1,3-Cyclobutanediimine, n,n'-dicyclohexyl-2,2,4,4-tetramethyl

Other names: Cyclohexanamine,N,N'-(2,2,4,4-tetramethyl-1,3-cyclobutanediylidene)bis-
Inchi: InChI=1S/C20H34N2/c1-19(2)17(21-15-11-7-5-8-12-15)20(3,4)18(19)22-16-13-9-6-10-14
InchiKey: HNLKPFJQXCHRAT-QGFZOGOGSA-N
Formula: C20H34N2
SMILES: CC1(C)C(=NC2CCCCC2)C(C)(C)C1=NC1CCCCC1
Mol. weight [g/mol]: 302.50
CAS: 61191-44-4

Physical Properties

Property code	Value	Unit	Source
hf	-188.65	kJ/mol	Joback Method
hvap	66.73	kJ/mol	Joback Method
ie	8.33	eV	NIST Webbook
log10ws	-5.95		Crippen Method
logp	5.600		Crippen Method
mcvol	271.440	ml/mol	McGowan Method
pc	1301.41	kPa	Joback Method
tb	861.24	K	Joback Method
tc	1116.84	K	Joback Method

Sources

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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C61191444&Units=SI

Legend

hf: Enthalpy of formation at standard conditions

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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