

PROPERTIES OF WATER AT VARIOUS TEMPERATURES

Properties of Water at Various Temperatures from 32° to 705.4° F

Temp F	Temp C	Specific Gravity 60° F Reference	Wt. in Lb/Cu Ft	Vapor Pressure PSI Abs	Vapor Pressure* Feet Abs (at Temp)
32	0.0	1.002	62.42	0.0885	0.204
40	4.4	1.001	62.42	0.1217	0.281
45	7.2	1.001	62.40	0.1475	0.340
50	10.0	1.001	62.38	0.1781	0.411
55	12.8	1.000	62.36	0.2141	0.494
60	15.6	1.000	62.34	0.2563	0.591
65	18.3	0.999	62.31	0.3056	0.706
70	21.1	0.999	62.27	0.3631	0.839
75	23.9	0.998	62.24	0.4298	0.994
80	26.7	0.998	62.19	0.5069	1.172
85	29.4	0.997	62.16	0.5959	1.379
90	32.2	0.996	62.11	0.6982	1.617
95	35.0	0.995	62.06	0.8153	1.890
100	37.8	0.994	62.00	0.9492	2.203
110	43.3	0.992	61.84	1.275	2.965
120	48.9	0.990	61.73	1.692	3.943
130	54.4	0.987	61.54	2.223	5.196
140	60.0	0.985	61.39	2.889	6.766
150	65.6	0.982	61.20	3.718	8.735
160	71.1	0.979	61.01	4.741	11.172
170	76.7	0.975	60.79	5.992	14.178
180	82.2	0.972	60.57	7.510	17.825
190	87.8	0.968	60.35	9.339	22.257
200	93.3	0.964	60.13	11.526	27.584
212	100.0	0.959	59.81	14.696	35.353
220	104.4	0.956	59.63	17.186	41.343
240	115.6	0.948	59.10	24.97	60.77
260	126.7	0.939	58.51	35.43	60.77
280	137.8	0.929	58.00	49.20	122.18
300	148.9	0.919	57.31	67.01	168.22
320	160.0	0.909	56.66	89.66	227.55
340	171.1	0.898	55.96	118.01	303.17
360	182.2	0.886	55.22	153.04	398.49
380	193.3	0.874	54.47	195.77	516.75
400	204.4	0.860	53.65	247.31	663.42
420	215.6	0.847	52.80	308.83	841.17
440	226.7	0.833	51.92	381.59	1056.8
460	237.8	0.818	51.02	466.9	1317.8
480	248.9	0.802	50.00	566.1	1628.4
500	260.0	0.786	49.02	680.8	1998.2
520	271.1	0.766	47.85	812.4	2446.7
540	282.2	0.747	46.51	962.5	2972.5
560	293.3	0.727	45.3	1133.1	3595.7
580	304.4	0.704	43.9	1325.8	4345.0
600	315.6	0.679	42.3	1542.9	5242.0
620	326.7	0.650	40.5	1786.6	6341.0
640	337.8	0.618	38.5	2059.7	7689.0
660	34839.0	0.577	36.0	2365.4	9458.0
680	360.0	0.526	32.8	2708.1	11878.0
700	371.1	0.435	27.1	3093.7	16407.0
705.4	374.1	0.319	19.9	3206.2	23187.0

* Vapor pressure in feet of water (Abs.) converted from PSIA using sp. gr. at temperature.