Ethanol, 2-(dicyclohexylamino)-

Other names: 2-(dicyclohexylamino)ethanol
Inchi: InChI=1S/C14H27NO/c16-12-11-15(13-7-3-1-4-8-13)14-9-5-2-6-10-14/h13-14,16H,1-12H
InchiKey: LLTGNYZQUXACFO-UHFFFAOYSA-N
Formula: C14H27NO
SMILES: OCCN(C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]: 225.37
CAS: 4500-31-6

Physical Properties

Property code	Value	Unit	Source
gf	89.86	kJ/mol	Joback Method
hf	-308.35	kJ/mol	Joback Method
hfus	22.80	kJ/mol	Joback Method
hvap	66.34	kJ/mol	Joback Method
log10ws	-3.53		Crippen Method
logp	2.946		Crippen Method
mcvol	202.250	ml/mol	McGowan Method
pc	2351.92	kPa	Joback Method
tb	663.44	K	Joback Method
tc	868.12	K	Joback Method
tf	355.59	K	Joback Method
vc	0.723	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	611.00	J/mol×K	663.44	Joback Method
cpg	632.31	J/mol×K	697.55	Joback Method
cpg	652.28	J/mol×K	731.67	Joback Method
cpg	670.95	J/mol×K	765.78	Joback Method
cpg	688.39	J/mol×K	799.89	Joback Method
cpg	704.63	J/mol×K	834.01	Joback Method
cpg	719.74	J/mol×K	868.12	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=C4500316&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
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