Cyclohexane, azido-

Other names:	Cyclohexyl azide
	azidocyclohexane
Inchi:	InChI=1S/C6H11N3/c7-9-8-6-4-2-1-3-5-6/h6H,1-5H2
InchiKey:	ODSNIGPBQIINLA-UHFFFAOYSA-N
Formula:	C6H11N3
SMILES:	[N-]=[N+]=NC1CCCCC1
Mol. weight [g/mol]:	125.17
CAS:	19573-22-9

Physical Properties

Property code	Value	Unit	Source
chl	-4041.60	kJ/mol	NIST Webbook
hf	154.40	kJ/mol	NIST Webbook
hfl	108.40	kJ/mol	NIST Webbook
hvap	46.00	kJ/mol	NIST Webbook
log10ws	-7.43		Crippen Method
logp	2.629		Crippen Method
mcvol	105.880	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	49.20	kJ/mol	298.15	Vapor pressures and enthalpies of vaporization of azides

Sources

Vapor pressures and enthalpies of vaporization of azides:	https://www.doi.org/10.1016/j.jct.2011.05.028
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19573229&Units=SI

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chl:	Standard liquid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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