

# 3-(Dimethylamino)propyl isothiocyanate

**Inchi:** InChI=1S/C6H12N2S/c1-8(2)5-3-4-7-6-9/h3-5H2,1-2H3  
**InchiKey:** LDXHWJITNCSIJC-UHFFFAOYSA-N  
**Formula:** C6H12N2S  
**SMILES:** CN(C)CCCN=C=S  
**Mol. weight [g/mol]:** 144.24  
**CAS:** 27421-70-1

## Physical Properties

Property code	Value	Unit	Source
hf	184.43	kJ/mol	Joback Method
hvap	41.43	kJ/mol	Joback Method
log10ws	-0.84		Crippen Method
logp	1.041		Crippen Method
mcvol	123.110	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
tb	495.07	K	Joback Method
tc	706.51	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C27421701&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**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>

## 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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