

Property List

CH4Tables Excel Add-In v2.0

	Property Name	Property ID	SI Units	English Units
1.	Pressure	p	bar	psi
2.	Temperature	t	°C	°F
3.	Density	d	kg/m ³	lb/ft ³
4.	Specific Volume	v	m ³ /kg	ft ³ /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) _v	dpdt	MPa/K	psi/°F
19.	Partial derivative (dP/dV) _T	dpdv	MPa·kg/m ³	psi·lb/ft ³
20.	Partial derivative (dV/dT) _p	dvdt	m ³ /(kg·K)	ft ³ /(lb·°F)
21.	Partial derivative (dV/dP) _T	dvdP	m ³ /(kg·MPa)	ft ³ /(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	kv	μm ² /s	ft ² /h
27.	Thermal conductivity	tc	W/(K·m)	Btu/(h·ft·°F)
28.	Thermal diffusivity	td	μm ² /s	ft ² /h
29.	Prandtl number	Pr	-	-