



Vapor Pressure of Water

Note: If the dew/frost point is known, the table will yield the partial water vapor pressure (P_w) in mm of Hg. If the ambient or actual gas temperature is known, the table will yield the saturated water vapor pressure (P_s) in mm of Hg.

Temp.	Water Vapor Pressure Over Ice				
°C	mm of Hg				
	0	2	4	6	8
-90°	0.000070	0.000048	0.000033	0.000022	0.000015
-80°	0.0004	0.00029	0.0002	0.00014	0.0001
-70°	0.00194	0.00143	0.00105	0.00077	0.00056
-60°	0.00808	0.00614	0.00464	0.00349	0.00261
-50°	0.02955	0.023	0.0178	0.0138	0.0106
-40°	0.0966	0.0768	0.0609	0.0481	0.0378
-30°	0.2859	0.2318	0.1873	0.1507	0.1209
°C	0.0	0.2	0.4	0.6	0.8
-29°	0.317	0.311	0.304	0.298	0.292
-28°	0.351	0.344	0.337	0.330	0.324
-27°	0.389	0.381	0.374	0.366	0.359
-26°	0.430	0.422	0.414	0.405	0.397
-25°	0.476	0.467	0.457	0.448	0.439
-24°	0.526	0.515	0.505	0.495	0.486
-23°	0.580	0.569	0.558	0.547	0.536
-22°	0.640	0.627	0.615	0.603	0.592
-21°	0.705	0.691	0.678	0.665	0.652
-20°	0.776	0.761	0.747	0.733	0.719
-19°	0.854	0.838	0.822	0.806	0.791
-18°	0.939	0.921	0.904	0.887	0.870
-17°	1.031	1.012	0.993	0.975	0.956
-16°	1.132	1.111	1.091	1.070	1.051
-15°	1.241	1.219	1.196	1.175	1.153
-14°	1.361	1.336	1.312	1.288	1.264
-13°	1.490	1.464	1.437	1.411	1.386
-12°	1.632	1.602	1.574	1.546	1.518
-11°	1.785	1.753	1.722	1.691	1.661
-10°	1.950	1.916	1.883	1.849	1.817
-9°	2.131	2.093	2.057	2.021	1.985
-8°	2.326	2.285	2.246	2.207	2.168
-7°	2.537	2.493	2.450	2.408	2.367
-6°	2.765	2.718	2.672	2.626	2.581
-5°	3.013	2.962	2.912	2.862	2.813
-4°	3.280	3.225	3.171	3.117	3.065
-3°	3.568	3.509	3.451	3.393	3.336
-2°	3.880	3.816	3.753	3.691	3.630
-1°	4.217	4.147	4.079	4.012	3.946
0°	4.579	4.504	4.431	4.359	4.287



Vapor Pressure of Water (cont.)

Temp.	Aqueous Vapor Pressure Over Water				
°C	mm of Hg				
	0.0	0.2	0.4	0.6	0.8
0°	4.579	4.647	4.715	4.785	4.855
1°	4.926	4.998	5.070	5.144	5.219
2°	5.294	5.370	5.447	5.525	5.605
3°	5.685	5.766	5.848	5.931	6.015
4°	6.101	6.187	6.274	6.363	6.453
5°	6.543	6.635	6.728	6.822	6.917
6°	7.013	7.111	7.209	7.309	7.411
7°	7.513	7.617	7.722	7.828	7.936
8°	8.045	8.155	8.267	8.380	8.494
9°	8.609	8.727	8.845	8.965	9.086
10°	9.209	9.333	9.458	9.585	9.714
11°	9.844	9.976	10.109	10.244	10.380
12°	10.518	10.658	10.799	10.941	11.085
13°	11.231	11.379	11.528	11.680	11.833
14°	11.987	12.144	12.302	12.462	12.624
15°	12.788	12.953	13.121	13.290	13.461
16°	13.634	13.809	13.987	14.166	14.347
17°	14.530	14.715	14.903	15.092	15.284
18°	15.477	15.673	15.871	16.071	16.272
19°	16.477	16.685	16.894	17.105	17.319
20°	17.535	17.753	17.974	18.197	18.422
21°	18.650	18.880	19.133	19.349	19.587
22°	19.827	20.070	20.316	20.565	20.815
23°	21.068	21.324	21.583	21.845	22.110
24°	22.377	22.648	22.922	23.198	23.476
25°	23.756	24.039	24.326	24.617	24.912
26°	25.209	25.509	25.812	26.117	26.426
27°	26.739	27.055	27.374	27.696	28.021
28°	28.349	28.680	29.015	29.354	29.697
29°	30.043	30.392	30.745	31.102	31.461
30°	31.824	32.191	32.561	32.934	33.312
31°	33.695	34.082	34.471	34.864	35.261
32°	35.663	36.068	36.477	36.891	37.308
33°	37.729	38.155	38.584	39.018	39.457
34°	39.898	40.344	40.796	41.251	41.710
35°	42.175	42.644	43.117	43.595	44.078
36°	44.563	45.054	45.549	46.050	46.556
37°	47.067	47.582	48.102	48.627	49.157
38°	49.692	50.231	50.744	51.323	51.879
39°	52.442	53.009	53.580	54.136	54.737
40°	55.324	55.910	56.510	57.110	57.720
41°	58.340	58.960	59.580	60.220	60.860
42°	61.500	62.140	62.800	63.460	64.120



Vapor Pressure of Water (cont.)

Temp.	Aqueous Vapor Pressure Over Water				
°C	mm of Hg				
	0.0	0.2	0.4	0.6	0.8
43°	64.800	65.480	66.160	66.860	67.560
44°	68.260	68.970	69.690	70.410	71.140
45°	71.880	72.620	73.360	74.120	74.880
46°	75.650	76.430	77.210	78.000	78.800
47°	79.600	80.410	81.230	82.050	82.870
48°	83.710	84.560	85.420	86.280	87.140
49°	88.020	88.900	89.790	90.690	91.590
50°	92.510	93.500	94.400	95.300	96.300
51°	97.200	98.200	99.100	100.10	101.10
52°	102.09	103.10	104.10	105.10	106.20
53°	107.20	108.20	109.30	110.40	111.40
54°	112.51	113.60	114.70	115.80	116.90
55°	118.04	119.10	120.30	121.50	122.60
56°	123.80	125.00	126.20	127.40	128.60
57°	129.82	131.00	132.30	133.50	134.70
58°	136.08	137.30	138.50	139.90	141.20
59°	142.60	143.90	145.20	146.60	148.00
60°	149.38	150.70	152.10	153.50	155.00
61°	156.43	157.80	159.30	160.80	162.30
62°	163.77	165.20	166.80	168.30	169.80
63°	171.38	172.90	174.50	176.10	177.70
64°	179.31	180.90	182.50	184.20	185.80
65°	187.54	189.20	190.90	192.60	194.30
66°	196.09	197.80	199.50	201.30	203.10
67°	204.96	206.80	208.60	210.50	212.30
68°	214.17	216.00	218.00	219.90	221.80
69°	223.73	225.70	227.70	229.70	231.70
70°	233.70	235.70	237.70	239.70	241.80
71°	243.90	246.00	248.20	250.30	252.40
72°	254.60	256.80	259.00	261.20	263.40
73°	265.70	268.00	270.20	272.60	274.80
74°	277.20	279.40	281.80	284.20	286.60
75°	289.10	291.50	294.00	296.40	298.80
76°	301.40	303.80	306.40	308.90	311.40
77°	314.10	316.60	319.20	322.00	324.60
78°	327.30	330.00	332.80	335.60	338.20
79°	341.00	343.80	346.60	349.40	352.20
80°	355.10	358.00	361.00	363.80	366.80
81°	369.70	372.60	375.60	378.80	381.80
82°	384.90	388.00	391.20	394.40	397.40
83°	400.60	403.80	407.00	410.20	413.60
84°	416.80	420.20	423.60	426.80	430.20
85°	433.60	437.00	440.40	444.00	447.50



Vapor Pressure of Water (cont.)

Temp.	Aqueous Vapor Pressure Over Water				
°C	mm of Hg				
	0.0	0.2	0.4	0.6	0.8
86°	450.90	454.40	458.00	461.60	465.20
87°	468.70	472.40	476.00	479.80	483.40
88°	487.10	491.00	494.70	498.50	502.20
89°	506.10	510.00	513.90	517.80	521.80
90°	525.76	529.77	533.80	537.86	541.95
91°	546.05	550.18	554.35	558.53	562.75
92°	566.99	571.26	575.55	579.87	584.22
93°	588.60	593.00	597.43	601.89	606.38
94°	610.90	615.44	620.01	624.61	629.24
95°	633.90	638.59	643.30	648.05	652.82
96°	657.62	662.45	667.31	672.20	677.12
97°	682.07	687.04	692.05	697.10	702.17
98°	707.27	712.40	717.56	722.75	727.98
99°	733.24	738.53	743.85	749.20	754.58
100°	760.00	765.45	770.93	776.44	782.00
101°	787.57	793.18	798.82	804.50	810.21