

# Cyclohexane,trans-1-chloro-2-nitroso-

**Inchi:** InChI=1S/C6H10ClNO/c7-5-3-1-2-4-6(5)8-9/h5-6H,1-4H2/t5-,6-/m0/s1  
**InchiKey:** IWTDSJVXBQXLLR-WDSKDSINSA-N  
**Formula:** C6H10ClNO  
**SMILES:** O=NC1CCCCC1Cl  
**Mol. weight [g/mol]:** 147.60  
**CAS:** 1809-72-9

## Physical Properties

Property code	Value	Unit	Source
hf	-317.12	kJ/mol	Joback Method
hvap	42.55	kJ/mol	Joback Method
ie	9.13	eV	NIST Webbook
log10ws	-2.80		Crippen Method
logp	2.303		Crippen Method
mvol	108.330	ml/mol	McGowan Method
pc	3555.77	kPa	Joback Method
tb	452.39	K	Joback Method
tc	663.79	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](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Joback Method:** [https://en.wikipedia.org/wiki/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=C1809729&Units=SI>

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions

<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>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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