Ethanol, 2-(cyclohexylamino)-

Other names:	N-Cyclohexylaminoethanol
	2-(Cyclohexylamino)ethanol
	N-Cyclohexylethanolamine
	N-(2-Hydroxyethyl)cyclohexylamine
	N-(2-Hydroxyethyl)-N-cyclohexylamine
	Abbomeen e-25 aerosol
	Abromeen e-25
	Cyclohexlaminoethanol
	Cyclohexylamine, hydroxyethyl-
	Ethanol, 2-(cyclohexylamino)-, (aerosol)
	N-Cyclohexyl-2-hydroxyethylamine
	NSC 1505
Inchi:	InChI=1S/C8H17NO/c10-7-6-9-8-4-2-1-3-5-8/h8-10H,1-7H2
InchiKey:	MGUMZJAQENFQKN-UHFFFAOYSA-N
Formula:	C8H17NO
SMILES:	OCCNC1CCCCC1
Mol. weight [g/mol]:	143.23
CAS:	2842-38-8

Physical Properties

Property code	Value	Unit	Source
gf	-6.50	kJ/mol	Joback Method
hf	-252.89	kJ/mol	Joback Method
hfus	17.50	kJ/mol	Joback Method
hvap	56.95	kJ/mol	Joback Method
log10ws	-1.63		Crippen Method
logp	0.901		Crippen Method
mcvol	128.570	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
tb	544.34	K	Joback Method
tc	736.57	K	Joback Method
tf	300.78	K	Joback Method
vc	0.470	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	325.37	J/mol×K	544.34	Joback Method
cpg	340.21	J/mol×K	576.38	Joback Method
cpg	354.27	J/mol×K	608.42	Joback Method
cpg	367.59	J/mol×K	640.45	Joback Method
cpg	380.19	J/mol×K	672.49	Joback Method
cpg	392.08	J/mol×K	704.53	Joback Method
cpg	403.30	J/mol×K	736.57	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	397.50 ± 0.50	K	2.00	NIST Webbook

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=C2842388&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume