Saturated Steam Table by Pressure

Basis: IAPWS IF97 industrial formulation for water and steam. Gauge pressure uses 1.01325 bar atmospheric.

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Saturated water and steam by pressure

P bar a	P bar g	T sat °C	vf L/kg	vg m³/kg	hf kJ/kg	hfg kJ/kg	hg kJ/kg	sf kJ/kg K	sg kJ/kg K
0.01		6.97	1.0001	129.183	29.30	2484.38	2513.68	0.1059	8.9749
0.02		17.50	1.0014	66.990	73.43	2459.48	2532.91	0.2606	8.7227
0.05		32.88	1.0053	28.186	137.77	2423.00	2560.77	0.4763	8.3939
0.10		45.81	1.0103	14.671	191.81	2392.07	2583.89	0.6492	8.1489
0.20		60.06	1.0171	7.6482	251.40	2357.55	2608.95	0.8320	7.9072
0.30		69.10	1.0222	5.2286	289.23	2335.32	2624.55	0.9439	7.7675
0.50		81.32	1.0299	3.2401	340.48	2304.74	2645.21	1.0910	7.5930
0.70		89.93	1.0359	2.3649	376.68	2282.74	2659.42	1.1919	7.4790
1.0		99.61	1.0431	1.6940	417.44	2257.51	2674.95	1.3026	7.3588
1.01325	0.00	99.97	1.0434	1.6733	418.99	2256.54	2675.53	1.3067	7.3544
1.5	0.49	111.35	1.0527	1.1594	467.08	2226.03	2693.11	1.4335	7.2229
2.0	0.99	120.21	1.0605	0.8857	504.68	2201.56	2706.24	1.5301	7.1269
2.5	1.49	127.41	1.0672	0.7187	535.35	2181.15	2716.50	1.6072	7.0524
3.0	1.99	133.53	1.0732	0.6058	561.46	2163.44	2724.89	1.6718	6.9916
4.0	2.99	143.61	1.0836	0.4624	604.72	2133.33	2738.06	1.7766	6.8954
5.0	3.99	151.84	1.0926	0.3748	640.19	2107.92	2748.11	1.8606	6.8206
6.0	4.99	158.83	1.1006	0.3156	670.50	2085.64	2756.14	1.9311	6.7592
7.0	5.99	164.95	1.1080	0.2728	697.14	2065.61	2762.75	1.9921	6.7070
8.0	6.99	170.41	1.1148	0.2403	721.02	2047.28	2768.30	2.0460	6.6615
9.0	7.99	175.36	1.1212	0.2149	742.72	2030.31	2773.04	2.0944	6.6212
10	8.99	179.89	1.1272	0.1943	762.68	2014.44	2777.12	2.1384	6.5850
12	10.99	187.96	1.1385	0.1632	798.50	1985.27	2783.77	2.2163	6.5217
14	12.99	195.05	1.1489	0.1408	830.13	1958.76	2788.89	2.2839	6.4675
16	14.99	201.38	1.1587	0.1237	858.61	1934.27	2792.88	2.3438	6.4200
18	16.99	207.12	1.1679	0.1104	884.61	1911.37	2795.99	2.3978	6.3776
20	18.99	212.38	1.1768	0.0996	908.62	1889.76	2798.38	2.4470	6.3392
25	23.99	223.96	1.1974	0.0799	961.98	1840.06	2802.04	2.5544	6.2560
30	28.99	233.86	1.2167	0.0667	1008.37	1794.89	2803.26	2.6456	6.1858
35	33.99	242.56	1.2350	0.0571	1049.78	1752.97	2802.74	2.7254	6.1245
40	38.99	250.36	1.2526	0.0498	1087.43	1713.47	2800.90	2.7967	6.0697
45	43.99	257.44	1.2697	0.0441	1122.14	1675.85	2798.00	2.8613	6.0198
50	48.99	263.94	1.2864	0.0394	1154.50	1639.73	2794.23	2.9207	5.9737
60	58.99	275.59	1.3193	0.0324	1213.73	1570.83	2784.56	3.0274	5.8901
70	68.99	285.83	1.3519	0.0274	1267.44	1505.13	2772.57	3.1220	5.8146
80	78.99	295.01	1.3847	0.0235	1317.08	1441.53	2758.61	3.2077	5.7448
90	88.99	303.35	1.4181	0.0205	1363.65	1379.23	2742.88	3.2866	5.6790
100	98.99	311.00	1.4526	0.0180	1407.87	1317.61	2725.47	3.3603	5.6159
120	118.99	324.68	1.5263	0.0143	1491.33	1194.26	2685.58	3.4965	5.4941
140	138.99	336.67	1.6097	0.0115	1570.88	1067.21	2638.09	3.6230	5.3730
160	158.99	347.36	1.7095	0.0093	1649.67	931.13	2580.80	3.7457	5.2463
180	178.99	356.99	1.8395	0.0075	1732.02	777.51	2509.53	3.8717	5.1055
200	198.99	365.75	2.0386	0.0059	1827.10	584.29	2411.39	4.0154	4.9299
220	218.99	373.71	2.7504	0.0036	2021.92	142.27	2164.18	4.3109	4.5308

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Notes

- Latent heat falls as pressure rises and is zero at the critical point.

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