.5322
105	222	Methyl ethyl ketone	C ₄ H ₈ O	78-93-3	72.10572	0.93767	0.25035	535.5	0.29964				186.48	12.663	535.50	3.7454
105	223	Methyl ethyl sulfide	C ₃ H ₈ S	624-89-5	76.1606	1.067	0.27102	533	0.29364				167.23	12.671	533.00	3.9370

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	224	Met hyl for mat e	C ₂ H ₄ O ₂	107-31-3	60.05196	1.525	0.2634	487.2	0.2806				174.15	18.811	487.20	5.7897
105	225	Met hyli sob utyl ethe r	C ₅ H ₁₂ O	625-44-5	88.14818	0.84005	0.27638	497	0.27645				188.00	9.3871	497.00	3.0395
105	226	Met hyli sob utyl keto ne	C ₆ H ₁₂ O	108-10-1	100.15888	0.71687	0.26453	574.6	0.28918				189.15	8.8617	574.60	2.7100
105	227	Met hyl Isoc yan ate	C ₂ H ₃ NO	624-83-9	57.05132	1.0228	0.20692	488	0.28571				256.15	17.666	488.00	4.9430
105	228	Met hyli sopr opyl ethe r	C ₄ H ₁₀ O	598-53-8	74.1216	0.97887	0.27017	464.48	0.28998				127.93	11.933	464.48	3.6232
105	229	Met hyli sopr opyl keto ne	C ₅ H ₁₀ O	563-80-4	86.1323	0.86567	0.26836	553.4	0.28364				180.15	10.46	553.40	3.2258
105	230	Met hyli sopr opyl sulfi de	C ₄ H ₁₀ S	1551-21-9	90.1872	0.78912	0.25915	553.1	0.26512				171.64	10.352	553.10	3.0450
105	231	Met hyl mer capt an	CH ₄ S	74-93-1	48.10746	1.9323	0.28018	469.95	0.28523				150.18	21.564	469.95	6.8966
105	232	Met hyl met hacr ylat e	C ₅ H ₈ O ₂	80-62-6	100.11582	0.7761	0.25068	566	0.29773				224.95	10.176	566.00	3.0960

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	233	2-Met hylo ctan oic acid	C ₉ H ₁₈ O ₂	300 4- 93-1	158. 238 02	0.44 16	0.25 21	694	0.28 532				240. 00	5.93 8	694. 00	1.75 17
105	234	2-Met hylop entane	C ₆ H ₁₄	107- 83-5	86.1 753 6	0.72 701	0.26 754	497. 7	0.28 268				119. 55	9.20 41	497. 70	2.71 74
105	235	Met hylop entyl ether	C ₆ H ₁₄ O	628- 80-8	102. 174 76	0.71 004	0.26 981	546. 49	0.29 974				176. 00	8.44 5	546. 49	2.63 16
105	236	2-Met hylop ropene	C ₄ H ₁₀	75- 28-5	58.1 222	1.06 31	0.27 506	407. 8	0.27 58				113. 54	12.5 74	407. 80	3.86 50
105	237	2-Met hylo- 2-prop anol	C ₄ H ₁₀ O	75- 65-0	74.1 216	0.92 128	0.25 442	506. 2	0.27 586				298. 97	10.5 56	506. 20	3.62 11
105	238	2-Met hylo propene	C ₄ H ₈	115- 11-7	56.1 063 2	1.14 46	0.27 24	417. 9	0.28 172				132. 81	13.5 07	417. 90	4.20 19
105	239	Met hylo propionate	C ₄ H ₈ O ₂	554- 12-1	88.1 051 2	0.91 47	0.25 94	530. 6	0.27 74				185. 65	11.6 78	530. 60	3.52 62
105	240	Met hylo propyl ether	C ₄ H ₁₀ O	557- 17-5	74.1 216	0.96 145	0.26 536	476. 25	0.30 088				133. 97	12.0 43	476. 25	3.62 32
105	241	Met hylo propyl sulfide	C ₄ H ₁₀ S	387 7- 15-4	90.1 872	0.87 496	0.26 862	565	0.30 259				160. 17	10.6 89	565. 00	3.25 72

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	242	Met hyl silan e	CH ₆ Si	992- 94-9	46.1 438 4	1.30 52	0.26 757	352. 5	0.28 799				116. 34	15.7 91	352. 50	4.87 80
105	243	alph a- Met hyl styr ene	C ₉ H 10	98- 83-9	118. 175 7	0.64 856	0.25 877	654	0.31 444				249. 95	8.00 99	654. 00	2.50 63
105	244	Met hyl tert- buty l ethe r	C ₅ H 12O	163 4- 04-4	88.1 482	0.81 794 8	0.26 910 5	497. 1	0.28 571				164. 55	9.79 55	497. 10	3.03 95
105	245	Met hyl vinyl ethe r	C ₃ H 6O	107- 25-5	58.0 791 4	1.25 87	0.26 433	437	0.25 819				151. 15	15.6 91	437. 00	4.76 19
105	246	Nap hta lene	C ₁₀ H ₈	91- 20-3	128. 170 52	0.63 48	0.25 838	748. 4	0.27 727				333. 15	7.75 45	748. 40	2.45 68
105	247	Neo n	Ne	744 0- 01-9	20.1 797	7.37 18	0.30 67	44.4	0.27 86				24.5 6	61.7 96	44.4 0	24.0 360
105	248	Nitr oeth ane	C ₂ H 5NO 2	79- 24-3	75.0 666	1.00 24	0.23 655	593	0.27 8				183. 63	15.5 56	593. 00	4.23 76
105	249	Nitr oge n	N ₂	772 7- 37-9	28.0 134	3.20 91	0.28 61	126. 2	0.29 66				63.1 5	31.0 63	126. 20	11.2 170
105	250	Nitr oge n trifl uori de	F ₃ N	778 3- 54-2	71.0 019 1	2.37 36	0.28 17	234	0.29 529				66.4 6	26.5 55	234. 00	8.42 60
105	251	Nitr ome than e	CH ₃ NO ₂	75- 52-5	61.0 400 2	1.37 28	0.23 793	588. 15	0.29 601				244. 60	19.6 32	588. 15	5.76 98
105	252	Nitr ous oxid e	N ₂ O	100 24- 97-2	44.0 128	2.78 1	0.27 244	309. 57	0.28 82				182. 30	27.9 28	309. 57	10.2 080

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	253	Nitri c oxid e	NO	101 02- 43-9	30.0 061	5.24 6	0.30 44	180. 15	0.24 2				109. 50	44.4 87	180. 15	17.2 340
105	254	Non ade can e	C ₁₉ H ₄₀	629- 92-5	268. 520 9	0.19 199	0.23 337	758	0.28 571				305. 04	2.88 89	758. 00	0.82 27
105	255	Non anal	C ₉ H 18O	124- 19-6	142. 238 62	0.47 323 3	0.25 691 8	658. 5	0.28 571				267. 30	5.94 15	658. 50	1.84 20
105	256	Non ane	C ₉ H 20	111- 84-2	128. 255 1	0.46 321	0.25 444	594. 6	0.28 571				219. 66	6.04 27	594. 60	1.82 05
105	257	Non anoi c acid	C ₉ H 18O ₂	112- 05-0	158. 238	0.41 582	0.24 284	710. 7	0.30 036				285. 55	5.75 92	710. 70	1.71 23
105	258	1- Non anol	C ₉ H 20O	143- 08-8	144. 254 5	0.43 682	0.25 161	670. 9	0.24 98				268. 15	5.84 96	670. 90	1.73 61
105	259	2- Non anol	C ₉ H 20O	628- 99-9	144. 255	0.41 925 8	0.24 191 2	649. 5	0.28 571				238. 15	6.02 23	649. 50	1.73 31
105	260	1- Non ene	C ₉ H 18	124- 11-8	126. 239 22	0.48 661	0.25 722	593. 1	0.28 571				191. 91	6.37 17	593. 10	1.89 18
105	261	Non yl mer capt an	C ₉ H 20S	145 5- 21-6	160. 320 1	0.47 377	0.27 052	681	0.30 284				253. 05	5.45 32	681. 00	1.75 13
105	262	1- Non yne	C ₉ H 16	345 2- 09-3	124. 223 34	0.52 152	0.25 918	598. 05	0.29 177				223. 15	6.53 69	598. 05	2.01 22
105	263	Oct ade can e	C ₁₈ H ₃₈	593- 45-3	254. 494 32	0.20 448	0.23 474	747	0.28 571				301. 31	3.04 18	747. 00	0.87 11
105	264	Oct anal	C ₈ H 16O	124- 13-0	128. 212	0.52 590 1	0.25 664	638. 9	0.28 571				251. 65	6.66 08	638. 90	2.04 92
105	265	Oct ane	C ₈ H 18	111- 65-9	114. 228 52	0.52 66	0.25 693	568. 7	0.28 571				216. 38	6.70 49	568. 70	2.04 96

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	266	Oct anoi c acid	C ₈ H ₁₆ O ₂	124- 07-2	144. 211	0.48 251	0.25 196	694. 26	0.26 842				289. 65	6.31 07	694. 26	1.91 50
105	267	1- Oct anol	C ₈ H ₁₈ O	111- 87-5	130. 227 92	0.48 979	0.24 931	652. 3	0.27 824				257. 65	6.57 38	652. 30	1.96 46
105	268	2- Oct anol	C ₈ H ₁₈ O	123- 96-6	130. 228	0.52 497	0.26 186	629. 8	0.25 257				241. 55	6.56 25	629. 80	2.00 48
105	269	2- Oct ano ne	C ₈ H ₁₆ O	111- 13-7	128. 212 04	0.50 006	0.24 851	632. 7	0.29 942				252. 85	6.64 77	632. 70	2.01 22
105	270	3- Oct ano ne	C ₈ H ₁₆ O	106- 68-3	128. 212 04	0.51 08	0.25 386	627. 7	0.26 735				255. 55	6.62 83	627. 70	2.01 21
105	271	1- Oct ene	C ₈ H ₁₆	111- 66-0	112. 212 64	0.55 449	0.25 952	566. 9	0.28 571				171. 45	7.21 55	566. 90	2.13 66
105	272	Octy l mer capt an	C ₈ H ₁₈ S	111- 88-6	146. 293 52	0.52 577	0.27 234	667. 3	0.30 063				223. 95	6.09 87	667. 30	1.93 06
105	273	1- Octy ne	C ₈ H ₁₄	629- 05-0	110. 196 76	0.58 945	0.26 052	574	0.28 532				193. 55	7.48 32	574. 00	2.26 26
105	274	Oxal ic acid	C ₂ H ₂ O ₄	144- 62-7	90.0 348 8	1.19 11	0.27 038	828	0.28 571				462. 65	12.4 05	828. 00	4.40 53
105	275	Oxy gen	O ₂	778 2- 44-7	31.9 988	3.91 43	0.28 772	154. 58	0.29 24				54.3 5	40.7 7	154. 58	13.6 050
105	276	Ozo ne	O ₃	100 28- 15-6	47.9 982	3.35 92	0.29 884	261	0.28 523				80.1 5	33.3 61	261. 00	11.2 410
105	277	Pen tade can e	C ₁₅ H ₃₂	629- 62-9	212. 414 58	0.25 142	0.23 837	708	0.28 571				283. 07	3.64 23	708. 00	1.05 47
105	278	Pen tana l	C ₅ H ₁₀ O	110- 62-3	86.1 323	0.85 658	0.26 811	566. 1	0.27 354				191. 59	10.3 53	566. 10	3.19 49

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	279	Pen tane	C ₅ H ₁₂	109-66-0	72.14878	0.84947	0.26726	469.7	0.27789				143.42	10.474	469.70	3.1784
105	280	Pen tano ic acid	C ₅ H ₁₀ O ₂	109-52-4	102.132	0.73455	0.25636	639.16	0.25522				239.15	9.5869	639.16	2.8653
105	281	1- Pen tano l	C ₅ H ₁₂ O	71-41-0	88.1482	0.81754	0.26732	588.1	0.25348				195.56	10.061	588.10	3.0583
105	282	2- Pen tano l	C ₅ H ₁₂ O	6032-29-7	88.1482	0.81577	0.26594	561	0.25551				200.00	10.017	561.00	3.0675
105	283	2- Pen tano ne	C ₅ H ₁₀ O	107-87-9	86.1323	0.90411	0.27207	561.08	0.30669				196.29	10.398	561.08	3.3231
105	284	3- Pen tano ne	C ₅ H ₁₀ O	96-22-0	86.1323	0.71811	0.24129	560.95	0.27996				234.18	10.102	560.95	2.9761
105	285	1- Pen tene	C ₅ H ₁₀	109-67-1	70.1329	0.89816	0.26608	464.8	0.28571				108.02	11.521	464.80	3.3755
105	286	2- Pen tyl mer capt an	C ₅ H ₁₂ S	2084-19-7	104.21378	0.65858	0.25367	584.3	0.28571				160.75	9.073	584.30	2.5962
105	287	Pen tyl mer capt an	C ₅ H ₁₂ S	110-66-7	104.21378	0.75345	0.27047	598	0.30583				197.45	8.8575	598.00	2.7857
105	288	1- Pen tyne	C ₅ H ₈	627-19-0	68.11702	0.8491	0.2352	481.2	0.353				167.45	12.532	481.20	3.6101
105	289	2- Pen tyne	C ₅ H ₈	627-21-4	68.11702	0.92099	0.25419	519	0.31077				163.83	12.24	519.00	3.6232

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	290	Phenanthrene	C ₁₄ H ₁₀	85-01-8	178.2292	0.45554	0.2523	869	0.24841				372.38	5.9853	869.00	1.8055
105	291	Phenol	C ₆ H ₆ O	108-95-2	94.11124	1.3798	0.31598	694.25	0.32768				314.06	11.244	694.25	4.3667
105	292	Phenyl isocyanate	C ₇ H ₅ NO	103-71-9	119.1207	0.63163	0.23373	653	0.28571				243.15	9.6466	653.00	2.7024
105	293	Phthalic anhydride	C ₈ H ₄ O ₃	85-44-9	148.11556	0.5393	0.22704	791	0.248				404.15	8.2218	791.00	2.3754
105	294	Propadiene	C ₃ H ₄	463-49-0	40.06386	1.6087	0.26543	394	0.29895				136.87	19.479	394.00	6.0607
105	295	Propane	C ₃ H ₈	74-98-6	44.09562	1.3757	0.27453	369.83	0.29359				85.47	16.583	369.83	5.0111
105	296	1-Propanol	C ₃ H ₈ O	71-23-8	60.09502	1.2457	0.27281	536.8	0.23994				146.95	15.206	536.80	4.5662
105	297	2-Propanol	C ₃ H ₈ O	67-63-0	60.095	1.1799	0.2644	508.3	0.24653				185.26	14.663	508.30	4.4626
105	298	Propenylcyclohexene	C ₉ H ₁₄	135-11-13-2	122.20746	0.61255	0.26769	636	0.28571				199.00	7.4763	636.00	2.2883
105	299	Propionaldehyde	C ₃ H ₆ O	123-38-6	58.07914	1.2861	0.26236	503.6	0.3004				165.00	16.075	503.60	4.9020
105	300	Propionic acid	C ₃ H ₆ O ₂	79-09-4	74.0785	1.0969	0.25568	600.81	0.26857				252.45	13.935	600.81	4.2901

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	301	Pro pion itrile	C ₃ H ₅ N	107- 12-0	55.0 785	0.91 281	0.22 125	561. 3	0.26 811				180. 37	16.0 67	561. 30	4.12 57
105	302	Pro pyl acet ate	C ₅ H ₁₀ O ₂	109- 60-4	102. 131 7	0.73 041	0.25 456	549. 73	0.27 666				178. 15	9.79 41	549. 73	2.86 93
105	303	Pro pyl ami ne	C ₃ H ₉ N	107- 10-8	59.1 102 6	0.91 95	0.23 878	496. 95	0.24 61				188. 36	13.7 64	496. 95	3.85 08
105	304	Pro pyl benz ene	C ₉ H ₁₂	103- 65-1	120. 191 58	0.57 233	0.25 171	638. 35	0.29 616				173. 55	7.98 21	638. 35	2.27 38
105	305	Pro pyle ne	C ₃ H ₆	115- 07-1	42.0 797 4	1.44 03	0.26 852	364. 85	0.28 775				87.8 9	18.0 7	364. 85	5.36 38
105	306	Pro pyl for mat e	C ₄ H ₈ O ₂	110- 74-7	88.1 051 2	0.91 5	0.26 134	538	0.28				180. 25	11.5 9	538. 00	3.50 12
105	307	2- Pro pyl mer capt an	C ₃ H ₈ S	75- 33-2	76.1 606 2	1.09 3	0.27 762	517	0.29 781				142. 61	12.6 1	517. 00	3.93 70
105	308	Pro pyl mer capt an	C ₃ H ₈ S	107- 03-9	76.1 606 2	1.07 14	0.27 214	536. 6	0.29 481				159. 95	12.7 16	536. 60	3.93 69
105	309	1,2- Pro pyle ne glyc ol	C ₃ H ₈ O ₂	57- 55-6	76.0 944 2	1.09 23	0.26 106	626	0.20 459				213. 15	14.3 63	626. 00	4.18 41
105	310	Qui non e	C ₆ H ₄ O ₂	106- 51-4	108. 094 76	0.83 228	0.25 385	683	0.23 658				388. 85	10.0 82	683. 00	3.27 86
105	311	Silic on tetr aflu orid e	F ₄ Si	778 3- 61-1	104. 079 11	1.19 45	0.24 128	259	0.16 693				186. 35	15.6 35	259. 00	4.95 07

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	312	Styr ene	C ₈ H ₈	100- 42-5	104. 149 12	0.73 97	0.26 03	636	0.30 09				242. 54	9.10 88	636. 00	2.84 17
105	313	Suc cini c acid	C ₄ H ₆ O ₄	110- 15-6	118. 088 04	0.65 882	0.21 741	838	0.28 571				460. 85	10.2 1	838. 00	3.03 03
105	314	Sulf ur diox ide	O ₂ S	744 6- 09-5	64.0 638	2.10 6	0.25 842	430. 75	0.28 95				197. 67	25.2 98	430. 75	8.14 95
105	315	Sulf ur hex aflu orid e	F ₆ S	255 1- 62-4	146. 055 419 2	1.35 87	0.27 01	318. 69	0.29 21				223. 15	12.6 31	318. 69	5.03 04
105	316	Sulf ur triox ide	O ₃ S	744 6- 11-9	80.0 632	1.49 69	0.19 013	490. 85	0.43 59				289. 95	24.2 41	490. 85	7.87 30
105	317	Tere phth alic acid	C ₈ H ₆ O ₄	100- 21-0	166. 130 84	0.41 922	0.17 775	883. 6	0.28 571				700. 15	7.10 2	883. 60	2.35 85
105	318	o- Ter phe nyl	C ₁₈ H ₁₄	84- 15-1	230. 303 76	0.34 48	0.25 116	857	0.29 268				329. 35	4.55 26	857. 00	1.37 28
100	318	o- Ter phe nyl	C ₁₈ H ₁₄	84- 15-1	230. 303 76	5.71 36	-0.003474						288. 15	4.71 26	313. 19	4.62 56
105	319	Tetr ade can e	C ₁₄ H ₃₀	629- 59-4	198. 388	0.27 248	0.24 007	693	0.28 571				279. 01	3.88 9	693. 00	1.13 50
105	320	Tetr ahy drof uran	C ₄ H ₈ O	109- 99-9	72.1 057 2	1.25 43	0.28 084	540. 15	0.29 12				164. 65	13.9 98	540. 15	4.46 62
105	321	1,2,3 ,4- Tetr ahy dron apht hale ne	C ₁₀ H ₁₂	119- 64-2	132. 202 28	0.67 717	0.27 772	720	0.28 78				237. 38	7.63 8	720. 00	2.43 83

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	322	Tetr ahy drot hiop hen e	C ₄ H ₈ S	110-01-0	88.17132	1.1628	0.28954	631.95	0.28674				176.99	12.408	631.95	4.0160
105	323	2,2,3 ,3-Tetr ame thyl buta ne	C ₈ H ₁₈	594-82-1	114.22852	0.58988	0.27201	568	0.27341				373.96	5.7242	568.00	2.1686
105	324	Thio phe ne	C ₄ H ₄ S	110-02-1	84.13956	1.2874	0.28194	579.35	0.30781				234.94	13.43	579.35	4.5662
105	325	Tolu ene	C ₇ H ₈	108-88-3	92.13842	0.8792	0.27136	591.75	0.29241				178.18	10.487	591.75	3.2400
105	326	1,1,2 -Tric hlor oeth ane	C ₂ H ₃ Cl ₃	79-00-5	133.40422	0.9062	0.25475	602	0.31				236.50	11.478	602.00	3.5572
105	327	Trid eca ne	C ₁₃ H ₂₈	629-50-5	184.36142	0.29934	0.2433	675	0.28571				267.76	4.1817	675.00	1.2303
105	328	Trie thyl ami ne	C ₆ H ₁₅ N	121-44-8	101.19	0.7035	0.27386	535.15	0.2872				158.45	8.2843	535.15	2.5688
105	329	Tri met hyl ami ne	C ₃ H ₉ N	75-50-3	59.11026	1.0116	0.25683	433.25	0.2696				156.08	13.144	433.25	3.9388
105	330	1,2,3 -Tri met hylb enz ene	C ₉ H ₁₂	526-73-8	120.19158	0.6531	0.27002	664.5	0.26268				243.15	7.7278	664.50	2.4187

Eqn	Cmp d. no.	Nam e	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Dens ity at T	T K	Dens ity at T
105	331	1,2,4 - Tri met hylb enz ene	C ₉ H ₁₂	95- 63-6	120. 191 58	0.60 394	0.25 956	649. 1	0.27 713				229. 33	7.68 9	649. 10	2.32 68
105	332	2,2,4 - Tri met hylp enta ne	C ₈ H ₁₈	540- 84-1	114. 228 52	0.59 059	0.27 424	543. 8	0.28 47				165. 78	6.91 46	543. 80	2.15 36
105	333	2,3,3 - Tri met hylp enta ne	C ₈ H ₁₈	560- 21-4	114. 228 52	0.60 28	0.27 446	573. 5	0.27 41				172. 22	7.09 34	573. 50	2.19 63
105	334	1,3,5 - Trini trob enz ene	C ₆ H ₃ N ₃ O ₆	99- 35-4	213. 104 52	0.48 195	0.23 093	846	0.28 571				398. 40	7.08 25	846. 00	2.08 70
105	335	2,4,6 - Trini trot olue ne	C ₇ H ₅ N ₃ O ₆	118- 96-7	227. 131 1	0.37 378	0.21 379	828	0.29 905				354. 00	6.45 21	828. 00	1.74 84
105	336	Und eca ne	C ₁₁ H ₂₄	112 0- 21-4	156. 308 26	0.36 703	0.24 876	639	0.28 571				247. 57	4.94 53	639. 00	1.47 54
105	337	1- Und eca nol	C ₁₁ H ₂₄ O	112- 42-5	172. 307 66	0.33 113	0.23 676	703. 9	0.27 62				288. 45	4.85 94	703. 90	1.39 86
105	338	Viny l acet ate	C ₄ H ₆ O ₂	108- 05-4	86.0 892 4	0.95 91	0.25 93	519. 13	0.27 448				180. 35	12.2 87	519. 13	3.69 88
105	339	Viny l acet ylen e	C ₄ H ₄	689- 97-4	52.0 745 6	1.27 03	0.26 041	454	0.29 7				173. 15	15.6 64	454. 00	4.87 81

Eqn	Cmp d. no.	Na me	For mul a	CAS	Mol. wt.	C	C	C	C	C	C	C	T K	Den sity at T	T K	Den sity at T
105	340	Viny l chlo ride	C ₂ H 3Cl	75- 01-4	62.4 982 2	1.51 15	0.27 07	432	0.27 16				119. 36	18.4 81	432. 00	5.58 37
105	341	Viny l trich loro sila ne	C ₂ H 3Cl ₃ Si	75- 94-5	161. 489 72	0.59 595	0.24 314	543. 15	0.24 856				178. 35	8.82 36	543. 15	2.45 11
100	342	Wat er	H ₂ O	773 2- 18-5	18.0 152 8	– 13.8 51	0.64 038	–0.0019182 11E- 06					273. 16	55.4 97	353. 15	54.0 010
119	342	Wat er	H ₂ O	773 2- 18-5	18.0 152 8	17.8 74	35.6 18	19.6 55	– 9.13 06	–31.367–813.56–17421079.				55.4 87	647. 096	17.8 740
105	343	m- Xyle ne	C ₈ H 10	108- 38-3	106. 165	0.68 902	0.26 086	617	0.27 479				225. 30	8.64 8	617. 00	2.64 13
105	344	o- Xyle ne	C ₈ H 10	95- 47-6	106. 165	0.69 962	0.26 143	630. 3	0.27 365				247. 98	8.62 29	630. 30	2.67 61
105	345	p- Xyle ne	C ₈ H 10	106- 42-3	106. 165	0.67 752	0.25 887	616. 2	0.27 596				286. 41	8.16 14	616. 20	2.61 72

Except for o-terphenyl and water, liquid density ρ is calculated by Eqn 105: $\rho = C_1 / (C_2^{[1 + (1 - T/TC)^{C_3}]})$ where ρ is in mol/dm³ and T is in K. The pressure is equal to the vapor pressure for pressures greater than 1 atm and equal to 1 atm when the vapor pressure is less than 1 atm.

Equation (2-100), used for the limited temperature ranges as noted for o-terphenyl and water, is $\rho = C_1 + C_2T + C_3T^2 + C_4T^3$.

Equation (2-119), used for water, is $\rho = C_1 + C_2\tau^{1/3} + C_3\tau^{2/3} + C_4\tau^{5/3} + C_5\tau^{16/3} + C_6\tau^{43/3} + C_7\tau^{110/3}$ where $\tau = 1 - T/TC$, and TC = critical temperature (647.096 K).

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