



THE UNIVERSITY
OF AUCKLAND

FACULTY OF ENGINEERING

Department of Engineering Science



GEO THERMAL
P R O G R A M

Thermodynamic and transport properties of

Saturated Steam and Water

Prepared by:

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2010

Nomenclature

| | | |
|--------|---|--|
| C_p | Specific heat capacity at constant pressure | $\text{kJ} / \text{kg} \cdot \text{K}$ |
| h | Specific enthalpy | kJ / kg |
| k | Thermal conductivity | $\text{W} / \text{m} \cdot \text{K}$ |
| s | Specific entropy | $\text{kJ} / \text{kg} \cdot \text{K}$ |
| P | Pressure | bar |
| T | Temperature | $^{\circ}\text{C}$ |
| ρ | Density | kg / m^3 |
| μ | Dynamic viscosity | $\text{kg} / \text{m} \cdot \text{s} = \text{N} \cdot \text{s} / \text{m}^2$ |

Subscript

| | |
|------|--------------------------------------|
| f | Property of the saturated liquid |
| g | Property of the saturated gas |
| fg | Change in property with phase change |
| s | Saturation temperature or pressure |

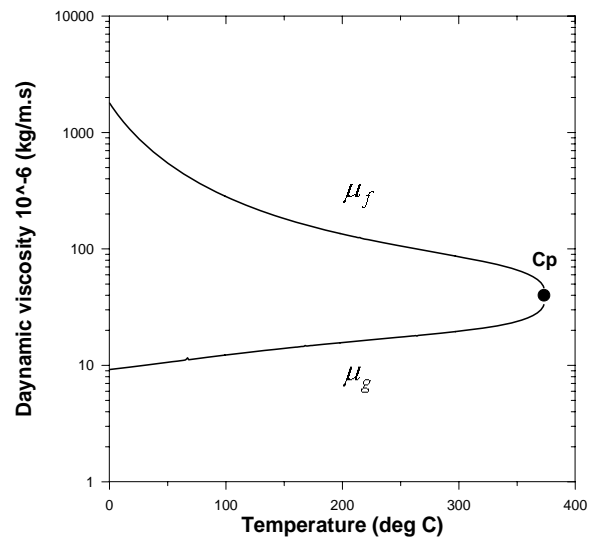
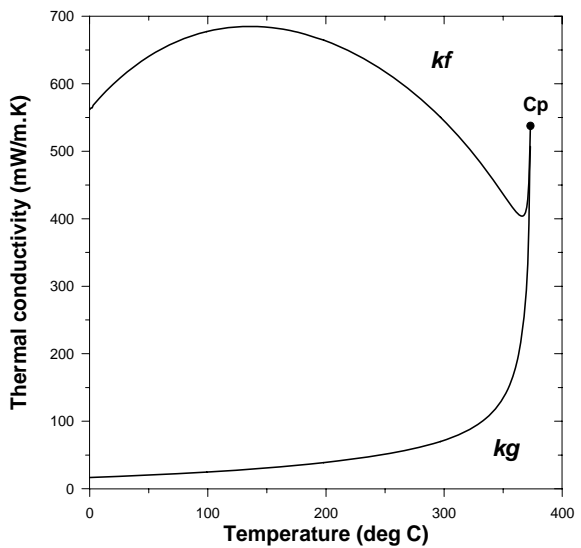
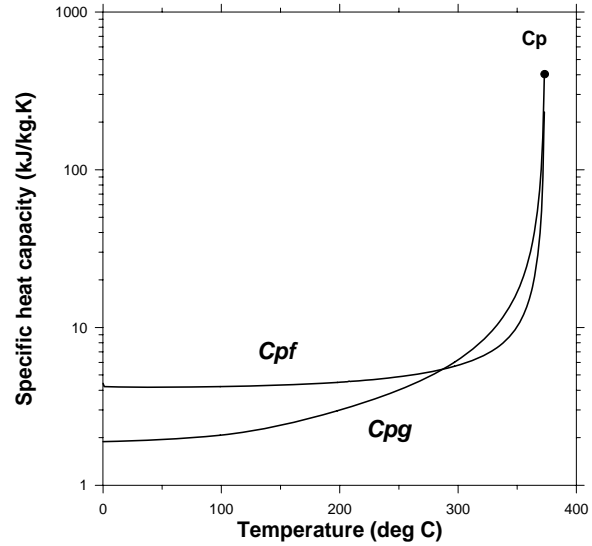
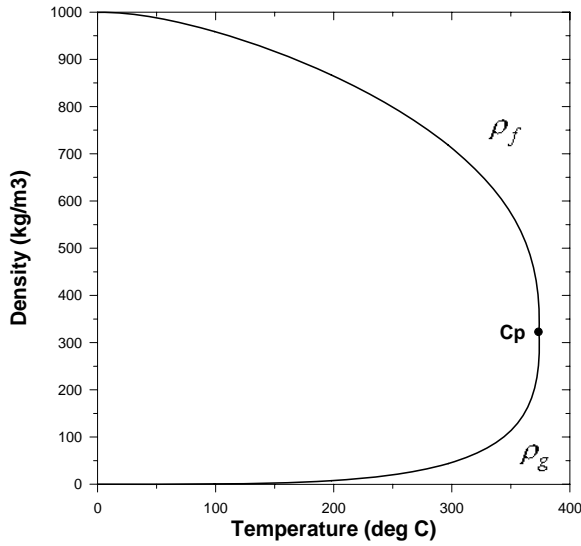
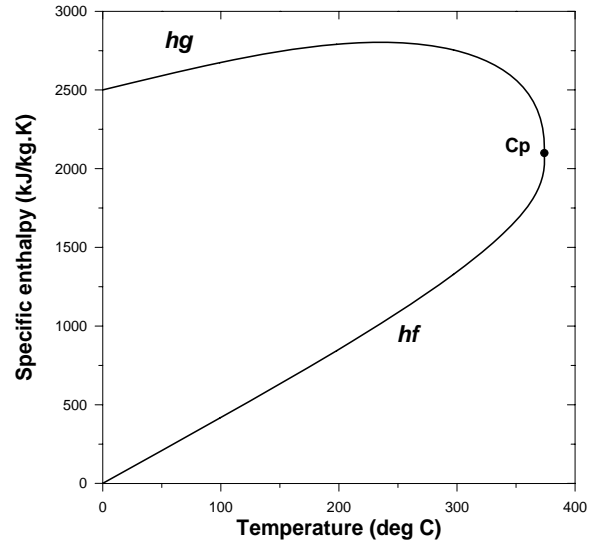
Other property definitions

| | | | |
|-------------|---------------------|-----------------------|--------------------------|
| ν | Kinematic viscosity | (μ / ρ) | m^2 / s |
| v | Specific volume | $(1 / \rho)$ | m^3 / kg |
| Pr | Prandtl number | $(C_p \cdot \mu / k)$ | dimensionless |

Water and Steam Properties

Function of

Temperature



Saturated Water and Steam (Temperature Table)

S. Zarrouk & A. Watson (2010)

| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 0.01 [†] | 0.006116 | 0 2500.9 2500.9 | 0 9.155 9.155 | 999.79 0.0048 | 4.419 1.888 | 562.0 16.49 | 1792.0 9.22 |
| 1 | 0.00657 | 4.2 2498.6 2502.7 | 0.015 9.114 9.129 | 999.85 0.0052 | 4.216 1.889 | 564.1 16.56 | 1732.2 9.24 |
| 2 | 0.00706 | 8.4 2496.2 2504.6 | 0.031 9.072 9.103 | 999.89 0.0056 | 4.213 1.890 | 564.2 16.64 | 1674.7 9.26 |
| 3 | 0.00758 | 12.6 2493.8 2506.4 | 0.046 9.031 9.076 | 999.92 0.0060 | 4.211 1.890 | 568.2 16.71 | 1620.1 9.29 |
| 4 | 0.00814 | 16.8 2491.4 2508.2 | 0.061 8.989 9.051 | 999.93 0.0064 | 4.208 1.891 | 570.3 16.78 | 1568.4 9.31 |
| 5 | 0.00873 | 21.0 2489.1 2510.1 | 0.076 8.949 9.025 | 999.92 0.0068 | 4.205 1.892 | 572.3 16.85 | 1519.2 9.34 |
| 6 | 0.00935 | 25.2 2486.7 2511.9 | 0.091 8.908 8.999 | 999.89 0.0073 | 4.203 1.892 | 574.3 16.92 | 1472.5 9.36 |
| 7 | 0.01002 | 29.4 2484.3 2513.7 | 0.106 8.868 8.974 | 999.86 0.0078 | 4.201 1.893 | 576.2 17.00 | 1428.0 9.38 |
| 8 | 0.01073 | 33.6 2481.9 2515.6 | 0.121 8.828 8.949 | 999.80 0.0083 | 4.199 1.894 | 578.1 17.07 | 1385.6 9.41 |
| 9 | 0.01148 | 37.8 2479.6 2517.4 | 0.136 8.788 8.924 | 999.74 0.0088 | 4.197 1.895 | 580.0 17.14 | 1345.2 9.44 |
| 10 | 0.01228 | 42.0 2477.2 2519.2 | 0.151 8.749 8.900 | 999.65 0.0094 | 4.196 1.896 | 581.9 17.21 | 1306.7 9.46 |
| 11 | 0.01313 | 46.2 2474.8 2521.1 | 0.166 8.710 8.876 | 999.56 0.0100 | 4.194 1.897 | 583.8 17.29 | 1269.9 9.49 |
| 12 | 0.01403 | 50.4 2472.5 2522.9 | 0.181 8.671 8.851 | 999.45 0.0107 | 4.193 1.898 | 585.6 17.36 | 1234.8 9.51 |
| 13 | 0.01498 | 54.6 2470.1 2524.7 | 0.195 8.632 8.828 | 999.33 0.0114 | 4.192 1.898 | 587.4 17.43 | 1201.2 9.54 |
| 14 | 0.01599 | 58.8 2467.7 2526.5 | 0.210 8.594 8.804 | 999.20 0.0121 | 4.191 1.899 | 589.2 17.51 | 1169.0 9.56 |
| 15 | 0.01706 | 63.0 2465.4 2528.4 | 0.224 8.556 8.780 | 999.05 0.0128 | 4.189 1.900 | 591.0 17.58 | 1138.2 9.59 |
| 16 | 0.01819 | 67.2 2463.0 2530.2 | 0.239 8.518 8.757 | 998.90 0.0136 | 4.188 1.901 | 592.7 17.65 | 1108.7 9.62 |
| 17 | 0.01938 | 71.4 2460.6 2532.0 | 0.253 8.481 8.734 | 998.73 0.0145 | 4.187 1.902 | 594.4 17.73 | 1080.4 9.64 |
| 18 | 0.02065 | 75.5 2458.3 2533.8 | 0.268 8.443 8.711 | 998.55 0.0154 | 4.187 1.904 | 596.1 17.80 | 1053.3 9.67 |
| 19 | 0.02198 | 79.7 2455.9 2535.7 | 0.282 8.406 8.689 | 998.36 0.0163 | 4.186 1.905 | 597.8 17.88 | 1027.2 9.7 |
| 20 | 0.02339 | 83.9 2453.6 2537.5 | 0.297 8.370 8.666 | 998.16 0.0173 | 4.185 1.906 | 599.5 17.95 | 1002.1 9.73 |
| 21 | 0.02488 | 88.1 2451.2 2539.3 | 0.311 8.333 8.644 | 997.95 0.0184 | 4.184 1.907 | 601.1 18.03 | 978.1 9.75 |
| 22 | 0.02645 | 92.3 2448.8 2541.1 | 0.325 8.297 8.622 | 997.73 0.0194 | 4.184 1.908 | 602.7 18.10 | 954.9 9.78 |
| 23 | 0.02811 | 96.5 2446.4 2542.9 | 0.339 8.261 8.600 | 997.50 0.0206 | 4.183 1.909 | 604.3 18.18 | 932.6 9.81 |
| 24 | 0.02986 | 100.7 2444.1 2544.7 | 0.353 8.225 8.578 | 997.26 0.0218 | 4.183 1.910 | 605.9 18.25 | 911.2 9.84 |
| 25 | 0.03170 | 104.8 2441.7 2546.5 | 0.367 8.190 8.557 | 997.00 0.0231 | 4.182 1.912 | 607.5 18.33 | 890.5 9.87 |
| 26 | 0.03364 | 109.0 2439.3 2548.4 | 0.381 8.154 8.535 | 996.74 0.0244 | 4.182 1.913 | 609.0 18.40 | 870.6 9.89 |
| 27 | 0.03568 | 113.2 2437.0 2550.2 | 0.395 8.119 8.514 | 996.47 0.0258 | 4.181 1.914 | 610.5 18.48 | 851.4 9.92 |
| 28 | 0.03783 | 117.4 2434.6 2552.0 | 0.409 8.084 8.493 | 996.19 0.0273 | 4.181 1.915 | 612.1 18.55 | 832.9 9.95 |
| 29 | 0.04009 | 121.6 2432.2 2553.8 | 0.423 8.050 8.473 | 995.91 0.0288 | 4.181 1.917 | 613.5 18.63 | 815.0 9.98 |
| 30 | 0.04247 | 125.7 2429.8 2555.6 | 0.437 8.015 8.452 | 995.61 0.0304 | 4.180 1.918 | 615.0 18.71 | 797.7 10.01 |
| 31 | 0.04497 | 129.9 2427.5 2557.4 | 0.451 7.981 8.432 | 995.30 0.0321 | 4.180 1.919 | 616.4 18.78 | 781.0 10.04 |
| 32 | 0.04759 | 134.1 2425.1 2559.2 | 0.464 7.947 8.411 | 994.99 0.0339 | 4.180 1.921 | 617.8 18.86 | 764.9 10.07 |
| 33 | 0.05035 | 138.3 2422.7 2561.0 | 0.478 7.913 8.391 | 994.67 0.0357 | 4.180 1.922 | 619.2 18.94 | 749.3 10.1 |
| 34 | 0.05325 | 142.5 2420.3 2562.8 | 0.492 7.880 8.372 | 994.34 0.0376 | 4.179 1.923 | 620.6 19.01 | 734.2 10.13 |
| 35 | 0.05629 | 146.6 2417.9 2564.6 | 0.505 7.847 8.352 | 994.00 0.0397 | 4.179 1.925 | 622.0 19.09 | 719.6 10.16 |
| 36 | 0.05947 | 150.8 2415.6 2566.4 | 0.519 7.814 8.332 | 993.65 0.0418 | 4.179 1.926 | 623.3 19.17 | 705.5 10.19 |
| 37 | 0.06282 | 155.0 2413.2 2568.2 | 0.532 7.781 8.313 | 993.30 0.0440 | 4.179 1.928 | 624.7 19.25 | 691.8 10.22 |
| 38 | 0.06632 | 159.2 2410.8 2570.0 | 0.546 7.748 8.294 | 992.93 0.0463 | 4.179 1.929 | 626.0 19.32 | 678.5 10.25 |

[†] triple point

Saturated Water and Steam (Temperature Table)

S. Zarrouk & A. Watson (2010)

| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 39 | 0.07000 | 163.4 2408.4 2571.8 | 0.559 7.716 8.275 | 992.56 0.0487 | 4.179 1.931 | 627.3 19.40 | 665.9 10.208 |
| 40 | 0.07384 | 167.5 2406.0 2573.5 | 0.572 7.683 8.256 | 992.18 0.0512 | 4.179 1.932 | 628.6 19.48 | 653.2 10.31 |
| 41 | 0.07787 | 171.7 2403.6 2575.3 | 0.586 7.651 8.237 | 991.80 0.0539 | 4.179 1.934 | 629.8 19.56 | 641.2 10.34 |
| 42 | 0.08209 | 175.9 2401.2 2577.1 | 0.599 7.619 8.218 | 991.41 0.0566 | 4.179 1.935 | 631.1 19.64 | 629.4 10.37 |
| 43 | 0.08650 | 180.1 2398.8 2578.9 | 0.612 7.588 8.200 | 991.01 0.0595 | 4.179 1.937 | 632.3 19.72 | 618.1 10.4 |
| 44 | 0.09112 | 184.3 2396.4 2580.7 | 0.625 7.556 8.182 | 990.60 0.0625 | 4.179 1.938 | 633.5 19.80 | 607.0 10.43 |
| 45 | 0.09594 | 188.4 2394.0 2582.5 | 0.639 7.525 8.163 | 990.18 0.0656 | 4.179 1.940 | 634.7 19.88 | 596.3 10.46 |
| 46 | 0.10099 | 192.6 2391.6 2584.2 | 0.652 7.494 8.145 | 989.76 0.0688 | 4.179 1.942 | 635.9 19.96 | 585.9 10.49 |
| 47 | 0.10626 | 196.8 2389.2 2586.0 | 0.665 7.463 8.128 | 989.33 0.0722 | 4.179 1.943 | 637.1 20.04 | 575.7 10.52 |
| 48 | 0.11176 | 201.0 2386.8 2587.8 | 0.678 7.432 8.110 | 988.90 0.0757 | 4.179 1.945 | 638.2 20.12 | 566.6 10.55 |
| 49 | 0.11751 | 205.2 2384.4 2589.5 | 0.691 7.401 8.092 | 988.46 0.0793 | 4.180 1.947 | 639.3 20.20 | 556.3 10.58 |
| 50 | 0.12351 | 209.3 2382.0 2591.3 | 0.704 7.371 8.075 | 988.01 0.0831 | 4.180 1.948 | 640.5 20.28 | 547.0 10.62 |
| 51 | 0.12977 | 213.5 2379.6 2593.1 | 0.717 7.341 8.058 | 987.55 0.0871 | 4.180 1.950 | 641.6 20.36 | 538.0 10.65 |
| 52 | 0.13631 | 217.7 2377.1 2594.8 | 0.730 7.311 8.040 | 987.09 0.0912 | 4.180 1.952 | 642.6 20.44 | 529.2 10.68 |
| 53 | 0.14312 | 221.9 2374.7 2596.6 | 0.742 7.281 8.023 | 986.63 0.0955 | 4.180 1.953 | 643.7 20.52 | 520.6 10.71 |
| 54 | 0.15022 | 226.1 2372.3 2598.4 | 0.755 7.251 8.007 | 986.15 0.0999 | 4.181 1.955 | 644.8 20.61 | 512.3 10.74 |
| 55 | 0.15761 | 230.2 2369.9 2600.1 | 0.768 7.222 7.990 | 985.67 0.1045 | 4.181 1.957 | 645.8 20.69 | 504.1 10.77 |
| 56 | 0.16532 | 234.4 2367.4 2601.9 | 0.781 7.193 7.973 | 985.18 0.1093 | 4.181 1.959 | 646.8 20.77 | 496.2 10.81 |
| 57 | 0.17335 | 238.6 2365.0 2603.6 | 0.793 7.163 7.957 | 984.69 0.1143 | 4.182 1.961 | 647.8 20.85 | 488.5 10.84 |
| 58 | 0.18171 | 242.8 2362.6 2605.4 | 0.806 7.134 7.940 | 984.19 0.1195 | 4.182 1.963 | 648.8 20.94 | 481.0 10.87 |
| 59 | 0.19041 | 247.0 2360.1 2607.1 | 0.819 7.106 7.924 | 983.69 0.1249 | 4.183 1.964 | 649.8 21.02 | 473.7 10.9 |
| 60 | 0.19946 | 251.2 2357.7 2608.8 | 0.831 7.077 7.908 | 983.18 0.1304 | 4.183 1.966 | 650.8 21.10 | 466.5 10.93 |
| 61 | 0.20887 | 255.3 2355.2 2610.6 | 0.844 7.048 7.892 | 982.66 0.1362 | 4.183 1.968 | 651.7 21.19 | 459.6 10.97 |
| 62 | 0.21866 | 259.5 2352.8 2612.3 | 0.856 7.020 7.876 | 982.14 0.1422 | 4.184 1.970 | 652.6 21.27 | 452.8 11 |
| 63 | 0.22884 | 263.7 2350.3 2614.1 | 0.869 6.992 7.861 | 981.61 0.1484 | 4.183 1.972 | 653.6 21.36 | 446.2 11.03 |
| 64 | 0.23942 | 267.9 2347.9 2615.8 | 0.881 6.964 7.845 | 981.07 0.1548 | 4.185 1.974 | 654.5 21.44 | 439.7 11.06 |
| 65 | 0.25041 | 272.1 2345.4 2617.5 | 0.894 6.936 7.830 | 980.53 0.1615 | 4.185 1.976 | 655.3 21.53 | 433.4 11.1 |
| 66 | 0.26183 | 276.3 2343.0 2619.2 | 0.906 6.908 7.814 | 979.99 0.1683 | 4.186 1.979 | 656.2 21.61 | 427.2 11.3 |
| 67 | 0.27368 | 280.5 2340.5 2621.0 | 0.918 6.881 7.799 | 979.44 0.1755 | 4.186 1.981 | 657.1 21.70 | 421.2 11.6 |
| 68 | 0.28599 | 284.6 2338.0 2622.7 | 0.931 6.853 7.784 | 978.88 0.1829 | 4.187 1.983 | 657.9 21.79 | 415.3 11.19 |
| 69 | 0.29876 | 288.8 2335.6 2624.4 | 0.943 6.826 7.769 | 978.32 0.1905 | 4.188 1.985 | 658.8 21.87 | 409.6 11.23 |
| 70 | 0.31201 | 293.0 2333.1 2626.1 | 0.955 6.799 7.754 | 977.75 0.1984 | 4.188 1.987 | 659.6 21.96 | 404.0 11.26 |
| 71 | 0.32575 | 297.2 2330.6 2627.8 | 0.967 6.772 7.739 | 977.18 0.2066 | 4.189 1.990 | 660.4 22.05 | 398.5 11.29 |
| 72 | 0.34000 | 301.4 2328.1 2629.5 | 0.979 6.745 7.725 | 976.60 0.2151 | 4.190 1.992 | 661.2 22.14 | 393.2 11.33 |
| 73 | 0.35478 | 305.6 2325.6 2631.2 | 0.991 6.719 7.710 | 976.01 0.2238 | 4.190 1.994 | 661.9 22.23 | 388.0 11.36 |
| 74 | 0.37009 | 309.8 2323.1 2632.9 | 1.004 6.692 7.696 | 975.42 0.2328 | 4.191 1.997 | 662.7 22.32 | 382.8 11.39 |
| 75 | 0.38595 | 314.0 2320.6 2634.6 | 1.016 6.666 7.681 | 974.83 0.2422 | 4.192 1.999 | 663.4 22.41 | 377.8 11.42 |
| 76 | 0.40239 | 318.2 2318.1 2636.3 | 1.028 6.639 7.667 | 974.23 0.2518 | 4.192 2.002 | 664.2 22.50 | 373.0 11.46 |
| 77 | 0.41941 | 322.4 2315.6 2638.0 | 1.040 6.613 7.653 | 973.62 0.2618 | 4.193 2.004 | 664.9 22.59 | 368.2 11.49 |
| 78 | 0.43703 | 326.6 2313.1 2639.7 | 1.052 6.587 7.639 | 973.01 0.2721 | 4.193 2.007 | 665.6 22.68 | 364.9 11.52 |
| 79 | 0.45527 | 330.8 2310.6 2641.3 | 1.063 6.561 7.625 | 972.40 0.2827 | 4.195 2.009 | 666.3 22.77 | 358.9 11.56 |

Saturated Water and Steam (Temperature Table)

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| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 80 | 0.47415 | 334.9 2308.1 2643.0 | 1.075 6.536 7.611 | 971.78 0.2937 | 4.196 2.012 | 667.0 22.86 | 354.4 11.59 |
| 81 | 0.49368 | 339.1 2305.5 2644.7 | 1.087 6.510 7.597 | 971.15 0.3050 | 4.196 2.015 | 667.6 22.95 | 350.1 11.62 |
| 82 | 0.51387 | 343.3 2303.0 2646.4 | 1.099 6.485 7.584 | 970.52 0.3166 | 4.197 2.017 | 668.3 23.04 | 345.8 11.66 |
| 83 | 0.53476 | 347.5 2300.5 2648.0 | 1.111 6.459 7.570 | 969.89 0.3287 | 4.198 2.020 | 668.9 23.14 | 341.6 11.69 |
| 84 | 0.55636 | 351.7 2297.9 2649.7 | 1.123 6.434 7.557 | 969.25 0.3411 | 4.199 2.023 | 669.5 23.23 | 337.5 11.73 |
| 85 | 0.57867 | 355.9 2295.4 2651.3 | 1.134 6.409 7.543 | 968.60 0.3539 | 4.200 2.026 | 670.1 23.32 | 333.4 11.76 |
| 86 | 0.60174 | 360.1 2292.8 2653.0 | 1.146 6.384 7.530 | 967.95 0.3670 | 4.201 2.029 | 670.7 23.42 | 329.5 11.79 |
| 87 | 0.62556 | 364.4 2290.3 2654.6 | 1.158 6.359 7.517 | 967.30 0.3806 | 4.202 2.032 | 671.3 23.51 | 325.6 11.83 |
| 88 | 0.65017 | 368.6 2287.7 2656.3 | 1.169 6.334 7.504 | 966.64 0.3946 | 4.203 2.035 | 671.9 23.61 | 321.8 11.86 |
| 89 | 0.67559 | 372.8 2285.1 2657.9 | 1.181 6.310 7.491 | 965.97 0.4090 | 4.204 2.038 | 672.5 23.70 | 318.1 11.89 |
| 90 | 0.70182 | 377.0 2282.6 2659.5 | 1.193 6.285 7.478 | 965.31 0.4239 | 4.205 2.042 | 673.0 23.80 | 314.5 11.93 |
| 91 | 0.72890 | 381.2 2280.0 2661.2 | 1.204 6.261 7.465 | 964.63 0.4392 | 4.206 2.045 | 673.5 23.90 | 310.9 11.96 |
| 92 | 0.75685 | 385.4 2277.4 2662.8 | 1.216 6.237 7.453 | 963.95 0.4549 | 4.207 2.048 | 674.1 23.99 | 307.4 12 |
| 93 | 0.78568 | 389.6 2274.8 2664.4 | 1.227 6.213 7.440 | 963.27 0.4711 | 4.208 2.052 | 674.6 24.09 | 304.0 12.03 |
| 94 | 0.81542 | 393.8 2272.2 2666.0 | 1.239 6.189 7.427 | 962.58 0.4877 | 4.209 2.055 | 675.1 24.19 | 300.7 12.06 |
| 95 | 0.84609 | 398.0 2269.6 2667.6 | 1.250 6.165 7.415 | 961.89 0.5049 | 4.211 2.059 | 675.5 24.29 | 297.4 12.1 |
| 96 | 0.87771 | 402.2 2267.0 2669.2 | 1.262 6.141 7.403 | 961.19 0.5225 | 4.212 2.062 | 676.0 24.39 | 294.1 12.13 |
| 97 | 0.91031 | 406.4 2264.4 2670.8 | 1.273 6.117 7.390 | 960.49 0.5406 | 4.213 2.066 | 676.5 24.49 | 291.0 12.17 |
| 98 | 0.94390 | 410.7 2261.7 2672.4 | 1.284 6.094 7.378 | 959.78 0.5593 | 4.214 2.070 | 676.9 24.59 | 287.9 12.2 |
| 99 | 0.97852 | 414.9 2259.1 2674.0 | 1.296 6.070 7.366 | 959.07 0.5784 | 4.215 2.074 | 677.3 24.69 | 284.8 12.23 |
| 100 | 1.01418 | 419.1 2256.5 2675.6 | 1.307 6.047 7.354 | 958.35 0.5981 | 4.217 2.077 | 677.8 24.79 | 281.8 12.27 |
| 101 | 1.051 | 423.3 2253.8 2677.1 | 1.318 6.024 7.342 | 957.63 0.6184 | 4.218 2.081 | 678.2 24.90 | 278.9 12.3 |
| 102 | 1.089 | 427.5 2251.2 2678.7 | 1.330 6.001 7.330 | 956.91 0.6392 | 4.219 2.086 | 678.6 25.00 | 276.0 12.34 |
| 103 | 1.128 | 431.8 2248.5 2680.3 | 1.341 5.978 7.318 | 956.18 0.6605 | 4.221 2.090 | 678.9 25.10 | 273.2 12.37 |
| 104 | 1.168 | 436.0 2245.9 2681.8 | 1.352 5.955 7.307 | 955.45 0.6825 | 4.222 2.094 | 679.3 25.21 | 270.4 12.41 |
| 105 | 1.209 | 440.2 2243.2 2683.4 | 1.363 5.932 7.295 | 954.71 0.7050 | 4.223 2.098 | 679.7 25.31 | 267.7 12.44 |
| 106 | 1.251 | 444.4 2240.5 2684.9 | 1.374 5.909 7.284 | 953.97 0.7281 | 4.225 2.103 | 680.0 25.42 | 265.0 12.47 |
| 107 | 1.295 | 448.7 2237.8 2686.5 | 1.385 5.887 7.272 | 953.22 0.7518 | 4.226 2.107 | 680.3 25.52 | 262.6 12.51 |
| 108 | 1.340 | 452.9 2235.1 2688.0 | 1.397 5.864 7.261 | 952.47 0.7762 | 4.227 2.112 | 680.7 25.63 | 259.8 12.54 |
| 109 | 1.386 | 457.1 2232.4 2689.5 | 1.408 5.842 7.249 | 951.71 0.8012 | 4.229 2.116 | 681.0 25.74 | 257.2 12.58 |
| 110 | 1.434 | 461.4 2229.7 2691.1 | 1.419 5.819 7.238 | 950.95 0.8269 | 4.230 2.121 | 681.3 25.85 | 254.8 12.61 |
| 111 | 1.483 | 465.6 2227.0 2692.6 | 1.430 5.797 7.227 | 950.19 0.8532 | 4.232 2.126 | 681.6 25.95 | 253.1 12.65 |
| 112 | 1.533 | 469.8 2224.3 2694.1 | 1.441 5.775 7.216 | 949.42 0.8802 | 4.233 2.131 | 681.8 26.06 | 249.9 12.68 |
| 113 | 1.584 | 474.1 2221.5 2695.6 | 1.452 5.753 7.205 | 948.64 0.9078 | 4.235 2.136 | 682.1 26.17 | 247.5 12.71 |
| 114 | 1.637 | 478.3 2218.8 2697.1 | 1.463 5.731 7.194 | 947.86 0.9362 | 4.236 2.141 | 682.4 26.28 | 245.2 12.75 |
| 115 | 1.692 | 482.6 2216.0 2698.6 | 1.474 5.709 7.183 | 947.08 0.9653 | 4.238 2.146 | 682.6 26.40 | 242.9 12.78 |
| 116 | 1.748 | 486.8 2213.3 2700.1 | 1.484 5.687 7.172 | 946.30 0.9951 | 4.240 2.152 | 682.8 26.51 | 240.7 12.82 |
| 117 | 1.805 | 491.0 2210.5 2701.5 | 1.495 5.666 7.161 | 945.50 1.0257 | 4.241 2.157 | 683.0 26.62 | 238.5 12.85 |
| 118 | 1.864 | 495.3 2207.7 2703.0 | 1.506 5.644 7.150 | 944.71 1.0570 | 4.243 2.163 | 683.2 26.73 | 236.3 12.89 |
| 119 | 1.925 | 499.5 2204.9 2704.5 | 1.517 5.623 7.140 | 943.91 1.0891 | 4.245 2.168 | 683.4 26.85 | 234.2 12.92 |
| 120 | 1.987 | 503.8 2202.2 2705.9 | 1.528 5.601 7.129 | 943.11 1.1220 | 4.246 2.174 | 683.6 26.96 | 232.1 12.96 |

Saturated Water and Steam (Temperature Table)

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| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 121 | 2.050 | 508.0 2199.3 2707.4 | 1.539 5.580 7.119 | 942.30 1.1556 | 4.248 2.180 | 683.8 27.08 | 230.0 12.99 |
| 122 | 2.116 | 512.3 2196.5 2708.8 | 1.549 5.559 7.108 | 941.49 1.1901 | 4.250 2.186 | 683.9 27.19 | 228.0 13.02 |
| 123 | 2.183 | 516.5 2193.7 2710.3 | 1.560 5.538 7.098 | 940.67 1.2254 | 4.252 2.192 | 684.1 27.31 | 226.0 13.06 |
| 124 | 2.252 | 520.8 2190.9 2711.7 | 1.571 5.516 7.087 | 939.85 1.2615 | 4.253 2.198 | 684.2 27.43 | 224.1 13.09 |
| 125 | 2.322 | 525.1 2188.0 2713.1 | 1.582 5.496 7.077 | 939.02 1.2985 | 4.255 2.204 | 684.3 27.55 | 222.1 13.13 |
| 126 | 2.395 | 529.3 2185.2 2714.5 | 1.592 5.475 7.067 | 938.19 1.3364 | 4.257 2.211 | 684.5 27.67 | 220.2 13.16 |
| 127 | 2.469 | 533.6 2182.3 2715.9 | 1.603 5.454 7.057 | 937.36 1.3751 | 4.259 2.217 | 684.6 27.79 | 218.4 13.2 |
| 128 | 2.545 | 537.9 2179.5 2717.3 | 1.613 5.433 7.046 | 936.52 1.4148 | 4.263 2.224 | 684.6 27.91 | 216.5 13.23 |
| 129 | 2.623 | 542.1 2176.6 2718.7 | 1.624 5.412 7.036 | 935.68 1.4553 | 4.263 2.230 | 684.7 28.03 | 214.7 13.27 |
| 130 | 2.703 | 546.4 2173.7 2720.1 | 1.635 5.392 7.026 | 934.83 1.4968 | 4.265 2.237 | 684.8 28.15 | 212.9 13.3 |
| 131 | 2.784 | 550.7 2170.8 2721.5 | 1.645 5.371 7.016 | 933.98 1.5393 | 4.267 2.244 | 684.9 28.28 | 211.2 13.33 |
| 132 | 2.868 | 554.9 2167.9 2722.8 | 1.656 5.351 7.007 | 933.13 1.5827 | 4.269 2.251 | 684.9 28.40 | 209.5 13.37 |
| 133 | 2.954 | 559.2 2165.0 2724.2 | 1.666 5.330 6.997 | 932.27 1.6270 | 4.271 2.258 | 684.9 28.52 | 207.8 13.4 |
| 134 | 3.042 | 563.5 2162.0 2725.5 | 1.677 5.310 6.987 | 931.40 1.6724 | 4.273 2.265 | 685.0 28.65 | 206.1 13.44 |
| 135 | 3.132 | 567.8 2159.1 2726.9 | 1.687 5.290 6.977 | 930.54 1.7188 | 4.275 2.273 | 685.0 28.78 | 204.4 13.47 |
| 136 | 3.224 | 572.0 2156.2 2728.2 | 1.698 5.270 6.968 | 929.66 1.7662 | 4.277 2.280 | 685.0 28.90 | 202.8 13.51 |
| 137 | 3.319 | 576.3 2153.2 2729.5 | 1.708 5.250 6.958 | 928.79 1.8147 | 4.279 2.288 | 685.0 29.03 | 201.2 13.54 |
| 138 | 3.415 | 580.6 2150.2 2730.8 | 1.719 5.230 6.948 | 927.91 1.8642 | 4.282 2.295 | 684.9 29.16 | 199.7 13.58 |
| 139 | 3.514 | 584.9 2147.2 2732.1 | 1.729 5.210 6.939 | 927.02 1.9148 | 4.284 2.303 | 684.9 29.29 | 198.1 13.61 |
| 140 | 3.615 | 589.2 2144.2 2733.4 | 1.739 5.190 6.929 | 926.13 1.9665 | 4.286 2.311 | 684.9 29.42 | 196.6 13.65 |
| 141 | 3.718 | 593.5 2141.2 2734.7 | 1.750 5.170 6.920 | 925.24 2.0193 | 4.288 2.319 | 684.8 29.55 | 195.1 13.68 |
| 142 | 3.824 | 597.8 2138.2 2736.0 | 1.760 5.150 6.910 | 924.34 2.0733 | 4.291 2.327 | 684.8 29.68 | 193.6 13.71 |
| 143 | 3.932 | 602.1 2135.2 2737.3 | 1.770 5.131 6.901 | 923.44 2.1283 | 4.293 2.335 | 684.7 29.82 | 192.1 13.75 |
| 144 | 4.043 | 606.4 2132.2 2738.5 | 1.781 5.111 6.892 | 922.53 2.1846 | 4.295 2.344 | 684.6 29.95 | 190.7 13.78 |
| 145 | 4.156 | 610.7 2129.1 2739.8 | 1.791 5.092 6.883 | 921.62 2.2421 | 4.298 2.352 | 684.5 30.09 | 189.3 13.82 |
| 146 | 4.272 | 615.0 2126.0 2741.0 | 1.801 5.072 6.873 | 920.71 2.3007 | 4.300 2.361 | 684.4 30.22 | 187.9 13.85 |
| 147 | 4.390 | 619.3 2123.0 2742.3 | 1.811 5.053 6.864 | 919.79 2.3606 | 4.303 2.369 | 684.3 30.36 | 186.5 13.89 |
| 148 | 4.511 | 623.6 2119.9 2743.5 | 1.822 5.034 6.855 | 918.87 2.4217 | 4.305 2.378 | 684.1 30.50 | 185.1 13.92 |
| 149 | 4.635 | 627.9 2116.8 2744.7 | 1.832 5.014 6.846 | 917.94 2.4841 | 4.308 2.387 | 684.0 30.63 | 183.8 13.96 |
| 150 | 4.761 | 632.3 2113.7 2745.9 | 1.842 4.995 6.837 | 917.01 2.5478 | 4.310 2.396 | 683.9 30.77 | 182.5 13.99 |
| 151 | 4.890 | 636.6 2110.5 2747.1 | 1.852 4.976 6.828 | 916.07 2.6127 | 4.313 2.405 | 683.7 30.91 | 181.2 14.03 |
| 152 | 5.022 | 640.9 2107.4 2748.3 | 1.862 4.957 6.819 | 915.13 2.6790 | 4.316 2.414 | 683.5 31.06 | 179.9 14.06 |
| 153 | 5.156 | 645.2 2104.3 2749.5 | 1.872 4.938 6.810 | 914.19 2.7466 | 4.318 2.424 | 683.4 31.20 | 178.6 14.09 |
| 154 | 5.294 | 649.5 2101.1 2750.6 | 1.882 4.919 6.801 | 913.24 2.8156 | 4.321 2.433 | 683.2 31.34 | 177.4 14.13 |
| 155 | 5.434 | 653.9 2097.9 2751.8 | 1.893 4.900 6.793 | 912.28 2.8860 | 4.324 2.442 | 683.0 31.49 | 176.2 14.16 |
| 156 | 5.578 | 658.2 2094.7 2752.9 | 1.903 4.881 6.784 | 911.33 2.9577 | 4.326 2.452 | 682.8 31.63 | 175.0 14.2 |
| 157 | 5.724 | 662.5 2091.5 2754.1 | 1.913 4.862 6.775 | 910.36 3.0309 | 4.329 2.462 | 682.5 31.78 | 173.8 14.23 |
| 158 | 5.873 | 666.9 2088.3 2755.2 | 1.923 4.844 6.766 | 909.40 3.1056 | 4.332 2.472 | 682.3 31.92 | 172.6 14.27 |
| 159 | 6.026 | 671.2 2085.1 2756.3 | 1.933 4.825 6.758 | 908.43 3.1817 | 4.335 2.482 | 682.1 32.07 | 171.4 14.3 |
| 160 | 6.181 | 675.6 2081.9 2757.4 | 1.943 4.806 6.749 | 907.45 3.2593 | 4.338 2.492 | 681.8 32.22 | 170.3 14.34 |
| 161 | 6.340 | 679.9 2078.6 2758.5 | 1.953 4.788 6.741 | 906.47 3.3383 | 4.341 2.502 | 681.5 32.37 | 169.1 14.37 |

Saturated Water and Steam (Temperature Table)

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| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 162 | 6.502 | 684.3 2075.3 2759.6 | 1.963 4.769 6.732 | 905.49 3.4190 | 4.344 2.512 | 681.3 32.52 | 168.0 14.4 |
| 163 | 6.668 | 688.6 2072.1 2760.7 | 1.973 4.751 6.723 | 904.50 3.5011 | 4.347 2.523 | 681.0 32.67 | 166.9 14.44 |
| 164 | 6.836 | 693.0 2068.8 2761.7 | 1.983 4.732 6.715 | 903.51 3.5849 | 4.350 2.533 | 680.7 32.83 | 165.8 14.47 |
| 165 | 7.008 | 697.3 2065.4 2762.8 | 1.993 4.714 6.707 | 902.51 3.6702 | 4.353 2.544 | 680.4 32.98 | 164.7 14.51 |
| 166 | 7.184 | 701.7 2062.1 2763.8 | 2.002 4.696 6.698 | 901.51 3.7572 | 4.356 2.555 | 680.1 33.14 | 163.7 14.54 |
| 167 | 7.363 | 706.1 2058.8 2764.9 | 2.012 4.677 6.690 | 900.50 3.8458 | 4.360 2.565 | 679.7 33.29 | 162.6 14.58 |
| 168 | 7.545 | 710.5 2055.4 2765.9 | 2.022 4.659 6.682 | 899.49 3.9361 | 4.363 2.576 | 679.4 33.45 | 161.6 14.81 |
| 169 | 7.731 | 714.8 2052.1 2766.9 | 2.032 4.641 6.673 | 898.48 4.0281 | 4.366 2.587 | 679.1 33.61 | 160.6 14.65 |
| 170 | 7.921 | 719.2 2048.7 2767.9 | 2.042 4.623 6.665 | 897.46 4.1217 | 4.369 2.599 | 678.7 33.77 | 159.6 14.68 |
| 171 | 8.114 | 723.6 2045.3 2768.9 | 2.052 4.605 6.657 | 896.43 4.2172 | 4.373 2.610 | 678.3 33.93 | 158.6 14.71 |
| 172 | 8.311 | 728.0 2041.9 2769.9 | 2.062 4.587 6.649 | 895.40 4.3143 | 4.376 2.621 | 678.0 34.09 | 157.6 14.75 |
| 173 | 8.512 | 732.4 2038.5 2770.8 | 2.071 4.569 6.640 | 894.37 4.4133 | 4.380 2.633 | 677.6 34.25 | 156.6 14.78 |
| 174 | 8.716 | 736.8 2035.0 2771.8 | 2.081 4.551 6.632 | 893.33 4.5141 | 4.383 2.644 | 677.2 34.42 | 155.7 14.82 |
| 175 | 8.924 | 741.2 2031.6 2772.7 | 2.091 4.533 6.624 | 892.29 4.6167 | 4.387 2.656 | 676.8 34.58 | 154.7 14.85 |
| 176 | 9.137 | 745.6 2028.1 2773.6 | 2.101 4.515 6.616 | 891.24 4.7212 | 4.391 2.668 | 676.4 34.75 | 153.8 14.89 |
| 177 | 9.353 | 750.0 2024.6 2774.5 | 2.110 4.498 6.608 | 890.19 4.8276 | 4.394 2.680 | 675.9 34.91 | 152.9 14.92 |
| 178 | 9.573 | 754.4 2021.1 2775.5 | 2.120 4.480 6.600 | 889.13 4.9359 | 4.398 2.692 | 675.5 35.08 | 152.0 14.96 |
| 179 | 9.798 | 758.8 2017.6 2776.3 | 2.130 4.462 6.592 | 888.07 5.0461 | 4.409 2.704 | 675.1 35.25 | 151.0 14.99 |
| 180 | 10.026 | 763.2 2014.0 2777.2 | 2.140 4.445 6.584 | 887.01 5.1583 | 4.406 2.716 | 674.6 35.42 | 150.2 15.02 |
| 181 | 10.259 | 767.6 2010.5 2778.1 | 2.149 4.427 6.576 | 885.94 5.2725 | 4.409 2.729 | 674.1 35.59 | 149.3 15.06 |
| 182 | 10.496 | 772.0 2006.9 2778.9 | 2.159 4.409 6.568 | 884.86 5.3887 | 4.413 2.741 | 673.7 35.77 | 148.4 15.09 |
| 183 | 10.737 | 776.5 2003.3 2779.8 | 2.169 4.392 6.560 | 883.78 5.5070 | 4.417 2.754 | 673.2 35.94 | 147.5 15.13 |
| 184 | 10.983 | 780.9 1999.7 2780.6 | 2.178 4.374 6.553 | 882.70 5.6274 | 4.421 2.767 | 672.7 36.12 | 146.7 15.16 |
| 185 | 11.233 | 785.3 1996.1 2781.4 | 2.188 4.357 6.545 | 881.61 5.7498 | 4.425 2.780 | 672.2 36.29 | 145.9 15.2 |
| 186 | 11.487 | 789.8 1992.5 2782.2 | 2.197 4.339 6.537 | 880.51 5.8744 | 4.430 2.793 | 671.1 36.47 | 145.0 15.23 |
| 187 | 11.746 | 794.2 1988.8 2783.0 | 2.207 4.322 6.529 | 879.41 6.0012 | 4.434 2.806 | 670.6 36.65 | 144.2 15.27 |
| 188 | 12.009 | 798.7 1985.1 2783.8 | 2.217 4.305 6.521 | 878.31 6.1302 | 4.438 2.819 | 670.0 36.83 | 143.4 15.3 |
| 189 | 12.277 | 803.1 1981.5 2784.6 | 2.226 4.287 6.514 | 877.20 6.2614 | 4.442 2.833 | 669.5 37.01 | 142.6 15.33 |
| 190 | 12.550 | 807.6 1977.7 2785.3 | 2.236 4.270 6.506 | 876.08 6.3948 | 4.447 2.846 | 668.9 37.19 | 141.8 15.37 |
| 191 | 12.828 | 812.0 1974.0 2786.0 | 2.245 4.253 6.498 | 874.97 6.5305 | 4.451 2.860 | 668.3 37.38 | 140.1 15.4 |
| 192 | 13.110 | 816.5 1970.3 2786.8 | 2.255 4.236 6.491 | 873.84 6.6686 | 4.456 2.874 | 667.8 37.56 | 140.2 15.44 |
| 193 | 13.397 | 821.0 1966.5 2787.5 | 2.264 4.219 6.483 | 872.71 6.8090 | 4.460 2.888 | 667.2 37.75 | 139.5 15.47 |
| 194 | 13.689 | 825.4 1962.7 2788.2 | 2.274 4.202 6.475 | 871.58 6.9518 | 4.465 2.902 | 667.2 37.94 | 138.7 15.51 |
| 195 | 13.986 | 829.9 1958.9 2788.9 | 2.283 4.184 6.468 | 870.44 7.0970 | 4.470 2.916 | 666.6 38.13 | 137.5 15.54 |
| 196 | 14.288 | 834.4 1955.1 2789.5 | 2.293 4.167 6.460 | 869.30 7.2446 | 4.474 2.931 | 665.9 38.32 | 137.2 15.58 |
| 197 | 14.595 | 838.9 1951.3 2790.2 | 2.302 4.150 6.453 | 868.15 7.3947 | 4.479 2.945 | 665.3 38.51 | 136.5 15.61 |
| 198 | 14.907 | 843.4 1947.4 2790.8 | 2.312 4.133 6.445 | 866.99 7.5473 | 4.484 2.960 | 664.7 38.70 | 135.8 15.64 |
| 199 | 15.224 | 847.9 1943.6 2791.5 | 2.321 4.116 6.438 | 865.83 7.7025 | 4.489 2.975 | 664.0 38.90 | 135.0 15.68 |
| 200 | 15.547 | 852.4 1939.7 2792.1 | 2.331 4.099 6.430 | 864.67 7.8603 | 4.494 2.990 | 663.4 39.10 | 134.3 15.71 |
| 201 | 15.875 | 856.9 1935.8 2792.7 | 2.340 4.083 6.423 | 863.50 8.0206 | 4.499 3.005 | 662.7 39.29 | 133.6 15.75 |
| 202 | 16.208 | 861.4 1931.8 2793.2 | 2.350 4.066 6.415 | 862.32 8.1836 | 4.504 3.021 | 662.0 39.49 | 132.9 15.78 |

Saturated Water and Steam (Temperature Table)

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| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 203 | 16.546 | 865.9 1927.9 2793.8 | 2.359 4.049 6.408 | 861.14 8.3493 | 4.509 3.036 | 661.4 39.69 | 132.2 15.82 |
| 204 | 16.891 | 870.5 1923.9 2794.4 | 2.369 4.032 6.401 | 859.96 8.5178 | 4.515 3.052 | 660.7 39.89 | 131.6 15.86 |
| 205 | 17.240 | 875.0 1919.9 2794.9 | 2.378 4.015 6.393 | 858.77 8.6889 | 4.520 3.068 | 660.0 40.10 | 130.9 15.89 |
| 206 | 17.596 | 879.5 1915.9 2795.4 | 2.387 3.999 6.386 | 857.57 8.8629 | 4.526 3.084 | 659.2 40.30 | 130.2 15.92 |
| 207 | 17.956 | 884.1 1911.9 2795.9 | 2.397 3.982 6.378 | 856.37 9.0397 | 4.531 3.100 | 658.5 40.51 | 129.6 15.96 |
| 208 | 18.323 | 888.6 1907.8 2796.4 | 2.406 3.965 6.371 | 855.16 9.2194 | 4.564 3.116 | 657.8 40.72 | 128.9 15.99 |
| 209 | 18.696 | 893.2 1903.7 2796.9 | 2.415 3.948 6.364 | 853.95 9.4020 | 4.542 3.133 | 657.0 40.93 | 128.7 16.03 |
| 210 | 19.074 | 897.7 1899.6 2797.4 | 2.425 3.932 6.357 | 852.73 9.5875 | 4.548 3.150 | 656.3 41.14 | 127.6 16.06 |
| 211 | 19.458 | 902.3 1895.5 2797.8 | 2.434 3.915 6.349 | 851.50 9.7761 | 4.554 3.167 | 655.5 41.35 | 127.0 16.09 |
| 212 | 19.848 | 906.9 1891.4 2798.2 | 2.443 3.899 6.342 | 850.27 9.9676 | 4.560 3.184 | 654.7 41.57 | 126.4 16.13 |
| 213 | 20.245 | 911.4 1887.2 2798.6 | 2.453 3.882 6.335 | 849.04 10.1623 | 4.566 3.201 | 654.0 41.78 | 125.7 16.16 |
| 214 | 20.647 | 916.0 1883.0 2799.0 | 2.462 3.865 6.327 | 847.80 10.3600 | 4.572 3.219 | 653.2 42.00 | 125.1 16.2 |
| 215 | 21.055 | 920.6 1878.8 2799.4 | 2.471 3.849 6.320 | 846.55 10.5609 | 4.578 3.236 | 652.4 42.22 | 125.4 16.23 |
| 216 | 21.470 | 925.2 1874.6 2799.8 | 2.481 3.832 6.313 | 845.30 10.7650 | 4.585 3.254 | 651.5 42.44 | 123.9 16.27 |
| 217 | 21.891 | 929.8 1870.3 2800.1 | 2.490 3.816 6.306 | 844.04 10.9724 | 4.591 3.272 | 650.7 42.66 | 123.3 16.3 |
| 218 | 22.319 | 934.4 1866.0 2800.4 | 2.499 3.799 6.299 | 842.77 11.1830 | 4.597 3.291 | 649.9 42.89 | 122.7 16.34 |
| 219 | 22.753 | 939.0 1861.7 2800.8 | 2.509 3.783 6.291 | 841.50 11.3970 | 4.604 3.309 | 649.0 43.11 | 121.1 16.37 |
| 220 | 23.193 | 943.6 1857.4 2801.1 | 2.518 3.766 6.284 | 840.23 11.6143 | 4.611 3.328 | 648.2 43.34 | 121.5 16.41 |
| 221 | 23.640 | 948.3 1853.1 2801.3 | 2.527 3.750 6.277 | 838.94 11.8351 | 4.617 3.347 | 647.3 43.57 | 121.0 16.44 |
| 222 | 24.093 | 952.9 1848.7 2801.6 | 2.536 3.734 6.270 | 837.65 12.0593 | 4.624 3.366 | 646.4 43.80 | 120.4 16.48 |
| 223 | 24.554 | 957.5 1844.3 2801.8 | 2.546 3.717 6.263 | 836.36 12.2871 | 4.631 3.386 | 645.6 44.04 | 119.8 16.51 |
| 224 | 25.020 | 962.2 1839.9 2802.1 | 2.555 3.701 6.256 | 835.06 12.5184 | 4.638 3.405 | 644.7 44.27 | 119.2 16.55 |
| 225 | 25.494 | 966.8 1835.4 2802.3 | 2.564 3.684 6.249 | 833.75 12.7533 | 4.646 3.425 | 643.8 44.51 | 118.7 16.59 |
| 226 | 25.975 | 971.5 1830.9 2802.4 | 2.573 3.668 6.241 | 832.44 12.9919 | 4.653 3.445 | 642.8 44.75 | 118.1 16.62 |
| 227 | 26.463 | 976.2 1826.4 2802.6 | 2.583 3.652 6.234 | 831.12 13.2342 | 4.660 3.466 | 642.0 44.99 | 117.6 16.66 |
| 228 | 26.957 | 980.8 1821.9 2802.8 | 2.592 3.635 6.227 | 829.79 13.4803 | 4.668 3.486 | 641.0 45.23 | 117.0 16.69 |
| 229 | 27.459 | 985.5 1817.4 2802.9 | 2.601 3.619 6.220 | 828.46 13.7302 | 4.675 3.507 | 640.0 45.48 | 116.5 16.73 |
| 230 | 27.968 | 990.2 1812.8 2803.0 | 2.610 3.603 6.213 | 827.12 13.9840 | 4.683 3.528 | 639.1 45.72 | 116.0 16.76 |
| 231 | 28.484 | 994.9 1808.2 2803.1 | 2.619 3.587 6.206 | 825.78 14.2417 | 4.691 3.550 | 638.1 45.97 | 115.4 16.8 |
| 232 | 29.008 | 999.6 1803.6 2803.2 | 2.629 3.570 6.199 | 824.43 14.5034 | 4.699 3.571 | 637.1 46.23 | 114.9 16.83 |
| 233 | 29.538 | 1004.3 1798.9 2803.2 | 2.638 3.554 6.192 | 823.07 14.7692 | 4.707 3.593 | 636.2 46.48 | 114.4 16.87 |
| 234 | 30.077 | 1009.0 1794.2 2803.3 | 2.647 3.538 6.185 | 821.70 15.0390 | 4.715 3.615 | 635.2 46.73 | 113.9 16.91 |
| 235 | 30.622 | 1013.8 1789.5 2803.3 | 2.656 3.522 6.178 | 820.33 15.3130 | 4.723 3.638 | 634.2 46.99 | 113.4 16.94 |
| 236 | 31.176 | 1018.5 1784.8 2803.3 | 2.665 3.505 6.171 | 818.95 15.5913 | 4.732 3.661 | 633.1 47.25 | 112.9 16.98 |
| 237 | 31.737 | 1023.2 1780.0 2803.3 | 2.674 3.489 6.164 | 817.56 15.8738 | 4.746 3.684 | 632.1 47.52 | 112.4 17.01 |
| 238 | 32.306 | 1028.0 1775.2 2803.2 | 2.684 3.473 6.157 | 816.17 16.1606 | 4.749 3.707 | 631.0 47.78 | 111.9 17.05 |
| 239 | 32.882 | 1032.8 1770.4 2803.1 | 2.693 3.457 6.150 | 814.77 16.4519 | 4.758 3.731 | 630.0 48.05 | 111.3 17.09 |
| 240 | 33.467 | 1037.5 1765.5 2803.1 | 2.702 3.441 6.143 | 813.37 16.7476 | 4.767 3.755 | 629.0 48.32 | 110.9 17.12 |
| 241 | 34.059 | 1042.3 1760.7 2803.0 | 2.711 3.424 6.135 | 811.95 17.0478 | 4.776 3.779 | 627.9 48.59 | 110.4 17.19 |
| 242 | 34.659 | 1047.1 1755.7 2802.8 | 2.720 3.408 6.128 | 810.53 17.3527 | 4.785 3.803 | 626.8 48.87 | 109.9 17.2 |
| 243 | 35.268 | 1051.9 1750.8 2802.7 | 2.729 3.392 6.121 | 809.10 17.6622 | 4.795 3.828 | 625.7 49.14 | 109.4 17.23 |

Saturated Water and Steam (Temperature Table)

S. Zarrouk & A. Watson (2010)

| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 244 | 35.884 | 1056.7 1745.8 2802.5 | 2.739 3.376 6.114 | 807.67 17.9764 | 4.804 3.853 | 624.6 49.42 | 108.9 17.27 |
| 245 | 36.509 | 1061.5 1740.8 2802.3 | 2.748 3.360 6.107 | 806.22 18.2955 | 4.814 3.879 | 623.5 49.71 | 108.4 17.31 |
| 246 | 37.142 | 1066.3 1735.8 2802.1 | 2.757 3.344 6.100 | 804.77 18.6194 | 4.824 3.905 | 622.4 49.99 | 108.0 17.34 |
| 247 | 37.784 | 1071.1 1730.7 2801.9 | 2.766 3.327 6.093 | 803.31 18.9483 | 4.834 3.931 | 621.3 50.28 | 107.5 17.38 |
| 248 | 38.434 | 1076.0 1725.6 2801.6 | 2.775 3.311 6.086 | 801.85 19.2822 | 4.844 3.958 | 620.1 50.57 | 107.0 17.42 |
| 249 | 39.092 | 1080.8 1720.5 2801.3 | 2.784 3.295 6.079 | 800.37 19.6212 | 4.854 3.985 | 619.0 50.86 | 106.6 17.46 |
| 250 | 39.759 | 1085.7 1715.3 2801.0 | 2.793 3.279 6.072 | 798.89 19.9654 | 4.865 4.012 | 617.8 51.16 | 106.1 17.49 |
| 251 | 40.435 | 1090.6 1710.1 2800.7 | 2.803 3.263 6.065 | 797.40 20.3149 | 4.876 4.040 | 616.6 51.46 | 105.7 17.53 |
| 252 | 41.120 | 1095.4 1704.9 2800.3 | 2.812 3.246 6.058 | 795.90 20.6697 | 4.887 4.068 | 615.5 51.76 | 105.2 17.57 |
| 253 | 41.813 | 1100.3 1699.6 2800.0 | 2.821 3.230 6.051 | 794.40 21.0299 | 4.898 4.096 | 614.3 52.07 | 104.8 17.61 |
| 254 | 42.515 | 1105.2 1694.3 2799.6 | 2.830 3.214 6.044 | 792.88 21.3956 | 4.909 4.125 | 613.0 52.38 | 104.3 17.64 |
| 255 | 43.227 | 1110.1 1689.0 2799.1 | 2.839 3.198 6.037 | 791.36 21.7669 | 4.920 4.154 | 611.8 52.69 | 103.9 17.68 |
| 256 | 43.947 | 1115.0 1683.6 2798.7 | 2.848 3.182 6.030 | 789.83 22.1439 | 4.932 4.184 | 610.6 53.01 | 103.4 17.72 |
| 257 | 44.677 | 1120.0 1678.2 2798.2 | 2.857 3.166 6.023 | 788.29 22.5267 | 4.944 4.215 | 609.4 53.33 | 103.0 17.76 |
| 258 | 45.415 | 1124.9 1672.8 2797.7 | 2.866 3.149 6.016 | 786.74 22.9153 | 4.956 4.245 | 608.1 53.65 | 102.6 17.8 |
| 259 | 46.163 | 1129.9 1667.3 2797.2 | 2.876 3.133 6.009 | 785.19 23.3098 | 4.968 4.276 | 606.9 53.97 | 102.1 17.84 |
| 260 | 46.921 | 1134.8 1661.8 2796.6 | 2.885 3.117 6.002 | 783.62 23.7105 | 4.981 4.308 | 605.6 54.30 | 101.7 17.88 |
| 261 | 47.688 | 1139.8 1656.3 2796.1 | 2.894 3.101 5.995 | 782.05 24.1172 | 4.993 4.340 | 604.3 54.64 | 101.3 17.91 |
| 262 | 48.464 | 1144.8 1650.7 2795.5 | 2.903 3.085 5.988 | 780.46 24.5302 | 5.006 4.373 | 603.0 54.97 | 100.8 17.95 |
| 263 | 49.250 | 1149.8 1645.1 2794.8 | 2.912 3.068 5.980 | 778.87 24.9496 | 5.020 4.406 | 601.7 55.31 | 100.5 17.99 |
| 264 | 50.046 | 1154.8 1639.4 2794.2 | 2.921 3.052 5.973 | 777.27 25.3754 | 5.033 4.440 | 600.4 55.66 | 99.8 17.83 |
| 265 | 50.851 | 1159.8 1633.7 2793.5 | 2.930 3.036 5.966 | 775.66 25.8078 | 5.047 4.474 | 599.1 56.01 | 99.6 18.07 |
| 266 | 51.667 | 1164.8 1628.0 2792.8 | 2.940 3.019 5.959 | 774.04 26.2469 | 5.061 4.509 | 597.7 56.36 | 99.2 18.11 |
| 267 | 52.492 | 1169.9 1622.2 2792.1 | 2.949 3.003 5.952 | 772.41 26.6928 | 5.075 4.544 | 596.4 56.72 | 98.7 18.15 |
| 268 | 53.327 | 1174.9 1616.4 2791.3 | 2.958 2.987 5.945 | 770.77 27.1455 | 5.089 4.581 | 595.0 57.08 | 98.3 18.19 |
| 269 | 54.173 | 1180.0 1610.5 2790.5 | 2.967 2.971 5.938 | 769.12 27.6053 | 5.104 4.617 | 593.6 57.44 | 97.9 18.23 |
| 270 | 55.028 | 1185.1 1604.6 2789.7 | 2.976 2.954 5.930 | 767.46 28.0722 | 5.119 4.655 | 592.2 57.81 | 97.5 18.27 |
| 271 | 55.894 | 1190.2 1598.7 2788.8 | 2.985 2.938 5.923 | 765.79 28.5464 | 5.134 4.693 | 590.8 58.19 | 97.1 18.32 |
| 272 | 56.771 | 1195.3 1592.7 2788.0 | 2.995 2.922 5.916 | 764.11 29.0279 | 5.150 4.732 | 589.4 58.57 | 96.7 18.36 |
| 273 | 57.657 | 1200.4 1586.6 2787.1 | 3.004 2.905 5.909 | 762.42 29.5170 | 5.165 4.771 | 588.0 58.95 | 96.3 18.4 |
| 274 | 58.555 | 1205.6 1580.6 2786.1 | 3.013 2.889 5.902 | 760.71 30.0138 | 5.182 4.811 | 586.6 59.34 | 95.9 18.44 |
| 275 | 59.463 | 1210.7 1574.4 2785.1 | 3.022 2.872 5.894 | 759.00 30.5183 | 5.189 4.852 | 585.1 59.74 | 95.5 18.48 |
| 276 | 60.381 | 1215.9 1568.3 2784.1 | 3.031 2.856 5.887 | 757.28 31.0308 | 5.215 4.894 | 583.7 60.14 | 95.1 18.53 |
| 277 | 61.311 | 1221.0 1562.1 2783.1 | 3.040 2.839 5.880 | 755.55 31.5514 | 5.232 4.937 | 582.2 60.54 | 94.7 18.57 |
| 278 | 62.251 | 1226.2 1555.8 2782.0 | 3.050 2.823 5.872 | 753.80 32.0802 | 5.250 4.980 | 580.7 60.95 | 94.3 18.61 |
| 279 | 63.202 | 1231.4 1549.5 2781.0 | 3.059 2.806 5.865 | 752.04 32.6174 | 5.268 5.025 | 579.3 61.37 | 93.9 18.65 |
| 280 | 64.165 | 1236.7 1543.2 2779.8 | 3.068 2.790 5.858 | 750.27 33.1631 | 5.286 5.070 | 577.7 61.79 | 93.5 18.7 |
| 281 | 65.138 | 1241.9 1536.8 2778.7 | 3.077 2.773 5.850 | 748.49 33.7176 | 5.305 5.116 | 576.2 62.22 | 93.1 18.74 |
| 282 | 66.123 | 1247.2 1530.3 2777.5 | 3.087 2.757 5.843 | 746.70 34.2809 | 5.324 5.164 | 574.7 62.65 | 92.7 18.79 |
| 283 | 67.119 | 1252.4 1523.8 2776.2 | 3.096 2.740 5.836 | 744.90 34.8532 | 5.343 5.212 | 573.2 63.09 | 92.3 18.83 |
| 284 | 68.126 | 1257.7 1517.3 2775.0 | 3.105 2.723 5.828 | 743.08 35.4348 | 5.363 5.261 | 571.6 63.54 | 92.0 18.88 |

Saturated Water and Steam (Temperature Table)

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| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 285 | 69.145 | 1263.0 1510.7 2773.7 | 3.114 2.707 5.821 | 741.25 36.0258 | 5.383 5.311 | 570.0 63.99 | 91.6 18.92 |
| 286 | 70.176 | 1268.3 1504.0 2772.3 | 3.124 2.690 5.813 | 739.41 36.6264 | 5.404 5.363 | 568.5 64.45 | 91.2 18.97 |
| 287 | 71.218 | 1273.7 1497.3 2771.0 | 3.133 2.673 5.806 | 737.55 37.2367 | 5.425 5.415 | 566.9 64.92 | 90.8 19.01 |
| 288 | 72.272 | 1279.0 1490.5 2769.6 | 3.142 2.656 5.798 | 735.69 37.8570 | 5.447 5.469 | 565.3 65.40 | 90.4 19.06 |
| 289 | 73.338 | 1284.4 1483.7 2768.1 | 3.151 2.639 5.791 | 733.80 38.4876 | 5.469 5.524 | 563.6 65.88 | 90.0 19.11 |
| 290 | 74.416 | 1289.8 1476.8 2766.6 | 3.161 2.622 5.783 | 731.91 39.1285 | 5.492 5.581 | 562.0 66.37 | 89.7 19.15 |
| 291 | 75.506 | 1295.2 1469.9 2765.1 | 3.170 2.606 5.776 | 730.00 39.7800 | 5.515 5.638 | 560.4 66.87 | 89.3 19.2 |
| 292 | 76.609 | 1300.6 1462.9 2763.6 | 3.179 2.589 5.768 | 728.08 40.4424 | 5.539 5.697 | 558.7 67.37 | 88.9 19.25 |
| 293 | 77.723 | 1306.1 1455.9 2762.0 | 3.189 2.572 5.760 | 726.14 41.1159 | 5.563 5.757 | 557.0 67.89 | 88.5 19.3 |
| 294 | 78.850 | 1311.5 1448.8 2760.3 | 3.198 2.554 5.753 | 724.18 41.8007 | 5.588 5.819 | 555.4 68.41 | 88.2 19.35 |
| 295 | 79.990 | 1317.0 1441.6 2758.6 | 3.208 2.537 5.745 | 722.22 42.4970 | 5.614 5.882 | 553.7 68.94 | 87.8 19.39 |
| 296 | 81.142 | 1322.5 1434.4 2756.9 | 3.217 2.520 5.737 | 720.23 43.2052 | 5.640 5.947 | 551.9 69.48 | 87.4 19.44 |
| 297 | 82.306 | 1328.1 1427.1 2755.1 | 3.226 2.503 5.729 | 718.23 43.9254 | 5.667 6.014 | 550.2 70.03 | 87.0 19.49 |
| 298 | 83.484 | 1333.6 1419.7 2753.3 | 3.236 2.486 5.722 | 716.22 44.6580 | 5.694 6.082 | 548.5 70.60 | 86.6 19.55 |
| 299 | 84.674 | 1339.2 1412.3 2751.5 | 3.245 2.468 5.714 | 714.19 45.4033 | 5.723 6.152 | 546.7 71.17 | 86.3 19.6 |
| 300 | 85.877 | 1344.8 1404.8 2749.6 | 3.255 2.451 5.706 | 712.14 46.1615 | 5.752 6.223 | 545.0 71.75 | 85.9 19.65 |
| 301 | 87.093 | 1350.4 1397.2 2747.6 | 3.264 2.434 5.698 | 710.07 46.9330 | 5.781 6.296 | 543.2 72.34 | 85.5 19.7 |
| 302 | 88.323 | 1356.0 1389.6 2745.6 | 3.274 2.416 5.690 | 707.99 47.7180 | 5.812 6.372 | 541.4 72.95 | 85.2 19.76 |
| 303 | 89.566 | 1361.7 1381.9 2743.6 | 3.283 2.399 5.682 | 705.89 48.5170 | 5.843 6.449 | 539.6 73.56 | 84.8 19.81 |
| 304 | 90.822 | 1367.4 1374.1 2741.5 | 3.293 2.381 5.674 | 703.77 49.3301 | 5.875 6.528 | 537.7 74.19 | 84.4 19.86 |
| 305 | 92.092 | 1373.1 1366.3 2739.4 | 3.302 2.363 5.666 | 701.64 50.1579 | 5.908 6.610 | 535.9 74.83 | 84.0 19.92 |
| 306 | 93.375 | 1378.8 1358.4 2737.2 | 3.312 2.345 5.657 | 699.48 51.0006 | 5.942 6.693 | 534.0 75.49 | 83.7 19.97 |
| 307 | 94.672 | 1384.6 1350.4 2735.0 | 3.322 2.328 5.649 | 697.31 51.8587 | 5.977 6.779 | 532.2 76.15 | 83.3 20.03 |
| 308 | 95.983 | 1390.4 1342.3 2732.7 | 3.331 2.310 5.641 | 695.11 52.7325 | 6.013 6.867 | 530.3 76.84 | 82.9 20.09 |
| 309 | 97.308 | 1396.2 1334.2 2730.3 | 3.341 2.292 5.633 | 692.90 53.6225 | 6.050 6.958 | 528.4 77.53 | 82.5 20.15 |
| 310 | 98.647 | 1402.0 1325.9 2727.9 | 3.351 2.274 5.624 | 690.67 54.5290 | 6.088 7.051 | 526.5 78.24 | 82.2 20.2 |
| 311 | 100.001 | 1407.9 1317.6 2725.5 | 3.360 2.256 5.616 | 688.41 55.4526 | 6.128 7.147 | 524.5 78.97 | 81.8 20.26 |
| 312 | 101.368 | 1413.8 1309.2 2723.0 | 3.370 2.237 5.607 | 686.13 56.3937 | 6.168 7.246 | 522.6 79.72 | 81.4 20.33 |
| 313 | 102.750 | 1419.7 1300.7 2720.4 | 3.380 2.219 5.599 | 683.84 57.3528 | 6.210 7.348 | 520.6 80.48 | 81.0 20.39 |
| 314 | 104.147 | 1425.6 1292.1 2717.8 | 3.390 2.201 5.590 | 681.51 58.3304 | 6.253 7.453 | 518.7 81.26 | 80.7 20.45 |
| 315 | 105.558 | 1431.6 1283.4 2715.1 | 3.399 2.182 5.582 | 679.17 59.3271 | 6.297 7.561 | 516.7 82.05 | 80.3 20.51 |
| 316 | 106.984 | 1437.6 1274.7 2712.3 | 3.409 2.164 5.573 | 676.80 60.3433 | 6.343 7.673 | 514.7 82.87 | 79.9 20.58 |
| 317 | 108.425 | 1443.7 1265.8 2709.5 | 3.419 2.145 5.564 | 674.41 61.3798 | 6.390 7.788 | 512.6 83.71 | 79.5 20.64 |
| 318 | 109.881 | 1449.8 1256.8 2706.6 | 3.429 2.126 5.555 | 671.99 62.4370 | 6.439 7.907 | 510.6 84.57 | 79.2 20.71 |
| 319 | 111.352 | 1455.9 1247.8 2703.7 | 3.439 2.107 5.546 | 669.55 63.5157 | 6.489 8.030 | 508.5 85.45 | 78.8 20.77 |
| 320 | 112.839 | 1462.1 1238.6 2700.7 | 3.449 2.088 5.537 | 667.08 64.6165 | 6.541 8.157 | 506.5 86.35 | 78.4 20.84 |
| 321 | 114.341 | 1468.2 1229.3 2697.6 | 3.459 2.069 5.528 | 664.59 65.7401 | 6.596 8.289 | 504.4 87.28 | 78.0 20.91 |
| 322 | 115.858 | 1474.5 1220.0 2694.4 | 3.469 2.050 5.519 | 662.07 66.8873 | 6.652 8.426 | 502.3 88.24 | 77.6 20.98 |
| 323 | 117.391 | 1480.7 1210.5 2691.2 | 3.479 2.030 5.510 | 659.51 68.0589 | 6.710 8.568 | 500.1 89.22 | 77.3 21.06 |
| 324 | 118.940 | 1487.0 1200.8 2687.9 | 3.490 2.011 5.500 | 656.93 69.2557 | 6.770 8.716 | 498.0 90.23 | 76.9 21.13 |
| 325 | 120.505 | 1493.4 1191.1 2684.5 | 3.500 1.991 5.491 | 654.32 70.4785 | 6.833 8.869 | 495.8 91.27 | 76.5 21.2 |

Saturated Water and Steam (Temperature Table)

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| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g 10 ⁻³ × [W/m °K] | μ_f μ_g 10 ⁻⁶ × [kg/m.s] |
|-------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 326 | 122.086 | 1499.8 1181.3 2681.0 | 3.510 1.972 5.482 | 651.68 71.7284 | 6.895 9.028 | 493.7 92.33 | 76.1 21.28 |
| 327 | 123.684 | 1506.2 1171.3 2677.5 | 3.520 1.952 5.472 | 649.01 73.0061 | 6.966 9.195 | 491.5 93.44 | 75.7 21.36 |
| 328 | 125.298 | 1512.7 1161.2 2673.8 | 3.531 1.932 5.462 | 646.30 74.3129 | 7.037 9.368 | 489.3 94.57 | 75.3 21.44 |
| 329 | 126.928 | 1519.2 1150.9 2670.1 | 3.541 1.911 5.452 | 643.56 75.6498 | 7.111 9.549 | 487.1 95.74 | 74.9 21.52 |
| 330 | 128.575 | 1525.7 1140.5 2666.2 | 3.552 1.891 5.442 | 640.78 77.0179 | 7.189 9.738 | 484.8 96.96 | 74.5 21.6 |
| 331 | 130.239 | 1532.4 1130.0 2662.3 | 3.562 1.870 5.432 | 637.97 78.4184 | 7.270 9.936 | 482.6 98.21 | 74.1 21.69 |
| 332 | 131.920 | 1539.0 1119.3 2658.3 | 3.573 1.850 5.422 | 635.11 79.8528 | 7.355 10.144 | 480.3 99.50 | 73.7 21.77 |
| 333 | 133.619 | 1545.7 1108.4 2654.2 | 3.583 1.829 5.412 | 632.22 81.3223 | 7.444 10.361 | 478.0 100.84 | 73.3 21.86 |
| 334 | 135.334 | 1552.5 1097.4 2649.9 | 3.594 1.808 5.402 | 629.28 82.8285 | 7.537 10.590 | 475.7 102.23 | 72.9 21.95 |
| 335 | 137.067 | 1559.3 1086.3 2645.6 | 3.605 1.786 5.391 | 626.30 84.3729 | 7.635 10.830 | 473.3 103.67 | 72.5 22.05 |
| 336 | 138.818 | 1566.2 1074.9 2641.1 | 3.616 1.765 5.380 | 623.28 85.9572 | 7.739 11.083 | 471.0 105.16 | 72.1 22.14 |
| 337 | 140.587 | 1573.2 1063.4 2636.6 | 3.627 1.743 5.369 | 620.21 87.5832 | 7.849 11.349 | 468.6 106.71 | 71.7 22.24 |
| 338 | 142.374 | 1580.2 1051.7 2631.9 | 3.638 1.721 5.358 | 617.09 89.2528 | 7.964 11.631 | 466.3 108.32 | 71.3 22.34 |
| 339 | 144.179 | 1587.3 1039.7 2627.0 | 3.649 1.699 5.347 | 613.91 90.9682 | 8.087 11.927 | 463.9 110.00 | 70.9 22.44 |
| 340 | 146.002 | 1594.4 1027.6 2622.1 | 3.660 1.676 5.336 | 610.68 92.7314 | 8.217 12.241 | 461.4 111.75 | 70.4 22.55 |
| 341 | 147.844 | 1601.7 1015.3 2617.0 | 3.671 1.653 5.324 | 607.40 94.5449 | 8.354 12.573 | 459.0 113.57 | 70.0 22.66 |
| 342 | 149.705 | 1609.0 1002.7 2611.7 | 3.683 1.630 5.313 | 604.05 96.4113 | 8.501 12.925 | 456.6 115.48 | 69.6 22.77 |
| 343 | 151.584 | 1616.4 989.9 2606.3 | 3.694 1.607 5.301 | 600.64 98.3332 | 8.657 13.297 | 454.1 117.47 | 69.1 22.89 |
| 344 | 153.483 | 1623.9 976.9 2600.7 | 3.706 1.583 5.289 | 597.16 100.3137 | 8.824 13.692 | 451.6 119.56 | 68.7 23.01 |
| 345 | 155.402 | 1631.4 963.6 2595.0 | 3.717 1.559 5.276 | 593.61 102.3559 | 9.002 14.112 | 449.1 121.75 | 68.2 23.13 |
| 346 | 157.339 | 1639.1 950.0 2589.1 | 3.729 1.534 5.264 | 589.99 104.4633 | 9.193 14.558 | 446.6 124.05 | 67.8 23.26 |
| 347 | 159.297 | 1646.9 936.1 2583.0 | 3.741 1.510 5.251 | 586.29 106.6396 | 9.397 15.031 | 444.1 126.47 | 67.3 23.39 |
| 348 | 161.275 | 1654.8 922.0 2576.7 | 3.754 1.484 5.238 | 582.51 108.8889 | 9.615 15.535 | 441.5 129.01 | 66.8 23.53 |
| 349 | 163.273 | 1662.7 907.5 2570.3 | 3.766 1.459 5.225 | 578.65 111.2155 | 9.850 16.071 | 439.0 131.70 | 66.4 23.67 |
| 350 | 165.292 | 1670.9 892.7 2563.6 | 3.778 1.433 5.211 | 574.69 113.6243 | 10.102 16.641 | 436.5 134.55 | 65.9 23.82 |
| 351 | 167.331 | 1679.1 877.6 2556.7 | 3.791 1.406 5.197 | 570.60 116.1107 | 10.408 17.358 | 433.9 137.55 | 65.4 23.97 |
| 352 | 169.391 | 1687.5 862.0 2549.6 | 3.804 1.379 5.183 | 566.43 118.7037 | 10.720 18.084 | 431.4 140.76 | 64.9 24.13 |
| 353 | 171.473 | 1696.1 846.0 2542.1 | 3.817 1.351 5.168 | 562.14 121.3990 | 11.063 18.878 | 428.8 144.17 | 64.4 24.3 |
| 354 | 173.576 | 1704.8 829.6 2534.4 | 3.830 1.323 5.153 | 557.72 124.2046 | 11.440 19.750 | 426.3 147.82 | 63.8 24.47 |
| 355 | 175.701 | 1713.7 812.7 2526.5 | 3.844 1.294 5.138 | 553.16 127.1299 | 11.858 20.714 | 423.8 151.73 | 63.3 24.66 |
| 356 | 177.848 | 1722.8 795.3 2518.1 | 3.858 1.264 5.122 | 548.45 130.1856 | 12.323 21.783 | 421.3 155.94 | 62.7 24.85 |
| 357 | 180.018 | 1732.1 777.4 2509.5 | 3.872 1.234 5.105 | 543.59 133.3839 | 12.845 22.976 | 418.8 160.48 | 62.2 25.06 |
| 358 | 182.210 | 1741.6 758.8 2500.4 | 3.886 1.202 5.088 | 538.54 136.7390 | 13.434 24.317 | 416.5 165.40 | 61.6 25.26 |
| 359 | 184.425 | 1751.4 739.5 2490.9 | 3.901 1.170 5.071 | 533.30 140.2677 | 14.104 25.836 | 414.1 170.76 | 61.0 25.49 |
| 360 | 186.664 | 1761.5 719.5 2481.0 | 3.916 1.136 5.053 | 527.84 143.9897 | 14.874 27.570 | 411.9 176.63 | 60.6 25.73 |
| 361 | 188.926 | 1771.9 698.7 2470.5 | 3.932 1.102 5.034 | 522.14 147.9287 | 15.768 29.569 | 409.9 183.09 | 59.7 25.98 |
| 362 | 191.213 | 1782.6 676.9 2459.5 | 3.948 1.066 5.014 | 516.16 152.1135 | 16.819 31.901 | 407.9 190.27 | 59.0 26.25 |
| 363 | 193.524 | 1793.8 654.0 2447.8 | 3.965 1.028 4.993 | 509.86 156.5795 | 18.073 34.656 | 406.3 198.30 | 58.3 26.55 |
| 364 | 195.860 | 1805.4 629.9 2435.3 | 3.983 0.989 4.971 | 503.21 161.3712 | 19.593 37.965 | 404.9 207.37 | 57.6 26.87 |
| 365 | 198.222 | 1817.6 604.4 2422.0 | 4.001 0.947 4.948 | 496.13 166.5458 | 21.476 42.013 | 404.2 217.73 | 56.8 27.21 |
| 366 | 200.609 | 1830.4 577.2 2407.6 | 4.020 0.903 4.923 | 488.54 172.1783 | 23.866 47.082 | 403.7 229.73 | 56.0 27.59 |

Saturated Water and Steam (**Temperature Table**)

S. Zarrouk & A. Watson (2010)

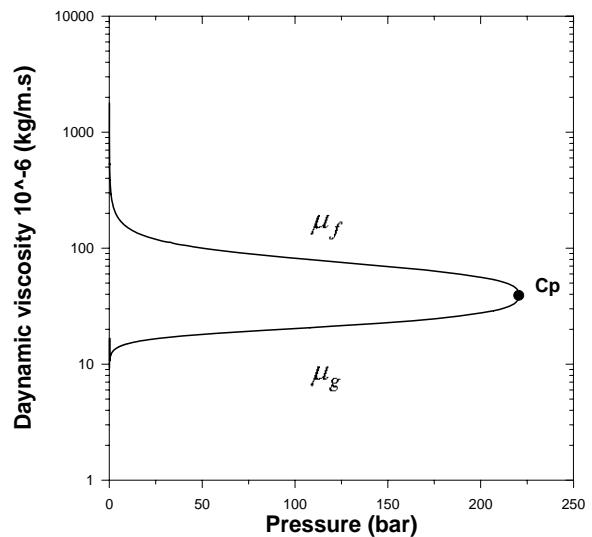
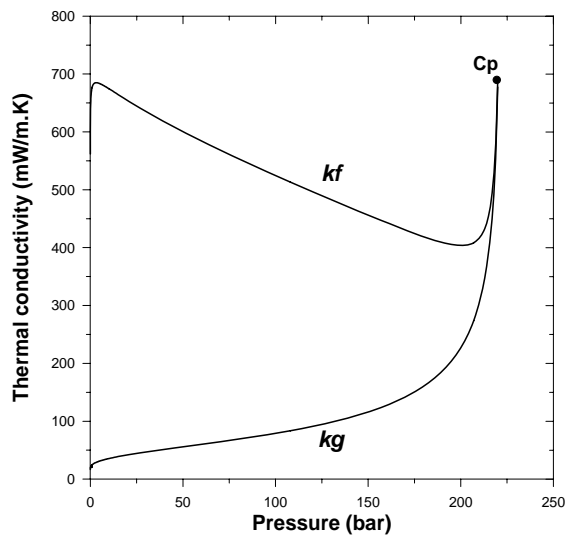
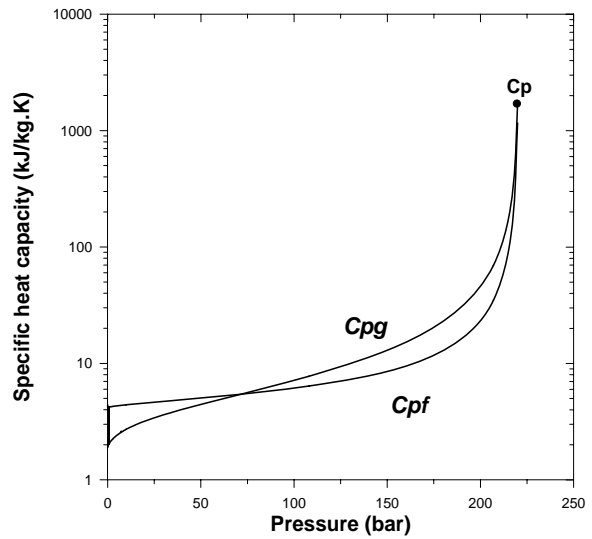
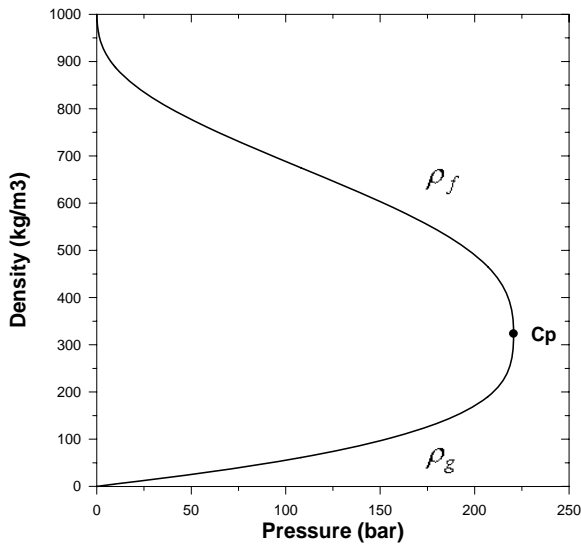
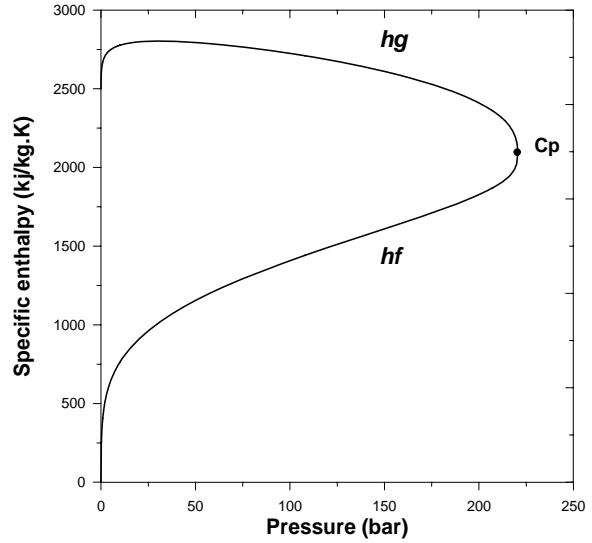
| T [°C] | P_s [bar] | h_f h_{fg} h_g [kJ/kg] | s_f s_{fg} s_g [kJ/kg °K] | ρ_f ρ_g [kg/m ³] | Cp_f Cp_g [kJ/kg °K] | k_f k_g $10^{-3} \times$ [W/m °K] | μ_f μ_g $10^{-6} \times$ [kg/m.s] |
|--------------------------|----------------|---------------------------------|------------------------------------|---|-----------------------------|---|---|
| 367 | 203.023 | 1844.1 547.9 2392.0 | 4.041 0.856 4.897 | 480.34 178.3709 | 26.999 53.620 | 404.4 243.88 | 55.1 28.02 |
| 368 | 205.465 | 1858.8 516.0 2374.8 | 4.063 0.805 4.868 | 471.36 185.2685 | 31.277 62.374 | 406.3 260.94 | 54.2 28.5 |
| 369 | 207.935 | 1874.8 480.7 2355.5 | 4.087 0.749 4.836 | 461.38 193.0874 | 37.452 74.711 | 410.4 282.11 | 53.1 29.05 |
| 370 | 210.434 | 1892.6 440.9 2333.5 | 4.114 0.685 4.800 | 450.03 202.1756 | 47.096 93.401 | 418.1 309.47 | 51.9 29.7 |
| 371 | 212.964 | 1913.3 394.2 2307.5 | 4.145 0.612 4.757 | 436.64 213.1559 | 64.099 125.065 | 432.6 346.99 | 50.5 30.5 |
| 372 | 215.528 | 1938.5 336.2 2274.7 | 4.184 0.521 4.705 | 419.87 227.3514 | 101.160 190.326 | 462.0 403.69 | 48.8 31.56 |
| 373 | 218.132 | 1974.1 253.4 2227.6 | 4.238 0.392 4.630 | 395.82 248.6809 | 231.907 401.126 | 535.0 507.03 | 46.4 33.22 |
| 373.94 6 [§] | 220.64 | 2087.5 0.0 2087.5 | 4.412 0 4.412 | 322 322 | | | |

[§] critical point 373.946 °C and 220.64 bar

Water and Steam Properties

Function of

Pressure



Saturated Water and Steam (Pressure Table)

S. Zarrouk & A. Watson (2010)

| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-----------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 0.006116 [†] | 0.01 | 0.0 2500.9 2500.9 | 0.0 9.155 9.155 | 999.79 0.0429 | 4.419 1.888 | 562.0 16.49 | 1792 9.22 |
| 0.01 | 6.97 | 29.3 2484.4 2513.7 | 0.106 8.869 8.975 | 999.86 0.0077 | 4.201 1.893 | 576.1 16.99 | 1429 9.38 |
| 0.015 | 13.02 | 54.7 2470.1 2524.7 | 0.196 8.631 8.827 | 999.33 0.0114 | 4.192 1.899 | 587.5 17.44 | 1201 9.54 |
| 0.02 | 17.50 | 73.4 2459.5 2532.9 | 0.261 8.462 8.723 | 998.64 0.0149 | 4.187 1.903 | 595.3 17.77 | 1067 9.66 |
| 0.025 | 21.08 | 88.4 2451.0 2539.4 | 0.312 8.330 8.642 | 997.93 0.0184 | 4.184 1.907 | 601.2 18.03 | 976.2 9.76 |
| 0.03 | 24.08 | 101.0 2443.9 2544.9 | 0.354 8.222 8.577 | 997.24 0.0219 | 4.183 1.911 | 606.0 18.26 | 909.0 9.84 |
| 0.035 | 26.67 | 111.8 2437.7 2549.6 | 0.391 8.131 8.521 | 996.56 0.0253 | 4.181 1.914 | 610.1 18.45 | 858.0 9.91 |
| 0.04 | 28.97 | 121.4 2432.3 2553.7 | 0.422 8.051 8.473 | 995.92 0.0287 | 4.181 1.917 | 613.4 18.63 | 816.0 9.98 |
| 0.045 | 31.01 | 130.0 2427.4 2557.4 | 0.451 7.981 8.431 | 995.30 0.0321 | 4.180 1.919 | 616.4 18.78 | 780.0 10.04 |
| 0.05 | 32.88 | 137.8 2423.0 2560.8 | 0.476 7.918 8.394 | 994.71 0.0355 | 4.180 1.922 | 619.0 18.93 | 751.0 10.09 |
| 0.055 | 34.58 | 144.9 2418.9 2563.8 | 0.500 7.861 8.360 | 994.14 0.0388 | 4.179 1.924 | 621.4 19.06 | 726.0 10.14 |
| 0.06 | 36.16 | 151.5 2415.2 2566.7 | 0.521 7.808 8.329 | 993.59 0.0421 | 4.179 1.927 | 623.5 19.18 | 703.0 10.19 |
| 0.065 | 37.63 | 157.6 2411.7 2569.3 | 0.541 7.760 8.301 | 993.07 0.0454 | 4.179 1.929 | 625.5 19.30 | 683.0 10.24 |
| 0.07 | 39.00 | 163.4 2408.4 2571.8 | 0.559 7.715 8.275 | 992.56 0.0487 | 4.179 1.931 | 627.3 19.40 | 666.0 10.28 |
| 0.075 | 40.29 | 168.8 2405.3 2574.1 | 0.576 7.674 8.250 | 992.07 0.0520 | 4.179 1.933 | 628.9 19.50 | 650.0 10.32 |
| 0.08 | 41.51 | 173.9 2402.4 2576.2 | 0.593 7.635 8.227 | 991.60 0.0553 | 4.179 1.935 | 630.5 19.60 | 635.0 10.35 |
| 0.085 | 42.66 | 178.7 2399.6 2578.3 | 0.608 7.598 8.206 | 991.14 0.0585 | 4.179 1.936 | 631.9 19.69 | 622.0 10.39 |
| 0.09 | 43.76 | 183.3 2397.0 2580.3 | 0.622 7.564 8.186 | 990.70 0.0617 | 4.179 1.938 | 633.2 19.78 | 610.0 10.42 |
| 0.095 | 44.81 | 187.6 2394.5 2582.1 | 0.636 7.531 8.167 | 990.26 0.0650 | 4.179 1.940 | 634.5 19.86 | 598.0 10.45 |
| 0.10 | 45.81 | 191.8 2392.1 2583.9 | 0.649 7.500 8.149 | 989.84 0.0682 | 4.179 1.941 | 635.7 19.94 | 588.0 10.48 |
| 0.11 | 47.68 | 199.7 2387.6 2587.2 | 0.674 7.442 8.115 | 989.04 0.0746 | 4.179 1.944 | 637.9 20.09 | 569.0 10.54 |
| 0.12 | 49.42 | 206.9 2383.4 2590.3 | 0.696 7.389 8.085 | 988.27 0.0809 | 4.180 1.947 | 639.8 20.23 | 522.0 10.6 |
| 0.13 | 51.04 | 213.7 2379.5 2593.1 | 0.717 7.340 8.057 | 987.54 0.0872 | 4.180 1.950 | 641.6 20.36 | 538.0 10.65 |
| 0.14 | 52.55 | 220.0 2375.8 2595.8 | 0.737 7.295 8.031 | 986.84 0.0935 | 4.180 1.953 | 643.2 20.49 | 524.0 16.7 |
| 0.15 | 53.97 | 225.9 2372.4 2598.3 | 0.755 7.252 8.007 | 986.17 0.0998 | 4.181 1.955 | 644.7 20.60 | 513.0 10.74 |
| 0.16 | 55.31 | 231.6 2369.1 2600.7 | 0.772 7.213 7.985 | 985.52 0.1060 | 4.181 1.958 | 646.1 20.71 | 502.0 10.78 |
| 0.17 | 56.59 | 236.9 2366.0 2602.9 | 0.788 7.175 7.964 | 984.89 0.1122 | 4.182 1.960 | 647.4 20.82 | 492.0 10.82 |
| 0.18 | 57.80 | 241.9 2363.1 2605.0 | 0.803 7.140 7.944 | 984.29 0.1184 | 4.182 1.962 | 648.6 20.92 | 483.0 10.86 |
| 0.19 | 58.95 | 246.8 2360.2 2607.0 | 0.818 7.107 7.925 | 983.71 0.1246 | 4.183 1.964 | 649.8 21.02 | 474.0 10.9 |
| 0.20 | 60.06 | 251.4 2357.5 2608.9 | 0.832 7.075 7.907 | 983.15 0.1308 | 4.183 1.967 | 650.8 21.11 | 465.9 10.94 |
| 0.21 | 61.12 | 255.8 2355.0 2610.8 | 0.845 7.045 7.890 | 982.60 0.1369 | 4.183 1.969 | 651.8 21.20 | 458.9 10.97 |
| 0.22 | 62.13 | 260.1 2352.5 2612.6 | 0.858 7.016 7.874 | 982.07 0.1430 | 4.184 1.971 | 652.8 21.28 | 451.8 11 |
| 0.23 | 63.11 | 264.2 2350.1 2614.2 | 0.870 6.989 7.859 | 981.55 0.1491 | 4.184 1.973 | 653.7 21.37 | 445.4 11.03 |
| 0.24 | 64.05 | 268.1 2347.8 2615.9 | 0.882 6.962 7.844 | 981.04 0.1551 | 4.185 1.974 | 654.5 21.45 | 439.4 11.07 |
| 0.25 | 64.96 | 271.9 2345.5 2617.4 | 0.893 6.937 7.830 | 980.55 0.1612 | 4.185 1.976 | 655.3 21.53 | 433.6 11.09 |
| 0.26 | 65.84 | 275.6 2343.4 2619.0 | 0.904 6.913 7.817 | 980.07 0.1672 | 4.186 1.978 | 656.1 21.60 | 428.2 11.12 |
| 0.27 | 66.69 | 279.2 2341.3 2620.4 | 0.914 6.889 7.804 | 979.61 0.1733 | 4.186 1.980 | 656.8 21.67 | 423.0 11.15 |
| 0.28 | 67.52 | 282.6 2339.2 2621.8 | 0.925 6.867 7.791 | 979.15 0.1793 | 4.187 1.982 | 657.5 21.75 | 418.2 11.18 |
| 0.29 | 68.32 | 286.0 2337.2 2623.2 | 0.934 6.845 7.779 | 978.70 0.1853 | 4.187 1.984 | 658.2 21.82 | 413.5 11.2 |

[†] triple point

Saturated Water and Steam (Pressure Table)

S. Zarrouk & A. Watson (2010)

| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 0.30 | 69.10 | 289.2 2335.3 2624.6 | 0.944 6.824 7.767 | 978.26 0.1913 | 4.188 1.985 | 658.8 21.88 | 409.1 11.23 |
| 0.31 | 69.85 | 292.4 2333.5 2625.8 | 0.953 6.803 7.756 | 977.83 0.1972 | 4.188 1.987 | 659.5 21.95 | 404.8 11.25 |
| 0.32 | 70.59 | 295.5 2331.6 2627.1 | 0.962 6.783 7.745 | 977.41 0.2032 | 4.189 1.989 | 660.0 22.04 | 400.8 11.28 |
| 0.33 | 71.30 | 298.5 2329.8 2628.3 | 0.971 6.764 7.735 | 977.00 0.2091 | 4.189 1.991 | 660.6 22.08 | 396.9 11.3 |
| 0.34 | 72.00 | 301.4 2328.1 2629.5 | 0.979 6.745 7.725 | 976.60 0.2151 | 4.190 1.992 | 661.2 22.14 | 393.2 11.33 |
| 0.35 | 72.68 | 304.3 2326.4 2630.7 | 0.988 6.727 7.715 | 976.20 0.2210 | 4.190 1.994 | 661.7 22.20 | 389.6 11.35 |
| 0.36 | 73.35 | 307.0 2324.8 2631.8 | 0.996 6.709 7.705 | 975.81 0.2269 | 4.191 1.995 | 662.2 22.26 | 386.2 11.37 |
| 0.37 | 73.99 | 309.8 2323.1 2632.9 | 1.003 6.692 7.696 | 975.43 0.2328 | 4.191 1.997 | 662.7 22.32 | 388.9 11.39 |
| 0.38 | 74.63 | 312.4 2321.6 2634.0 | 1.011 6.675 7.686 | 975.05 0.2387 | 4.191 1.998 | 663.2 22.37 | 379.7 11.41 |
| 0.39 | 75.25 | 315.0 2320.0 2635.0 | 1.019 6.659 7.678 | 974.68 0.2446 | 4.192 2.000 | 663.6 22.43 | 376.6 11.43 |
| 0.40 | 75.86 | 317.6 2318.5 2636.1 | 1.026 6.643 7.669 | 974.32 0.2504 | 4.192 2.001 | 664.1 22.48 | 373.6 11.45 |
| 0.41 | 76.45 | 320.1 2317.0 2637.1 | 1.033 6.628 7.661 | 973.96 0.2563 | 4.193 2.003 | 664.5 22.54 | 370.8 11.47 |
| 0.42 | 77.03 | 322.5 2315.5 2638.0 | 1.040 6.612 7.652 | 973.60 0.2621 | 4.193 2.004 | 664.9 22.59 | 368.0 11.49 |
| 0.43 | 77.61 | 324.9 2314.1 2639.0 | 1.047 6.597 7.644 | 973.26 0.2680 | 4.194 2.006 | 665.3 22.64 | 365.3 11.51 |
| 0.44 | 78.17 | 327.2 2312.7 2639.9 | 1.054 6.583 7.636 | 972.91 0.2738 | 4.194 2.007 | 665.7 22.69 | 362.7 11.53 |
| 0.45 | 78.71 | 329.6 2311.3 2640.9 | 1.060 6.569 7.629 | 972.58 0.2796 | 4.195 2.009 | 666.1 22.74 | 360.2 11.55 |
| 0.46 | 79.25 | 331.8 2309.9 2641.8 | 1.067 6.555 7.621 | 972.24 0.2855 | 4.195 2.010 | 666.5 22.79 | 357.8 11.57 |
| 0.47 | 79.78 | 334.0 2308.6 2642.7 | 1.073 6.541 7.614 | 971.91 0.2913 | 4.196 2.011 | 666.8 22.84 | 355.4 11.58 |
| 0.48 | 80.30 | 336.2 2307.3 2643.5 | 1.079 6.528 7.607 | 971.59 0.2971 | 4.196 2.013 | 667.2 22.89 | 353.1 11.6 |
| 0.49 | 80.81 | 338.4 2306.0 2644.4 | 1.085 6.515 7.600 | 971.27 0.3028 | 4.196 2.014 | 667.5 22.93 | 350.9 11.62 |
| 0.50 | 81.32 | 340.5 2304.7 2645.2 | 1.091 6.502 7.593 | 970.95 0.3086 | 4.197 2.016 | 667.8 22.98 | 348.7 11.64 |
| 0.51 | 81.81 | 342.6 2303.5 2646.0 | 1.097 6.489 7.586 | 970.64 0.3144 | 4.197 2.017 | 668.2 23.03 | 346.6 11.65 |
| 0.52 | 82.30 | 344.6 2302.3 2646.8 | 1.103 6.477 7.580 | 970.34 0.3202 | 4.198 2.018 | 668.5 23.07 | 344.5 11.67 |
| 0.53 | 82.77 | 346.6 2301.0 2647.6 | 1.108 6.465 7.573 | 970.03 0.3259 | 4.198 2.020 | 668.8 23.12 | 342.5 11.68 |
| 0.54 | 83.25 | 348.6 2299.8 2648.4 | 1.114 6.453 7.567 | 969.73 0.3317 | 4.199 2.021 | 669.1 23.16 | 340.6 11.7 |
| 0.55 | 83.71 | 350.5 2298.7 2649.2 | 1.119 6.441 7.561 | 969.43 0.3374 | 4.199 2.022 | 669.4 23.20 | 338.6 11.72 |
| 0.56 | 84.21 | 352.4 2297.5 2649.9 | 1.125 6.430 7.554 | 969.14 0.3432 | 4.199 2.024 | 669.6 23.25 | 336.8 11.73 |
| 0.57 | 84.62 | 354.3 2296.4 2650.7 | 1.130 6.419 7.548 | 968.85 0.3489 | 4.200 2.025 | 669.9 23.29 | 335.0 11.75 |
| 0.58 | 85.06 | 356.2 2295.2 2651.4 | 1.135 6.408 7.543 | 968.57 0.3546 | 4.200 2.203 | 670.2 23.33 | 333.2 11.76 |
| 0.59 | 85.50 | 358.0 2294.1 2652.1 | 1.140 6.397 7.537 | 968.28 0.3603 | 4.201 2.028 | 670.4 23.37 | 331.5 11.78 |
| 0.60 | 85.93 | 359.8 2293.0 2652.9 | 1.145 6.386 7.531 | 968.00 0.3661 | 4.201 2.029 | 670.7 23.41 | 329.8 11.79 |
| 0.61 | 86.35 | 361.6 2291.9 2653.6 | 1.150 6.375 7.526 | 967.72 0.3718 | 4.201 2.030 | 671.0 23.45 | 328.1 11.8 |
| 0.62 | 86.77 | 363.4 2290.9 2654.2 | 1.155 6.365 7.520 | 967.45 0.3775 | 4.202 2.031 | 671.2 23.49 | 326.5 11.82 |
| 0.63 | 87.17 | 365.1 2289.8 2654.9 | 1.160 6.355 7.515 | 967.18 0.3832 | 4.202 2.033 | 671.4 23.53 | 324.9 11.83 |
| 0.64 | 87.59 | 366.8 2288.8 2655.6 | 1.165 6.345 7.509 | 966.91 0.3888 | 4.203 2.034 | 671.7 23.57 | 323.4 11.85 |
| 0.65 | 87.99 | 368.5 2287.7 2656.3 | 1.169 6.335 7.504 | 966.64 0.3945 | 4.203 2.035 | 671.9 23.61 | 321.9 11.86 |
| 0.66 | 88.39 | 370.2 2286.7 2656.9 | 1.174 6.325 7.499 | 966.38 0.4002 | 4.203 2.036 | 672.1 23.65 | 320.4 11.87 |
| 0.67 | 88.78 | 371.8 2285.7 2657.5 | 1.179 6.315 7.494 | 966.12 0.4059 | 4.204 2.038 | 672.3 23.68 | 318.9 11.89 |
| 0.68 | 89.17 | 373.5 2284.7 2658.2 | 1.183 6.306 7.489 | 965.86 0.4115 | 4.204 2.039 | 672.6 23.72 | 317.5 11.9 |
| 0.69 | 89.55 | 375.1 2283.7 2658.8 | 1.187 6.296 7.484 | 965.60 0.4172 | 4.205 2.040 | 672.8 23.76 | 316.1 11.91 |
| 0.70 | 89.93 | 376.7 2282.7 2659.4 | 1.192 6.287 7.479 | 965.35 0.4229 | 4.205 2.041 | 673.0 23.79 | 314.7 11.93 |

Saturated Water and Steam (Pressure Table)

S. Zarrouk & A. Watson (2010)

| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 0.71 | 90.31 | 378.3 2281.8 2660.0 | 1.196 6.278 7.474 | 965.10 0.4285 | 4.205 2.043 | 673.2 23.83 | 313.4 11.94 |
| 0.72 | 90.67 | 379.8 2280.8 2660.6 | 1.200 6.269 7.469 | 964.85 0.4341 | 4.206 2.044 | 673.4 23.87 | 312.1 11.95 |
| 0.73 | 91.04 | 381.3 2279.9 2661.2 | 1.205 6.260 7.465 | 964.60 0.4398 | 2.046 2.045 | 673.6 23.90 | 310.8 11.96 |
| 0.74 | 91.40 | 382.9 2278.9 2661.8 | 1.209 6.251 7.460 | 964.36 0.4454 | 4.207 2.046 | 673.7 23.94 | 309.5 11.98 |
| 0.75 | 91.76 | 384.4 2278.0 2662.4 | 1.213 6.243 7.456 | 964.12 0.4510 | 4.207 2.041 | 673.9 23.97 | 308.2 11.99 |
| 0.76 | 92.11 | 385.9 2277.1 2663.0 | 1.217 6.234 7.451 | 963.88 0.4567 | 4.207 2.049 | 674.1 24.01 | 307.0 12 |
| 0.77 | 92.46 | 387.3 2276.2 2663.5 | 1.221 6.226 7.447 | 963.64 0.4623 | 4.208 2.050 | 674.3 24.04 | 305.8 12.01 |
| 0.78 | 92.81 | 388.8 2275.3 2664.1 | 1.225 6.217 7.442 | 963.40 0.4679 | 4.208 2.051 | 674.5 24.07 | 304.7 12.02 |
| 0.79 | 93.15 | 390.2 2274.4 2664.6 | 1.229 6.209 7.438 | 963.17 0.4735 | 4.209 2.052 | 674.6 24.11 | 303.5 12.03 |
| 0.80 | 93.49 | 391.6 2273.5 2665.2 | 1.233 6.201 7.434 | 962.94 0.4791 | 4.209 2.053 | 674.8 24.14 | 302.4 12.05 |
| 0.81 | 93.82 | 393.0 2272.7 2665.7 | 1.237 6.193 7.430 | 962.70 0.4847 | 4.209 2.055 | 675.0 24.17 | 301.3 12.06 |
| 0.82 | 94.15 | 394.4 2271.8 2666.3 | 1.240 6.185 7.426 | 962.48 0.4903 | 4.210 2.056 | 675.1 24.21 | 300.1 12.07 |
| 0.83 | 94.48 | 395.8 2271.0 2666.8 | 1.244 6.177 7.421 | 962.25 0.4959 | 4.210 2.057 | 675.3 24.24 | 299.1 12.08 |
| 0.84 | 94.80 | 397.2 2270.1 2667.3 | 1.248 6.170 7.417 | 962.02 0.5015 | 4.210 2.058 | 675.4 24.27 | 298.0 12.09 |
| 0.85 | 95.13 | 398.5 2269.3 2667.8 | 1.252 6.162 7.413 | 961.80 0.5071 | 4.211 2.059 | 675.6 24.30 | 297.0 12.1 |
| 0.86 | 95.44 | 399.9 2268.4 2668.3 | 1.255 6.154 7.410 | 961.58 0.5126 | 4.211 2.060 | 675.7 24.34 | 295.9 12.11 |
| 0.87 | 95.76 | 401.2 2267.6 2668.8 | 1.259 6.147 7.406 | 961.36 0.5182 | 4.212 2.061 | 675.9 24.37 | 294.9 12.12 |
| 0.88 | 96.07 | 402.5 2266.8 2669.3 | 1.262 6.139 7.402 | 961.14 0.5238 | 4.212 2.063 | 676.0 24.40 | 293.9 12.13 |
| 0.89 | 96.38 | 403.8 2266.0 2669.8 | 1.266 6.132 7.398 | 960.92 0.5294 | 4.212 2.064 | 676.2 24.43 | 292.9 12.14 |
| 0.90 | 96.69 | 405.1 2265.2 2670.3 | 1.269 6.125 7.394 | 960.71 0.5349 | 4.213 2.065 | 676.3 24.46 | 291.9 12.16 |
| 0.91 | 96.96 | 406.4 2264.4 2670.8 | 1.273 6.118 7.391 | 960.49 0.5405 | 4.213 2.066 | 676.5 24.49 | 291.0 12.17 |
| 0.92 | 97.29 | 407.7 2263.6 2671.3 | 1.276 6.111 7.387 | 960.28 0.5460 | 4.213 2.067 | 676.6 24.52 | 290.0 12.18 |
| 0.93 | 97.59 | 408.9 2262.8 2671.8 | 1.280 6.103 7.383 | 960.07 0.5516 | 4.214 2.068 | 676.7 24.55 | 289.1 12.19 |
| 0.94 | 97.89 | 410.2 2262.0 2672.2 | 1.283 6.097 7.380 | 959.86 0.5571 | 4.214 2.069 | 676.9 24.58 | 288.2 12.2 |
| 0.95 | 98.18 | 411.4 2261.3 2672.7 | 1.286 6.090 7.376 | 959.66 0.5627 | 4.214 2.070 | 677.0 24.61 | 287.3 12.21 |
| 0.96 | 98.47 | 412.6 2260.5 2673.1 | 1.290 6.083 7.373 | 959.45 0.5682 | 4.215 2.072 | 677.1 24.64 | 286.4 12.22 |
| 0.97 | 98.76 | 413.9 2259.8 2673.6 | 1.293 6.076 7.369 | 959.24 0.5737 | 4.215 2.073 | 677.2 24.67 | 285.5 12.23 |
| 0.98 | 99.04 | 415.1 2259.0 2674.1 | 1.296 6.069 7.366 | 959.04 0.5793 | 4.215 2.074 | 677.4 24.70 | 284.7 12.24 |
| 0.99 | 99.33 | 416.3 2258.3 2674.5 | 1.299 6.063 7.362 | 958.84 0.5848 | 4.216 2.075 | 677.5 24.73 | 283.8 12.25 |
| 1 | 99.61 | 417.4 2257.5 2675.0 | 1.303 6.056 7.359 | 958.64 0.5903 | 4.216 2.076 | 677.6 24.75 | 283.0 12.25 |
| 1.1 | 102.29 | 428.8 2250.4 2679.2 | 1.333 5.994 7.327 | 956.70 0.6453 | 4.220 2.087 | 678.7 25.03 | 275.2 12.35 |
| 1.2 | 104.80 | 439.3 2243.8 2683.1 | 1.361 5.937 7.298 | 954.87 0.7001 | 4.223 2.097 | 679.6 25.29 | 268.3 12.43 |
| 1.3 | 107.11 | 449.1 2237.5 2686.6 | 1.387 5.884 7.271 | 953.14 0.7545 | 4.226 2.108 | 680.4 25.54 | 262.1 12.51 |
| 1.4 | 109.29 | 458.4 2231.6 2690.0 | 1.411 5.835 7.246 | 951.49 0.8086 | 4.229 2.118 | 681.1 25.77 | 256.5 12.59 |
| 1.5 | 111.35 | 467.1 2226.0 2693.1 | 1.434 5.789 7.223 | 949.92 0.8625 | 4.232 2.128 | 681.7 25.99 | 251.5 12.66 |
| 1.6 | 113.30 | 475.3 2220.7 2696.0 | 1.455 5.746 7.201 | 948.41 0.9162 | 4.235 2.138 | 682.2 26.21 | 246.8 12.72 |
| 1.7 | 115.15 | 483.2 2215.6 2698.8 | 1.475 5.706 7.181 | 946.97 0.9697 | 4.238 2.147 | 682.6 26.41 | 242.6 12.79 |
| 1.8 | 116.91 | 490.7 2210.7 2701.4 | 1.494 5.668 7.162 | 945.57 1.0230 | 4.241 2.157 | 683.0 26.61 | 238.7 12.85 |
| 1.9 | 118.60 | 497.8 2206.1 2703.9 | 1.513 5.631 7.144 | 944.23 1.0761 | 4.244 2.166 | 683.4 26.80 | 235.0 12.91 |
| 2 | 120.21 | 504.7 2201.6 2706.2 | 1.530 5.597 7.127 | 942.94 1.1290 | 4.247 2.175 | 683.6 26.99 | 231.7 12.96 |
| 2.1 | 121.76 | 511.3 2197.2 2708.5 | 1.547 5.564 7.111 | 941.68 1.1818 | 4.244 2.184 | 683.9 27.17 | 228.5 13.02 |

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| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 2.2 | 123.25 | 517.6 2193.0 2710.6 | 1.563 5.532 7.095 | 940.46 1.2344 | 4.252 2.193 | 684.1 27.34 | 225.5 13.07 |
| 2.3 | 124.69 | 523.7 2188.9 2712.7 | 1.578 5.502 7.080 | 939.28 1.2869 | 4.255 2.202 | 684.3 27.51 | 222.7 13.12 |
| 2.4 | 126.07 | 529.6 2185.0 2714.6 | 1.593 5.473 7.066 | 938.13 1.3392 | 4.257 2.211 | 684.5 27.68 | 220.1 13.16 |
| 2.5 | 127.41 | 535.4 2181.2 2716.5 | 1.607 5.445 7.052 | 937.01 1.3914 | 4.260 2.220 | 684.6 27.84 | 217.6 13.21 |
| 2.6 | 128.73 | 540.9 2177.4 2718.3 | 1.621 5.418 7.039 | 935.92 1.4435 | 4.262 2.228 | 684.7 27.99 | 215.2 13.26 |
| 2.7 | 129.97 | 546.3 2173.8 2720.0 | 1.634 5.392 7.027 | 934.86 1.4955 | 4.265 2.237 | 684.8 28.15 | 213.0 13.3 |
| 2.8 | 131.19 | 551.5 2170.3 2721.7 | 1.647 5.367 7.015 | 933.82 1.5473 | 4.267 2.245 | 684.9 28.30 | 210.9 13.34 |
| 2.9 | 132.37 | 556.5 2166.8 2723.3 | 1.660 5.343 7.003 | 932.81 1.5991 | 4.270 2.254 | 684.9 28.45 | 208.8 13.38 |
| 3 | 133.53 | 561.5 2163.4 2724.9 | 1.672 5.320 6.992 | 931.81 1.6507 | 4.272 2.262 | 684.9 28.59 | 206.9 13.42 |
| 3.1 | 134.65 | 566.3 2160.1 2726.4 | 1.684 5.297 6.981 | 930.84 1.7023 | 4.274 2.270 | 685.0 28.73 | 205.0 13.46 |
| 3.2 | 135.74 | 570.9 2156.9 2727.9 | 1.695 5.275 6.970 | 929.89 1.7538 | 4.278 2.278 | 685.0 28.87 | 203.2 13.5 |
| 3.3 | 136.81 | 575.5 2153.8 2729.3 | 1.706 5.254 6.960 | 928.96 1.8052 | 4.279 2.286 | 685.0 29.01 | 201.5 13.54 |
| 3.4 | 137.85 | 580.0 2150.7 2730.6 | 1.717 5.233 6.950 | 928.04 1.8565 | 4.281 2.294 | 684.9 29.14 | 199.9 13.57 |
| 3.5 | 138.86 | 584.3 2147.7 2732.0 | 1.727 5.213 6.940 | 927.15 1.9077 | 4.284 2.302 | 684.9 29.27 | 198.3 13.61 |
| 3.6 | 139.85 | 588.6 2144.7 2733.3 | 1.738 5.193 6.931 | 926.26 1.9588 | 4.286 2.310 | 684.9 29.40 | 196.8 13.64 |
| 3.7 | 140.82 | 592.7 2141.8 2734.5 | 1.748 5.174 6.922 | 925.40 2.0099 | 4.288 2.318 | 684.8 29.53 | 195.3 13.67 |
| 3.8 | 141.77 | 596.8 2138.9 2735.7 | 1.758 5.155 6.913 | 924.55 2.0609 | 4.290 2.325 | 684.8 29.65 | 193.9 13.71 |
| 3.9 | 142.70 | 600.8 2136.1 2736.9 | 1.767 5.137 6.904 | 923.71 2.1118 | 4.292 2.333 | 684.7 29.78 | 192.6 13.74 |
| 4 | 143.61 | 604.7 2133.3 2738.1 | 1.777 5.119 6.895 | 922.89 2.1627 | 4.294 2.340 | 684.6 29.90 | 191.2 13.77 |
| 4.1 | 144.50 | 608.6 2130.6 2739.2 | 1.786 5.101 6.887 | 922.07 2.2135 | 4.297 2.348 | 684.5 30.02 | 190.0 13.8 |
| 4.2 | 145.38 | 612.3 2127.9 2740.3 | 1.795 5.084 6.879 | 921.28 2.2642 | 4.299 2.355 | 684.5 30.14 | 188.7 13.83 |
| 4.3 | 146.24 | 616.0 2125.3 2741.3 | 1.804 5.068 6.871 | 920.49 2.3149 | 4.301 2.363 | 684.4 30.26 | 187.6 13.86 |
| 4.4 | 147.08 | 619.7 2122.7 2742.4 | 1.812 5.051 6.863 | 919.72 2.3655 | 4.303 2.370 | 684.3 30.37 | 186.4 13.89 |
| 4.5 | 147.91 | 623.2 2120.2 2743.4 | 1.821 5.035 6.856 | 918.95 2.4160 | 4.305 2.377 | 684.2 30.48 | 185.3 13.92 |
| 4.6 | 148.72 | 626.7 2117.6 2744.4 | 1.829 5.020 6.849 | 918.20 2.4665 | 4.307 2.384 | 684.1 30.60 | 184.2 13.95 |
| 4.7 | 149.52 | 630.2 2115.2 2745.3 | 1.837 5.004 6.841 | 917.46 2.5170 | 4.309 2.392 | 683.9 30.71 | 183.1 13.97 |
| 4.8 | 150.30 | 633.6 2112.7 2746.3 | 1.845 4.989 6.834 | 916.72 2.5674 | 4.311 2.399 | 683.8 30.82 | 182.1 14 |
| 4.9 | 151.08 | 636.9 2110.3 2747.2 | 1.853 4.974 6.827 | 916.00 2.6178 | 4.313 2.406 | 683.7 30.93 | 181.1 14.03 |
| 5 | 151.84 | 640.2 2107.9 2748.1 | 1.861 4.960 6.821 | 915.28 2.6681 | 4.315 2.413 | 683.6 31.03 | 180.1 14.05 |
| 5.1 | 152.58 | 643.4 2105.6 2749.0 | 1.868 4.946 6.814 | 914.58 2.7183 | 4.317 2.420 | 683.4 31.14 | 179.2 14.08 |
| 5.2 | 153.32 | 646.6 2103.3 2749.9 | 1.876 4.932 6.807 | 913.88 2.7685 | 4.319 2.427 | 683.3 31.24 | 178.2 14.11 |
| 5.3 | 154.04 | 649.7 2101.0 2750.7 | 1.883 4.918 6.801 | 913.19 2.8187 | 4.321 2.433 | 683.2 31.35 | 177.3 14.13 |
| 5.4 | 154.76 | 652.8 2098.7 2751.5 | 1.890 4.905 6.795 | 912.51 2.8688 | 4.323 2.440 | 683.0 31.45 | 176.5 14.15 |
| 5.5 | 155.46 | 655.9 2096.5 2752.3 | 1.897 4.891 6.789 | 911.84 2.9189 | 4.325 2.447 | 682.9 31.55 | 175.6 14.18 |
| 5.6 | 156.15 | 658.9 2094.2 2753.1 | 1.904 4.878 6.782 | 911.18 2.9690 | 4.327 2.454 | 682.7 31.65 | 174.8 14.2 |
| 5.7 | 156.73 | 661.8 2092.1 2753.9 | 1.911 4.865 6.776 | 910.52 3.0190 | 4.329 2.460 | 682.6 31.75 | 174.0 14.23 |
| 5.8 | 157.51 | 664.8 2089.9 2754.7 | 1.918 4.853 6.771 | 909.87 3.0690 | 4.331 2.467 | 682.4 31.85 | 173.2 14.25 |
| 5.9 | 158.18 | 667.7 2087.8 2755.4 | 1.925 4.840 6.765 | 909.23 3.1189 | 4.333 2.474 | 682.3 31.95 | 172.4 14.27 |
| 6 | 158.83 | 670.5 2085.6 2756.1 | 1.931 4.828 6.759 | 908.59 3.1688 | 4.335 2.480 | 682.1 32.05 | 171.6 14.3 |
| 6.1 | 159.48 | 673.3 2083.5 2756.9 | 1.938 4.816 6.754 | 907.96 3.2187 | 4.336 2.487 | 681.9 32.14 | 170.9 14.32 |
| 6.2 | 160.12 | 676.1 2081.5 2757.6 | 1.944 4.804 6.748 | 907.34 3.2685 | 4.338 2.493 | 681.7 32.24 | 170.1 14.34 |

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|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 6.3 | 160.75 | 678.8 2079.4 2758.3 | 1.950 4.792 6.743 | 906.72 3.3183 | 4.340 2.499 | 681.6 32.33 | 169.4 14.36 |
| 6.4 | 161.37 | 681.5 2077.4 2758.9 | 1.956 4.781 6.737 | 906.11 3.3681 | 4.342 2.506 | 681.4 32.43 | 168.7 14.38 |
| 6.5 | 161.99 | 684.2 2075.4 2759.6 | 1.963 4.770 6.732 | 905.50 3.4179 | 4.344 2.512 | 681.3 32.52 | 168.0 14.4 |
| 6.6 | 162.59 | 686.9 2073.4 2760.2 | 1.969 4.758 6.727 | 904.90 3.4676 | 4.346 2.518 | 681.1 32.61 | 167.4 14.43 |
| 6.7 | 163.19 | 689.5 2071.4 2760.9 | 1.975 4.747 6.722 | 904.31 3.5173 | 4.348 2.525 | 680.9 32.70 | 166.7 14.45 |
| 6.8 | 163.79 | 692.1 2069.5 2761.5 | 1.981 4.736 6.717 | 903.72 3.5669 | 4.349 2.531 | 680.8 32.80 | 166.1 14.47 |
| 6.9 | 164.37 | 694.6 2067.5 2762.1 | 1.986 4.726 6.712 | 903.13 3.6166 | 4.351 2.537 | 680.6 32.89 | 165.4 14.49 |
| 7 | 164.95 | 697.1 2065.6 2762.7 | 1.992 4.715 6.707 | 902.56 3.6662 | 4.353 2.543 | 680.4 32.97 | 164.8 14.51 |
| 7.1 | 165.53 | 699.6 2063.7 2763.3 | 1.998 4.704 6.702 | 901.98 3.7158 | 4.355 2.549 | 680.2 33.06 | 164.2 14.53 |
| 7.2 | 166.09 | 702.1 2061.8 2763.9 | 2.003 4.694 6.697 | 901.41 3.7653 | 4.357 2.556 | 680.0 33.15 | 163.6 14.55 |
| 7.3 | 166.65 | 704.6 2059.9 2764.5 | 2.009 4.684 6.693 | 900.85 3.8149 | 4.359 2.616 | 679.9 33.24 | 163.0 14.56 |
| 7.4 | 167.21 | 707.0 2058.1 2765.1 | 2.014 4.674 6.688 | 900.29 3.8644 | 4.360 2.568 | 679.7 33.33 | 162.4 14.58 |
| 7.5 | 167.76 | 709.4 2056.3 2765.6 | 2.020 4.664 6.684 | 899.74 3.9139 | 4.362 2.574 | 679.5 33.41 | 161.9 14.6 |
| 7.6 | 168.30 | 711.8 2054.4 2766.2 | 2.025 4.654 6.679 | 899.19 3.9633 | 4.364 2.580 | 679.3 33.50 | 161.3 14.62 |
| 7.7 | 168.84 | 714.1 2052.6 2766.7 | 2.030 4.644 6.675 | 898.64 4.0128 | 4.366 2.586 | 679.1 33.58 | 160.8 14.64 |
| 7.8 | 169.37 | 716.4 2050.8 2767.3 | 2.036 4.634 6.670 | 898.10 4.0622 | 4.367 2.591 | 678.9 33.67 | 160.2 14.66 |
| 7.9 | 169.89 | 718.7 2049.1 2767.8 | 2.041 4.625 6.666 | 897.56 4.1116 | 4.369 2.597 | 678.7 33.75 | 159.7 14.68 |
| 8 | 170.41 | 721.0 2047.3 2768.3 | 2.046 4.616 6.662 | 897.03 4.1610 | 4.371 2.603 | 678.6 33.83 | 159.2 14.69 |
| 8.1 | 170.95 | 723.3 2045.5 2768.8 | 2.051 4.606 6.657 | 896.50 4.2104 | 4.373 2.609 | 678.4 33.92 | 158.7 14.71 |
| 8.2 | 171.44 | 725.5 2043.8 2769.3 | 2.056 4.597 6.653 | 895.98 4.2597 | 4.374 2.615 | 678.2 34.00 | 158.1 14.73 |
| 8.3 | 171.95 | 727.7 2042.1 2769.8 | 2.061 4.588 6.649 | 895.46 4.3090 | 4.376 2.621 | 678.0 34.08 | 157.7 14.75 |
| 8.4 | 172.45 | 729.9 2040.4 2770.3 | 2.066 4.579 6.645 | 894.94 4.3584 | 4.378 2.626 | 677.8 34.16 | 157.2 14.76 |
| 8.5 | 172.94 | 732.1 2038.6 2770.8 | 2.071 4.570 6.641 | 894.43 4.4076 | 4.380 2.632 | 677.6 34.24 | 156.7 14.78 |
| 8.6 | 173.43 | 734.3 2037.0 2771.2 | 2.076 4.561 6.637 | 893.92 4.4569 | 4.381 2.638 | 677.4 34.32 | 156.2 14.8 |
| 8.7 | 173.92 | 736.4 2035.3 2771.7 | 2.080 4.552 6.633 | 893.41 4.5062 | 4.383 2.643 | 677.2 34.40 | 155.7 14.82 |
| 8.8 | 174.41 | 738.5 2033.6 2772.1 | 2.085 4.544 6.629 | 892.91 4.5554 | 4.385 2.649 | 677.0 34.48 | 155.3 14.83 |
| 8.9 | 174.88 | 740.6 2032.0 2772.6 | 2.090 4.535 6.625 | 892.41 4.6047 | 4.387 2.655 | 676.8 34.56 | 154.8 14.85 |
| 9 | 175.36 | 742.7 2030.3 2773.0 | 2.094 4.527 6.621 | 891.91 4.6539 | 4.388 2.660 | 676.6 34.64 | 154.4 14.86 |
| 9.1 | 175.83 | 744.8 2028.7 2773.5 | 2.099 4.518 6.617 | 891.42 4.7031 | 4.390 2.666 | 676.4 34.72 | 153.9 14.88 |
| 9.2 | 176.29 | 746.8 2027.1 2773.9 | 2.104 4.510 6.614 | 890.93 4.7523 | 4.392 2.671 | 676.2 34.80 | 153.5 14.9 |
| 9.3 | 176.76 | 748.9 2025.4 2774.3 | 2.108 4.502 6.610 | 890.45 4.8015 | 4.393 2.677 | 676.0 34.87 | 153.1 14.91 |
| 9.4 | 177.21 | 750.9 2023.8 2774.7 | 2.112 4.494 6.606 | 889.96 4.8506 | 4.395 2.682 | 675.8 34.95 | 152.7 14.93 |
| 9.5 | 177.67 | 752.9 2022.3 2775.2 | 2.117 4.486 6.603 | 889.48 4.8998 | 4.397 2.688 | 675.6 35.03 | 152.3 14.94 |
| 9.6 | 178.12 | 754.9 2020.7 2775.6 | 2.121 4.478 6.599 | 889.01 4.9489 | 4.398 2.693 | 675.4 35.10 | 151.8 14.96 |
| 9.7 | 178.57 | 756.9 2019.1 2776.0 | 2.126 4.470 6.595 | 888.53 4.9981 | 4.400 2.699 | 675.3 35.18 | 151.4 14.97 |
| 9.8 | 179.01 | 758.8 2017.5 2776.3 | 2.130 4.462 6.592 | 888.06 5.0472 | 4.402 2.704 | 675.1 35.25 | 151.0 14.99 |
| 9.9 | 179.45 | 760.8 2016.0 2776.7 | 2.134 4.454 6.588 | 887.59 5.0963 | 4.403 2.710 | 674.9 35.33 | 150.6 15.01 |
| 10 | 180.21 | 762.7 2014.4 2777.1 | 2.138 4.447 6.585 | 887.13 5.1454 | 4.405 2.715 | 674.7 35.40 | 150.3 15.02 |
| 11 | 184.07 | 781.2 1999.5 2780.7 | 2.179 4.373 6.552 | 882.62 5.6358 | 4.422 2.768 | 672.6 36.13 | 146.6 15.16 |
| 12 | 187.96 | 798.5 1985.3 2783.8 | 2.216 4.305 6.522 | 878.35 6.1256 | 4.438 2.819 | 670.6 36.82 | 143.4 15.3 |
| 13 | 191.61 | 814.8 1971.7 2786.5 | 2.251 4.242 6.494 | 874.28 6.6149 | 4.454 2.869 | 668.6 37.49 | 140.5 15.42 |

Saturated Water and Steam (Pressure Table)

S. Zarrouk & A. Watson (2010)

| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 14 | 195.05 | 830.1 1958.8 2788.9 | 2.284 4.184 6.468 | 870.39 7.1039 | 4.470 2.917 | 666.5 38.14 | 137.9 15.54 |
| 15 | 198.30 | 844.7 1946.3 2791.0 | 2.315 4.128 6.443 | 866.65 7.5929 | 4.486 2.965 | 664.5 38.76 | 135.6 15.65 |
| 16 | 201.38 | 858.6 1934.3 2792.9 | 2.344 4.076 6.420 | 863.05 8.0820 | 4.501 3.011 | 662.5 39.37 | 133.4 15.76 |
| 17 | 204.31 | 871.9 1922.6 2794.5 | 2.371 4.027 6.398 | 859.58 8.5713 | 4.517 3.057 | 660.4 39.96 | 131.4 15.86 |
| 18 | 207.12 | 884.6 1911.4 2796.0 | 2.398 3.980 6.378 | 856.22 9.0611 | 4.532 3.102 | 658.4 40.53 | 129.5 15.96 |
| 19 | 209.81 | 896.8 1900.4 2797.3 | 2.423 3.935 6.358 | 852.96 9.5513 | 4.547 3.146 | 656.4 41.10 | 127.7 16.05 |
| 20 | 212.38 | 908.6 1889.8 2798.4 | 2.447 3.892 6.339 | 849.80 10.042 | 4.562 3.190 | 654.4 41.65 | 126.1 16.14 |
| 21 | 214.87 | 920.0 1879.4 2799.4 | 2.470 3.851 6.321 | 846.72 10.534 | 4.578 3.234 | 652.5 42.19 | 124.6 16.23 |
| 22 | 217.26 | 931.0 1869.2 2800.2 | 2.492 3.812 6.304 | 843.71 11.026 | 4.593 3.277 | 650.5 42.72 | 123.1 16.31 |
| 23 | 219.55 | 941.6 1859.3 2800.9 | 2.514 3.774 6.287 | 840.78 11.519 | 4.608 3.320 | 648.6 43.24 | 121.8 16.39 |
| 24 | 221.80 | 952.0 1849.6 2801.5 | 2.534 3.737 6.271 | 837.92 12.013 | 4.623 3.362 | 646.6 43.75 | 120.5 16.47 |
| 25 | 223.96 | 962.0 1840.1 2802.0 | 2.554 3.702 6.256 | 835.12 12.508 | 4.638 3.404 | 644.7 44.26 | 119.3 16.55 |
| 26 | 226.05 | 971.7 1830.7 2802.5 | 2.574 3.667 6.241 | 832.37 13.004 | 4.653 3.446 | 642.8 44.76 | 118.1 16.62 |
| 27 | 228.09 | 981.2 1821.5 2802.8 | 2.593 3.634 6.227 | 829.68 13.502 | 4.668 3.488 | 640.9 45.25 | 117.0 16.69 |
| 28 | 230.06 | 990.5 1812.5 2803.0 | 2.611 3.602 6.213 | 827.04 14.000 | 4.683 3.530 | 639.0 45.74 | 115.9 16.77 |
| 29 | 231.99 | 999.5 1803.6 2803.2 | 2.628 3.571 6.199 | 824.45 14.500 | 4.699 3.571 | 637.2 46.22 | 114.9 16.83 |
| 30 | 233.93 | 1008.4 1794.9 2803.3 | 2.646 3.540 6.186 | 821.90 15.001 | 4.714 3.612 | 635.3 46.69 | 114.0 16.9 |
| 31 | 235.68 | 1017.0 1786.3 2803.3 | 2.662 3.511 6.173 | 819.39 15.503 | 4.729 3.653 | 633.5 47.17 | 113.0 16.97 |
| 32 | 237.46 | 1025.5 1777.8 2803.2 | 2.679 3.482 6.160 | 816.92 16.006 | 4.744 3.695 | 631.6 47.64 | 112.1 17.03 |
| 33 | 239.20 | 1033.7 1769.4 2803.1 | 2.695 3.453 6.148 | 814.49 16.511 | 4.760 3.735 | 629.8 48.01 | 112.5 17.09 |
| 34 | 240.90 | 1041.8 1761.1 2803.0 | 2.710 3.426 6.136 | 812.09 17.018 | 4.775 3.776 | 628.0 48.56 | 110.4 17.16 |
| 35 | 242.56 | 1049.8 1753.0 2802.7 | 2.725 3.399 6.125 | 809.73 17.526 | 4.791 3.817 | 626.2 49.02 | 109.6 17.22 |
| 36 | 244.19 | 1057.6 1744.9 2802.5 | 2.740 3.373 6.113 | 807.40 18.035 | 4.806 3.858 | 624.4 49.48 | 108.8 17.28 |
| 37 | 245.78 | 1065.2 1736.9 2802.1 | 2.755 3.347 6.102 | 805.10 18.547 | 4.822 3.899 | 622.7 49.93 | 108.1 17.34 |
| 38 | 247.33 | 1072.8 1729.0 2801.8 | 2.769 3.322 6.091 | 802.82 19.059 | 4.837 3.940 | 620.9 50.38 | 107.4 17.39 |
| 39 | 248.87 | 1080.2 1721.2 2801.4 | 2.783 3.297 6.080 | 800.58 19.574 | 4.853 3.981 | 619.1 50.82 | 106.6 17.45 |
| 40 | 250.36 | 1087.4 1713.5 2800.9 | 2.797 3.273 6.070 | 798.36 20.090 | 4.868 4.022 | 617.4 51.27 | 106.0 17.51 |
| 41 | 251.83 | 1094.6 1705.8 2800.4 | 2.810 3.249 6.059 | 796.16 20.608 | 4.885 4.063 | 615.7 51.71 | 105.3 17.56 |
| 42 | 253.27 | 1101.6 1698.2 2799.9 | 2.823 3.226 6.049 | 793.99 21.127 | 4.901 4.104 | 613.9 52.15 | 104.6 17.62 |
| 43 | 254.68 | 1108.6 1690.7 2799.3 | 2.836 3.203 6.039 | 791.84 21.648 | 4.917 4.145 | 612.2 52.59 | 104.4 17.67 |
| 44 | 256.07 | 1115.4 1683.2 2798.7 | 2.849 3.181 6.029 | 789.72 22.172 | 4.933 4.187 | 610.5 53.03 | 103.4 17.72 |
| 45 | 257.44 | 1122.1 1675.9 2798.0 | 2.861 3.158 6.020 | 787.61 22.697 | 4.949 4.228 | 608.8 53.47 | 102.8 17.78 |
| 46 | 258.78 | 1128.8 1668.5 2797.3 | 2.874 3.137 6.010 | 785.52 23.224 | 4.966 4.270 | 607.1 53.90 | 102.1 17.83 |
| 47 | 260.10 | 1135.3 1661.2 2796.6 | 2.886 3.115 6.001 | 783.46 23.752 | 4.982 4.311 | 605.5 54.34 | 101.6 17.88 |
| 48 | 261.40 | 1141.8 1654.0 2795.8 | 2.898 3.094 5.992 | 781.41 24.283 | 4.999 4.353 | 603.8 54.77 | 101.1 17.93 |
| 49 | 262.68 | 1148.2 1646.8 2795.0 | 2.909 3.073 5.983 | 779.38 24.816 | 5.015 4.396 | 602.1 55.21 | 100.5 17.98 |
| 50 | 263.94 | 1154.5 1639.7 2794.2 | 2.921 3.053 5.974 | 777.36 25.351 | 5.032 4.438 | 600.5 55.64 | 100.0 18.03 |
| 51 | 265.18 | 1160.7 1632.7 2793.4 | 2.932 3.033 5.965 | 775.36 25.888 | 5.049 4.480 | 598.8 56.07 | 99.5 18.08 |
| 52 | 266.41 | 1166.9 1625.6 2792.5 | 2.943 3.013 5.956 | 773.38 26.427 | 5.066 4.523 | 597.2 56.51 | 99.0 18.13 |
| 53 | 267.61 | 1173.0 1618.6 2791.6 | 2.954 2.993 5.948 | 771.41 26.968 | 5.083 4.566 | 595.5 56.94 | 98.5 18.18 |
| 54 | 268.80 | 1179.0 1611.7 2790.7 | 2.965 2.974 5.939 | 769.45 27.511 | 5.101 4.610 | 593.9 57.37 | 98.0 18.23 |

Saturated Water and Steam (Pressure Table)

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| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f \quad h_{fg} \quad h_g}{[kJ/kg]}$ | $\frac{s_f \quad s_{fg} \quad s_g}{[kJ/kg^\circ K]}$ | $\frac{\rho_f \quad \rho_g}{[kg/m^3]}$ | $\frac{Cp_f \quad Cp_g}{[kJ/kg^\circ K]}$ | $\frac{k_f \quad k_g}{10^{-3} \times [W/m^\circ K]}$ | $\frac{\mu_f \quad \mu_g}{10^{-6} \times [kg/m.s]}$ |
|-------------------|--------------------------|--|--|--|---|--|---|
| 55 | 269.97 | 1184.9 1604.8 2789.7 | 2.976 2.955 5.931 | 767.51 28.057 | 5.118 4.654 | 592.3 57.80 | 97.5 18.27 |
| 56 | 271.12 | 1190.8 1597.9 2788.7 | 2.986 2.936 5.922 | 765.58 28.604 | 5.136 4.698 | 590.7 58.24 | 97.0 18.32 |
| 57 | 272.26 | 1196.6 1591.1 2787.7 | 2.997 2.917 5.914 | 763.67 29.154 | 5.154 4.742 | 589.1 58.67 | 96.6 18.37 |
| 58 | 273.38 | 1202.4 1584.3 2786.7 | 3.007 2.899 5.906 | 761.77 29.706 | 5.172 4.786 | 587.5 59.10 | 96.1 18.41 |
| 59 | 274.49 | 1208.1 1577.6 2785.6 | 3.017 2.881 5.898 | 759.87 30.261 | 5.190 4.832 | 585.9 59.54 | 95.7 18.46 |
| 60 | 275.59 | 1213.7 1570.8 2784.6 | 3.027 2.863 5.890 | 757.99 30.818 | 5.208 4.877 | 584.3 59.97 | 95.3 18.51 |
| 61 | 276.67 | 1219.3 1564.1 2783.5 | 3.037 2.845 5.882 | 756.12 31.377 | 5.226 4.923 | 582.7 60.41 | 94.8 18.55 |
| 62 | 277.73 | 1224.9 1557.5 2782.3 | 3.047 2.827 5.874 | 754.27 31.939 | 5.245 4.969 | 581.1 60.84 | 94.4 18.6 |
| 63 | 278.79 | 1230.3 1550.8 2781.2 | 3.057 2.810 5.867 | 752.42 32.503 | 5.264 5.015 | 579.6 61.28 | 94.0 18.65 |
| 64 | 279.83 | 1235.8 1544.2 2780.0 | 3.067 2.793 5.859 | 750.58 33.070 | 5.283 5.062 | 578.0 61.72 | 93.6 18.69 |
| 65 | 280.86 | 1241.2 1537.7 2778.8 | 3.076 2.776 5.852 | 748.75 33.639 | 5.302 5.110 | 576.4 62.16 | 93.2 18.74 |
| 66 | 281.88 | 1246.5 1531.1 2777.6 | 3.085 2.759 5.844 | 746.93 34.210 | 5.321 5.158 | 574.9 62.60 | 92.8 18.78 |
| 67 | 282.88 | 1251.8 1524.6 2776.4 | 3.095 2.742 5.837 | 745.11 34.785 | 5.341 5.206 | 573.3 63.04 | 92.4 18.83 |
| 68 | 283.88 | 1257.1 1518.1 2775.1 | 3.104 2.725 5.829 | 743.31 35.362 | 5.360 5.255 | 571.8 63.48 | 92.0 18.87 |
| 69 | 284.86 | 1262.3 1511.6 2773.9 | 3.113 2.709 5.822 | 741.51 35.941 | 5.380 5.304 | 570.3 63.92 | 91.6 18.91 |
| 70 | 285.83 | 1267.4 1505.1 2772.6 | 3.122 2.693 5.815 | 739.72 36.524 | 5.401 5.350 | 568.7 64.38 | 91.3 18.96 |
| 71 | 286.79 | 1272.6 1498.7 2771.3 | 3.131 2.677 5.807 | 737.94 37.109 | 5.421 5.404 | 567.2 64.82 | 90.9 19 |
| 72 | 287.74 | 1277.7 1492.3 2769.9 | 3.140 2.661 5.800 | 736.17 37.696 | 5.441 5.455 | 565.7 65.27 | 90.5 19.05 |
| 73 | 288.68 | 1282.7 1485.9 2768.6 | 3.149 2.645 5.793 | 734.40 38.287 | 5.462 5.507 | 564.2 65.73 | 90.2 19.09 |
| 74 | 289.62 | 1287.7 1479.5 2767.2 | 3.157 2.629 5.786 | 732.64 38.881 | 5.483 5.559 | 562.6 66.18 | 89.8 19.13 |
| 75 | 290.54 | 1292.7 1473.1 2765.8 | 3.166 2.613 5.779 | 730.89 39.477 | 5.504 5.611 | 561.1 66.63 | 89.5 19.18 |
| 76 | 291.45 | 1297.6 1466.8 2764.4 | 3.174 2.598 5.772 | 729.14 40.076 | 5.526 5.664 | 559.6 67.09 | 89.1 19.22 |
| 77 | 292.35 | 1302.5 1460.4 2763.0 | 3.183 2.583 5.765 | 727.39 40.678 | 5.525 5.718 | 558.1 67.55 | 88.8 19.26 |
| 78 | 293.25 | 1307.4 1454.1 2761.5 | 3.191 2.567 5.758 | 725.66 41.284 | 5.569 5.773 | 556.6 68.02 | 88.4 19.31 |
| 79 | 294.13 | 1312.3 1447.8 2760.1 | 3.199 2.552 5.752 | 723.92 41.892 | 5.592 5.828 | 555.1 68.48 | 88.1 19.35 |
| 80 | 295.01 | 1317.1 1441.5 2758.6 | 3.208 2.537 5.745 | 722.20 42.503 | 5.614 5.883 | 553.6 68.95 | 87.8 19.39 |
| 81 | 295.88 | 1321.9 1435.3 2757.1 | 3.216 2.522 5.738 | 720.48 43.118 | 5.637 5.939 | 552.2 69.42 | 87.4 19.44 |
| 82 | 296.74 | 1326.6 1429.0 2755.6 | 3.224 2.507 5.731 | 718.76 43.736 | 5.660 5.996 | 550.7 69.89 | 87.1 19.48 |
| 83 | 297.59 | 1331.3 1422.7 2754.1 | 3.232 2.493 5.725 | 717.04 44.357 | 5.683 6.054 | 549.2 70.37 | 86.8 19.52 |
| 84 | 298.44 | 1336.0 1416.5 2752.5 | 3.240 2.478 5.718 | 715.34 44.981 | 5.707 6.112 | 547.7 70.84 | 86.5 19.57 |
| 85 | 299.27 | 1340.7 1410.3 2751.0 | 3.248 2.464 5.712 | 713.63 45.608 | 5.730 6.171 | 546.2 71.33 | 86.2 19.61 |
| 86 | 300.10 | 1345.3 1404.0 2749.4 | 3.256 2.449 5.705 | 711.93 46.239 | 5.755 6.231 | 544.8 71.81 | 85.9 19.65 |
| 87 | 300.92 | 1350.0 1397.8 2747.8 | 3.264 2.435 5.698 | 710.23 46.874 | 5.779 6.291 | 543.3 72.30 | 85.6 19.7 |
| 88 | 301.74 | 1354.5 1391.6 2746.2 | 3.271 2.421 5.692 | 708.54 47.511 | 5.804 6.352 | 541.8 72.79 | 85.3 19.74 |
| 89 | 302.55 | 1359.1 1385.4 2744.5 | 3.279 2.407 5.685 | 706.85 48.153 | 5.829 6.414 | 540.4 73.28 | 85.0 19.78 |
| 90 | 303.35 | 1363.7 1379.2 2742.9 | 3.287 2.392 5.679 | 705.16 48.797 | 5.854 6.476 | 538.9 73.78 | 84.7 19.83 |
| 91 | 304.14 | 1368.2 1373.0 2741.2 | 3.294 2.378 5.673 | 703.47 49.446 | 5.880 6.540 | 537.5 74.28 | 84.4 19.87 |
| 92 | 304.93 | 1372.7 1366.9 2739.5 | 3.302 2.365 5.666 | 701.79 50.098 | 5.906 6.604 | 536.0 74.79 | 84.1 19.91 |
| 93 | 305.71 | 1377.1 1360.7 2737.8 | 3.309 2.351 5.660 | 700.11 50.754 | 5.932 6.669 | 534.6 75.29 | 83.8 19.96 |
| 94 | 306.48 | 1381.6 1354.5 2736.1 | 3.317 2.337 5.653 | 698.43 51.413 | 5.959 6.734 | 533.1 75.81 | 83.5 20 |
| 95 | 307.25 | 1386.0 1348.4 2734.4 | 3.324 2.323 5.647 | 696.76 52.076 | 5.986 6.801 | 531.7 76.32 | 83.2 20.05 |

Saturated Water and Steam (Pressure Table)

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| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 96 | 308.01 | 1390.4 1342.2 2732.6 | 3.331 2.310 5.641 | 695.09 52.744 | 6.014 6.868 | 530.3 76.84 | 82.9 20.09 |
| 97 | 308.77 | 1394.8 1336.1 2730.9 | 3.339 2.296 5.635 | 693.41 53.415 | 6.042 6.937 | 528.8 77.37 | 82.6 20.13 |
| 98 | 309.52 | 1399.2 1329.9 2729.1 | 3.346 2.282 5.628 | 691.75 54.090 | 6.070 7.006 | 527.4 77.90 | 82.4 20.18 |
| 99 | 310.26 | 1403.5 1323.8 2727.3 | 3.353 2.269 5.622 | 690.08 54.769 | 6.098 7.076 | 526.0 78.42 | 82.1 20.22 |
| 100 | 311.00 | 1407.9 1317.6 2725.5 | 3.360 2.256 5.616 | 688.41 55.452 | 6.128 7.147 | 524.5 78.97 | 81.8 20.26 |
| 101 | 311.73 | 1412.2 1311.5 2723.6 | 3.367 2.242 5.610 | 686.75 56.140 | 6.157 7.219 | 523.1 79.52 | 81.5 20.31 |
| 102 | 312.46 | 1416.5 1305.3 2721.8 | 3.375 2.229 5.604 | 685.08 56.831 | 6.187 7.292 | 521.7 80.06 | 81.3 20.35 |
| 103 | 313.18 | 1420.8 1299.2 2719.9 | 3.382 2.216 5.597 | 683.42 57.527 | 6.217 7.367 | 520.3 80.62 | 81.0 20.4 |
| 104 | 313.90 | 1425.0 1293.0 2718.0 | 3.389 2.203 5.591 | 681.76 58.227 | 6.248 7.442 | 518.9 81.17 | 80.7 20.44 |
| 105 | 314.61 | 1429.3 1286.9 2716.1 | 3.396 2.189 5.585 | 680.10 58.932 | 6.279 7.518 | 517.4 81.74 | 80.4 20.49 |
| 106 | 315.31 | 1433.5 1280.7 2714.2 | 3.403 2.176 5.579 | 678.44 59.641 | 6.311 7.595 | 516.0 82.31 | 80.2 20.53 |
| 107 | 316.01 | 1437.7 1274.6 2712.3 | 3.409 2.163 5.573 | 676.78 60.355 | 6.343 7.674 | 514.6 82.88 | 79.9 20.58 |
| 108 | 316.71 | 1441.9 1268.4 2710.3 | 3.416 2.150 5.567 | 675.12 61.073 | 6.376 7.754 | 513.2 83.46 | 79.7 20.62 |
| 109 | 317.40 | 1446.1 1262.3 2708.4 | 3.423 2.137 5.561 | 673.46 61.796 | 6.409 7.835 | 511.8 84.05 | 79.4 20.67 |
| 110 | 318.08 | 1450.3 1256.1 2706.4 | 3.430 2.125 5.555 | 671.80 62.524 | 6.443 7.917 | 510.4 84.64 | 79.1 20.71 |
| 111 | 318.76 | 1454.4 1250.0 2704.4 | 3.437 2.112 5.548 | 670.14 63.257 | 6.477 8.000 | 509.0 85.24 | 78.9 20.76 |
| 112 | 319.44 | 1458.6 1243.8 2702.4 | 3.443 2.099 5.542 | 668.48 63.994 | 6.512 8.085 | 507.6 85.84 | 78.6 20.8 |
| 113 | 320.11 | 1462.7 1237.6 2700.3 | 3.450 2.086 5.536 | 666.82 64.737 | 6.547 8.172 | 506.2 86.45 | 78.4 20.85 |
| 114 | 320.77 | 1466.8 1231.4 2698.3 | 3.457 2.073 5.530 | 665.15 65.484 | 6.583 8.259 | 504.8 87.07 | 78.1 20.9 |
| 115 | 321.44 | 1470.9 1225.3 2696.2 | 3.464 2.061 5.524 | 663.49 66.237 | 6.620 8.349 | 503.5 87.70 | 77.9 20.94 |
| 116 | 322.09 | 1475.0 1219.1 2694.1 | 3.470 2.048 5.518 | 661.83 66.995 | 6.657 8.439 | 502.1 88.33 | 77.6 20.99 |
| 117 | 322.75 | 1479.1 1212.9 2692.0 | 3.477 2.035 5.512 | 660.17 67.759 | 6.695 8.532 | 500.7 88.97 | 77.4 21.04 |
| 118 | 323.39 | 1483.2 1206.7 2689.9 | 3.483 2.023 5.506 | 658.50 68.528 | 6.733 8.626 | 499.3 89.61 | 77.1 21.09 |
| 119 | 324.04 | 1487.3 1200.5 2687.7 | 3.490 2.010 5.500 | 656.83 69.302 | 6.773 8.721 | 497.9 90.27 | 76.9 21.13 |
| 120 | 324.68 | 1491.3 1194.3 2685.6 | 3.496 1.998 5.494 | 655.17 70.082 | 6.813 8.819 | 496.5 90.93 | 76.6 21.18 |
| 121 | 325.31 | 1495.4 1188.0 2683.4 | 3.503 1.985 5.488 | 653.50 70.868 | 6.853 8.918 | 495.2 91.60 | 76.4 21.23 |
| 122 | 325.95 | 1499.4 1181.8 2681.2 | 3.509 1.973 5.482 | 651.83 71.660 | 6.895 9.020 | 493.8 92.28 | 76.1 21.28 |
| 123 | 326.57 | 1503.4 1175.5 2679.0 | 3.516 1.960 5.476 | 650.15 72.457 | 6.937 9.123 | 492.4 92.96 | 75.9 21.33 |
| 124 | 327.20 | 1507.5 1169.3 2676.7 | 3.522 1.948 5.470 | 648.48 73.261 | 6.980 9.228 | 491.1 93.66 | 75.6 21.37 |
| 125 | 327.82 | 1511.5 1163.0 2674.5 | 3.529 1.935 5.464 | 646.80 74.071 | 7.024 9.336 | 489.7 94.36 | 75.4 21.42 |
| 126 | 328.43 | 1515.5 1156.7 2672.2 | 3.535 1.923 5.458 | 645.12 74.887 | 7.069 9.445 | 488.3 95.08 | 75.2 21.47 |
| 127 | 329.04 | 1519.5 1150.4 2669.9 | 3.542 1.910 5.452 | 643.44 75.709 | 7.115 9.557 | 487.0 95.80 | 74.9 21.52 |
| 128 | 329.65 | 1523.4 1144.1 2667.6 | 3.548 1.898 5.446 | 641.75 76.538 | 7.162 9.671 | 485.6 96.53 | 74.7 21.57 |
| 129 | 330.26 | 1527.4 1137.8 2665.3 | 3.554 1.886 5.440 | 640.06 77.374 | 7.209 9.788 | 484.2 97.27 | 74.4 21.62 |
| 130 | 330.86 | 1531.4 1131.5 2662.9 | 3.561 1.873 5.434 | 638.37 78.216 | 7.258 9.907 | 482.9 98.03 | 74.2 21.68 |
| 131 | 331.45 | 1535.4 1125.1 2660.5 | 3.567 1.861 5.428 | 636.68 79.065 | 7.308 10.03 | 481.5 98.79 | 74.0 21.73 |
| 132 | 332.05 | 1539.3 1118.8 2658.1 | 3.573 1.849 5.422 | 634.98 79.921 | 7.359 10.15 | 480.2 99.56 | 73.7 21.78 |
| 133 | 332.64 | 1543.3 1112.4 2655.7 | 3.579 1.836 5.416 | 633.27 80.785 | 7.411 10.28 | 478.8 100.35 | 73.5 21.83 |
| 134 | 333.22 | 1547.2 1106.0 2653.2 | 3.586 1.824 5.410 | 631.57 81.655 | 7.464 10.41 | 477.5 101.15 | 73.3 21.88 |
| 135 | 333.81 | 1551.2 1099.6 2650.8 | 3.592 1.812 5.404 | 629.86 82.533 | 7.519 10.54 | 476.1 101.95 | 73.0 21.94 |
| 136 | 334.39 | 1555.1 1093.1 2648.3 | 3.598 1.799 5.398 | 628.14 83.419 | 7.574 10.68 | 474.8 102.78 | 72.8 21.99 |

Saturated Water and Steam (Pressure Table)

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| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 137 | 334.96 | 1559.1 1086.7 2645.8 | 3.604 1.787 5.391 | 626.42 84.313 | 7.632 10.82 | 473.4 103.61 | 72.5 22.04 |
| 138 | 335.53 | 1563.0 1080.2 2643.2 | 3.611 1.775 5.385 | 624.70 85.214 | 7.690 10.96 | 472.1 104.46 | 72.3 22.1 |
| 139 | 336.10 | 1566.9 1073.7 2640.7 | 3.617 1.762 5.379 | 622.96 86.123 | 7.750 11.10 | 470.8 105.32 | 72.1 22.15 |
| 140 | 336.67 | 1570.9 1067.2 2638.1 | 3.623 1.750 5.373 | 621.23 87.041 | 7.812 11.26 | 469.4 106.19 | 71.8 22.21 |
| 141 | 337.23 | 1574.8 1060.7 2635.5 | 3.629 1.738 5.367 | 619.49 87.967 | 7.875 11.41 | 468.1 107.08 | 71.6 22.26 |
| 142 | 337.79 | 1578.7 1054.1 2632.9 | 3.635 1.725 5.361 | 617.74 88.902 | 7.940 11.57 | 466.8 107.98 | 71.4 22.32 |
| 143 | 338.35 | 1582.7 1047.5 2630.2 | 3.642 1.713 5.355 | 615.99 89.845 | 8.006 11.73 | 465.4 108.90 | 71.1 22.38 |
| 144 | 338.90 | 1586.6 1040.9 2627.5 | 3.648 1.701 5.348 | 614.23 90.797 | 8.074 11.90 | 464.1 109.83 | 70.9 22.43 |
| 145 | 339.45 | 1590.5 1034.3 2624.8 | 3.654 1.688 5.342 | 612.46 91.759 | 8.144 12.07 | 462.8 110.78 | 70.7 22.49 |
| 146 | 340.00 | 1594.4 1027.6 2622.1 | 3.660 1.676 5.336 | 610.69 92.730 | 8.216 12.24 | 461.4 111.75 | 70.4 22.55 |
| 147 | 340.54 | 1598.4 1020.9 2619.3 | 3.666 1.664 5.330 | 608.90 93.710 | 8.290 12.42 | 460.1 112.73 | 70.2 22.61 |
| 148 | 341.08 | 1602.3 1014.2 2616.5 | 3.672 1.651 5.323 | 607.12 94.700 | 8.367 12.60 | 458.8 113.73 | 70.0 22.67 |
| 149 | 341.62 | 1606.2 1007.5 2613.7 | 3.678 1.639 5.317 | 605.32 95.701 | 8.445 12.79 | 457.5 114.75 | 69.7 22.73 |
| 150 | 342.16 | 1610.2 1000.7 2610.9 | 3.684 1.626 5.311 | 603.51 96.711 | 8.525 12.98 | 456.2 115.79 | 69.5 22.79 |
| 151 | 342.69 | 1614.1 993.9 2608.0 | 3.691 1.614 5.304 | 601.70 97.732 | 8.608 13.18 | 454.9 116.84 | 69.3 22.85 |
| 152 | 343.22 | 1618.0 987.1 2605.1 | 3.697 1.601 5.298 | 599.88 98.763 | 8.693 13.38 | 453.5 117.92 | 69.0 22.91 |
| 153 | 343.75 | 1622.0 980.2 2602.2 | 3.703 1.589 5.292 | 598.05 99.806 | 8.781 13.59 | 452.2 119.02 | 68.8 22.98 |
| 154 | 344.27 | 1625.9 973.3 2599.2 | 3.709 1.576 5.285 | 596.21 100.86 | 8.871 13.80 | 450.9 120.14 | 68.6 23.04 |
| 155 | 344.79 | 1629.9 966.4 2596.2 | 3.715 1.564 5.279 | 594.36 101.93 | 8.964 14.02 | 449.6 121.28 | 68.3 23.11 |
| 156 | 345.31 | 1633.8 959.4 2593.2 | 3.721 1.551 5.272 | 592.50 103.00 | 9.060 14.25 | 448.3 122.45 | 68.1 23.17 |
| 157 | 345.83 | 1637.8 952.4 2590.1 | 3.727 1.539 5.266 | 590.63 104.09 | 9.159 14.48 | 447.0 123.64 | 67.9 23.24 |
| 158 | 346.34 | 1641.7 945.3 2587.1 | 3.733 1.526 5.259 | 588.75 105.19 | 9.260 14.71 | 445.7 124.85 | 67.6 23.3 |
| 159 | 346.85 | 1645.7 938.3 2584.0 | 3.740 1.513 5.253 | 586.86 106.31 | 9.365 14.96 | 444.5 126.09 | 67.4 23.37 |
| 160 | 347.36 | 1649.7 931.1 2580.8 | 3.746 1.501 5.246 | 584.95 107.43 | 9.473 15.21 | 443.2 127.36 | 67.1 23.44 |
| 161 | 347.86 | 1653.7 924.0 2577.6 | 3.752 1.488 5.240 | 583.04 108.57 | 9.584 15.46 | 441.9 128.65 | 66.9 23.51 |
| 162 | 348.36 | 1657.7 916.8 2574.4 | 3.758 1.475 5.233 | 581.11 109.73 | 9.699 15.73 | 440.6 129.98 | 66.7 23.58 |
| 163 | 348.86 | 1661.7 909.5 2571.2 | 3.764 1.462 5.226 | 579.18 110.89 | 9.817 16.00 | 439.4 131.33 | 66.4 23.65 |
| 164 | 349.36 | 1665.7 902.2 2567.9 | 3.770 1.449 5.220 | 577.23 112.08 | 9.939 16.27 | 438.1 132.71 | 66.2 23.72 |
| 165 | 349.86 | 1669.7 894.9 2564.6 | 3.776 1.436 5.213 | 575.26 113.27 | 10.06 16.56 | 436.8 134.13 | 65.9 23.8 |
| 166 | 350.35 | 1673.8 887.5 2561.2 | 3.783 1.423 5.206 | 573.27 114.47 | 10.22 16.92 | 435.6 135.57 | 65.7 23.87 |
| 167 | 350.84 | 1677.8 880.1 2557.9 | 3.789 1.410 5.199 | 571.27 115.70 | 10.36 17.25 | 434.3 137.05 | 65.5 23.95 |
| 168 | 351.33 | 1681.9 872.6 2554.4 | 3.795 1.397 5.192 | 569.26 116.94 | 10.51 17.59 | 433.1 138.57 | 65.2 24.02 |
| 169 | 351.81 | 1685.9 865.0 2550.9 | 3.801 1.384 5.185 | 567.23 118.21 | 10.66 17.94 | 431.8 140.14 | 65.0 24.1 |
| 170 | 352.29 | 1690.0 857.4 2547.4 | 3.808 1.371 5.179 | 565.18 119.48 | 10.82 18.31 | 430.6 141.74 | 64.7 24.18 |
| 171 | 352.77 | 1694.1 849.7 2543.8 | 3.814 1.358 5.171 | 563.12 120.78 | 10.98 18.69 | 429.4 143.38 | 64.5 24.26 |
| 172 | 353.25 | 1698.3 842.0 2540.2 | 3.820 1.344 5.164 | 561.04 122.09 | 11.15 19.09 | 428.2 145.07 | 64.2 24.34 |
| 173 | 353.73 | 1702.4 834.2 2536.6 | 3.827 1.331 5.157 | 558.94 123.43 | 11.33 19.50 | 427.0 146.80 | 64.0 24.42 |
| 174 | 354.20 | 1706.6 826.3 2532.9 | 3.833 1.317 5.150 | 556.82 124.78 | 11.52 19.94 | 425.8 148.58 | 63.7 24.51 |
| 175 | 354.67 | 1710.8 818.4 2529.1 | 3.839 1.303 5.143 | 554.67 126.15 | 11.72 20.39 | 424.6 150.41 | 63.5 24.59 |
| 176 | 355.14 | 1715.0 810.3 2525.3 | 3.846 1.290 5.135 | 552.51 127.55 | 11.92 20.86 | 423.4 152.30 | 63.2 24.68 |
| 177 | 355.61 | 1719.2 802.3 2521.4 | 3.852 1.276 5.128 | 550.33 128.97 | 12.13 21.35 | 422.3 154.24 | 63.0 24.77 |

Saturated Water and Steam (Pressure Table)

S. Zarrouk & A. Watson (2010)

| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f}{h_{fg}} \quad h_g$ | $\frac{s_f}{s_{fg}} \quad s_g$ | $\frac{\rho_f}{\rho_g}$ | $\frac{Cp_f}{Cp_g}$ | $\frac{k_f}{k_g}$ | $\frac{\mu_f}{\mu_g}$ |
|-------------------|--------------------------|--------------------------------|--------------------------------|-------------------------|---------------------|--------------------------------|---------------------------|
| | | $[kJ/kg]$ | $[kJ/kg^\circ K]$ | $[kg/m^3]$ | $[kJ/kg^\circ K]$ | $10^{-3} \times [W/m^\circ K]$ | $10^{-6} \times [kg/m.s]$ |
| 178 | 356.07 | 1723.4 794.1 2517.5 | 3.859 1.262 5.121 | 548.12 130.41 | 12.36 21.86 | 421.1 156.24 | 62.7 24.86 |
| 179 | 356.53 | 1727.7 785.8 2513.6 | 3.865 1.248 5.113 | 545.89 131.87 | 12.59 22.40 | 420.0 158.31 | 62.4 24.95 |
| 180 | 356.99 | 1732.0 777.5 2509.5 | 3.872 1.234 5.106 | 543.63 133.36 | 12.84 22.97 | 418.9 160.44 | 62.2 25.05 |
| 181 | 357.45 | 1736.4 769.1 2505.4 | 3.878 1.220 5.098 | 541.34 134.87 | 13.10 23.56 | 417.8 162.64 | 61.9 25.14 |
| 182 | 357.90 | 1740.7 760.6 2501.3 | 3.885 1.205 5.090 | 539.03 136.41 | 13.37 24.18 | 416.7 164.91 | 61.6 25.24 |
| 183 | 358.36 | 1745.1 752.0 2497.1 | 3.892 1.191 5.082 | 536.69 137.98 | 13.66 24.84 | 415.6 167.26 | 61.4 25.34 |
| 184 | 358.81 | 1749.5 743.2 2492.8 | 3.898 1.176 5.074 | 534.32 139.58 | 13.97 25.53 | 414.6 169.70 | 61.1 25.44 |
| 185 | 359.26 | 1754.0 734.4 2488.4 | 3.905 1.161 5.066 | 531.92 141.21 | 14.29 26.26 | 413.6 172.22 | 60.8 25.55 |
| 186 | 359.70 | 1758.5 725.5 2484.0 | 3.912 1.146 5.058 | 529.48 142.87 | 14.63 27.03 | 412.6 174.83 | 60.5 25.65 |
| 187 | 360.15 | 1763.0 716.4 2479.5 | 3.919 1.131 5.050 | 527.01 144.56 | 15.00 27.85 | 411.6 177.55 | 60.3 25.76 |
| 188 | 360.59 | 1767.6 707.3 2474.9 | 3.926 1.116 5.042 | 524.50 146.29 | 15.39 28.72 | 410.7 180.38 | 60.0 25.88 |
| 189 | 361.03 | 1772.2 698.0 2470.2 | 3.933 1.101 5.033 | 521.95 148.06 | 15.80 29.64 | 409.8 183.32 | 59.7 25.99 |
| 190 | 361.47 | 1776.9 688.5 2465.4 | 3.940 1.085 5.025 | 519.36 149.87 | 16.24 30.62 | 408.9 186.38 | 59.4 26.11 |
| 191 | 361.91 | 1781.6 678.9 2460.5 | 3.947 1.069 5.016 | 516.72 151.71 | 16.71 31.67 | 408.1 189.57 | 59.1 26.23 |
| 192 | 362.34 | 1786.4 669.2 2455.6 | 3.954 1.053 5.007 | 514.04 153.61 | 17.22 32.79 | 407.3 192.90 | 58.8 26.35 |
| 193 | 362.77 | 1791.2 659.3 2450.5 | 3.961 1.037 4.998 | 511.31 155.54 | 17.77 33.99 | 406.6 196.40 | 58.5 26.48 |
| 194 | 363.20 | 1796.1 649.2 2445.3 | 3.969 1.020 4.989 | 508.53 157.53 | 18.36 35.28 | 406.0 200.06 | 58.2 26.61 |
| 195 | 363.63 | 1801.1 638.9 2440.0 | 3.976 1.003 4.980 | 505.70 159.57 | 19.00 36.68 | 405.4 203.90 | 57.9 26.75 |
| 196 | 364.06 | 1806.1 628.5 2434.6 | 3.984 0.986 4.970 | 502.80 161.67 | 19.69 38.18 | 404.9 207.94 | 57.6 26.89 |
| 197 | 364.48 | 1811.2 617.8 2429.0 | 3.991 0.969 4.960 | 499.84 163.82 | 20.45 39.82 | 404.4 212.20 | 57.2 27.03 |
| 198 | 364.91 | 1816.4 606.9 2423.3 | 3.999 0.951 4.950 | 496.81 166.04 | 21.28 41.60 | 404.1 216.70 | 56.9 27.18 |
| 199 | 365.33 | 1821.7 595.7 2417.4 | 4.007 0.933 4.940 | 493.70 168.33 | 22.19 43.54 | 403.9 221.45 | 56.6 27.33 |
| 200 | 365.75 | 1827.1 584.3 2411.4 | 4.015 0.915 4.930 | 490.52 170.70 | 23.20 45.68 | 403.7 226.50 | 56.2 27.49 |
| 201 | 366.16 | 1832.6 572.6 2405.2 | 4.024 0.896 4.919 | 487.25 173.14 | 24.32 48.03 | 403.8 231.87 | 55.9 27.66 |
| 202 | 366.58 | 1838.2 560.5 2398.8 | 4.032 0.876 4.908 | 483.89 175.68 | 25.56 50.64 | 404.0 237.60 | 55.5 27.83 |
| 203 | 366.99 | 1844.0 548.2 2392.1 | 4.041 0.856 4.897 | 480.42 178.31 | 26.96 53.55 | 404.3 243.73 | 55.1 28.01 |
| 204 | 367.40 | 1849.8 535.4 2385.3 | 4.050 0.836 4.886 | 476.84 181.05 | 28.55 56.81 | 404.9 250.33 | 54.7 28.2 |
| 205 | 367.81 | 1855.9 522.3 2378.2 | 4.059 0.815 4.874 | 473.13 183.90 | 30.35 60.49 | 405.8 257.44 | 54.4 28.4 |
| 206 | 368.22 | 1862.1 508.6 2370.8 | 4.068 0.793 4.861 | 469.28 186.88 | 32.42 64.69 | 407.0 265.14 | 53.9 28.61 |
| 207 | 368.62 | 1868.6 494.5 2363.0 | 4.078 0.770 4.848 | 465.28 190.01 | 34.83 69.51 | 408.5 273.54 | 53.5 28.83 |
| 208 | 369.03 | 1875.2 479.7 2355.0 | 4.088 0.747 4.835 | 461.10 193.31 | 37.65 75.10 | 410.5 282.74 | 53.1 29.06 |
| 209 | 369.43 | 1882.2 464.3 2346.5 | 4.098 0.723 4.821 | 456.72 196.79 | 41.01 81.68 | 413.1 292.89 | 52.6 29.31 |
| 210 | 369.83 | 1889.4 448.1 2337.5 | 4.109 0.697 4.806 | 452.11 200.49 | 45.06 89.52 | 416.4 304.62 | 52.1 29.58 |
| 211 | 370.22 | 1897.0 431.1 2328.1 | 4.121 0.670 4.791 | 447.23 204.45 | 50.05 99.01 | 420.6 316.82 | 51.6 29.86 |
| 212 | 370.62 | 1905.0 412.9 2317.9 | 4.133 0.641 4.774 | 442.02 208.71 | 56.32 110.8 | 425.9 331.16 | 51.1 30.17 |
| 213 | 371.01 | 1913.6 393.5 2307.0 | 4.146 0.611 4.757 | 436.43 213.33 | 64.43 125.7 | 432.9 347.63 | 50.5 30.51 |
| 214 | 371.41 | 1922.8 372.4 2295.2 | 4.160 0.578 4.738 | 430.37 218.41 | 75.28 145.2 | 441.9 366.84 | 49.9 30.89 |
| 215 | 371.80 | 1932.8 349.4 2282.2 | 4.175 0.542 4.717 | 423.70 224.06 | 90.45 171.9 | 454.0 389.70 | 49.2 31.31 |
| 216 | 372.18 | 1944.0 323.6 2267.6 | 4.192 0.501 4.693 | 416.23 230.50 | 113.0 210.5 | 470.5 417.60 | 48.5 31.8 |
| 217 | 372.57 | 1956.7 294.1 2250.8 | 4.211 0.455 4.667 | 407.64 238.04 | 149.7 271.2 | 494.0 452.85 | 47.6 32.38 |
| 218 | 372.95 | 1971.9 258.7 2230.6 | 4.234 0.400 4.635 | 397.35 247.28 | 218.3 380.0 | 529.1 499.64 | 46.6 33.11 |

Saturated Water and Steam (**Pressure Table**)

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| $\frac{P}{[bar]}$ | $\frac{T_s}{[^\circ C]}$ | $\frac{h_f \quad h_{fg} \quad h_g}{[kJ/kg]}$ | $\frac{s_f \quad s_{fg} \quad s_g}{[kJ/kg^\circ K]}$ | $\frac{\rho_f \quad \rho_g}{[kg/m^3]}$ | $\frac{Cp_f \quad Cp_g}{[kJ/kg^\circ K]}$ | $\frac{k_f \quad k_g}{10^{-3} \times [W/m^\circ K]}$ | $\frac{\mu_f \quad \mu_g}{10^{-6} \times [kg/m.s]}$ |
|---------------------|--------------------------|--|--|--|---|--|---|
| 219 | 373.33 | 1991.4 213.0 2204.5 | 4.264 0.330 4.594 | 384.07 259.60 | 383.8 629.3 | 585.6 566.70 | 45.3 34.09 |
| 220 | 373.71 | 2021.9 142.3 2164.2 | 4.311 0.220 4.531 | 363.59 279.59 | 1164 1707 | 688.2 677.36 | 43.3 35.74 |
| 220.64 [§] | 373.946 | 2087.5 0.0 2087.5 | 4.412 0.0 4.412 | 322.0 322.0 | | | |

[§] critical point 373.946 °C and 220.64 bar