

Steam Tables

This is the table for the properties of Saturated Steam and Saturated Water. It shows us the correlation of data for various pressures and temperatures.

Pressure kg/cm ² (g)	Pressure Kg/cm ² (abs)	Pressure Bar (abs)	Temp °K	Temp °C	Sp. Vol (Steam) m ³ /kg	Density (Steam) kg/m ³	Enthalpy of Steam 'h _g ' kcal/kg	Enthalpy of Evap 'h _{fg} ' kcal/kg	Enthalpy of Water 'h _f ' Kcal/kg	Vapour Pressure Bar (a)	Dynamic Viscosity (10) ⁻⁶ Pa s
0	1	1	373	100	1.66	0.60	640	539	100	1.02	12.28
0.1	1.13	1.12	375.94	102.79	1.53	0.66	640.77	537.77	103.00	1.12	12.37
0.2	1.23	1.22	378.37	105.22	1.41	0.71	641.66	536.21	105.45	1.22	12.46
0.3	1.33	1.32	380.64	107.49	1.31	0.76	642.49	534.74	107.74	1.32	12.53
0.4	1.43	1.41	382.77	109.62	1.22	0.82	643.26	533.36	109.90	1.41	12.61
0.5	1.53	1.51	384.79	111.64	1.15	0.87	643.98	532.04	111.94	1.51	12.68
0.6	1.63	1.61	386.70	113.55	1.08	0.92	644.65	530.78	113.87	1.61	12.74
0.7	1.73	1.71	388.51	115.36	1.02	0.98	645.29	529.58	115.71	1.71	12.81
0.8	1.83	1.81	390.24	117.09	0.97	1.03	645.89	528.42	117.47	1.81	12.87
0.9	1.93	1.91	391.90	118.75	0.93	1.08	646.47	527.32	119.15	1.91	12.92
1.0	2.03	2.01	393.49	120.34	0.88	1.13	647.01	526.25	120.76	2.01	12.98
1.2	2.23	2.20	396.48	123.33	0.81	1.24	648.02	524.22	123.80	2.20	13.08
1.4	2.43	2.40	399.26	126.11	0.75	1.34	648.95	522.32	126.64	2.40	13.18
1.6	2.63	2.60	401.86	128.71	0.69	1.44	649.81	520.52	129.29	2.60	13.27
1.8	2.83	2.80	404.31	131.16	0.65	1.55	650.60	518.82	131.78	2.80	13.36
2.0	3.03	2.99	406.62	133.47	0.61	1.65	651.34	517.20	134.14	2.99	13.44
2.2	3.23	3.19	408.81	135.66	0.57	1.75	652.03	515.65	136.38	3.19	13.52
2.4	3.43	3.39	410.89	137.74	0.54	1.85	652.68	514.17	138.52	3.39	13.59
2.6	3.63	3.59	412.88	139.73	0.51	1.95	653.29	512.74	140.55	3.59	13.66
2.8	3.83	3.78	414.78	141.63	0.49	2.05	653.87	511.37	142.50	3.78	13.72
3.0	4.03	3.98	416.60	143.45	0.46	2.15	654.41	510.04	144.38	3.98	13.79
Pressure kg/cm ² (g)	Pressure Kg/cm ² (abs)	Pressure Bar (abs)	Temp °K	Temp °C	Sp. Vol (Steam) m ³ /kg	Density (Steam) kg/m ³	Enthalpy of Steam 'h _g ' kcal/kg	Enthalpy of Evap 'h _{fg} ' kcal/kg	Enthalpy of Water 'h _f ' Kcal/kg	Vapour Pressure Bar (a)	Dynamic Viscosity (10) ⁻⁶ Pa s
3.5	4.53	4.47	420.86	147.71	0.42	2.40	655.66	506.90	148.76	4.47	13.94
4.0	5.03	4.97	424.75	151.60	0.38	2.65	656.77	503.99	152.78	4.97	14.07
4.5	5.53	5.46	428.35	155.20	0.34	2.90	657.76	501.26	156.50	5.46	14.20
5.0	6.03	5.95	431.69	158.54	0.32	3.15	658.65	498.69	159.96	5.95	14.32
5.5	6.53	6.45	434.82	161.67	0.29	3.39	659.46	496.24	163.22	6.45	14.43
6.0	7.03	6.94	437.77	164.62	0.27	3.64	660.20	493.92	166.29	6.94	14.53
6.5	7.53	7.43	440.55	167.40	0.26	3.88	660.88	491.69	169.19	7.43	14.63
7.0	8.03	7.93	443.19	170.04	0.24	4.13	661.51	489.55	171.96	7.93	14.72
7.5	8.53	8.42	445.70	172.55	0.23	4.37	662.09	487.50	174.59	8.42	14.81
8.0	9.03	8.92	448.10	174.95	0.22	4.61	662.63	485.51	177.11	8.92	14.89
8.5	9.53	9.41	450.40	177.25	0.21	4.86	663.12	483.59	179.53	9.41	14.98
9.0	10.03	9.90	452.61	179.46	0.20	5.10	663.59	481.73	181.86	9.90	15.05
9.5	10.53	10.40	454.72	181.57	0.19	5.34	664.02	479.92	184.10	10.40	15.13
10.0	11.03	10.89	456.77	183.62	0.18	5.58	664.43	478.17	186.26	10.89	15.20
10.5	11.53	11.38	458.74	185.59	0.17	5.82	664.81	476.46	188.35	11.38	15.27
11.0	12.03	11.88	460.64	187.49	0.16	6.07	665.16	474.79	190.37	11.88	15.34
11.5	12.53	12.37	462.48	189.33	0.16	6.31	665.49	473.16	192.33	12.37	15.40
12.0	13.03	12.86	464.27	191.12	0.15	6.55	665.81	471.57	194.24	12.86	15.46
12.5	13.53	13.36	466.00	192.85	0.15	6.79	666.10	470.01	196.09	13.36	15.52
13.0	14.03	13.85	467.68	194.53	0.14	7.03	666.38	468.48	197.90	13.85	15.58
13.5	14.53	14.34	469.32	196.17	0.14	7.27	666.64	466.98	199.65	14.34	15.64
14.0	15.03	14.84	470.92	197.77	0.13	7.52	666.88	465.51	201.36	14.84	15.70
Pressure kg/cm ² (g)	Pressure Kg/cm ² (abs)	Pressure Bar (abs)	Temp °K	Temp °C	Sp. Vol (Steam) m ³ /kg	Density (Steam) kg/m ³	Enthalpy of Steam 'h _g ' kcal/kg	Enthalpy of Evap 'h _{fg} ' kcal/kg	Enthalpy of Water 'h _f ' Kcal/kg	Vapour Pressure Bar (a)	Dynamic Viscosity (10) ⁻⁶ Pa s
14.5	15.53	15.33	472.47	199.32	0.13	7.76	667.11	464.07	203.04	15.33	15.75
15.0	16.03	15.82	473.98	200.83	0.13	8.00	667.33	462.66	204.67	15.82	15.81
15.5	16.53	16.32	475.46	202.31	0.12	8.24	667.53	461.26	206.27	16.32	15.86
16.0	17.03	16.81	476.91	203.76	0.12	8.48	667.72	459.89	207.83	16.81	15.91
16.5	17.53	17.30	478.32	205.17	0.11	8.72	667.90	458.54	209.36	17.30	15.96
17.0	18.03	17.80	479.70	206.55	0.11	8.97	668.07	457.21	210.86	17.80	16.01
17.5	18.53	18.29	481.05	207.90	0.11	9.21	668.23	455.90	212.32	18.29	16.06
18.0	19.03	18.78	482.37	209.22	0.11	9.45	668.38	454.61	213.76	18.78	16.10
19.0	20.03	19.77	484.94	211.79	0.10	9.93	668.65	452.08	216.57	19.77	16.20
20.0	21.03	20.76	487.41	214.26	0.10	10.42	668.89	449.62	219.27	20.76	16.28
21.0	22.03	21.75	489.79	216.64	0.09	10.91	669.10	447.21	221.89	21.74	16.37
22.0	23.03	22.73	492.08	218.93	0.09	11.39	669.28	444.86	224.42	22.73	16.45
23.0	24.03	23.72	494.31	221.16	0.08	11.88	669.43	442.55	226.88	23.72	16.53
24.0	25.03	24.71	496.46	223.31	0.08	12.37	669.56	440.30	229.26	24.71	16.61
25.0	26.03	25.69	498.54	225.39	0.08	12.86	669.67	438.08	231.59	25.69	16.68
26.0	27.03	26.68	500.57	227.42	0.07	13.35	669.76	435.91	233.85	26.68	16.76
27.0	28.03	27.67	502.54	229.39	0.07	13.84	669.83	433.78	236.05	27.67	16.83
28.0	29.03	28.65	504.45	231.30	0.07	14.33	669.88	431.68	238.20	28.65	16.90
29.0	30.03	29.64	506.32	233.17	0.07	14.83	669.91	429.61	240.30	29.64	16.97
30.0	31.03	30.63	508.14	234.99	0.07	15.32	669.93	427.57	242.35	30.63	17.03
Pressure kg/cm ² (g)	Pressure Kg/cm ² (abs)	Pressure Bar (abs)	Temp °K	Temp °C	Sp. Vol (Steam) m ³ /kg	Density (Steam) kg/m ³	Enthalpy of Steam 'h _g ' kcal/kg	Enthalpy of Evap 'h _{fg} ' kcal/kg	Enthalpy of Water 'h _f ' Kcal/kg	Vapour Pressure Bar (a)	Dynamic Viscosity (10) ⁻⁶ Pa s
31.0	32.03	31.61	509.91	236.76	0.06	15.82	669.93	425.57	244.36	31.61	17.10
32.0	33.03	32.60	511.64	238.49	0.06	16.32	669.92	423.59	246.33	32.60	17.16
33.0	34.03	33.59	513.33	240.18	0.06	16.82	669.90	421.64	248.26	33.59	17.22
34.0	35.03	34.57	514.99	241.84	0.06	17.32	669.86	419.71	250.15	34.58	17.29
35.0	36.03	35.56	516.60	243.45	0.06	17.82	669.81	417.81	252.01	35.56	17.35
36.0	37.03	36.55	518.19	245.04	0.05	18.33	669.75	415.92	253.83	36.55	17.41
37.0	38.03	37.54	519.74	246.59	0.05	18.83	669.68	414.06	255.62	37.54	17.46
38.0	39.03	38.52	521.26	248.11	0.05	19.34	669.60	412.22	257.38	38.52	17.52
39.0	40.03	39.51	522.75	249.60	0.05	19.85	669.51	410.40	259.11	39.51	17.58
40.0	41.03	40.50	524.22	251.07	0.05	20.36	669.40	408.59	260.81	40.50	17.63
41.0	42.03	41.48	525.65	252.50	0.05	20.87	669.29	406.81	262.49	41.48	17.69
42.0	43.03	42.47	527.06	253.91	0.05	21.38	669.17	405.04	264.14	42.47	17.74
43.0	44.03	43.46	528.45	255.30	0.05	21.90	669.04	403.28	265.76	43.46	17.79
44.0	45.03	44.44	529.81	256.66	0.04	22.42	668.91	401.54	267.37	44.44	17.85
45.0	46.03	45.43	531.15	258.00	0.04	22.93	668.76	399.81	268.95	45.43	17.90
46.0	47.03	46.42	532.46	259.31	0.04	23.46	668.61	398.10	270.51	46.42	17.95
47.0	48.03	47.40	533.76	260.61	0.04	23.98	668.45	396.40	272.04	47.41	18.00
48.0	49.03	48.39	535.03	261.88	0.04	24.50	668.28	394.72	273.56	48.39	18.05
49.0	50.03	49.38	536.29	263.14	0.04	25.03	668.10	393.04	275.06	49.38	18.10
50.0	51.03	50.37	537.52	264.37	0.04	25.56	667.92	391.38	276.54	50.37	18.15

[Back to top](#)