Cyclobutanediimine, 2,2,4,4-tetramethyl-n,n'-diphenyl

Inchi: InChI=1S/C20H22N2/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: PPLWKAVZYGOSAY-QGFZOGOGSA-N

Formula: C20H22N2

SMILES: CC1(C)C(=Nc2ccccc2)C(C)(C)C1=Nc1ccccc1

Mol. weight [g/mol]: 290.40

CAS: 1445-28-9

Physical Properties

Property code	Value	Unit	Source
hf	175.77	kJ/mol	Joback Method
hvap	70.43	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	5.598		Crippen Method
mcvol	245.640	ml/mol	McGowan Method
pc	1574.70	kPa	Joback Method
tb	875.50	K	Joback Method
tc	1144.37	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=C1445289&Units=SI

Legend

hf: Enthalpy of formation 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