

## Property List

## CH4Tables Excel Add-In v3.1

	Property Name	Property ID	SI Units	English Units
1.	Pressure	p	bar	psi
2.	Temperature	t	°C	°F
3.	Density	d	kg/m <sup>3</sup>	lb/ft <sup>3</sup>
4.	Specific Volume	v	m <sup>3</sup> /kg	ft <sup>3</sup> /lb
5.	Specific enthalpy	h	kJ/kg	Btu/lb
6.	Specific entropy	s	kJ/(kg·K)	Btu/(lb·°F)
7.	Specific internal energy	u	kJ/kg	Btu/lb
8.	Specific isobaric heat capacity	cp	kJ/(kg·K)	Btu/(lb·°F)
9.	Specific isochoric heat capacity	cv	kJ/(kg·K)	Btu/(lb·°F)
10.	Speed of sound	w	m/s	ft/s
11.	Isentropic exponent	kapa	-	-
12.	Specific Helmholtz free energy	H	kJ/kg	Btu/lb
13.	Specific Gibbs free energy	G	kJ/kg	Btu/lb
14.	Compressibility factor	Z	-	-
15.	Quality [vapor mass fraction]	x	%	%
16.	Isobaric volume expansion coefficient	alpha	1/K	1/°F
17.	Isothermal compressibility	Kt	1/MPa	1/psi
18.	Partial derivative (dP/dT) <sub>v</sub>	dpdt	MPa/K	psi/°F
19.	Partial derivative (dP/dV) <sub>T</sub>	dpdv	MPa·kg/m <sup>3</sup>	psi·lb/ft <sup>3</sup>
20.	Partial derivative (dV/dT) <sub>p</sub>	dvdt	m <sup>3</sup> /(kg·K)	ft <sup>3</sup> /(lb·°F)
21.	Partial derivative (dV/dP) <sub>T</sub>	dvdp	m <sup>3</sup> /(kg·MPa)	ft <sup>3</sup> /(lb·psi)
22.	Isothermal Joule-Thomson coefficient	iJTC	kJ/(kg·MPa)	Btu/(lb·psi)
23.	Joule-Thomson coefficient	JTC	K/MPa	°F/psi
24.	Melting pressure	pm	bar	psi
25.	Dynamic viscosity	dv	μPa·s	lb/(ft·h)
26.	Kinematic viscosity	<td>mm<sup>2</sup>/s</td> <td>ft<sup>2</sup>/h</td>	mm <sup>2</sup> /s	ft <sup>2</sup> /h
27.	Thermal conductivity	tc	W/(K·m)	Btu/(h·ft·°F)
28.	Thermal diffusivity	td	mm <sup>2</sup> /s	ft <sup>2</sup> /h
29.	Prandtl number	Pr	-	-