

# 2-Heptane isothiocyanate

**Inchi:** InChI=1S/C8H15NS/c1-3-4-5-6-8(2)9-7-10/h8H,3-6H2,1-2H3  
**InchiKey:** UPTLUDLHIIYPNC-UHFFFAOYSA-N  
**Formula:** C8H15NS  
**SMILES:** CCCCCC(C)N=C=S  
**Mol. weight [g/mol]:** 157.28  
**CAS:** 21663-51-4

## Physical Properties

Property code	Value	Unit	Source
hf	70.34	kJ/mol	Joback Method
hvap	43.45	kJ/mol	Joback Method
log10ws	-3.22		Crippen Method
logp	3.058		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	2613.74	kPa	Joback Method
tb	527.95	K	Joback Method
tc	740.54	K	Joback Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C21663514&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>  
**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)

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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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