Ethyldicyclohexylamine

Other names:	N-Ethyldicyclohexylamine
	Cyclohexanamine, N-cyclohexyl-N-ethyl-
	Dicyclohexylamine, N-ethyl-
	N-cyclohexyl-N-ethylcyclohexylamine
Inchi:	InChI=1S/C14H27N/c1-2-15(13-9-5-3-6-10-13)14-11-7-4-8-12-14/h13-14H,2-12H2,1H3
InchiKey:	XRKQMIFKHDXFNQ-UHFFFAOYSA-N
Formula:	C14H27N
SMILES:	CCN(C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]:	209.37
CAS:	7175-49-7

Physical Properties

Property code	Value	Unit	Source
gf	226.68	kJ/mol	Joback Method
hf	-156.12	kJ/mol	Joback Method
hfus	18.71	kJ/mol	Joback Method
hvap	49.66	kJ/mol	Joback Method
log10ws	-4.27		Crippen Method
logp	3.974		Crippen Method
mcvol	196.380	ml/mol	McGowan Method
pc	2155.30	kPa	Joback Method
tb	571.26	K	Joback Method
tc	791.42	K	Joback Method
tf	294.77	K	Joback Method
vc	0.704	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	529.64	J/mol×K	571.26	Joback Method
cpg	556.40	J/mol×K	607.95	Joback Method
cpg	581.47	J/mol×K	644.65	Joback Method
cpg	604.92	J/mol×K	681.34	Joback Method
cpg	626.81	J/mol×K	718.03	Joback Method

cpg	647.21	J/mol×K	754.72	Joback Method
cpg	666.17	J/mol×K	791.42	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	387.70	K	0.40	NIST Webbook

Sources

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=C7175497&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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