

Physical characteristics of water (at the atmospheric pressure)

| Temperature (T) | Pressure (P) | Saturation pressure (P _{sat}) | Density (ρ) | Specific enthalpy (h _f) | | Specific heat (C _p) | | Dynamic viscosity (μ) |
|--------------------|-----------------|---|-------------------|--|---------|------------------------------------|---------|-----------------------------|
| °C | Pa | Pa | kg/m ³ | kJ/kg | kcal/kg | kJ/kg | kcal/kg | N.s/m ² |
| 0.00 | 101325 | 611 | 999.82 | 0.06 | 0.01 | 4.217 | 1.007 | 0.001792 |
| 1.00 | 101325 | 657 | 999.89 | 4.28 | 1.02 | 4.213 | 1.006 | 0.001731 |
| 2.00 | 101325 | 705 | 999.94 | 8.49 | 2.03 | 4.210 | 1.006 | 0.001674 |
| 3.00 | 101325 | 757 | 999.98 | 12.70 | 3.03 | 4.207 | 1.005 | 0.001620 |
| 4.00 | 101325 | 813 | 1000.00 | 16.90 | 4.04 | 4.205 | 1.004 | 0.001569 |
| 5.00 | 101325 | 872 | 1000.00 | 21.11 | 5.04 | 4.202 | 1.004 | 0.001520 |
| 6.00 | 101325 | 935 | 999.99 | 25.31 | 6.04 | 4.200 | 1.003 | 0.001473 |
| 7.00 | 101325 | 1001 | 999.96 | 29.51 | 7.05 | 4.198 | 1.003 | 0.001429 |
| 8.00 | 101325 | 1072 | 999.91 | 33.70 | 8.05 | 4.196 | 1.002 | 0.001386 |
| 9.00 | 101325 | 1147 | 999.85 | 37.90 | 9.05 | 4.194 | 1.002 | 0.001346 |
| 10.00 | 101325 | 1227 | 999.77 | 42.09 | 10.05 | 4.192 | 1.001 | 0.001308 |
| 11.00 | 101325 | 1312 | 999.68 | 46.28 | 11.05 | 4.191 | 1.001 | 0.001271 |
| 12.00 | 101325 | 1402 | 999.58 | 50.47 | 12.06 | 4.189 | 1.001 | 0.001236 |
| 13.00 | 101325 | 1497 | 999.46 | 54.66 | 13.06 | 4.188 | 1.000 | 0.001202 |
| 14.00 | 101325 | 1597 | 999.33 | 58.85 | 14.06 | 4.187 | 1.000 | 0.001170 |
| 15.00 | 101325 | 1704 | 999.19 | 63.04 | 15.06 | 4.186 | 1.000 | 0.001139 |
| 16.00 | 101325 | 1817 | 999.03 | 67.22 | 16.06 | 4.185 | 1.000 | 0.001109 |
| 17.00 | 101325 | 1936 | 998.86 | 71.41 | 17.06 | 4.184 | 0.999 | 0.001081 |
| 18.00 | 101325 | 2063 | 998.68 | 75.59 | 18.05 | 4.183 | 0.999 | 0.001054 |
| 19.00 | 101325 | 2196 | 998.49 | 79.77 | 19.05 | 4.182 | 0.999 | 0.001028 |
| 20.00 | 101325 | 2337 | 998.29 | 83.95 | 20.05 | 4.182 | 0.999 | 0.001003 |
| 21.00 | 101325 | 2486 | 998.08 | 88.14 | 21.05 | 4.181 | 0.999 | 0.000979 |
| 22.00 | 101325 | 2642 | 997.86 | 92.32 | 22.05 | 4.181 | 0.999 | 0.000955 |
| 23.00 | 101325 | 2808 | 997.62 | 96.50 | 23.05 | 4.180 | 0.998 | 0.000933 |
| 24.00 | 101325 | 2982 | 997.38 | 100.68 | 24.05 | 4.180 | 0.998 | 0.000911 |
| 25.00 | 101325 | 3166 | 997.13 | 104.86 | 25.04 | 4.180 | 0.998 | 0.000891 |
| 26.00 | 101325 | 3360 | 996.86 | 109.04 | 26.04 | 4.179 | 0.998 | 0.000871 |
| 27.00 | 101325 | 3564 | 996.59 | 113.22 | 27.04 | 4.179 | 0.998 | 0.000852 |
| 28.00 | 101325 | 3779 | 996.31 | 117.39 | 28.04 | 4.179 | 0.998 | 0.000833 |
| 29.00 | 101325 | 4004 | 996.02 | 121.57 | 29.04 | 4.179 | 0.998 | 0.000815 |
| 30.00 | 101325 | 4242 | 995.71 | 125.75 | 30.04 | 4.178 | 0.998 | 0.000798 |
| 31.00 | 101325 | 4491 | 995.41 | 129.93 | 31.03 | 4.178 | 0.998 | 0.000781 |
| 32.00 | 101325 | 4754 | 995.09 | 134.11 | 32.03 | 4.178 | 0.998 | 0.000765 |
| 33.00 | 101325 | 5029 | 994.76 | 138.29 | 33.03 | 4.178 | 0.998 | 0.000749 |
| 34.00 | 101325 | 5318 | 994.43 | 142.47 | 34.03 | 4.178 | 0.998 | 0.000734 |
| 35.00 | 101325 | 5622 | 994.08 | 146.64 | 35.03 | 4.178 | 0.998 | 0.000720 |

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|--------------------|-----------------|---|-------------------|--|---------|------------------------------------|---------|-----------------------------|
| | | | | KJ/kg | kcal/kg | KJ/kg | kcal/kg | |
| °C | Pa | Pa | kg/m ³ | | | | | N.s/m ² |
| 36.00 | 101325 | 5940 | 993.73 | 150.82 | 36.02 | 4.178 | 0.998 | 0.000705 |
| 37.00 | 101325 | 6274 | 993.37 | 155.00 | 37.02 | 4.178 | 0.998 | 0.000692 |
| 38.00 | 101325 | 6624 | 993.00 | 159.18 | 38.02 | 4.178 | 0.998 | 0.000678 |
| 39.00 | 101325 | 6991 | 992.63 | 163.36 | 39.02 | 4.179 | 0.998 | 0.000666 |
| 40.00 | 101325 | 7375 | 992.25 | 167.54 | 40.02 | 4.179 | 0.998 | 0.000653 |
| 41.00 | 101325 | 7777 | 991.86 | 171.71 | 41.01 | 4.179 | 0.998 | 0.000641 |
| 42.00 | 101325 | 8198 | 991.46 | 175.89 | 42.01 | 4.179 | 0.998 | 0.000629 |
| 43.00 | 101325 | 8639 | 991.05 | 180.07 | 43.01 | 4.179 | 0.998 | 0.000618 |
| 44.00 | 101325 | 9100 | 990.64 | 184.25 | 44.01 | 4.179 | 0.998 | 0.000607 |
| 45.00 | 101325 | 9582 | 990.22 | 188.43 | 45.01 | 4.180 | 0.998 | 0.000596 |
| 46.00 | 101325 | 10085 | 989.80 | 192.61 | 46.00 | 4.180 | 0.998 | 0.000586 |
| 47.00 | 101325 | 10612 | 989.36 | 196.79 | 47.00 | 4.180 | 0.998 | 0.000576 |
| 48.00 | 101325 | 11161 | 988.92 | 200.97 | 48.00 | 4.180 | 0.998 | 0.000566 |
| 49.00 | 101325 | 11735 | 988.47 | 205.15 | 49.00 | 4.181 | 0.999 | 0.000556 |
| 50.00 | 101325 | 12335 | 988.02 | 209.33 | 50.00 | 4.181 | 0.999 | 0.000547 |
| 51.00 | 101325 | 12960 | 987.56 | 213.51 | 51.00 | 4.181 | 0.999 | 0.000538 |
| 52.00 | 101325 | 13612 | 987.09 | 217.69 | 52.00 | 4.182 | 0.999 | 0.000529 |
| 53.00 | 101325 | 14292 | 986.62 | 221.88 | 52.99 | 4.182 | 0.999 | 0.000521 |
| 54.00 | 101325 | 15001 | 986.14 | 226.06 | 53.99 | 4.182 | 0.999 | 0.000512 |
| 55.00 | 101325 | 15740 | 985.65 | 230.24 | 54.99 | 4.183 | 0.999 | 0.000504 |
| 56.00 | 101325 | 16510 | 985.16 | 234.42 | 55.99 | 4.183 | 0.999 | 0.000496 |
| 57.00 | 101325 | 17312 | 984.66 | 238.61 | 56.99 | 4.183 | 0.999 | 0.000489 |
| 58.00 | 101325 | 18146 | 984.16 | 242.79 | 57.99 | 4.184 | 0.999 | 0.000481 |
| 59.00 | 101325 | 19015 | 983.64 | 246.97 | 58.99 | 4.184 | 0.999 | 0.000474 |
| 60.00 | 101325 | 19919 | 983.13 | 251.16 | 59.99 | 4.185 | 0.999 | 0.000467 |
| 61.00 | 101325 | 20859 | 982.60 | 255.34 | 60.99 | 4.185 | 1.000 | 0.000460 |
| 62.00 | 101325 | 21837 | 982.07 | 259.53 | 61.99 | 4.186 | 1.000 | 0.000453 |
| 63.00 | 101325 | 22854 | 981.54 | 263.72 | 62.99 | 4.186 | 1.000 | 0.000447 |
| 64.00 | 101325 | 23910 | 981.00 | 267.90 | 63.99 | 4.187 | 1.000 | 0.000440 |
| 65.00 | 101325 | 25008 | 980.45 | 272.09 | 64.99 | 4.187 | 1.000 | 0.000434 |
| 66.00 | 101325 | 26148 | 979.90 | 276.28 | 65.99 | 4.188 | 1.000 | 0.000428 |
| 67.00 | 101325 | 27332 | 979.34 | 280.46 | 66.99 | 4.188 | 1.000 | 0.000422 |
| 68.00 | 101325 | 28561 | 978.78 | 284.65 | 67.99 | 4.189 | 1.000 | 0.000416 |
| 69.00 | 101325 | 29837 | 978.21 | 288.84 | 68.99 | 4.189 | 1.001 | 0.000410 |
| 70.00 | 101325 | 31161 | 977.63 | 293.03 | 69.99 | 4.190 | 1.001 | 0.000404 |
| 71.00 | 101325 | 32533 | 977.05 | 297.22 | 70.99 | 4.190 | 1.001 | 0.000399 |
| 72.00 | 101325 | 33957 | 976.47 | 301.41 | 71.99 | 4.191 | 1.001 | 0.000394 |
| 73.00 | 101325 | 35433 | 975.88 | 305.60 | 72.99 | 4.192 | 1.001 | 0.000388 |

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|--------------------|-----------------|---|-------------------|--|---------|------------------------------------|---------|-----------------------------|
| | | | | KJ/kg | kcal/kg | KJ/kg | kcal/kg | |
| °C | Pa | Pa | kg/m ³ | | | | | N.s/m ² |
| 74.00 | 101325 | 36963 | 975.28 | 309.79 | 73.99 | 4.192 | 1.001 | 0.000383 |
| 75.00 | 101325 | 38548 | 974.68 | 313.99 | 74.99 | 4.193 | 1.001 | 0.000378 |
| 76.00 | 101325 | 40190 | 974.08 | 318.18 | 76.00 | 4.194 | 1.002 | 0.000373 |
| 77.00 | 101325 | 41890 | 973.46 | 322.37 | 77.00 | 4.194 | 1.002 | 0.000369 |
| 78.00 | 101325 | 43650 | 972.85 | 326.57 | 78.00 | 4.195 | 1.002 | 0.000364 |
| 79.00 | 101325 | 45473 | 972.23 | 330.76 | 79.00 | 4.196 | 1.002 | 0.000359 |
| 80.00 | 101325 | 47359 | 971.60 | 334.96 | 80.00 | 4.196 | 1.002 | 0.000355 |
| 81.00 | 101325 | 49310 | 970.97 | 339.16 | 81.01 | 4.197 | 1.002 | 0.000351 |
| 82.00 | 101325 | 51328 | 970.33 | 343.35 | 82.01 | 4.198 | 1.003 | 0.000346 |
| 83.00 | 101325 | 53415 | 969.69 | 347.55 | 83.01 | 4.199 | 1.003 | 0.000342 |
| 84.00 | 101325 | 55572 | 969.04 | 351.75 | 84.01 | 4.200 | 1.003 | 0.000338 |
| 85.00 | 101325 | 57803 | 968.39 | 355.95 | 85.02 | 4.200 | 1.003 | 0.000334 |
| 86.00 | 101325 | 60107 | 967.73 | 360.15 | 86.02 | 4.201 | 1.003 | 0.000330 |
| 87.00 | 101325 | 62488 | 967.07 | 364.35 | 87.02 | 4.202 | 1.004 | 0.000326 |
| 88.00 | 101325 | 64947 | 966.41 | 368.56 | 88.03 | 4.203 | 1.004 | 0.000322 |
| 89.00 | 101325 | 67486 | 965.74 | 372.76 | 89.03 | 4.204 | 1.004 | 0.000319 |
| 90.00 | 101325 | 70108 | 965.06 | 376.96 | 90.04 | 4.205 | 1.004 | 0.000315 |
| 91.00 | 101325 | 72814 | 964.38 | 381.17 | 91.04 | 4.206 | 1.005 | 0.000311 |
| 92.00 | 101325 | 75607 | 963.70 | 385.38 | 92.05 | 4.207 | 1.005 | 0.000308 |
| 93.00 | 101325 | 78488 | 963.01 | 389.58 | 93.05 | 4.208 | 1.005 | 0.000304 |
| 94.00 | 101325 | 81460 | 962.31 | 393.79 | 94.06 | 4.209 | 1.005 | 0.000301 |
| 95.00 | 101325 | 84525 | 961.62 | 398.00 | 95.06 | 4.210 | 1.006 | 0.000298 |
| 96.00 | 101325 | 87685 | 960.91 | 402.21 | 96.07 | 4.211 | 1.006 | 0.000295 |
| 97.00 | 101325 | 90943 | 960.20 | 406.42 | 97.07 | 4.212 | 1.006 | 0.000291 |
| 98.00 | 101325 | 94301 | 959.49 | 410.64 | 98.08 | 4.213 | 1.006 | 0.000288 |
| 99.00 | 101325 | 97760 | 958.78 | 414.85 | 99.09 | 4.214 | 1.007 | 0.000285 |
| 100.00 | 101325 | 101325 | 958.05 | 419.06 | 100.09 | 4.216 | 1.007 | 0.000282 |