

TABLE 2-150 Heats of Vaporization of Inorganic and Organic Liquids (J/kmol)

Cmpd. no.	Name	Formula	CAS no.	Mol. wt.	C1 × 1E-07	C2	C3	C4	T_{\min} , K	ΔH_v at $T_{\min} \times 1E-07$	T_{\max} , K	ΔH_v at T_{\max}
1	Acetaldehyde	C ₂ H ₄ O	75-07-0	44.053	3.8366	0.40081			150.15	3.2828	466.00	0
2	Acetamide	C ₂ H ₅ NO	60-35-5	59.067	8.107	0.42			353.15	6.2386	761.00	0
3	Acetic acid	C ₂ H ₄ O ₂	64-19-7	60.052	4.0179	2.6037	-5.0031	2.7069	289.81	2.3412	591.95	0
4	Acetic anhydride	C ₄ H ₆ O ₃	108-24-7	102.089	6.352	0.3986			200.15	5.4139	606.00	0
5	Acetone	C ₃ H ₆ O	67-64-1	58.079	4.215	0.3397			178.45	3.6390	508.20	0
6	Acetonitrile	C ₂ H ₃ N	75-05-8	41.052	4.3511	0.34765			229.32	3.5996	545.50	0
7	Acetylene	C ₂ H ₂	74-86-2	26.037	2.3214	0.35938			192.40	1.6333	308.30	0
8	Acrolein	C ₃ H ₄ O	107-02-8	56.063	3.8736	0.29335			185.45	3.3881	506.00	0
9	Acrylic acid	C ₃ H ₄ O ₂	79-10-7	72.063	4.3756	2.2571	-4.5116	2.5738	286.15	2.7965	615.00	0
10	Acrylonitrile	C ₃ H ₃ N	107-13-1	53.063	4.155	0.2733			189.63	3.6866	535.00	0
11	Air	Mixture	132259-10-0	28.960	0.8474	0.3822			59.15	0.6759	132.45	0
12	Ammonia	H ₃ N	7664-41-7	17.031	3.1523	0.3914	-0.2289	0.2309	195.41	2.5298	405.65	0
13	Anisole	C ₇ H ₈ O	100-66-3	108.138	5.8662	0.37127			235.65	4.9560	645.60	0
14	Argon	Ar	7440-37-1	39.948	0.87308	0.3526			83.78	0.6561	150.86	0
15	Benzamide	C ₇ H ₇ NO	55-21-0	121.137	8.7809	0.1933	0.30877	-0.14162	403.00	7.1286	824.00	0
16	Benzene	C ₆ H ₆	71-43-2	78.112	4.5346	0.39053			278.68	3.4705	562.05	0
17	Benzenethiol	C ₆ H ₆ S	108-98-5	110.177	6.225	0.4412			258.27	5.0597	689.00	0
18	Benzoic acid	C ₇ H ₆ O ₂	65-85-0	122.121	10.19	0.478			395.45	7.1277	751.00	0
19	Benzonitrile	C ₇ H ₅ N	100-47-0	103.121	6.8077	0.63344	-0.27365		260.40	5.3147	699.35	0
20	Benzophenone	C ₁₃ H ₁₀ O	119-61-9	182.218	10.523	0.87091	-0.45568		321.35	7.4895	830.00	0
21	Benzyl alcohol	C ₇ H ₈ O	100-51-6	108.138	8.4762	0.35251	0.43853	-0.3026	257.85	6.8800	720.15	0
22	Benzyl ethyl ether	C ₉ H ₁₂ O	539-30-0	136.191	6.228	0.3411			275.65	5.1829	662.00	0
23	Benzyl mercaptan	C ₇ H ₈ S	100-53-8	124.203	6.9642	0.44354			243.95	5.7930	718.00	0
24	Biphenyl	C ₁₂ H ₁₀	92-52-4	154.208	7.635	0.39182			342.20	6.0719	773.00	0
25	Bromine	Br ₂	7726-95-6	159.808	4	0.351			265.85	3.2323	584.15	0
26	Bromobenzene	C ₆ H ₅ Br	108-86-1	157.008	5.552	0.37694			242.43	4.6875	670.15	0
27	Bromoethane	C ₂ H ₅ Br	74-96-4	108.965	3.9004	0.38012			154.55	3.3933	503.80	0
28	Bromomethane	CH ₃ Br	74-83-9	94.939	3.169	0.3015			179.47	2.7379	467.00	0
29	1,2-Butadiene	C ₄ H ₆	590-19-2	54.090	3.522	0.395			136.95	3.0540	452.00	0
30	1,3-Butadiene	C ₄ H ₆	106-99-0	54.090	3.2632	0.3701			164.25	2.7235	425.00	0
31	Butane	C ₄ H ₁₀	106-97-8	58.122	3.6238	0.8337	-0.82274	0.39613	134.86	2.8684	425.12	0
32	1,2-Butanediol	C ₄ H ₁₀ O ₂	584-03-2	90.121	8.9754	0.45316			220.00	7.5185	680.00	0
33	1,3-Butanediol	C ₄ H ₁₀ O ₂	107-88-0	90.121	9.2247	0.42442			196.15	7.9759	676.00	0
34	1-Butanol	C ₄ H ₁₀ O	71-36-3	74.122	7.1274	0.0483	0.8966	-0.5116	183.85	6.3643	563.10	0
35	2-Butanol	C ₄ H ₁₀ O	78-92-2	74.122	7.9227	0.58361	0.02016	-0.08654	158.45	6.4607	535.90	0
36	1-Butene	C ₄ H ₈	106-98-9	56.106	3.3774	0.5107	-0.17304	0.05181	87.80	3.0197	419.50	0
37	cis-2-Butene	C ₄ H ₈	590-18-1	56.106	3.4358	0.38004			134.26	2.9867	435.50	0
38	trans-2-Butene	C ₄ H ₈	624-64-6	56.106	3.3191	0.36968			167.62	2.7630	428.60	0
39	Butyl acetate	C ₆ H ₁₂ O ₂	123-86-4	116.158	5.8276	0.38854			199.65	4.9384	575.40	0
40	Butylbenzene	C ₁₀ H ₁₄	104-51-8	134.218	6.3487	0.38222			185.30	5.5979	660.50	0
41	Butyl mercaptan	C ₄ H ₁₀ S	109-79-5	90.187	4.9702	0.41199			157.46	4.3505	570.10	0
42	sec-Butyl mercaptan	C ₄ H ₁₀ S	513-53-1	90.187	4.6432	0.399			133.02	4.1614	554.00	0
43	1-Butyne	C ₄ H ₆	107-00-6	54.090	3.6972	0.39168			147.43	3.1511	440.00	0
44	Butyraldehyde	C ₄ H ₈ O	123-72-8	72.106	4.6403	0.3849			176.75	3.9797	537.20	0
45	Butyric acid	C ₄ H ₈ O ₂	107-92-6	88.105	6.1947	1.6524	-2.8505	1.6285	250.00	4.1619	615.70	0
46	Butyronitrile	C ₄ H ₇ N	109-74-0	69.105	5.22	0.165	0.6692	-0.539	161.25	4.7223	582.25	0
47	Carbon dioxide	CO ₂	124-38-9	44.010	2.173	0.382	-0.4339	0.42213	216.58	1.5202	304.21	0
48	Carbon disulfide	CS ₂	75-15-0	76.141	3.496	0.2986			161.11	3.1537	552.00	0
49	Carbon monoxide	CO	630-08-0	28.010	0.8585	0.4921	-0.326	0.2231	68.13	0.6517	132.50	915,280
50	Carbon tetrachloride	CCl ₄	56-23-5	153.823	4.3252	0.37688			250.33	3.4528	556.35	0
51	Carbon tetrafluoride	CF ₄	75-73-0	88.004	1.9311	0.94983	-1.0615	0.51894	89.56	1.4215	227.51	0
52	Chlorine	Cl ₂	7782-50-5	70.906	3.068	0.8458	-0.9001	0.453	172.12	2.2878	417.15	0
53	Chlorobenzene	C ₆ H ₅ Cl	108-90-7	112.557	5.148	0.36614			227.95	4.3707	632.35	0
54	Chloroethane	C ₂ H ₅ Cl	75-00-3	64.514	3.524	0.3652			134.80	3.1052	460.35	0
55	Chloroform	CHCl ₃	67-66-3	119.378	4.186	0.3584			209.63	3.5047	536.40	0
56	Chloromethane	CH ₃ Cl	74-87-3	50.488	2.9745	0.353			175.43	2.4520	416.25	0
57	1-Chloropropane	C ₃ H ₇ Cl	540-54-5	78.541	3.989	0.37956			150.35	3.4862	503.15	0
58	2-Chloropropane	C ₃ H ₇ Cl	75-29-6	78.541	3.8871	0.38043			155.97	3.3586	489.00	0
59	m-Cresol	C ₇ H ₈ O	108-39-4	108.138	8.0082	0.45314			285.39	6.3326	705.85	0

60	<i>o</i> -Cresol	C ₇ H ₈ O	95-48-7	108.138	7.1979	0.40317			304.19	5.7135	697.55	0
61	<i>p</i> -Cresol	C ₇ H ₈ O	106-44-5	108.138	8.4942	0.50234			307.93	6.3649	704.65	0
62	Cumene	C ₉ H ₁₂	98-82-8	120.192	5.766	0.38939			177.14	5.0717	631.00	0
63	Cyanogen	C ₂ N ₂	460-19-5	52.035	3.384	0.3707			245.25	2.3803	400.15	0
64	Cyclobutane	C ₄ H ₈	287-23-0	56.106	3.334	0.3395			182.48	2.8083	459.93	0
65	Cyclohexane	C ₆ H ₁₂	110-82-7	84.159	4.4902	0.39881			279.69	3.3920	553.80	0
66	Cyclohexanol	C ₆ H ₁₂ O	108-93-0	100.159	9.1791	0.6382			296.60	6.2221	650.10	0
67	Cyclohexanone	C ₆ H ₁₀ O	108-94-1	98.143	5.6772	0.37431			242.00	4.7739	653.00	0
68	Cyclohexene	C ₆ H ₁₀	110-83-8	82.144	4.4405	0.37479			169.67	3.8791	560.40	0
69	Cyclopentane	C ₅ H ₁₀	287-92-3	70.133	3.8911	0.36111			179.28	3.3299	511.70	0
70	Cyclopentene	C ₅ H ₈	142-29-0	68.117	3.8107	0.3543			138.13	3.4046	507.00	0
71	Cyclopropane	C ₃ H ₆	75-19-4	42.080	2.7672	0.35588			145.59	2.3532	398.00	0
72	Cyclohexyl mercaptan	C ₆ H ₁₂ S	1569-69-3	116.224	5.6067	0.38729			189.64	4.9220	664.00	0
73	Decanal	C ₁₀ H ₂₀ O	112-31-2	156.265	7.9073	0.4129			267.15	6.4201	674.20	0
74	Decane	C ₁₀ H ₂₂	124-18-5	142.282	6.6126	0.39797			243.51	5.4168	617.70	0
75	Decanoic acid	C ₁₀ H ₂₀ O ₂	334-48-5	172.265	13.107	1.0674	-0.97372	0.40491	304.55	8.7931	722.10	0
76	1-Decanol	C ₁₀ H ₂₂ O	112-30-1	158.281	7.9041	-1.36	4.0854	-2.3871	280.05	8.2959	688.00	0
77	1-Decene	C ₁₀ H ₂₀	872-05-9	140.266	6.6985	0.76944	-0.79975	0.42379	206.89	5.3524	616.60	0
78	Decyl mercaptan	C ₁₀ H ₂₂ S	143-10-2	174.347	8.0617	0.41045			247.56	6.7308	696.00	0
79	1-Decyne	C ₁₀ H ₁₈	764-93-2	138.250	6.9461	0.42109			229.15	5.7192	619.85	0
80	Deuterium	D ₂	7782-39-0	4.032	0.1657	0.352			18.73	0.1309	38.35	0
81	1,1-Dibromoethane	C ₂ H ₄ Br ₂	557-91-5	187.861	5.712	0.5255			210.15	4.6111	628.00	0
82	1,2-Dibromoethane	C ₂ H ₄ Br ₂	106-93-4	187.861	5.37	0.416			282.85	4.2346	650.15	0
83	Dibromomethane	CH ₂ Br ₂	74-95-3	173.835	4.82	0.3771			220.60	4.0709	611.00	0
84	Dibutyl ether	C ₈ H ₁₈ O	142-96-1	130.228	5.9616	0.38833			175.30	5.1902	584.10	0
85	<i>m</i> -Dichlorobenzene	C ₆ H ₄ Cl ₂	541-73-1	147.002	5.6899	0.35765			248.39	4.8419	683.95	0
86	<i>o</i> -Dichlorobenzene	C ₆ H ₄ Cl ₂	95-50-1	147.002	6.2117	0.42845			256.15	5.1191	705.00	0
87	<i>p</i> -Dichlorobenzene	C ₆ H ₄ Cl ₂	106-46-7	147.002	5.9765	0.38559			326.14	4.6573	684.75	0
88	1,1-Dichloroethane	C ₂ H ₄ Cl ₂	75-34-3	98.959	4.2117	0.36927			176.19	3.6189	523.00	0
89	1,2-Dichloroethane	C ₂ H ₄ Cl ₂	107-06-2	98.959	4.5507	0.34444			237.49	3.7657	561.60	0
90	Dichloromethane	CH ₂ Cl ₂	75-09-2	84.933	4.186	0.4092			178.01	3.5116	510.00	0
91	1,1-Dichloropropane	C ₃ H ₆ Cl ₂	78-99-9	112.986	4.774	0.39204			200.00	4.0147	560.00	0
92	1,2-Dichloropropane	C ₃ H ₆ Cl ₂	78-87-5	112.986	4.675	0.36529			172.71	4.0997	572.00	0
93	Diethanol amine	C ₄ H ₁₁ NO ₂	111-42-2	105.136	10.154	0.3403			301.15	8.4908	736.60	0
94	Diethyl amine	C ₄ H ₁₁ N	109-89-7	73.137	4.6133	0.42628			223.35	3.5761	496.60	0
95	Diethyl ether	C ₄ H ₁₀ O	60-29-7	74.122	4.06	0.3868			156.85	3.4651	466.70	0
96	Diethyl sulfide	C ₄ H ₁₀ S	352-93-2	90.187	4.7659	0.37987			169.20	4.1537	557.15	0
97	1,1-Difluoroethane	C ₂ H ₄ F ₂	75-37-6	66.050	3.2312	0.37653			154.56	2.6659	386.44	0
98	1,2-Difluoroethane	C ₂ H ₄ F ₂	624-72-6	66.050	3.4552	0.3499			215.00	2.7427	445.00	0
99	Difluoromethane	CH ₂ F ₂	75-10-5	52.023	2.8081	0.3364			136.95	2.3781	351.26	0
100	Di-isopropyl amine	C ₆ H ₁₅ N	108-18-9	101.190	5.007	0.4362			176.85	4.1823	523.10	0
101	Di-isopropyl ether	C ₆ H ₁₄ O	108-20-3	102.175	4.6117	0.4			187.65	3.8207	500.05	0
102	Di-isopropyl ketone	C ₇ H ₁₄ O	565-80-0	114.185	5.0256	0.29611			204.81	4.4125	576.00	0
103	1,1-Dimethoxyethane	C ₄ H ₁₀ O ₂	534-15-6	90.121	4.3872	0.56226	-0.60662	0.4202	159.95	3.7528	507.80	0
104	1,2-Dimethoxypropane	C ₅ H ₁₂ O ₂	7778-85-0	104.148	4.7999	0.30724	-0.024545	0.091361	226.10	4.0557	543.00	0
105	Dimethyl acetylene	C ₄ H ₆	503-17-3	54.090	3.856	0.3737			240.91	2.9557	473.20	0
106	Dimethyl amine	C ₃ H ₇ N	124-40-3	45.084	4.09	0.42005			180.96	3.2678	437.20	0
107	2,3-Dimethylbutane	C ₆ H ₁₄	79-29-8	86.175	4.1509	0.38383			145.19	3.6388	500.00	0
108	1,1-Dimethylcyclohexane	C ₈ H ₁₆	590-66-9	112.213	5.0402	0.4036			239.66	4.0862	591.15	0
109	<i>cis</i> -1,2-Dimethylcyclohexane	C ₈ H ₁₆	2207-01-4	112.213	5.2852	0.41607			223.16	4.3662	606.15	0
110	<i>trans</i> -1,2-Dimethylcyclohexane	C ₈ H ₁₆	6876-23-9	112.213	5.1194	0.405			184.99	4.4043	596.15	0
111	Dimethyl disulfide	C ₂ H ₆ S ₂	624-92-0	94.199	4.9825	0.3958			188.44	4.3108	615.00	0
112	Dimethyl ether	C ₂ H ₆ O	115-10-6	46.068	2.994	0.3505			131.65	2.6032	400.10	0
113	<i>N,N</i> -Dimethyl formamide	C ₃ H ₇ NO	68-12-2	73.094	5.9217	0.37996			212.72	5.0931	649.60	0
114	2,3-Dimethylpentane	C ₇ H ₁₆	565-59-3	100.202	4.6533	0.37577			160.00	4.0745	537.30	0
115	Dimethyl phthalate	C ₁₀ H ₁₀ O ₄	131-11-3	194.184	8.1578	0.29346			274.18	7.1632	766.00	0
116	Dimethylsilane	C ₂ H ₆ Si	1111-74-6	60.170	2.8365	0.35393			122.93	2.4928	402.00	0
117	Dimethyl sulfide	C ₂ H ₆ S	75-18-3	62.134	3.9022	0.37731			174.88	3.3213	503.04	0
118	Dimethyl sulfoxide	C ₂ H ₆ OS	67-68-5	78.133	6.629	0.4084			291.67	5.3804	729.00	0
119	Dimethyl terephthalate	C ₁₀ H ₁₀ O ₄	120-61-6	194.184	7.236	0.2424			413.80	6.0070	772.00	0
120	1,4-Dioxane	C ₄ H ₈ O ₂	123-91-1	88.105	5.051	0.3791			284.95	3.9263	587.00	0
121	Diphenyl ether	C ₁₂ H ₁₀ O	101-84-8	170.207	6.8243	0.30877			300.03	5.8546	766.80	0
122	Dipropyl amine	C ₆ H ₁₅ N	142-84-7	101.190	5.428	0.3665			210.15	4.5500	550.00	0

TABLE 2-150 Heats of Vaporization of Inorganic and Organic Liquids (J/kmol) (Continued)

Cmpd. no.	Name	Formula	CAS no.	Mol. wt.	C1 × 1E-07	C2	C3	C4	T_{\min} , K	ΔH_v at $T_{\min} \times 1E-07$	T_{\max} , K	ΔH_v at T_{\max}
123	Dodecane	C ₁₂ H ₂₆	112-40-3	170.335	7.7337	0.40681			263.57	6.2802	658.00	0
124	Eicosane	C ₂₀ H ₄₂	112-95-8	282.547	12.86	0.50351	0.32986	-0.42184	309.58	9.5933	768.00	0
125	Ethane	C ₂ H ₆	74-84-0	30.069	2.1091	0.60646	-0.55492	0.32799	90.35	1.7879	305.32	0
126	Ethanol	C ₂ H ₆ O	64-17-5	46.068	5.5789	0.31245			159.05	4.9694	514.00	0
127	Ethyl acetate	C ₄ H ₈ O ₂	141-78-6	88.105	4.933	0.3847			189.60	4.1490	523.30	0
128	Ethyl amine	C ₂ H ₇ N	75-04-7	45.084	4.275	0.5857	-0.332	0.169	192.15	3.2955	456.15	0
129	Ethylbenzene	C ₈ H ₁₀	100-41-4	106.165	5.4805	0.39524			178.20	4.7900	617.15	0
130	Ethyl benzoate	C ₉ H ₁₀ O ₂	93-89-0	150.175	6.7093	0.33273			238.45	5.8382	698.00	0
131	2-Ethyl butanoic acid	C ₆ H ₁₂ O ₂	88-09-5	116.158	7.898	0.39445			258.15	6.4816	655.00	0
132	Ethyl butyrate	C ₆ H ₁₂ O ₂	105-54-4	116.158	5.6419	0.37985			175.15	4.9090	571.00	0
133	Ethylcyclohexane	C ₈ H ₁₆	1678-91-7	112.213	5.3832	0.41763			161.84	4.7318	609.15	0
134	Ethylcyclopentane	C ₇ H ₁₄	1640-89-7	98.186	4.8287	0.37804			134.71	4.3603	569.50	0
135	Ethylene	C ₂ H ₄	74-85-1	28.053	1.8844	0.36485			104.00	1.5936	282.34	0
136	Ethylenediamine	C ₂ H ₈ N ₂	107-15-3	60.098	5.7521	0.34513			284.29	4.5918	593.00	0
137	Ethylene glycol	C ₂ H ₆ O ₂	107-21-1	62.068	8.3518	0.42625			260.15	6.8989	720.00	0
138	Ethyleneimine	C ₂ H ₅ N	151-56-4	43.068	4.94	0.466			195.20	4.0022	537.00	0
139	Ethylene oxide	C ₂ H ₄ O	75-21-8	44.053	3.6652	0.37878			160.65	3.1271	469.15	0
140	Ethyl formate	C ₃ H ₆ O ₂	109-94-4	74.079	4.5909	0.4123			193.55	3.7679	508.40	0
141	2-Ethyl hexanoic acid	C ₈ H ₁₆ O ₂	149-57-5	144.211	11.184	0.86189	-0.47845	0.048646	235.00	8.2832	674.60	0
142	Ethylhexyl ether	C ₈ H ₁₈ O	5756-43-4	130.228	6.2786	0.39513			180.00	5.4262	583.00	0
143	Ethylisopropyl ether	C ₅ H ₁₂ O	625-54-7	88.148	4.258	0.37221			140.00	3.7556	489.00	0
144	Ethylisopropyl ketone	C ₆ H ₁₂ O	565-69-5	100.159	5.2207	0.34893			204.15	4.4677	567.00	0
145	Ethyl mercaptan	C ₂ H ₆ S	75-08-1	62.134	3.844	0.37534			125.26	3.4489	499.15	0
146	Ethyl propionate	C ₅ H ₁₀ O ₂	105-37-3	102.132	5.3325	0.401			199.25	4.4449	546.00	0
147	Ethylpropyl ether	C ₅ H ₁₂ O	628-32-0	88.148	5.438	0.60624			145.65	4.4140	500.23	0
148	Ethyltrichlorosilane	C ₂ H ₅ Cl ₃ Si	115-21-9	163.506	4.9482	0.39871			167.55	4.2942	559.95	0
149	Fluorine	F ₂	7782-41-4	37.997	0.88757	0.34072			53.48	0.7578	144.12	0
150	Fluorobenzene	C ₆ H ₅ F	462-06-6	96.102	4.582	0.3717			230.94	3.7605	560.09	0
151	Fluoroethane	C ₂ H ₅ F	353-36-6	48.060	2.7617	0.32162			129.95	2.4089	375.31	0
152	Fluoromethane	CH ₃ F	593-53-3	34.033	2.4708	0.37014			131.35	2.0276	317.42	0
153	Formaldehyde	CH ₂ O	50-00-0	30.026	3.076	0.2954			181.15	2.5863	408.00	0
154	Formamide	CH ₃ NO	75-12-7	45.041	7.358	0.3564			275.70	6.2844	771.00	0
155	Formic acid	CH ₂ O ₂	64-18-6	46.026	2.3195	1.9091	-5.0003	3.2641	250.00	1.8865	588.00	0
156	Furan	C ₄ H ₄ O	110-00-9	68.074	4.005	0.3995			196.29	3.2647	490.15	0
157	Helium-4	He	7440-59-7	4.003	0.012504	1.3038	-2.6954	1.7098	2.20	0.0097	5.20	0
158	Heptadecane	C ₁₇ H ₃₆	629-78-7	240.468	10.473	0.4374			295.13	8.3699	736.00	0
159	Heptanal	C ₇ H ₁₄ O	111-71-7	114.185	5.956	0.36474			229.80	5.0248	616.80	0
160	Heptane	C ₇ H ₁₆	142-82-5	100.202	5.0014	0.38795			182.57	4.2619	540.20	0
161	Heptanoic acid	C ₇ H ₁₄ O ₂	111-14-8	130.185	11.274	0.86047	-0.40661	-0.012644	265.83	7.9579	677.30	0
162	1-Heptanol	C ₇ H ₁₆ O	111-70-6	116.201	7.0236	-1.3652	3.987	-2.2545	239.15	7.6498	632.30	0
163	2-Heptanol	C ₇ H ₁₆ O	543-49-7	116.201	9.6433	0.783	-0.27273	0.038495	230.00	6.9638	608.30	0
164	3-Heptanone	C ₇ H ₁₄ O	106-35-4	114.185	6.3357	0.42167			234.15	5.1579	606.60	0
165	2-Heptanone	C ₇ H ₁₄ O	110-43-0	114.185	6.1425	0.39802			238.15	5.0471	611.40	0
166	1-Heptene	C ₇ H ₁₄	592-76-7	98.186	4.9437	0.35428	0.22149	-0.2353	154.12	4.3208	537.40	0
167	Heptyl mercaptan	C ₇ H ₁₆ S	1639-09-4	132.267	6.5473	0.40968			229.92	5.4656	645.00	0
168	1-Heptyne	C ₇ H ₁₂	628-71-7	96.170	4.8222	0.33858			192.22	4.1647	547.00	0
169	Hexadecane	C ₁₆ H ₃₄	544-76-3	226.441	10.156	0.45726			291.31	8.0225	723.00	0
170	Hexanal	C ₆ H ₁₂ O	66-25-1	100.159	5.6661	0.38533			217.15	4.7495	591.00	0
171	Hexane	C ₆ H ₁₄	110-54-3	86.175	4.4544	0.39002			177.83	3.7647	507.60	0
172	Hexanoic acid	C ₆ H ₁₂ O ₂	142-62-1	116.158	9.0746	0.8926	-0.75172	0.34378	269.25	6.4783	660.20	0
173	1-Hexanol	C ₆ H ₁₄ O	111-27-3	102.175	7.035	-0.9575	3.1431	-1.8066	228.55	7.1509	611.30	0
174	2-Hexanol	C ₆ H ₁₄ O	626-93-7	102.175	11.55	2.2877	-3.6724	2.1326	223.00	6.5014	585.30	0
175	2-Hexanone	C ₆ H ₁₂ O	591-78-6	100.159	5.6231	0.38207			217.35	4.7135	587.61	0
176	3-Hexanone	C ₆ H ₁₂ O	589-38-8	100.159	5.6232	0.39972			217.50	4.6655	582.82	0
177	1-Hexene	C ₆ H ₁₂	592-41-6	84.159	4.1429	0.49118	-0.44821	0.32105	133.39	3.6691	504.00	0
178	3-Hexyne	C ₆ H ₁₀	928-49-4	82.144	4.808	0.436			170.05	4.0831	544.00	0
179	Hexyl mercaptan	C ₆ H ₁₄ S	111-31-9	118.240	5.8422	0.38704			192.62	5.0630	623.00	0
180	1-Hexyne	C ₆ H ₁₀	693-02-7	82.144	4.574	0.3698			141.25	4.0640	516.20	0
181	2-Hexyne	C ₆ H ₁₀	764-35-2	82.144	4.911	0.4392			183.65	4.1067	549.00	0

182	Hydrazine	H ₂ N ₂	302-01-2	32.045	5.9794	0.9424	-1.398	0.8862	274.69	4.5238	653.15	0
183	Hydrogen	H ₂	1333-74-0	2.016	0.10127	0.698	-1.817	1.447	13.95	0.0913	33.19	0
184	Hydrogen bromide	HBr	10035-10-6	80.912	2.485	0.39			185.15	1.8817	363.15	0
185	Hydrogen chloride	HCl	7647-01-0	36.461	2.2093	0.3466			158.97	1.7498	324.65	0
186	Hydrogen cyanide	CHN	74-90-8	27.025	3.349	0.2053			259.83	2.8176	456.65	0
187	Hydrogen fluoride	HF	7664-39-3	20.006	13.451	13.36	-23.383	10.785	277.56	0.7104	461.15	0
188	Hydrogen sulfide	H ₂ S	7783-06-4	34.081	2.5676	0.37358			187.68	1.9782	373.53	0
189	Isobutyric acid	C ₄ H ₈ O ₂	79-31-2	88.105	4.0385	0.82698	-2.033	1.4769	227.15	3.5534	605.00	0
190	Isopropyl amine	C ₃ H ₇ N	75-31-0	59.110	4.4041	0.43325			177.95	3.5874	471.85	0
191	Malonic acid	C ₃ H ₄ O ₄	141-82-2	104.061	11.767	0.37877			407.95	9.0033	805.00	0
192	Methacrylic acid	C ₄ H ₆ O ₂	79-41-4	86.089	4.6095	0.23331			288.15	4.0342	662.00	0
193	Methane	CH ₄	74-82-8	16.042	1.0194	0.26087	-0.14694	0.22154	90.69	0.8724	190.56	0
194	Methanol	CH ₃ O	67-56-1	32.042	5.0451	0.33594			175.47	4.3825	512.50	0
195	N-Methyl acetamide	C ₃ H ₇ NO	79-16-3	73.094	7.3402	0.38974			301.15	5.9384	718.00	0
196	Methyl acetate	C ₃ H ₆ O ₂	79-20-9	74.079	4.492	0.3685			175.15	3.8418	506.55	0
197	Methyl acetylene	C ₃ H ₄	74-99-7	40.064	3.1889	0.37881			170.45	2.5882	402.40	0
198	Methyl acrylate	C ₄ H ₆ O ₂	96-33-3	86.089	4.68	0.349			196.32	3.9913	536.00	0
199	Methyl amine	CH ₃ N	74-89-5	31.057	3.858	0.404			179.69	3.1006	430.05	0
200	Methyl benzoate	C ₈ H ₈ O ₂	93-58-3	136.148	6.8504	0.38852			260.75	5.7026	693.00	0
201	3-Methyl-1,2-butadiene	C ₅ H ₈	598-25-4	68.117	4.1233	0.426			159.53	3.4864	490.00	0
202	2-Methylbutane	C ₅ H ₁₂	78-78-4	72.149	3.7593	0.39173			113.25	3.3657	460.40	0
203	2-Methylbutanoic acid	C ₅ H ₁₀ O ₂	116-53-0	102.132	7.48	0.3933			193.00	6.5004	643.00	0
204	3-Methyl-1-butanol	C ₅ H ₁₂ O	123-51-3	88.148	10.178	1.3211	-1.2234	0.44836	155.95	7.7338	577.20	0
205	2-Methyl-1-butene	C ₅ H ₁₀	563-46-2	70.133	3.9091	0.39866			135.58	3.4072	465.00	0
206	2-Methyl-2-butene	C ₅ H ₁₀	513-35-9	70.133	3.9248	0.36173			139.39	3.4558	470.00	0
207	2-Methyl-1-butene-3-yne	C ₅ H ₆	78-80-8	66.101	3.648	0.3863			160.15	3.1332	492.00	0
208	Methylbutyl ether	C ₅ H ₁₂ O	628-28-4	88.148	4.5302	0.37779			157.48	3.9438	512.74	0
209	Methylbutyl sulfide	C ₅ H ₁₂ S	628-29-5	104.214	5.3416	0.3835			175.30	4.6699	593.00	0
210	3-Methyl-1-butyne	C ₅ H ₈	598-23-2	68.117	3.792	0.3565			183.45	3.1681	463.20	0
211	Methyl butyrate	C ₅ H ₁₀ O ₂	623-42-7	102.132	5.3781	0.39523			187.35	4.5694	554.50	0
212	Methylchlorosilane	CH ₃ ClSi	993-00-0	80.589	3.2835	0.33116			139.05	2.8974	442.00	0
213	Methylcyclohexane	C ₇ H ₁₄	108-87-2	98.186	4.7528	0.39437			146.58	4.2291	572.10	0
214	1-Methylcyclohexanol	C ₇ H ₁₄ O	590-67-0	114.185	6.477	0.4853			299.15	4.9050	686.00	0
215	cis-2-Methylcyclohexanol	C ₇ H ₁₄ O	7443-70-1	114.185	7.8011	0.4172			280.15	6.0500	614.00	0
216	trans-2-Methylcyclohexanol	C ₇ H ₁₄ O	7443-52-9	114.185	7.8995	0.42479			269.15	6.1926	617.00	0
217	Methylcyclopentane	C ₆ H ₁₂	96-37-7	84.159	4.3595	0.38507			130.73	3.9115	532.70	0
218	1-Methylcyclopentene	C ₆ H ₁₀	693-89-0	82.144	4.3541	0.36805			146.62	3.8769	542.00	0
219	3-Methylcyclopentene	C ₆ H ₁₀	1120-62-3	82.144	4.209	0.36779			115.00	3.8439	526.00	0
220	Methyldichlorosilane	CH ₂ Cl ₂ Si	75-54-7	115.034	3.6756	0.31266			182.55	3.1686	483.00	0
221	Methylethyl ether	C ₃ H ₈ O	540-67-0	60.095	3.53	0.376			160.00	2.9751	437.80	0
222	Methylethyl ketone	C ₄ H ₈ O	78-93-3	72.106	4.622	0.355			186.48	3.9704	535.50	0
223	Methylethyl sulfide	C ₃ H ₈ S	624-89-5	76.161	4.4842	0.41151			167.23	3.8406	533.00	0
224	Methyl formate	C ₂ H ₄ O ₂	107-31-3	60.052	4.103	0.3825			174.15	3.4644	487.20	0
225	Methylisobutyl ether	C ₅ H ₁₂ O	625-44-5	88.148	4.2678	0.37995			150.00	3.7232	497.00	0
226	Methylisobutyl ketone	C ₆ H ₁₂ O	108-10-1	100.159	5.4687	0.40583			189.15	4.6507	574.60	0
227	Methyl Isocyanate	C ₂ H ₃ NO	624-83-9	57.051	4.2967	0.37922			256.15	3.2402	488.00	0
228	Methylisopropyl ether	C ₄ H ₁₀ O	598-53-8	74.122	3.8501	0.36453			127.93	3.4235	464.48	0
229	Methylisopropyl ketone	C ₅ H ₁₀ O	563-80-4	86.132	4.7075	0.33601			180.15	4.1240	553.40	0
230	Methylisopropyl sulfide	C ₄ H ₁₀ S	1551-21-9	90.187	4.5052	0.36493			171.64	3.9340	553.10	0
231	Methyl mercaptan	CH ₃ S	74-93-1	48.107	3.4448	0.37427			150.18	2.9825	469.95	0
232	Methyl methacrylate	C ₅ H ₈ O ₂	80-62-6	100.116	5.468	0.4472			224.95	4.3596	566.00	0
233	2-Methyloctanoic acid	C ₉ H ₁₈ O ₂	3004-93-1	158.238	10.53	0.7454	-0.39297	0.047214	240.00	8.1106	694.00	0
234	2-Methylpentane	C ₆ H ₁₄	107-83-5	86.175	4.2522	0.3807			119.55	3.8300	497.70	0
235	Methyl pentyl ether	C ₆ H ₁₄ O	628-80-8	102.175	5.0002	0.3781			176.00	4.3168	546.49	0
236	2-Methylpropane	C ₄ H ₁₀	75-28-5	58.122	3.188	0.39006			113.54	2.8070	407.80	0
237	2-Methyl-2-propanol	C ₄ H ₁₀ O	75-65-0	74.122	7.7646	0.56757			298.97	4.6771	506.20	0
238	2-Methyl propene	C ₄ H ₈	115-11-7	56.106	3.2614	0.38073			132.81	2.8195	417.90	0
239	Methyl propionate	C ₄ H ₈ O ₂	554-12-1	88.105	5.008	0.3959			185.65	4.2231	530.60	0
240	Methylpropyl ether	C ₄ H ₁₀ O	557-17-5	74.122	4.2719	0.43175			133.97	3.7041	476.25	0
241	Methylpropyl sulfide	C ₄ H ₁₀ S	3877-15-4	90.187	4.8253	0.38087			160.17	4.2499	565.00	0
242	Methylsilane	CH ₃ Si	992-94-9	46.144	2.2656	0.30269			116.34	2.0069	352.50	0
243	alpha-Methyl styrene	C ₉ H ₁₀	98-83-9	118.176	5.8071	0.37009			249.95	4.8591	654.00	0
244	Methyl tert-butyl ether	C ₅ H ₁₂ O	1634-04-4	88.148	3.872	0.044	0.448	-0.112	164.55	3.6017	497.10	0

TABLE 2-150 Heats of Vaporization of Inorganic and Organic Liquids (J/kmol) (Concluded)

Cmpd. no.	Name	Formula	CAS no.	Mol. wt.	C1 × 1E-07	C2	C3	C4	T_{\min} , K	ΔH_v at $T_{\min} \times 1E-07$	T_{\max} , K	ΔH_v at T_{\max}
245	Methyl vinyl ether	C ₃ H ₆ O	107-25-5	58.079	3.587	0.3769			151.15	3.0567	437.00	0
246	Naphthalene	C ₁₀ H ₈	91-20-3	128.171	7.0911	0.46468			353.43	5.2691	748.40	0
247	Neon	Ne	7440-01-9	20.180	0.2389	0.3494			24.56	0.1803	44.40	0
248	Nitroethane	C ₂ H ₅ NO ₂	79-24-3	75.067	5.1459	0.33017			183.63	4.5533	593.00	0
249	Nitrogen	N ₂	7727-37-9	28.013	0.74905	0.40406	−0.317	0.27343	63.15	0.6024	126.20	0
250	Nitrogen trifluoride	F ₃ N	7783-54-2	71.002	1.6402	0.36494			66.46	1.4519	234.00	0
251	Nitromethane	CH ₃ NO ₂	75-52-5	61.040	4.7417	0.3062			244.60	4.0220	588.15	0
252	Nitrous oxide	N ₂ O	10024-97-2	44.013	2.3215	0.384			182.30	1.6502	309.57	0
253	Nitric oxide	NO	10102-43-9	30.006	2.131	0.4056			109.50	1.4578	180.15	0
254	Nonadecane	C ₁₉ H ₄₀	629-92-5	268.521	11.674	0.45865			305.04	9.2185	758.00	0
255	Nonanal	C ₉ H ₁₈ O	124-19-6	142.239	7.3363	0.41735			255.15	5.9779	658.00	0
256	Nonane	C ₉ H ₂₀	111-84-2	128.255	6.037	0.38522			219.66	5.0545	594.60	0
257	Nonanoic acid	C ₉ H ₁₈ O ₂	112-05-0	158.238	12.38	0.69869	0.097854	−0.35082	285.55	8.7232	710.70	0
258	1-Nonanol	C ₉ H ₂₀ O	143-08-8	144.255	7.5429	−1.5966	4.6489	−2.7229	268.15	8.2411	670.90	0
259	2-Nonanol	C ₉ H ₂₀ O	628-99-9	144.255	7.9797	−1.0341	3.553	−2.1149	238.15	8.0370	649.50	0
260	1-Nonene	C ₉ H ₁₈	124-11-8	126.239	5.9054	0.61039	−0.54533	0.30683	191.91	4.9218	593.10	0
261	Nonyl mercaptan	C ₉ H ₂₀ S	1455-21-6	160.320	7.5239	0.3991			253.05	6.2506	681.00	0
262	1-Nonyne	C ₉ H ₁₆	3452-09-3	124.223	6.3337	0.3975			223.15	5.2606	598.05	0
263	Octadecane	C ₁₈ H ₃₈	593-45-3	254.494	10.969	0.44327			301.31	8.7246	747.00	0
264	Octanal	C ₈ H ₁₆ O	124-13-0	128.212	6.7735	0.40607			246.00	5.5600	638.90	0
265	Octane	C ₈ H ₁₈	111-65-9	114.229	5.518	0.38467			216.38	4.5898	568.70	0
266	Octanoic acid	C ₈ H ₁₆ O ₂	124-07-2	144.211	12.23	0.69294	0.12287	−0.36132	289.65	8.4658	694.26	0
267	1-Octanol	C ₈ H ₁₈ O	111-87-5	130.228	7.2468	−1.2464	3.6797	−2.0665	257.65	7.6793	652.30	0
268	2-Octanol	C ₈ H ₁₈ O	123-96-6	130.228	7.6376	−0.7612	2.7875	−1.6033	241.55	7.3759	629.80	0
269	2-Octanone	C ₈ H ₁₆ O	111-13-7	128.212	6.5363	0.38718			252.85	5.3646	632.70	0
270	3-Octanone	C ₈ H ₁₆ O	106-68-3	128.212	6.6142	0.58562	−0.40512	0.22144	255.55	5.2076	627.70	0
271	1-Octene	C ₈ H ₁₆	111-66-0	112.213	5.4859	0.26207	0.50642	−0.43873	171.45	4.7927	566.90	0
272	Octyl mercaptan	C ₈ H ₁₈ S	111-88-6	146.294	6.8907	0.40017			223.95	5.8506	667.30	0
273	1-Octyne	C ₈ H ₁₄	629-05-0	110.197	5.4046	0.35299			193.55	4.6743	574.00	0
274	Oxalic acid	C ₂ H ₂ O ₄	144-62-7	90.035	11.473	0.37238			462.65	8.3393	804.00	0
275	Oxygen	O ₂	7782-44-7	31.999	0.9008	0.4542	−0.4096	0.3183	54.36	0.7742	154.58	0
276	Ozone	O ₃	10028-15-6	47.998	1.8587	0.30416			80.15	1.6625	261.00	0
277	Pentadecane	C ₁₅ H ₃₂	629-62-9	212.415	9.6741	0.45399			283.07	7.6728	708.00	0
278	Pentanal	C ₅ H ₁₀ O	110-62-3	86.132	5.1478	0.37541			182.00	4.4502	566.10	0
279	Pentane	C ₅ H ₁₂	109-66-0	72.149	3.9109	0.38681			143.42	3.3968	469.70	0
280	Pentanoic acid	C ₅ H ₁₀ O ₂	109-52-4	102.132	7.3197	1.2093	−1.9114	1.1591	239.15	5.3813	639.16	0
281	1-Pentanol	C ₅ H ₁₂ O	71-41-0	88.148	7.39	−0.1464	1.4751	−0.9208	195.56	6.7005	588.10	0
282	2-Pentanol	C ₅ H ₁₂ O	6032-29-7	88.148	11.111	1.8011	−2.1801	1.0641	200.00	6.6655	561.00	0
283	2-Pentanone	C ₅ H ₁₀ O	107-87-9	86.132	5.174	0.39422			196.29	4.3663	561.08	0
284	3-Pentanone	C ₅ H ₁₀ O	96-22-0	86.132	5.2359	0.40465			234.18	4.2075	560.95	0
285	1-Pentene	C ₅ H ₁₀	109-67-1	70.133	3.5027	0.3481	−0.19672	0.22394	108.02	3.2232	464.80	0
286	2-Pentyl mercaptan	C ₅ H ₁₂ S	2084-19-7	104.214	5.0573	0.45827	−0.22568	0.16393	160.75	4.4343	584.30	0
287	Pentyl mercaptan	C ₅ H ₁₂ S	110-66-7	104.214	5.4315	0.3972			197.45	4.6322	598.00	0
288	1-Pentyne	C ₅ H ₈	627-19-0	68.117	3.954	0.3512			167.45	3.4025	481.20	0
289	2-Pentyne	C ₅ H ₈	627-21-4	68.117	4.4158	0.44347			163.83	3.7321	519.00	0
290	Phenanthrene	C ₁₄ H ₁₀	85-01-8	178.229	8.3482	0.33172			372.38	6.9340	869.00	0
291	Phenol	C ₆ H ₆ O	108-95-2	94.111	7.306	0.4246			314.06	5.6577	694.25	0
292	Phenyl isocyanate	C ₇ H ₅ NO	103-71-9	119.121	5.5769	0.30346			243.15	4.8418	653.00	0
293	Phthalic anhydride	C ₈ H ₆ O ₃	85-44-9	148.116	6.916	0.1755			404.15	6.1001	791.00	0
294	Propadiene	C ₃ H ₄	463-49-0	40.064	2.9535	0.41367			136.87	2.4755	394.00	0
295	Propane	C ₃ H ₈	74-98-6	44.096	2.9209	0.78237	−0.77319	0.39246	85.47	2.4787	369.83	0
296	1-Propanol	C ₃ H ₈ O	71-23-8	60.095	6.8988	0.6458	−0.5384	0.3317	146.95	5.8356	536.80	0
297	2-Propanol	C ₃ H ₈ O	67-63-0	60.095	7.2542	0.79137	−0.66092	0.34223	185.26	5.5370	508.30	0
298	Propenylcyclohexene	C ₉ H ₁₄	13511-13-2	122.207	5.8866	0.38533			199.00	5.0941	636.00	0
299	Propionaldehyde	C ₃ H ₆ O	123-38-6	58.079	4.1492	0.36751			170.00	3.5675	504.40	0
300	Propionic acid	C ₃ H ₆ O ₂	79-09-4	74.079	4	1.3936	−2.9465	1.794	252.45	3.0922	600.81	0
301	Propionitrile	C ₃ H ₅ N	107-12-0	55.079	4.9348	0.41873			180.26	4.2005	564.40	0
302	Propyl acetate	C ₅ H ₁₀ O ₂	109-60-4	102.132	5.4327	0.407			178.15	4.6322	549.73	0

303	Propyl amine	C ₃ H ₉ N	107-10-8	59.110	4.4488	0.39494			188.36	3.6857	496.95	0
304	Propylbenzene	C ₉ H ₁₂	103-65-1	120.192	5.8887	0.38534			173.55	5.2110	638.35	0
305	Propylene	C ₃ H ₆	115-07-1	42.080	2.5216	0.33721	-0.18399	0.22377	87.89	2.3177	364.85	0
306	Propyl formate	C ₄ H ₈ O ₂	110-74-7	88.105	4.9687	0.4025			180.25	4.2162	538.00	0
307	2-Propyl mercaptan	C ₃ H ₇ S	75-33-2	76.161	4.2191	0.41161			142.61	3.6942	517.00	0
308	Propyl mercaptan	C ₃ H ₇ S	107-03-9	76.161	4.4782	0.41073			159.95	3.8723	536.60	0
309	1,2-Propylene glycol	C ₃ H ₈ O ₂	57-55-6	76.094	8.07	0.295			213.15	7.1374	626.00	0
310	Quinone	C ₆ H ₄ O ₂	106-51-4	108.095	6.49	0.3112			388.85	4.9933	683.00	0
311	Silicon tetrafluoride	F ₄ Si	7783-61-1	104.079	2.4105	0.37988			186.35	1.4873	259.00	0
312	Styrene	C ₈ H ₈	100-42-5	104.149	5.726	0.4055			242.54	4.7128	636.00	0
313	Succinic acid	C ₄ H ₆ O ₄	110-15-6	118.088	12.018	0.37149			460.65	8.7719	806.00	0
314	Sulfur dioxide	O ₃ S	7446-09-5	64.064	3.676	0.4			197.67	2.8753	430.75	0
315	Sulfur hexafluoride	F ₆ S	2551-62-4	146.055	2.571	0.383			223.15	1.6208	318.69	0
316	Sulfur trioxide	O ₃ S	7446-11-9	80.063	7.337	0.5647			289.95	4.4303	490.85	0
317	Terephthalic acid	C ₈ H ₆ O ₄	100-21-0	166.131	8.824				298.15	8.8240	298.15	88,240,000
318	<i>o</i> -Terphenyl	C ₁₈ H ₁₄	84-15-1	230.304	8.7165	0.3224			329.35	7.4548	857.00	0
319	Tetradecane	C ₁₄ H ₃₀	629-59-4	198.388	9.0539	0.44467			279.01	7.2002	693.00	0
320	Tetrahydrofuran	C ₄ H ₈ O	109-99-9	72.106	4.3021	0.36972			164.65	3.7610	540.15	0
321	1,2,3,4-Tetrahydronaphthalene	C ₁₀ H ₁₂	119-64-2	132.202	6.8086	0.43054			237.38	5.7314	720.00	0
322	Tetrahydrothiophene	C ₄ H ₆ S	110-01-0	88.171	5.0642	0.38904			176.99	4.4565	631.95	0
323	2,2,3,3-Tetramethylbutane	C ₈ H ₁₈	594-82-1	114.229	4.9055	0.40678			373.96	3.1691	568.00	0
324	Thiophene	C ₄ H ₄ S	110-02-1	84.140	4.5854	0.38756			234.94	3.7484	579.35	0
325	Toluene	C ₇ H ₈	108-88-3	92.138	4.9507	0.37742			178.18	4.3246	591.75	0
326	1,1,2-Trichloroethane	C ₂ H ₃ Cl ₃	79-00-5	133.404	5.0929	0.38013			236.50	4.2130	602.00	0
327	Tridecane	C ₁₃ H ₂₈	629-50-5	184.361	8.4339	0.4257			267.76	6.8015	675.00	0
328	Triethyl amine	C ₆ H ₁₅ N	121-44-8	101.190	4.664	0.3663			158.45	4.1011	535.15	0
329	Trimethyl amine	C ₃ H ₉ N	75-50-3	59.110	3.305	0.354			156.08	2.8216	433.25	0
330	1,2,3-Trimethylbenzene	C ₉ H ₁₂	526-73-8	120.192	5.9996	0.35578			247.79	5.0818	664.50	0
331	1,2,4-Trimethylbenzene	C ₉ H ₁₂	95-63-6	120.192	5.9254	0.35709			229.33	5.0713	649.10	0
332	2,2,4-Trimethylpentane	C ₈ H ₁₈	540-84-1	114.229	4.7711	0.37949			165.78	4.1561	543.80	0
333	2,3,3-Trimethylpentane	C ₈ H ₁₈	560-21-4	114.229	4.991	0.383			172.22	4.3530	573.50	0
334	1,3,5-Trinitrobenzene	C ₆ H ₃ N ₃ O ₆	99-35-4	213.105	10.687	0.38			398.40	8.3906	846.00	0
335	2,4,6-Trinitrotoluene	C ₇ H ₅ N ₃ O ₆	118-96-7	227.131	10.686	0.40074			354.00	8.5455	828.00	0
336	Undecane	C ₁₁ H ₂₄	1120-21-4	156.308	7.2284	0.40607			247.57	5.9240	639.00	0
337	1-Undecanol	C ₁₁ H ₂₄ O	112-42-5	172.308	8.7274	-1.5834	5.0913	-3.2171	288.45	8.9007	703.90	0
338	Vinyl acetate	C ₄ H ₆ O ₂	108-05-4	86.089	4.77	0.3765			180.35	4.0619	519.13	0
339	Vinyl acetylene	C ₄ H ₄	689-97-4	52.075	3.649	0.4	0.043		173.15	2.9876	454.00	0
340	Vinyl chloride	C ₂ H ₃ Cl	75-01-4	62.498	3.4125	0.4513			119.36	2.9491	432.00	0
341	Vinyl trichlorosilane	C ₂ H ₃ Cl ₃ Si	75-94-5	161.490	4.5659	0.36278			178.35	3.9520	543.15	0
342	Water	H ₂ O	7732-18-5	18.015	5.2053	0.3199	-0.212	0.25795	273.16	4.4733	647.10	0
343	<i>m</i> -Xylene	C ₈ H ₁₀	108-38-3	106.165	5.4626	0.37289			225.30	4.6112	617.00	0
344	<i>o</i> -Xylene	C ₈ H ₁₀	95-47-6	106.165	5.5395	0.37788			247.98	4.5859	630.30	0
345	<i>p</i> -Xylene	C ₈ H ₁₀	106-42-3	106.165	5.3819	0.36695			286.41	4.2787	616.20	0

The heat of vaporization ΔH_v is calculated by

$$\Delta H_v = C1(1 - T_r)^{C2+C3T_r+C4T_r^2+C5T_r^3}$$

where $T_r = T/T_c$, T_c is the critical temperature from Table 2-141, ΔH_v is in J/kmol, and T is in K. All substances are listed by chemical family in Table 2-6 and by formula in Table 2-7.

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The number of digits provided for values at T_{\min} and T_{\max} was chosen for uniformity of appearance and formatting; these do not represent the uncertainties of the physical quantities, but are the result of calculations from the standard thermophysical property formulations within a fixed format.