## Cyclohexanemethanol

Other names: (hydroxymethyl)cyclohexane

Benzyl alcohol, hexahydro-

Cyclohexanecarbinol

Cyclohexylmethyl alcohol Methanol, cyclohexyl-

NSC 5288 USAF DO-49

cyclohexylcarbinol cyclohexylmethanol

hexahydrobenzyl alcohol

Inchi: InChi=1S/C7H14O/c8-6-7-4-2-1-3-5-7/h7-8H,1-6H2

InchiKey: VSSAZBXXNIABDN-UHFFFAOYSA-N

Formula: C7H14O

SMILES: OCC1CCCC1

Mol. weight [g/mol]: 114.19 CAS: 100-49-2

### **Physical Properties**

Property code	Value	Unit	Source
affp	802.10	kJ/mol	NIST Webbook
basg	771.70	kJ/mol	NIST Webbook
chl	-4377.30	kJ/mol	NIST Webbook
gf	-104.31	kJ/mol	Joback Method
hf	-285.72	kJ/mol	Joback Method
hfl	-378.00	kJ/mol	NIST Webbook
hfus	9.81	kJ/mol	Joback Method
hvap	48.28	kJ/mol	Joback Method
log10ws	-1.67		Crippen Method
logp	1.559		Crippen Method
mcvol	104.500	ml/mol	McGowan Method
рс	3940.66	kPa	Joback Method
tb	456.20	K	NIST Webbook
tb	454.20	K	NIST Webbook
tc	664.09	K	Joback Method
tf	236.85	K	Joback Method
VC	0.380	m3/kmol	Joback Method

# **Temperature Dependent Properties**

Property code	Value	Unit	Temperature [K]	Source	
cpg	270.29	J/mol×K	567.69	Joback Method	
cpg	304.24	J/mol×K	664.09	Joback Method	
cpg	293.54	J/mol×K	631.95	Joback Method	
cpg	282.23	J/mol×K	599.82	Joback Method	
cpg	257.70	J/mol×K	535.56	Joback Method	
cpg	244.45	J/mol×K	503.42	Joback Method	
cpg	230.52	J/mol×K	471.29	Joback Method	
cpl	230.56	J/mol×K	293.83	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	275.87	J/mol×K	334.67	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	276.54	J/mol×K	334.67	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	270.55	J/mol×K	329.57	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	271.38	J/mol×K	329.57	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	265.56	J/mol×K	324.46	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	265.98	J/mol×K	324.46	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	259.49	J/mol×K	319.35	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	260.24	J/mol×K	319.35	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	
cpl	253.34	J/mol×K	314.25	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols	

cpl	254.26	J/mol <b>×</b> K	314.25	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	281.78	J/mol×K	339.77	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	247.94	J/mol×K	309.14	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	241.62	J/mol×K	304.04	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	242.28	J/mol×K	304.04	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	235.55	J/mol×K	298.93	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	247.36	J/mol×K	309.14	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	229.98	J/mol×K	293.83	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	280.86	J/mol×K	339.77	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	287.35	J/mol×K	344.88	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	286.52	J/mol×K	344.88	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	236.46	J/mol×K	298.93	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	292.34	J/mol×K	349.98	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
срІ	291.51	J/mol×K	349.98	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	296.83	J/mol×K	355.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols

cpl	199.13	J/mol×K	258.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	198.88	J/mol×K	258.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	202.87	J/mol×K	263.20	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	202.54	J/mol×K	263.20	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	207.03	J/mol×K	268.30	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	206.61	J/mol×K	268.30	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	211.52	J/mol×K	273.41	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	210.94	J/mol×K	273.41	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	215.68	J/mol×K	278.51	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	215.18	J/mol×K	278.51	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	220.83	J/mol×K	283.62	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	219.83	J/mol×K	283.62	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	225.32	J/mol×K	288.72	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	224.74	J/mol×K	288.72	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols

cpl	296.33	J/mol×K	355.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
dvisc	0.0757236	Paxs	236.85	Joback Method
dvisc	0.0140832	Paxs	275.92	Joback Method
dvisc	0.0039756	Paxs	315.00	Joback Method
dvisc	0.0014837	Paxs	354.07	Joback Method
dvisc	0.0006736	Paxs	393.14	Joback Method
dvisc	0.0003527	Paxs	432.22	Joback Method
dvisc	0.0002056	Paxs	471.29	Joback Method
rhol	900.67	kg/m3	333.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	929.76	kg/m3	293.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	900.78	kg/m3	333.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol
rhol	904.57	kg/m3	328.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol
rhol	908.31	kg/m3	323.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol

rhol	912.00	kg/m3	318.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol
rhol	915.66	kg/m3	313.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol
rhol	919.28	kg/m3	308.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol
rhol	926.25	kg/m3	298.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	926.43	kg/m3	298.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol
rhol	929.96	kg/m3	293.15	Density, Viscosity, and Freezing Point for Four Binary Systems of n-Dodecane or Methylcyclohexane Mixed with 1-Heptanol or Cyclohexylmethanol

rhol	922.71	kg/m3	303.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	919.14	kg/m3	308.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	915.53	kg/m3	313.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	911.88	kg/m3	318.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	908.19	kg/m3	323.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol
rhol	904.45	kg/m3	328.15	Density, Viscosity, Refractive Index, and Surface Tension for Six Binary Systems of Adamantane Derivatives with 1-Heptanol and Cyclohexylmethanol

rhol 922.87 kg/m3 303.15

Density,
Viscosity, and
Freezing Point
for Four Binary
Systems of
n-Dodecane or
Methylcyclohexane
Mixed with
1-Heptanol or
Cyclohexylmethanol

#### **Sources**

Crippen Method: https://www.chemeo.com/doc/models/crippen\_log10ws

https://www.doi.org/10.1016/j.tca.2014.03.043

https://www.doi.org/10.1021/acs.jced.6b00688

http://webbook.nist.gov/cgi/cbook.cgi?ID=C100492&Units=SI

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with 1-Heptanol and http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

### Legend

dvisc:

**NIST Webbook:** 

**affp:** Proton affinity **basg:** Gas basicity

**chl:** Standard liquid enthalpy of combustion

Dynamic viscosity

cpg: Ideal gas heat capacitycpl: Liquid phase heat capacity

gf: Standard Gibbs free energy of formationhf: Enthalpy of formation at standard conditions

**hfl:** Liquid phase enthalpy of formation at standard conditions

**hfus:** Enthalpy of fusion at standard conditions

**hvap:** Enthalpy of vaporization at standard conditions

log10ws:Log10 of Water solubility in mol/llogp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volume

pc: Critical Pressurerhol: Liquid Density

**tb:** Normal Boiling Point Temperature

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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