Water Density and Viscosity Table

Basis: IAPWS IF97 for density and specific heat, IAPWS 2008 for viscosity and IAPWS 2011 for thermal conductivity, at 1.01325 bar (saturated liquid at 100 °C).

instrumentationblog.in/downloads/engineering-reference-tables/water-density-viscosity-table/

Properties of water at 1.01325 bar

T °C	Density kg/m³	SG (to 4 °C)	Viscosity mPa·s (cP)	Kinematic mm²/s (cSt)	cp kJ/kg K	k W/m K
0.01	999.84	0.9999	1.7911	1.7914	4.219	0.5557
5	999.97	1.0000	1.5182	1.5182	4.205	0.5678
10	999.70	0.9997	1.3059	1.3063	4.195	0.5788
15	999.10	0.9991	1.1376	1.1386	4.189	0.5888
20	998.21	0.9982	1.0016	1.0034	4.185	0.5980
25	997.05	0.9971	0.8900	0.8927	4.182	0.6065
30	995.65	0.9957	0.7972	0.8007	4.180	0.6144
35	994.04	0.9941	0.7191	0.7234	4.179	0.6217
40	992.22	0.9923	0.6527	0.6578	4.179	0.6285
45	990.22	0.9903	0.5958	0.6017	4.179	0.6348
50	988.05	0.9881	0.5465	0.5531	4.180	0.6406
55	985.71	0.9857	0.5036	0.5109	4.181	0.6460
60	983.21	0.9832	0.4660	0.4740	4.183	0.6510
65	980.57	0.9806	0.4329	0.4415	4.185	0.6556
70	977.78	0.9778	0.4036	0.4127	4.188	0.6598
75	974.86	0.9749	0.3774	0.3872	4.192	0.6636
80	971.80	0.9718	0.3541	0.3643	4.196	0.6670
85	968.62	0.9687	0.3331	0.3439	4.200	0.6701
90	965.32	0.9653	0.3142	0.3255	4.205	0.6728
95	961.90	0.9619	0.2971	0.3089	4.211	0.6752
100	958.35	0.9584	0.2816	0.2938	4.217	0.6772

Notes

- Water is densest at about 4 °C (999.97 kg/m³).
- 1 mPa·s = 1 cP and 1 mm²/s = 1 cSt.

Free download from instrumentationblog.in. Check values against the current edition of the standard for design work.