1-Cyclohexylethanol

Other names:	Methylcyclohexylcarbinol
	Cyclohexanemethanol, «alpha»-methyl-
	Cyclohexylmethylcarbinol
	Ethanol, 1-cyclohexyl-
	Methanol, cyclohexylmethyl-
	1-Cyclohexyl-1-ethanol
Inchi:	InChI=1S/C8H16O/c1-7(9)8-5-3-2-4-6-8/h7-9H,2-6H2,1H3
InchiKey:	JMSUNAQVHOHLMX-UHFFFAOYSA-N
Formula:	C8H16O
SMILES:	CC(O)C1CCCCC1
Mol. weight [g/mol]:	128.21
CAS:	1193-81-3

Physical Properties

Property code	Value	Unit	Source
gf	-98.33	kJ/mol	Joback Method
hf	-311.64	kJ/mol	Joback Method
hfus	8.88	kJ/mol	Joback Method
hvap	50.12	kJ/mol	Joback Method
log10ws	-2.20		Crippen Method
logp	1.948		Crippen Method
mcvol	118.590	ml/mol	McGowan Method
pc	3538.87	kPa	Joback Method
tb	462.20	K	NIST Webbook
tc	688.47	K	Joback Method
tf	233.12	K	Joback Method
vc	0.429	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	274.89	J/mol×K	493.73	Joback Method
cpg	343.66	J/mol×K	656.01	Joback Method
cpg	331.35	J/mol×K	623.56	Joback Method

cpg	318.34	J/mol×K	591.10	Joback Method
cpg	304.61	J/mol×K	558.64	Joback Method
cpg	290.13	J/mol×K	526.19	Joback Method
cpg	355.28	J/mol×K	688.47	Joback Method
dvisc	0.0001648	Pa×s	493.73	Joback Method
dvisc	0.0002930	Pa×s	450.29	Joback Method
dvisc	0.0005891	Pa×s	406.86	Joback Method
dvisc	0.0013994	Pa×s	363.42	Joback Method
dvisc	0.0042044	Pa×s	319.99	Joback Method
dvisc	0.0178461	Pa×s	276.56	Joback Method
dvisc	0.1298212	Pa×s	233.12	Joback Method

Sources

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=C1193813&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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