

# Cycloheptanone, oxime

**Inchi:** InChI=1S/C7H13NO/c9-8-7-5-3-1-2-4-6-7/h9H,1-6H2  
**InchiKey:** OENGSNXUALAIFP-UHFFFAOYSA-N  
**Formula:** C7H13NO  
**SMILES:** ON=C1CCCCC1  
**Mol. weight [g/mol]:** 127.18  
**CAS:** 2158-31-8

## Physical Properties

Property code	Value	Unit	Source
hf	-230.51	kJ/mol	Joback Method
hvap	52.91	kJ/mol	Joback Method
ie	8.88 ± 0.03	eV	NIST Webbook
log10ws	-1.47		Crippen Method
logp	2.171		Crippen Method
mcvol	110.180	ml/mol	McGowan Method
pc	3615.89	kPa	Joback Method
tb	559.39	K	Joback Method
tc	775.24	K	Joback Method

## Sources

**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=C2158318&Units=SI>  
**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)

## 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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