Cyclohexanepropanol-

Other names:	3-cyclohexyl-1-propanol
	3-cyclohexylpropan-1-ol
	3-cyclohexylpropanol
	3-cyclohexylpropyl alcohol
	cyclohexanepropanol
Inchi:	InChI=1S/C9H18O/c10-8-4-7-9-5-2-1-3-6-9/h9-10H,1-8H2
InchiKey:	CLYAQFSQLQTVNO-UHFFFAOYSA-N
Formula:	C9H18O
SMILES:	OCCCC1CCCCC1
Mol. weight [g/mol]:	142.24
CAS:	1124-63-6

Physical Properties

Property code	Value	Unit	Source
gf	-87.47	kJ/mol	Joback Method
hf	-327.00	kJ/mol	Joback Method
hfus	14.99	kJ/mol	Joback Method
hvap	52.74	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.339		Crippen Method
mcvol	132.680	ml/mol	McGowan Method
pc	3138.51	kPa	Joback Method
tb	491.20	K	NIST Webbook
tc	705.39	K	Joback Method
tf	259.39	K	Joback Method
vc	0.491	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.56	J/mol×K	705.39	Joback Method
cpg	351.28	J/mol×K	579.83	Joback Method
cpg	365.41	J/mol×K	611.22	Joback Method
cpg	378.82	J/mol×K	642.61	Joback Method

cpg	391.53	J/mol×K	674.00	Joback Method
cpg	320.78	J/mol×K	517.05	Joback Method
cpg	336.41	J/mol×K	548.44	Joback Method
cpl	262.65	J/mol×K	268.30	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	272.22	J/mol×K	278.51	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	271.97	J/mol×K	278.51	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	277.37	J/mol×K	283.62	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	277.12	J/mol×K	283.62	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	282.28	J/mol×K	288.72	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	282.28	J/mol×K	288.72	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	288.01	J/mol×K	293.83	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	287.76	J/mol×K	293.83	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	293.50	J/mol×K	298.93	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	267.48	J/mol×K	273.41	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	299.74	J/mol×K	304.04	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	299.74	J/mol×K	304.04	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	305.72	J/mol×K	309.14	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols

cpl	305.64	J/mol×K	309.14	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	293.33	J/mol×K	298.93	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	311.54	J/mol×K	314.25	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	317.61	J/mol×K	319.35	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	317.70	J/mol×K	319.35	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	323.60	J/mol×K	324.46	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	311.63	J/mol×K	314.25	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	330.50	J/mol×K	329.56	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	330.00	J/mol×K	329.56	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	335.90	J/mol×K	334.67	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	336.24	J/mol×K	334.67	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	342.31	J/mol×K	339.77	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	342.39	J/mol×K	339.77	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	348.46	J/mol×K	344.88	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols

cpl	348.63	J/mol×K	344.88	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	354.28	J/mol×K	349.98	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	354.61	J/mol×K	349.98	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	360.35	J/mol×K	355.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	267.64	J/mol×K	273.41	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	263.07	J/mol×K	268.30	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	258.66	J/mol×K	263.20	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	258.91	J/mol×K	263.20	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	254.84	J/mol×K	258.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	360.02	J/mol×K	355.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	323.85	J/mol×K	324.46	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
cpl	254.42	J/mol×K	258.09	Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols
dvisc	0.0002470	Pa×s	474.11	Joback Method
dvisc	0.0004641	Pa×s	431.16	Joback Method
dvisc	0.0010023	Pa×s	388.22	Joback Method
dvisc	0.0026222	Pa×s	345.28	Joback Method
dvisc	0.0090148	Pa×s	302.33	Joback Method
dvisc	0.0466461	Pa×s	259.39	Joback Method
dvisc	0.0001460	Pa×s	517.05	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1124636&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Heat Capacities of 2-Propenol and Selected Cyclohexylalcohols:	https://www.doi.org/10.1016/j.tca.2014.03.043

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	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/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume