

Diazene, dicyclohexyl-, 1,2-dioxide

Other names:	Azocyclohexane, dioxide Azocyclohexane N,N'-dioxide
Inchi:	InChI=1S/C12H22N2O2/c15-13(11-7-3-1-4-8-11)14(16)12-9-5-2-6-10-12/h11-12H,1-10H
InchiKey:	IQCWPIHWVLBCTQ-UHFFFAOYSA-N
Formula:	C12H22N2O2
SMILES:	[O-][N+](C1CCCCC1)=[N+](O)C1CCCCC1
Mol. weight [g/mol]:	226.32
CAS:	3378-45-8

Physical Properties

Property code	Value	Unit	Source
chs	-7625.00 ± 33.00	kJ/mol	NIST Webbook
hfs	-241.00 ± 33.00	kJ/mol	NIST Webbook
log10ws	-3.90		Crippen Method
logp	3.125		Crippen Method
mcvol	185.620	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3378458&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chs:	Standard solid enthalpy of combustion
hfs:	Solid phase enthalpy of formation at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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