

# 3,5-Dimethylphenyl isothiocyanate

**Inchi:** InChI=1S/C9H9NS/c1-7-3-8(2)5-9(4-7)10-6-11/h3-5H,1-2H3  
**InchiKey:** DSMXCADWIFIJEX-UHFFFAOYSA-N  
**Formula:** C9H9NS  
**SMILES:** Cc1cc(C)cc(N=C=S)c1  
**Mol. weight [g/mol]:** 163.24  
**CAS:** 40046-30-8

## Physical Properties

Property code	Value	Unit	Source
hf	268.57	kJ/mol	Joback Method
hvap	49.67	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.038		Crippen Method
mcvol	131.640	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
tb	587.91	K	Joback Method
tc	844.05	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C40046308&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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