3-Cyclohexene-1-methanol

Other names:	3-Cyclohexene-1-carbinol
	4-(Hydroxymethyl)cyclohexene
	1,2,3,6-Tetrahydrobenzyl alcohol
	1-Hydroxymethyl-3-cyclohexene
	Cyclohex-3-en-1-ylmethanol
	3-Cyclohexen-1-methanol
	cyclohex-3-ene-1-methanol
Inchi:	InChI=1S/C7H12O/c8-6-7-4-2-1-3-5-7/h1-2,7-8H,3-6H2
InchiKey:	VEIYJWQZNGASMA-UHFFFAOYSA-N
Formula:	C7H12O
SMILES:	OCC1CC=CCC1
Mol. weight [g/mol]:	112.17
CAS:	1679-51-2

Physical Properties

Property code	Value	Unit	Source
gf	-74.35	kJ/mol	Joback Method
hf	-227.94	kJ/mol	Joback Method
hfus	11.03	kJ/mol	Joback Method
hvap	48.58	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.335		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	4124.99	kPa	Joback Method
rinpol	1106.00		NIST Webbook
rinpol	1106.00		NIST Webbook
ripol	1696.00		NIST Webbook
ripol	1791.00		NIST Webbook
tb	470.45	K	Joback Method
tc	665.12	K	Joback Method
tf	237.61	K	Joback Method
vc	0.365	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	214.83	J/mol×K	470.45	Joback Method
cpg	227.60	J/mol×K	502.90	Joback Method
cpg	239.70	J/mol×K	535.34	Joback Method
cpg	251.18	J/mol×K	567.79	Joback Method
cpg	262.03	J/mol×K	600.23	Joback Method
cpg	272.29	J/mol×K	632.68	Joback Method
cpg	281.98	J/mol×K	665.12	Joback Method
dvisc	0.0579900	Pa×s	237.61	Joback Method
dvisc	0.0116411	Pa×s	276.42	Joback Method
dvisc	0.0034700	Pa×s	315.22	Joback Method
dvisc	0.0013487	Pa×s	354.03	Joback Method
dvisc	0.0006318	Pa×s	392.84	Joback Method
dvisc	0.0003392	Pa×s	431.64	Joback Method
dvisc	0.0002018	Pa×s	470.45	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1679512&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

cpg: Ideal gas 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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume