

# Piperidine, 1-cyclohexyl-

<b>Other names:</b>	Cyclohexylpiperidine N-Cyclohexylpiperidine 1-Cyclohexylpiperidine 1-Piperidinocyclohexane
<b>Inchi:</b>	InChI=1S/C11H21N/c1-3-7-11(8-4-1)12-9-5-2-6-10-12/h11H,1-10H2
<b>InchiKey:</b>	DSSKLTAAHHALFRW-UHFFFAOYSA-N
<b>Formula:</b>	C11H21N
<b>SMILES:</b>	C1CCC(N2CCCCC2)CC1
<b>Mol. weight [g/mol]:</b>	167.29
<b>CAS:</b>	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	1317.00		NIST Webbook
rinpol	1329.00		NIST Webbook
rinpol	1340.00		NIST Webbook
ripol	1553.00		NIST Webbook
ripol	1535.00		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

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3319015&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3319015&amp;Units=SI</a>

# Legend

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

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