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**Water Example**

Report

T K  f MPa  U J/kg  S J/kg/K  a 1/K  μ K/MPa

P MPa  dimensionless  H J/kg  cV J/kg/K  β 1/MPa  βS K/MPa

V m<sup>3</sup>/kg  Z dimensionless  F J/kg  cP J/kg/K  αP 1/K  δT J/kg/MPa

ρ kg/m<sup>3</sup>  β m<sup>3</sup>/kg  G J/kg  cP<sub>ideal</sub> J/kg/K  βP 1/m<sup>3</sup>  w m/s

C m<sup>3</sup>/kg<sup>2</sup>

Use:  List  Table  Saturation

**Results for List**

CO<sub>2</sub>: Span & Wagner (1996)  
Journal of Physical and Chemical Reference Data, 25, 1509-1596  
A new equation of state for carbon dioxide covering the fluid region from the triple-point temperature to 1100 K at pressures up to 800 MPa

T (K)	P (MPa)	ρ (kg/m <sup>3</sup> )	V (m <sup>3</sup> /kg)	f (MPa)	φ (none)	Z (none)	U (J/kg)	H (J/kg)	F (J/kg)
400.00	100.00000	648.77427	1.53900E-3	109.89286	1.09893	1.35768	51871.65755	205.771E+3	529.636E+3

**Results for Table**

H<sub>2</sub>O: Wagner & Prill (2002)  
Journal of Physical and Chemical Reference Data, 31, 387-635  
The IAPWS formulation 1995 for the thermodynamic properties of ordinary water substance for general and scientific use

T (K)	P (MPa)	ρ (kg/m <sup>3</sup> )	V (m <sup>3</sup> /kg)	f (MPa)	φ (none)	Z (none)	U (J/kg)	H (J/kg)	F (J/kg)
300.00	0.10000	998.56634	1.00348E-3	3.53319E-3	35.3319E-3	724.750E-6	112.553E+3	112.654E+3	-5365.39601
350.00	100.000E-3	973.72785	1.02698E-3	41.3446E-3	0.41345	635.778E-6	321.735E+3	321.836E+3	-41547.91692
400.00	0.10000	0.54761	1.82613	98.3413E-3	0.98941	0.98920	2.54781E+6	2.75043E+6	-453.196E+3
450.00	0.10000	0.48458	2.06363	99.3704E-3	0.99370	0.99284	2.62337E+6	2.82972E+6	-658.051E+3
500.00	0.10000	0.43514	2.29811	99.5915E-3	0.99591	0.99589	2.69875E+6	2.90856E+6	-1.27362E+6
550.00	0.10000	0.39507	2.53120	99.7194E-3	0.99719	0.99718	2.77496E+6	3.02808E+6	-1.69897E+6
600.00	0.10000	0.36185	2.76354	99.7994E-3	0.99799	0.99799	2.85240E+6	3.12876E+6	-2.13336E+6
650.00	0.10000	0.33084	2.99543	99.8524E-3	0.99852	0.99852	2.93127E+6	3.22081E+6	-2.57616E+6
700.00	100.000E-3	0.30968	3.22703	99.8889E-3	0.99889	0.99889	3.01166E+6	3.30436E+6	-3.02684E+6
750.00	0.10000	0.28915	3.45844	99.9150E-3	0.99915	0.99915	3.09366E+6	3.43960E+6	-3.48489E+6
800.00	100.000E-3	0.27102	3.68971	99.9341E-3	0.99934	0.99934	3.17732E+6	3.54629E+6	-3.95014E+6

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