

# 2,5-Difluorophenyl isothiocyanate

**Inchi:** InChI=1S/C7H3F2NS/c8-5-1-2-6(9)7(3-5)10-4-11/h1-3H  
**InchiKey:** QVIDXDRFMDPVLA-UHFFFAOYSA-N  
**Formula:** C7H3F2NS  
**SMILES:** Fc1ccc(F)c(N=C=S)c1  
**Mol. weight [g/mol]:** 171.17  
**CAS:** 206559-57-1

## Physical Properties

Property code	Value	Unit	Source
hf	-82.37	kJ/mol	Joback Method
hvap	43.58	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.699		Crippen Method
mcvol	107.000	ml/mol	McGowan Method
pc	3642.13	kPa	Joback Method
tb	540.69	K	Joback Method
tc	780.96	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C206559571&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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