Piperidine, 1-cyclohexyl-

Other names:	Cyclohexylpiperidine
	N-Cyclohexylpiperidine
	1-Cyclohexylpiperidine
	1-Piperidinocyclohexane
Inchi:	InChI=1S/C11H21N/c1-3-7-11(8-4-1)12-9-5-2-6-10-12/h11H,1-10H2
InchiKey:	DSSKLTAHHALFRW-UHFFFAOYSA-N
Formula:	C11H21N
SMILES:	C1CCC(N2CCCCC2)CC1
Mol. weight [g/mol]:	167.29
CAS:	3319-01-5

Physical Properties

Property code	Value	Unit	Source
chl	-7124.00 ± 11.00	kJ/mol	NIST Webbook
hfl	-205.40	kJ/mol	NIST Webbook
hvap	60.50 ± 0.60	kJ/mol	NIST Webbook
ie	7.93 ± 0.03	eV	NIST Webbook
log10ws	-2.90		Crippen Method
logp	2.805		Crippen Method
mcvol	154.110	ml/mol	McGowan Method
rinpol	1329.00		NIST Webbook
rinpol	1340.00		NIST Webbook
rinpol	1317.00		NIST Webbook
ripol	1535.00		NIST Webbook
ripol	1553.00		NIST Webbook
ripol	1571.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	59.90 ± 0.60	kJ/mol	308.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3319015&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

chl:	Standard liquid enthalpy of combustion
hfl:	Liquid phase enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices

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