

Table 2 Saturated Steam (temperature) table

Temp °C T	Sat. press. MPa P _{sat}	Specific volume m ³ /kg		Internal energy kJ/kg			Enthalpy kJ/kg			Entropy kJ/(kg.K)		
		Sat. liquid	Sat. vapour	Sat. liquid	Evap.	Sat. vapour	Sat. liquid	Evap.	Sat. vapour	Sat. liquid	Evap.	Sat. vapour
		v _f	v _g	u _f	u _{fg}	u _g	h _f	h _{fg}	h _g	s _f	s _{fg}	s _g
315	10.547	0.001472	0.016867	1415.5	1121.1	2536.6	1431.0	1283.5	2714.5	3.3982	2.1821	5.5804
320	11.274	0.001499	0.015488	1444.6	1080.9	2525.5	1461.5	1238.6	2700.1	3.4480	2.0882	5.5362
330	12.845	0.001561	0.012996	1505.3	993.7	2498.9	1525.3	1140.6	2665.9	3.5507	1.8909	5.4417
340	14.586	0.001638	0.010797	1570.3	894.3	2464.6	1594.2	1027.9	2622.0	3.6594	1.6763	5.3357
350	16.513	0.001740	0.008813	1641.9	776.6	2418.4	1670.6	893.4	2563.9	3.7777	1.4335	5.2112
360	18.651	0.001893	0.006945	1725.2	626.3	2351.5	1760.5	720.3	2481.0	3.9147	1.1379	5.0526
370	21.03	0.002213	0.004925	1844.0	384.5	2228.5	1890.5	441.6	2332.1	4.1106	0.6865	4.7971
374.14	22.09	0.003155	0.003155	2029.6	0	2029.6	2099.3	0	2099.3	4.4298	0	4.4298

Table 3 Saturated steam (pressure) table

Press kPa P	Sat. Temp. °C T _{sat}	Specific volume m ³ /kg		Internal energy kJ/kg			Enthalpy kJ/kg			Entropy kJ/(kg.K)		
		Sat. liquid	Sat. vapour	Sat. liquid	Evap.	Sat. vapour	Sat. liquid	Evap.	Sat. vapour	Sat. liquid	Evap.	Sat. vapour
		v _f	v _g	u _f	u _{fg}	u _g	h _f	h _{fg}	h _g	s _f	s _{fg}	s _g
0.6113	0.01	0.001000	206.14	0.00	2375.3	2375.3	0.01	2501.3	2501.4	0.0000	9.1562	9.1562
1.0	6.98	0.001000	129.21	29.30	2355.7	2385.0	29.30	2484.9	2514.2	0.1059	8.8697	8.9756
1.5	13.03	0.001001	87.98	54.71	2338.6	2393.3	54.71	2470.6	2525.3	0.1957	8.6322	8.8279
2.0	17.50	0.001001	67.00	73.48	2326.0	2399.5	73.48	2460.0	2533.5	0.2607	8.4629	8.7237
2.5	21.08	0.001002	54.25	88.48	2315.9	2404.4	88.49	2451.6	2540.0	0.3120	8.3311	8.6432
3.0	24.08	0.001003	45.67	101.04	2307.5	2408.5	101.05	2444.5	2545.5	0.3545	8.2231	8.5776
4.0	28.96	0.001004	34.80	121.45	2293.7	2415.2	121.46	2432.9	2554.4	0.4226	8.0520	8.4746
5.0	32.88	0.001005	28.19	137.81	2282.7	2420.5	137.82	2423.7	2561.5	0.4764	7.9187	8.3951
7.5	40.29	0.001008	19.24	168.78	2261.7	2430.5	168.79	2406.0	2576.8	0.5764	7.6750	8.2515
10	45.81	0.001010	14.67	191.82	2246.1	2437.9	191.83	2392.8	2584.7	0.6493	7.5009	8.1502
15	53.97	0.001014	10.02	225.92	2222.8	2448.7	225.94	2373.1	2599.1	0.7549	7.2536	8.0085
20	60.06	0.001017	7.649	251.38	2205.4	2456.7	251.40	2358.3	2609.7	0.8320	7.0766	7.9085
25	64.97	0.001020	6.204	271.90	2191.2	2463.1	271.93	2346.3	2618.2	0.8931	6.9383	7.8314
30	69.10	0.001022	5.229	289.20	2179.2	2468.4	289.23	2336.1	2625.3	0.9439	6.8247	7.7686
40	75.87	0.001027	3.993	317.53	2159.5	2477.0	317.58	2319.2	2636.8	1.0259	6.6441	7.6700
50	81.33	0.001030	3.240	340.44	2143.4	2483.9	340.49	2305.4	2645.9	1.0910	6.5029	7.5939
75	91.78	0.001037	2.217	384.31	2112.4	2496.7	384.39	2278.6	2663.0	1.2130	6.2434	7.4564

Table 4 Superheated steam table

T °C	v	u	h	s	v	u	h	s	v	u	h	s
	m ³ /kg	kJ/kg	kJ/kg	kJ/(kg·K)	m ³ /kg	kJ/kg	kJ/kg	kJ/(kg·K)	m ³ /kg	kJ/kg	kJ/kg	kJ/(kg·K)
	P = 2.50 MPa (223.99 °C)				P = 3.00 MPa (233.90 °C)				P = 3.50 MPa (242.60 °C)			
Sat.	0.07998	2603.1	2803.1	6.2575	0.06668	2604.1	2804.2	6.1869	0.05707	2603.7	2803.4	6.1253
225	0.08027	2605.6	2806.3	6.2639	0.07058	2644.0	2855.8	6.2872	0.05872	2623.7	2829.2	6.1749
250	0.08700	2662.6	2880.1	6.4085	0.08114	2750.1	2993.5	6.5390	0.06842	2738.0	2977.5	6.4461
300	0.09890	2761.6	3008.8	6.6438	0.09053	2843.7	3115.3	6.7428	0.07678	2835.3	3104.0	6.6579
350	0.10976	2851.9	3126.3	6.8403	0.09936	2932.8	3230.9	6.9212	0.08453	2926.4	3222.3	6.8405
400	0.12010	2939.1	3239.3	7.0148	0.10787	3020.4	3344.0	7.0834	0.09196	3015.3	3337.2	7.0052
450	0.13014	3025.5	3350.8	7.1746	0.11619	3108.0	3456.5	7.2338	0.09918	3103.0	3450.9	7.1572
500	0.13993	3112.1	3462.1	7.3234	0.12443	3285.0	3682.3	7.5085	0.11324	3282.1	3678.4	7.4339
600	0.15930	3288.0	3686.3	7.5960	0.14838	3466.5	3911.7	7.7571	0.12699	3464.3	3908.8	7.6837
700	0.17832	3468.7	3914.5	7.8435	0.16414	3653.5	4145.9	7.9862	0.14056	3651.8	4143.7	7.9134
800	0.19716	3655.3	4148.2	8.0720	0.17980	3846.5	4385.9	8.1999	0.15402	3845.0	4384.1	8.1276
900	0.21590	3847.9	4387.6	8.2853	0.19541	4045.4	4631.6	8.4009	0.16743	4044.1	4630.1	8.3288
1000	0.2346	4046.7	4633.1	8.4861	0.21098	4250.3	4883.3	8.5912	0.18080	4249.2	4881.9	8.5192
1100	0.2532	4251.5	4884.6	8.6762	0.22652	4460.9	5140.5	8.7720	0.19415	4459.8	5139.3	8.7000
1200	0.2718	4462.1	5141.7	8.8569	0.24206	4676.6	5402.8	8.9442	0.20749	4675.5	5401.7	8.8723
1300	0.2905	4677.8	5404.0	9.0291								

Table 4 Superheated steam table

T °C	v	u	h	s	v	u	h	s	v	u	h	s
	m ³ /kg	kJ/kg	kJ/kg	kJ/(kg·K)	m ³ /kg	kJ/kg	kJ/kg	kJ/(kg·K)	m ³ /kg	kJ/kg	kJ/kg	kJ/(kg·K)
	P = 4.0 MPa (250.40 °C)				P = 4.5 MPa (257.49 °C)				P = 5.0 MPa (263.99 °C)			
Sat.	0.04978	2602.3	2801.4	6.0701	0.04406	2600.1	2798.3	6.0198	0.03944	2597.1	2794.3	5.9734
275	0.05457	2667.9	2886.2	6.2285	0.04730	2650.3	2863.2	6.1401	0.04141	2631.3	2838.3	6.0544
300	0.05884	2725.3	2960.7	6.3615	0.05135	2712.0	2943.1	6.2828	0.04532	2698.0	2924.5	6.2084
350	0.06645	2826.7	3092.5	6.5821	0.05840	2817.8	3080.6	6.5131	0.05194	2808.7	3068.4	6.4493
400	0.07341	2919.9	3213.6	6.7690	0.06475	2913.3	3204.7	6.7047	0.05781	2906.6	3195.7	6.6459
450	0.08002	3010.2	3330.3	6.9363	0.07074	3005.0	3323.3	6.8746	0.06330	2999.7	3316.2	6.8186
500	0.08643	3099.5	3445.3	7.0901	0.07651	3095.3	3439.6	7.0301	0.06857	3091.0	3433.8	6.9759
600	0.09885	3279.1	3674.4	7.3688	0.08765	3276.0	3670.5	7.3110	0.07869	3273.0	3666.5	7.2589
700	0.11095	3462.1	3905.9	7.6198	0.09847	3459.9	3903.0	7.5631	0.08849	3457.6	3900.1	7.5122
800	0.12287	3650.0	4141.5	7.8502	0.10911	3648.3	4139.3	7.7942	0.09811	3646.6	4137.1	7.7440
900	0.13469	3843.6	4382.3	8.0647	0.11965	3842.2	4380.6	8.0091	0.10762	3840.7	4378.8	7.9593
1000	0.14645	4042.9	4628.7	8.2662	0.13013	4041.6	4627.2	8.2108	0.11707	4040.4	4625.7	8.1612
1100	0.15817	4248.0	4880.6	8.4567	0.14056	4246.8	4879.3	8.4015	0.12648	4245.6	4878.0	8.3520
1200	0.16987	4458.6	5138.1	8.6376	0.15098	4457.5	5136.9	8.5825	0.13587	4456.3	5135.7	8.5331
1300	0.18156	4674.3	5400.5	8.8100	0.16139	4673.1	5399.4	8.7549	0.14526	4672.0	5398.2	8.7033