

# Appendix

**TABLE A1**  
Properties of Saturated Steam

<i>t</i> (°C)	Vapor Pressure (kPa)	Specific volume (m <sup>3</sup> /kg)		Enthalpy (kJ/kg)		Entropy (kJ/kg K)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
0.01	0.611	0.0010002	206.14	0.00	2501.4	0.0000	9.1562
3	0.758	0.0010001	168.132	12.57	2506.9	0.0457	9.0773
6	0.935	0.0010001	137.734	25.20	2512.4	0.0912	9.0003
9	1.148	0.0010003	113.386	37.80	2517.9	0.1362	8.9253
12	1.402	0.0010005	93.784	50.41	2523.4	0.1806	8.8524
15	1.705	0.0010009	77.926	62.99	2528.9	0.2245	8.7814
18	2.064	0.0010014	65.038	75.58	2534.4	0.2679	8.7123
21	2.487	0.0010020	54.514	88.14	2539.9	0.3109	8.6450
24	2.985	0.0010027	45.883	100.70	2545.4	0.3534	8.5794
27	3.567	0.0010035	38.774	113.25	2550.8	0.3954	8.5156
30	4.246	0.0010043	32.894	125.79	2556.3	0.4369	8.4533
33	5.034	0.0010053	28.011	138.33	2561.7	0.4781	8.3927
36	5.947	0.0010063	23.940	150.86	2567.1	0.5188	8.3336
40	7.384	0.0010078	19.523	167.57	2574.3	0.5725	8.2570
45	9.593	0.0010099	15.258	188.45	2583.2	0.6387	8.1648
50	12.349	0.0010121	12.032	209.33	2592.1	0.7038	8.0763
55	15.758	0.0010146	9.568	230.23	2600.9	0.7679	7.9913
60	19.940	0.0010172	7.671	251.13	2609.6	0.8312	7.9096
65	25.03	0.0010199	6.197	272.06	2618.3	0.8935	7.8310
70	31.19	0.0010228	5.042	292.98	2626.8	0.9549	7.7553
75	38.58	0.0010259	4.131	313.93	2635.3	1.0155	7.6824
80	47.39	0.0010291	3.407	334.91	2643.7	1.0753	7.6122
85	57.83	0.0010325	2.828	355.90	2651.9	1.1343	7.5445
90	70.14	0.0010360	2.361	376.92	2660.1	1.1925	7.4791
95	84.55	0.0010397	1.982	397.96	2668.1	1.2500	7.4159
100	101.35	0.0010435	1.673	419.04	2676.1	1.3069	7.3549
105	120.82	0.0010475	1.419	440.15	2683.8	1.3630	7.2958
110	143.27	0.0010516	1.210	461.30	2691.5	1.4185	7.2387
115	169.06	0.0010559	1.037	482.48	2699.0	1.4734	7.1833
120	198.53	0.0010603	0.892	503.71	2706.3	1.5276	7.1296
125	232.1	0.0010649	0.771	524.99	2713.5	1.5813	7.0775
130	270.1	0.0010697	0.669	546.31	2720.5	1.6344	7.0269
135	313.0	0.0010746	0.582	567.69	2727.3	1.6870	6.9777
140	316.3	0.0010797	0.509	589.13	2733.9	1.7391	6.9299
145	415.4	0.0010850	0.446	610.63	2740.3	1.7907	6.8833
150	475.8	0.0010905	0.393	632.20	2746.5	1.8418	6.8379
155	543.1	0.0010961	0.347	653.84	2752.4	1.8925	6.7935

**TABLE A1 (continued)**

Properties of Saturated Steam

<i>t</i> (°C)	Vapor Pressure (kPa)	Specific volume (m <sup>3</sup> /kg)		Enthalpy (kJ/kg)		Entropy (kJ/kg K)	
		Liquid	Vapor	Liquid	Vapor	Liquid	Vapor
160	617.8	0.0011020	0.307	675.55	2758.1	1.9427	6.7502
165	700.5	0.0011080	0.273	697.34	2763.5	1.9925	6.7078
170	791.7	0.0011143	0.243	719.21	2768.7	2.0419	6.6663
175	892.0	0.0011207	0.217	741.17	2773.6	2.0909	6.6256
180	1002.1	0.0011274	0.194	763.22	2778.2	2.1396	6.5857
190	1254.4	0.0011414	0.157	807.62	2786.4	2.2359	6.5079
200	1553.8	0.0011565	0.127	852.45	2793.2	2.3309	6.4323
225	2548	0.0011992	0.078	966.78	2803.3	2.5639	6.2503
250	3973	0.0012512	0.050	1085.36	2801.5	2.7927	6.0730
275	5942	0.0013168	0.033	1210.07	2785.0	3.0208	5.8938
300	8581	0.0010436	0.022	1344.0	2749.0	3.2534	5.7045