

Properties of water extracted from NISTIR 5078  
based on the IAPWS formulation 1995

T(°C)	Pressure (kPa)	Specific Enthalpy kJ/kg	Specific Entropy (kJ/(kg K))	Specific Volume (cm <sup>3</sup> /g)
0	100	0.06	-0.00015	1.00016
5	100	21.12	0.07625	1.00003
10	100	42.12	0.15108	1.0003
15	100	63.08	0.22445	1.0009
20	100	84.01	0.29646	1.0018
25	100	104.92	0.36720	1.00296
30	100	125.82	0.43673	1.00437
35	100	146.72	0.50510	1.006
40	100	167.62	0.57237	1.00785
45	100	188.51	0.63858	1.00988
50	100	209.42	0.70377	1.01211
55	100	230.33	0.76798	1.01452
60	100	251.25	0.83125	1.01709
65	100	272.18	0.89361	1.01984
70	100	293.12	0.95509	1.02274
75	100	314.08	1.0157	1.02581
80	100	335.05	1.0755	1.02903
85	100	356.05	1.1346	1.03241
90	100	377.06	1.1928	1.03594
95	100	398.1	1.2504	1.03962
100	100	2675.8	7.3610	1695.9
105	100	2686.1	7.3885	1720.4
110	100	2696.3	7.4155	1744.7
115	100	2706.5	7.4418	1769.0
120	100	2716.6	7.4678	1793.2
125	100	2726.7	7.4932	1817.2
130	100	2736.7	7.5183	1841.2
135	100	2746.7	7.5429	1865.2
140	100	2756.7	7.5672	1889.1
145	100	2766.7	7.5911	1912.9
150	100	2776.7	7.6148	1936.7
155	100	2786.5	7.6380	1960.4
160	100	2796.4	7.6610	1984.1
165	100	2806.3	7.6838	2007.7
170	100	2816.2	7.7062	2031.3
175	100	2826.1	7.7284	2054.9

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180	100	2836.0	7.7503	2078.5
185	100	2845.8	7.7719	2102.0
190	100	2855.7	7.7934	2125.5
195	100	2865.6	7.8146	2149.0
200	100	2875.5	7.8356	2172.4
210	100	2895.2	7.8769	2219.3
220	100	2915.0	7.9174	2266.1
230	100	2934.8	7.9572	2312.8
240	100	2954.6	7.9962	2359.5
250	100	2974.5	8.0346	2406.2
260	100	2994.4	8.0723	2452.8
270	100	3014.4	8.1094	2499.3
280	100	3034.4	8.1459	2545.9
290	100	3054.4	8.1818	2592.4
300	100	3074.5	8.2172	2638.8

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T(°C)	Pressure (kPa)	Specific Enthalpy kJ/kg	Specific Entropy (kJ/(kg K))	Specific Volume (cm <sup>3</sup> /g)
0	200	0.16	-0.00014	1.00011
5	200	21.22	0.07625	0.99998
10	200	42.22	0.15107	1.00025
15	200	63.17	0.22443	1.00085
20	200	84.1	0.29644	1.00175
25	200	105.01	0.36717	1.00292
30	200	125.91	0.43670	1.00433
35	200	146.81	0.50506	1.00596
40	200	167.7	0.57233	1.00780
45	200	188.6	0.63853	1.00984
50	200	209.5	0.70372	1.01207
55	200	230.41	0.76793	1.01447
60	200	251.33	0.83120	1.01705
65	200	272.26	0.89355	1.01979
70	200	293.2	0.95503	1.02270
75	200	314.16	1.0157	1.02576
80	200	335.13	1.0755	1.02898
85	200	356.13	1.1345	1.03236
90	200	377.14	1.1928	1.03589
95	200	398.2	1.2503	1.03957
100	200	419.2	1.3071	1.04341
105	200	440.3	1.3633	1.04740
110	200	461.5	1.4188	1.05155
115	200	482.6	1.4736	1.05586
120	200	503.8	1.5279	1.06032
125	200	2716.6	7.1531	897.81
130	200	2727.3	7.1797	910.37
135	200	2737.8	7.2058	922.84
140	200	2748.3	7.2313	935.24
145	200	2758.7	7.2564	947.58
150	200	2769.1	7.2810	959.86
155	200	2779.4	7.3052	972.08
160	200	2789.7	7.3290	984.26
165	200	2799.9	7.3525	996.40
170	200	2810.1	7.3756	1008.5
175	200	2820.2	7.3984	1020.6

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T(°C)	Pressure (kPa)	Specific Enthalpy kJ/kg	Specific Entropy (kJ/(kg K))	Specific Volume (cm <sup>3</sup> /g)
180	200	2830.4	7.4209	1032.6
185	200	2840.5	7.4431	1044.6
190	200	2850.6	7.4650	1056.6
195	200	2860.7	7.4867	1068.5
200	200	2870.7	7.5081	1080.5
210	200	2890.8	7.5501	1104.3
220	200	2910.9	7.5913	1128.0
230	200	2931.0	7.6316	1151.7
240	200	2951.1	7.6712	1175.3
250	200	2971.2	7.7100	1198.9
260	200	2991.3	7.7480	1222.4
270	200	3011.5	7.7855	1245.9
280	200	3031.6	7.8223	1269.4
290	200	3051.8	7.8584	1292.8
300	200	3072.1	7.8941	1316.2

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T(°C)	Pressure (kPa)	Specific Enthalpy kJ/kg	Specific Entropy (kJ/(kg K))	Specific Volume (cm <sup>3</sup> /g)
0	300	0.26	-0.00013	1.00006
5	300	21.32	0.07625	0.99994
10	300	42.31	0.15106	1.00020
15	300	63.27	0.22442	1.00081
20	300	84.19	0.29642	1.00170
25	300	105.10	0.36715	1.00287
30	300	126.00	0.43666	1.00428
35	300	146.90	0.50503	1.00591
40	300	167.79	0.57229	1.00776
45	300	188.69	0.63849	1.00980
50	300	209.59	0.70368	1.01202
55	300	230.50	0.76788	1.01443
60	300	251.42	0.83114	1.01700
65	300	272.34	0.89350	1.01974
70	300	293.29	0.95497	1.02265
75	300	314.24	1.0156	1.02571
80	300	335.21	1.0754	1.02893
85	300	356.20	1.1344	1.03231
90	300	377.22	1.1927	1.03584
95	300	398.25	1.2502	1.03952
100	300	419.32	1.3071	1.04336
105	300	440.41	1.3632	1.04735
110	300	461.53	1.4187	1.05150
115	300	482.69	1.4736	1.05580
120	300	503.88	1.5278	1.06027
125	300	525.12	1.5815	1.06490
130	300	546.40	1.6346	1.06969
135	300	2728.2	6.9998	608.33
140	300	2739.4	7.0269	616.97
145	300	2750.3	7.0533	625.53
150	300	2761.2	7.0791	634.01
155	300	2771.9	7.1044	642.44
160	300	2782.6	7.1291	650.81
165	300	2793.2	7.1534	659.13
170	300	2803.7	7.1773	667.42
175	300	2814.2	7.2008	675.66

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180	300	2824.6	7.2239	683.87
185	300	2835.0	7.2467	692.05
190	300	2845.3	7.2691	700.20
195	300	2855.6	7.2913	708.32
200	300	2865.9	7.3131	716.42
210	300	2886.4	7.3560	732.56
220	300	2906.8	7.3978	748.62
230	300	2927.2	7.4387	764.61
240	300	2947.5	7.4788	780.55
250	300	2967.9	7.5180	796.44
260	300	2988.2	7.5565	812.29
270	300	3008.5	7.5943	828.10
280	300	3028.5	7.6314	843.88
290	300	3049.2	7.6678	859.62
300	300	3069.6	7.7037	875.34

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T(°C)	Pressure (kPa)	Specific Enthalpy kJ/kg	Specific Entropy (kJ/(kg K))	Specific Volume (cm <sup>3</sup> /g)
0	1000	0.98	-0.00009	0.99970
5	1000	22.01	0.07624	0.99959
10	1000	42.99	0.15100	0.99987
15	1000	63.94	0.22431	1.00048
20	1000	84.85	0.29628	1.00138
25	1000	105.75	0.36697	1.00255
30	1000	126.64	0.43645	1.00397
35	1000	147.53	0.50478	1.00560
40	1000	168.41	0.57202	1.00744
45	1000	189.30	0.63819	1.00948
50	1000	210.19	0.70335	1.01171
55	1000	231.09	0.76753	1.01411
60	1000	252.00	0.83077	1.01669
65	1000	272.92	0.89310	1.01943
70	1000	293.86	0.95455	1.02233
75	1000	314.81	1.0152	1.02539
80	1000	335.77	1.0750	1.02860
85	1000	356.75	1.1340	1.03197
90	1000	377.76	1.1922	1.03550
95	1000	398.79	1.2497	1.03917
100	1000	419.84	1.3065	1.04300
105	1000	440.92	1.3626	1.04699
110	1000	462.04	1.4181	1.05112
115	1000	483.19	1.4729	1.05542
120	1000	504.38	1.5272	1.05987
125	1000	525.60	1.5808	1.06449
130	1000	546.88	1.6339	1.06927
135	1000	568.20	1.6865	1.07423
140	1000	589.58	1.7386	1.07935
145	1000	611.01	1.7901	1.08466
150	1000	632.50	1.8412	1.09015
155	1000	654.06	1.8919	1.09583
160	1000	675.70	1.9421	1.10171
165	1000	697.41	1.9919	1.10780
170	1000	719.20	2.0414	1.11410
175	1000	741.08	2.0905	1.12063
180	1000	2777.40	6.58570	194.44

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185	1000	2790.70	6.61480	197.42
190	1000	2803.50	6.64270	200.34
195	1000	2816.00	6.66950	203.20
200	1000	2828.30	6.69550	206.02
210	1000	2852.20	6.74560	211.56
220	1000	2875.50	6.79340	216.98
230	1000	2898.40	6.83930	222.31
240	1000	2920.90	6.88360	227.56
250	1000	2943.10	6.92650	232.75
260	1000	2965.10	6.96810	237.88
270	1000	2986.90	7.00870	242.96
280	1000	3008.60	7.04820	248.01
290	1000	3030.20	7.08680	253.01
300	1000	3051.60	7.12460	257.99