3-Cyclohexen-1-ol

Other names:	Cyclohex-1-en-4-ol
	Cyclohexen-4-ol
	3-Cyclohexenol
	4-Hydroxycyclohexene
	Cyclohex-3-en-1-ol
	3-Cyclohexene-1-ol
Inchi:	InChI=1S/C6H10O/c7-6-4-2-1-3-5-6/h1-2,6-7H,3-5H2
InchiKey:	ABZZOPIABWYXSN-UHFFFAOYSA-N
Formula:	C6H10O
SMILES:	OC1CC=CCC1
Mol. weight [g/mol]:	98.14
CAS:	822-66-2

Physical Properties

Property code	Value	Unit	Source
gf	-82.77	kJ/mol	Joback Method
hf	-207.30	kJ/mol	Joback Method
hfus	8.44	kJ/mol	Joback Method
hvap	46.35	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.087		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	4684.89	kPa	Joback Method
rinpol	1097.00		NIST Webbook
tb	447.57	K	Joback Method
tc	644.50	K	Joback Method
tf	226.34	K	Joback Method
vc	0.309	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	173.65	J/mol×K	447.57	Joback Method
cpg	185.32	J/mol×K	480.39	Joback Method

cpg	196.39	J/mol×K	513.21	Joback Method
cpg	206.87	J/mol×K	546.03	Joback Method
cpg	216.79	J/mol×K	578.86	Joback Method
cpg	226.15	J/mol×K	611.68	Joback Method
cpg	234.98	J/mol×K	644.50	Joback Method
dvisc	0.0721805	Pa×s	226.34	Joback Method
dvisc	0.0142316	Pa×s	263.21	Joback Method
dvisc	0.0041819	Pa×s	300.08	Joback Method
dvisc	0.0016066	Pa×s	336.95	Joback Method
dvisc	0.0007454	Pa×s	373.83	Joback Method
dvisc	0.0003970	Pa×s	410.70	Joback Method
dvisc	0.0002345	Pa×s	447.57	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C822662&Units=SI

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume