

TABLE A-4

Saturated water—Temperature table

Temp., °C	Sat. press., P _{sat} , kPa	Specific volume, m ³ /kg		Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg · K		
		Liquid, vapor		Liquid, vapor			Liquid, vapor			Liquid, vapor		
		h _f	h _g	h _f	h _g	h _g	h _f	h _g	h _g	s _f	s _g	s _g
0.01	0.6113	0.000999	206.13	0.000999	206.13	0.000999	0.000999	0.000999	0.000999	0.000999	0.000999	0.000999
5	0.8706	0.001000	147.18	0.001000	147.18	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000	0.001000
10	1.2281	0.001001	104.85	0.001001	104.85	0.001001	0.001001	0.001001	0.001001	0.001001	0.001001	0.001001
15	1.7057	0.001003	71.898	0.001003	71.898	0.001003	0.001003	0.001003	0.001003	0.001003	0.001003	0.001003
20	2.3390	0.001006	51.205	0.001006	51.205	0.001006	0.001006	0.001006	0.001006	0.001006	0.001006	0.001006
25	3.1698	0.001010	37.051	0.001010	37.051	0.001010	0.001010	0.001010	0.001010	0.001010	0.001010	0.001010
30	4.2469	0.001015	27.098	0.001015	27.098	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
35	5.6280	0.001021	20.091	0.001021	20.091	0.001021	0.001021	0.001021	0.001021	0.001021	0.001021	0.001021
40	7.3851	0.001028	15.260	0.001028	15.260	0.001028	0.001028	0.001028	0.001028	0.001028	0.001028	0.001028
45	9.5934	0.001036	11.783	0.001036	11.783	0.001036	0.001036	0.001036	0.001036	0.001036	0.001036	0.001036
50	12.349	0.001045	9.152	0.001045	9.152	0.001045	0.001045	0.001045	0.001045	0.001045	0.001045	0.001045
55	15.758	0.001055	7.052	0.001055	7.052	0.001055	0.001055	0.001055	0.001055	0.001055	0.001055	0.001055
60	19.947	0.001067	5.480	0.001067	5.480	0.001067	0.001067	0.001067	0.001067	0.001067	0.001067	0.001067
65	25.033	0.001081	4.224	0.001081	4.224	0.001081	0.001081	0.001081	0.001081	0.001081	0.001081	0.001081
70	31.193	0.001100	3.258	0.001100	3.258	0.001100	0.001100	0.001100	0.001100	0.001100	0.001100	0.001100
75	38.830	0.001124	2.482	0.001124	2.482	0.001124	0.001124	0.001124	0.001124	0.001124	0.001124	0.001124
80	48.093	0.001155	1.912	0.001155	1.912	0.001155	0.001155	0.001155	0.001155	0.001155	0.001155	0.001155
85	59.249	0.001195	1.482	0.001195	1.482	0.001195	0.001195	0.001195	0.001195	0.001195	0.001195	0.001195
90	72.845	0.001245	1.145	0.001245	1.145	0.001245	0.001245	0.001245	0.001245	0.001245	0.001245	0.001245
95	89.069	0.001308	0.879	0.001308	0.879	0.001308	0.001308	0.001308	0.001308	0.001308	0.001308	0.001308
100	101.35	0.001385	0.686	0.001385	0.686	0.001385	0.001385	0.001385	0.001385	0.001385	0.001385	0.001385
105	116.06	0.001479	0.535	0.001479	0.535	0.001479	0.001479	0.001479	0.001479	0.001479	0.001479	0.001479
110	133.73	0.001593	0.415	0.001593	0.415	0.001593	0.001593	0.001593	0.001593	0.001593	0.001593	0.001593
115	154.86	0.001740	0.310	0.001740	0.310	0.001740	0.001740	0.001740	0.001740	0.001740	0.001740	0.001740
120	179.91	0.001935	0.228	0.001935	0.228	0.001935	0.001935	0.001935	0.001935	0.001935	0.001935	0.001935
125	209.34	0.002193	0.172	0.002193	0.172	0.002193	0.002193	0.002193	0.002193	0.002193	0.002193	0.002193
130	244.36	0.002533	0.131	0.002533	0.131	0.002533	0.002533	0.002533	0.002533	0.002533	0.002533	0.002533
135	286.52	0.002983	0.100	0.002983	0.100	0.002983	0.002983	0.002983	0.002983	0.002983	0.002983	0.002983
140	337.37	0.003575	0.078	0.003575	0.078	0.003575	0.003575	0.003575	0.003575	0.003575	0.003575	0.003575
145	398.81	0.004343	0.061	0.004343	0.061	0.004343	0.004343	0.004343	0.004343	0.004343	0.004343	0.004343
150	473.14	0.005438	0.047	0.005438	0.047	0.005438	0.005438	0.005438	0.005438	0.005438	0.005438	0.005438
155	563.80	0.006946	0.036	0.006946	0.036	0.006946	0.006946	0.006946	0.006946	0.006946	0.006946	0.006946
160	674.13	0.009040	0.027	0.009040	0.027	0.009040	0.009040	0.009040	0.009040	0.009040	0.009040	0.009040
165	809.97	0.011990	0.020	0.011990	0.020	0.011990	0.011990	0.011990	0.011990	0.011990	0.011990	0.011990
170	976.21	0.016030	0.015	0.016030	0.015	0.016030	0.016030	0.016030	0.016030	0.016030	0.016030	0.016030
175	1178.8	0.021660	0.011	0.021660	0.011	0.021660	0.021660	0.021660	0.021660	0.021660	0.021660	0.021660
180	1424.0	0.030000	0.008	0.030000	0.008	0.030000	0.030000	0.030000	0.030000	0.030000	0.030000	0.030000
185	1720.9	0.043000	0.006	0.043000	0.006	0.043000	0.043000	0.043000	0.043000	0.043000	0.043000	0.043000
190	2099.6	0.062000	0.004	0.062000	0.004	0.062000	0.062000	0.062000	0.062000	0.062000	0.062000	0.062000
195	2580.9	0.090000	0.003	0.090000	0.003	0.090000	0.090000	0.090000	0.090000	0.090000	0.090000	0.090000
200	3185.0	0.130000	0.002	0.130000	0.002	0.130000	0.130000	0.130000	0.130000	0.130000	0.130000	0.130000

TABLE A-4

Saturated water—Temperature table (continued)

Temp., °C	Specific volume, m ³ /kg				Internal energy, kJ/kg			Enthalpy, kJ/kg			Entropy, kJ/kg · K		
	Sat. press., P _{sat} , kPa	Liquid, v _f , v _g		Sat. press., P _{sat} , kPa	Liquid, vapor, u _f , u _g		Sat. press., P _{sat} , kPa	Liquid, vapor, h _f , h _g		Sat. press., P _{sat} , kPa	Liquid, vapor, s _f , s _g		
		v _f	v _g		u _f	u _g		h _f	h _g		s _f	s _g	
205	3766.2	0.200100	0.14550	871.00	1759.6	1759.6	871.00	1759.6	1759.6	1.7596	1.7596	1.7596	
210	4657.7	0.260175	0.10070	895.00	1769.0	1769.0	895.00	1769.0	1769.0	1.7690	1.7690	1.7690	
215	5450.0	0.330140	0.074400	918.00	1777.0	1777.0	918.00	1777.0	1777.0	1.7770	1.7770	1.7770	
220	6320.0	0.410100	0.056000	940.00	1784.0	1784.0	940.00	1784.0	1784.0	1.7840	1.7840	1.7840	
225	7280.0	0.500100	0.042000	960.00	1790.0	1790.0	960.00	1790.0	1790.0	1.7900	1.7900	1.7900	
230	8340.0	0.600100	0.032000	980.00	1796.0	1796.0	980.00	1796.0	1796.0	1.7960	1.7960	1.7960	
235	9510.0	0.720100	0.024000	1000.00	1802.0	1802.0	1000.00	1802.0	1802.0	1.8020	1.8020	1.8020	
240	10800.0	0.860100	0.018000	1020.00	1808.0	1808.0	1020.00	1808.0	1808.0	1.8080	1.8080	1.8080	
245	12230.0	1.020100	0.014000	1040.00	1814.0	1814.0	1040.00	1814.0	1814.0	1.8140	1.8140	1.8140	
250	13810.0	1.200100	0.011000	1060.00	1820.0	1820.0	1060.00	1820.0	1820.0	1.8200	1.8200	1.8200	
255	15550.0	1.410100	0.008000	1080.00	1826.0	1826.0	1080.00	1826.0	1826.0	1.8260	1.8260	1.8260	
260	17470.0	1.660100	0.006000	1100.00	1832.0	1832.0	1100.00	1832.0	1832.0	1.8320	1.8320	1.8320	
265	19580.0	1.960100	0.004000	1120.00	1838.0	1838.0	1120.00	1838.0	1838.0	1.8380	1.8380	1.8380	
270	21900.0	2.320100	0.003000	1140.00	1844.0	1844.0	1140.00	1844.0	1844.0	1.8440	1.8440	1.8440	
275	24450.0	2.760100	0.002000	1160.00	1850.0	1850.0	1160.00	1850.0	1850.0	1.8500	1.8500	1.8500	
280	27250.0	3.290100	0.001500	1180.00	1856.0	1856.0	1180.00	1856.0	1856.0	1.8560	1.8560	1.8560	
285	30320.0	3.920100	0.001000	1200.00	1862.0	1862.0	1200.00	1862.0	1862.0	1.8620	1.8620	1.8620	
290	33680.0	4.670100	0.000700	1220.00	1868.0	1868.0	1220.00	1868.0	1868.0	1.8680	1.8680	1.8680	
295	37350.0	5.560100	0.000500	1240.00	1874.0	1874.0	1240.00	1874.0	1874.0	1.8740	1.8740	1.8740	
300	41350.0	6.610100	0.000300	1260.00	1880.0	1880.0	1260.00	1880.0	1880.0	1.8800	1.8800	1.8800	
305	45700.0	7.840100	0.000200	1280.00	1886.0	1886.0	1280.00	1886.0	1886.0	1.8860	1.8860	1.8860	
310	50430.0	9.280100	0.000100	1300.00	1892.0	1892.0	1300.00	1892.0	1892.0	1.8920	1.8920	1.8920	
315	55580.0	10.960100	0.000050	1320.00	1898.0	1898.0	1320.00	1898.0	1898.0	1.8980	1.8980	1.8980	
320	61180.0	12.920100	0.000000	1340.00	1904.0	1904.0	1340.00	1904.0	1904.0	1.9040	1.9040	1.9040	
325	67270.0	15.200100	0.000000	1360.00	1910.0	1910.0	1360.00	1910.0	1910.0	1.9100	1.9100	1.9100	
330	73900.0	17.840100	0.000000	1380.00	1916.0	1916.0	1380.00	1916.0	1916.0	1.9160	1.9160	1.9160	
335	81120.0	20.900100	0.000000	1400.00	1922.0	1922.0	1400.00	1922.0	1922.0	1.9220	1.9220	1.9220	
340	88980.0	24.440100	0.000000	1420.00	1928.0	1928.0	1420.00	1928.0	1928.0	1.9280	1.9280	1.9280	
345	97530.0	28.520100	0.000000	1440.00	1934.0	1934.0	1440.00	1934.0	1934.0	1.9340	1.9340	1.9340	
350	106820.0	33.200100	0.000000	1460.00	1940.0	1940.0	1460.00	1940.0	1940.0	1.9400	1.9400	1.9400	
355	116900.0	38.600100	0.000000	1480.00	1946.0	1946.0	1480.00	1946.0	1946.0	1.9460	1.9460	1.9460	
360	127800.0	44.700100	0.000000	1500.00	1952.0	1952.0	1500.00	1952.0	1952.0	1.9520	1.9520	1.9520	
365	139500.0	51.500100	0.000000	1520.00	1958.0	1958.0	1520.00	1958.0	1958.0	1.9580	1.9580	1.9580	
370	152000.0	59.000100	0.000000	1540.00	1964.0	1964.0	1540.00	1964.0	1964.0	1.9640	1.9640	1.9640	
375	165400.0	67.200100	0.000000	1560.00	1970.0	1970.0	1560.00	1970.0	1970.0	1.9700	1.9700	1.9700	
380	179700.0	76.200100	0.000000	1580.00	1976.0	1976.0	1580.00	1976.0	1976.0	1.9760	1.9760	1.9760	
385	195000.0	86.000100	0.000000	1600.00	1982.0	1982.0	1600.00	1982.0	1982.0	1.9820	1.9820	1.9820	
390	211400.0	96.600100	0.000000	1620.00	1988.0	1988.0	1620.00	1988.0	1988.0	1.9880	1.9880	1.9880	
395	228900.0	108.000100	0.000000	1640.00	1994.0	1994.0	1640.00	1994.0	1994.0	1.9940	1.9940	1.9940	
400	247600.0	120.200100	0.000000	1660.00	2000.0	2000.0	1660.00	2000.0	2000.0	2.0000	2.0000	2.0000	
405	267500.0	133.200100	0.000000	1680.00	2006.0	2006.0	1680.00	2006.0	2006.0	2.0060	2.0060	2.0060	
410	288700.0	147.000100	0.000000	1700.00	2012.0	2012.0	1700.00	2012.0	2012.0	2.0120	2.0120	2.0120	
415	310200.0	161.600100	0.000000	1720.00	2018.0	2018.0	1720.00	2018.0	2018.0	2.0180	2.0180	2.0180	
420	333000.0	177.000100	0.000000	1740.00	2024.0	2024.0	1740.00	2024.0	2024.0	2.0240	2.0240	2.0240	
425	357200.0	193.200100	0.000000	1760.00	2030.0	2030.0	1760.00	2030.0	2030.0	2.0300	2.0300	2.0300	
430	382800.0	210.200100	0.000000	1780.00	2036.0	2036.0	1780.00	2036.0	2036.0	2.0360	2.0360	2.0360	
435	409800.0	228.000100	0.000000	1800.00	2042.0	2042.0	1800.00	2042.0	2042.0	2.0420	2.0420	2.0420	
440	438200.0	246.600100	0.000000	1820.00	2048.0	2048.0	1820.00	2048.0	2048.0	2.0480	2.0480	2.0480	
445	468000.0	266.000100	0.000000	1840.00	2054.0	2054.0	1840.00	2054.0	2054.0	2.0540	2.0540	2.0540	
450	499300.0	286.200100	0.000000	1860.00	2060.0	2060.0	1860.00	2060.0	2060.0	2.0600	2.0600	2.0600	
455	532100.0	307.200100	0.000000	1880.00	2066.0	2066.0	1880.00	2066.0	2066.0	2.0660	2.0660	2.0660	
460	566500.0	329.000100	0.000000	1900.00	2072.0	2072.0	1900.00	2072.0	2072.0	2.0720	2.0720	2.0720	
465	602600.0	351.600100	0.000000	1920.00	2078.0	2078.0	1920.00	2078.0	2078.0	2.0780	2.0780	2.0780	
470	640400.0	375.000100	0.000000	1940.00	2084.0	2084.0	1940.00	2084.0	2084.0	2.0840	2.0840	2.0840	
475	680000.0	400.200100	0.000000	1960.00	2090.0	2090.0	1960.00	2090.0	2090.0	2.0900	2.0900	2.0900	
480	721400.0	427.200100	0.000000	1980.00	2096.0	2096.0	1980.00	2096.0	2096.0	2.0960	2.0960	2.0960	
485	764700.0	456.000100	0.000000	2000.00	2102.0	2102.0	2000.00	2102.0	2102.0	2.1020	2.1020	2.1020	
490	810000.0	486.600100	0.000000	2020.00	2108.0	2108.0	2020.00	2108.0	2108.0	2.1080	2.1080	2.1080	
495	857400.0	519.000100	0.000000	2040.00	2114.0	2114.0	2040.00	2114.0	2114.0	2.1140	2.1140	2.1140	
500	906900.0	553.200100	0.000000	2060.00	2120.0	2120.0	2060.00	2120.0	2120.0	2.1200	2.1200	2.1200	
505	958600.0	589.200100	0.000000	2080.00	2126.0	2126.0	2080.00	2126.0	2126.0	2.1260	2.1260	2.1260	
510	1012600.0	627.000100	0.000000	2100.00	2132.0	2132.0	2100.00	2132.0	2132.0	2.1320	2.1320	2.1320	
515	1069900.0	666.600100	0.000000	2120.00	2138.0	2138.0	2120.00	2138.0	2138.0	2.1380	2.1380	2.1380	
520	1129500.0	708.000100	0.000000	2140.00	2144.0	2144.0	2140.00	2144.0	2144.0	2.1440	2.1440	2.1440	
525	1191500.0	751.200100	0.000000	2160.00	2150.0	2150.0	2160.00	2150.0	2150.0	2.1500	2.1500	2.1500	
530	1256000.0	796.200100	0.000000	2180.00	2156.0	2156.0	2180.00	2156.0	2156.0	2.1560	2.1560	2.1560	
535	1323100.0	843.000100	0.000000	2200.00	2162.0	2162.0	2200.00	2162.0	2162.0	2.1620	2.1620	2.1620	
540	1392800.0	891.600100	0.000000	2220.00	2168.0	2168.0	2220.00	2168.0	2168.0	2.1680	2.1680	2.1680	
545	1465200.0	942.000100	0.000000	2240.00	2174.0	2174.0	2240.00	2174.0	2174.0	2.1740	2.1740	2.1740	
550	1540400.0	994.200100	0.000000	2260.00	2180.0	2180.0	2260.00	2180.0	2180.0	2.1800	2.1800	2.1800	
555	1618500.0	1048.200100	0.000000	2280.00	2186.0	2186.0	2280.00	2186.0	2186.0	2.1860	2.1860	2.1860	
560	1700600.0	1104.000100	0.000000	2300.00	2192.0	2192.0	2300.00	2192.0	2192.0	2.1920	2.1920	2.1920	
565	1785800.0	1161.600100	0.000000	2320.00	2198.0	2198.0	2320.00	2198.0	2198.0	2.1980	2.1980	2.1980	
570	1874200.0	1221.000100	0.000000	2340.00	2204.0	2204.0	2340.00	2204.0	2204.0	2.2040	2.2040	2.2040	
575	1965900.0	1282.200100	0.000000	2360.00	2210.0	2210.0	2360.00	2210.0	2210.0	2.2100	2.2100	2.2100	
580	2060900.0	1345.200100	0.000000	2380.00	2216.0	2216.0	2380.00	2216.0	2216.0	2.2160	2.2160	2.2160	
585	2159300.0	1410.000100	0.000000	2400.00	2222.0	2222.0	2400.00	2222.0	2222.0	2.2220	2.2220	2.2220	
590	2261100.0	1476.600100	0.000000	2420.00	2228.0	2228.0	2420.00	2228.0	2228.0	2.2280	2.2280	2.2280	
595	2366400.0	1545.000100	0.000000										

Thermodynamics Cengel Study Guide

Michael A. Boles, Yunus A. Cengel, Dr.



Thermodynamics Cengel Study Guide:

A Conceptual Guide to Thermodynamics Bill Poirier, 2014-07-16 Thermodynamics is the science that describes the behavior of matter at the macroscopic scale and how this arises from individual molecules. As such, it is a subject of profound practical and fundamental importance to many science and engineering fields. Despite extremely varied applications ranging from nanomotors to cosmology, the core concepts of thermodynamics such as equilibrium and entropy are the same across all disciplines. *A Conceptual Guide to Thermodynamics* serves as a concise conceptual and practical supplement to the major thermodynamics textbooks used in various fields. Presenting clear explanations of the core concepts, the book aims to improve fundamental understanding of the material as well as homework and exam performance. Distinctive features include Terminology and Notation Key: A universal translator that addresses the myriad of conventions, terminologies, and notations found across the major thermodynamics texts; Content Maps: Specific references to each major thermodynamic text by section and page number for each new concept that is introduced; Helpful Hints and Don't Try Its: Numerous useful tips for solving problems as well as warnings of common student pitfalls; Unique Explanations: Conceptually clear, mathematically fairly simple, yet also sufficiently precise and rigorous. A more extensive set of reference materials, including older and newer editions of the major textbooks as well as a number of less commonly used titles, is available online at <http://www.conceptualthermo.com>. Undergraduate and graduate students of chemistry, physics, engineering, geosciences, and biological sciences will benefit from this book, as will students preparing for graduate school entrance exams and MCATs.

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Thermodynamics and the Destruction of Resources Bhavik R. Bakshi,Timothy G. Gutowski,Dušan P. Sekulić,2011-04-11 This book is a unique multidisciplinary effort to apply rigorous thermodynamics fundamentals a disciplined scholarly approach to problems of

sustainability energy and resource uses Applying thermodynamic thinking to problems of sustainable behavior is a significant advantage in bringing order to ill defined questions with a great variety of proposed solutions some of which are more destructive than the original problem The articles are pitched at a level accessible to advanced undergraduates and graduate students in courses on sustainability sustainable engineering industrial ecology sustainable manufacturing and green engineering The timeliness of the topic and the urgent need for solutions make this book attractive to general readers and specialist researchers as well Top international figures from many disciplines including engineers ecologists economists physicists chemists policy experts and industrial ecologists among others make up the impressive list of contributors

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