N,N-Dicyclohexylmethylamine

Other names:	Dicyclohexylamine, N-methyl-
	N-Methyldicyclohexylamine
	N,N-Dicyclohexylmethylamine
	Dicyclohexylmethylamine
	N-cyclohexyl-N-methylcyclohexylamine
Inchi:	InChI=1S/C13H25N/c1-14(12-8-4-2-5-9-12)13-10-6-3-7-11-13/h12-13H,2-11H2,1H3
InchiKey:	GSCCALZHGUWNJW-UHFFFAOYSA-N
Formula:	C13H25N
SMILES:	CN(C1CCCCC1)C1CCCCC1
Mol. weight [g/mol]:	195.35

Physical Properties

Property code	Value	Unit	Source
hf	-166.98	kJ/mol	Cheméo Relay (1.0)
hfus	16.12	kJ/mol	Joback Method
hvap	60.37	kJ/mol	Cheméo Relay (1.0)
ie	7.58	eV	Cheméo Relay (1.0)
logp	3.584		Crippen Method
mcvol	182.290	ml/mol	McGowan Method
tb	538.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.28	J/mol×K	548.38	Joback Method
cpg	501.94	J/mol×K	585.75	Joback Method
cpg	526.91	J/mol×K	623.11	Joback Method
cpg	550.25	J/mol×K	660.48	Joback Method
cpg	572.02	J/mol×K	697.84	Joback Method
cpg	592.28	J/mol×K	735.21	Joback Method
cpg	611.10	J/mol×K	772.57	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	389.50 ± 1.50	K	1.30	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7560830&Units=SI

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure