Cyclohexanamine, 4,4'-methylenebis-

Other names:	Cyclohexylamine, 4,4'-methylenebis-
	(4,4'-Diaminodicyclohexyl)methane
	p,p'-Diaminodicyclohexylmethane
	Bis(p-aminocyclohexyl)methane
	Bis(4-aminocyclohexyl)methane
	4,4'-Methylenebis(aminocyclohexane)
	4,4'-Methylenebis(cyclohexylamine)
	4,4'-Methylenedicyclohexylamine
	4,4'-Bis(aminocyclohexyl)methane
	Di(p-aminocyclohexyl)methane
	HLR 4219
	HLR 4448
	Methylenebis(4-aminocyclohexane)
	4,4'-Methylenebis(cyclohexanamine)
	4,4'-Methylenedicyclohexanamine
	4,4'-Methylenedicyclohexaneamine
	PACM 20
	Wandamin HM
Inchi:	InChI=1S/C13H26N2/c14-12-5-1-10(2-6-12)9-11-3-7-13(15)8-4-11/h10-13H,1-9,14-15H2
InchiKey:	DZIHTWJGPDVSGE-UHFFFAOYSA-N
Formula:	C13H26N2
SMILES:	NC1CCC(CC2CCC(N)CC2)CC1
Mol. weight [g/mol]:	210.36
CAS:	1761-71-3

Physical Properties

Property code	Value	Unit	Source
gf	224.96	kJ/mol	Joback Method
hf	-176.11	kJ/mol	Joback Method
hfus	25.63	kJ/mol	Joback Method
hvap	66.05	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	2.412		Crippen Method
mcvol	192.270	ml/mol	McGowan Method
pc	2480.12	kPa	Joback Method
tb	671.66	K	Joback Method
tc	913.95	K	Joback Method

tf	409.07	K	Joback Method
vc	0.685	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.67	J/mol×K	671.66	Joback Method
cpg	620.96	J/mol×K	712.04	Joback Method
cpg	643.46	J/mol×K	752.42	Joback Method
cpg	664.23	J/mol×K	792.81	Joback Method
cpg	683.32	J/mol×K	833.19	Joback Method
cpg	700.77	J/mol×K	873.57	Joback Method
cpg	716.65	J/mol×K	913.95	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1761713&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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