

# Thiophene-2-thiol, S-pentafluoropropionyl-

**Inchi:** InChI=1S/C7H3F5OS2/c8-6(9,7(10,11)12)5(13)15-4-2-1-3-14-4/h1-3H  
**InchiKey:** SDOGABPQQTWVWHM-UHFFFAOYSA-N  
**Formula:** C7H3F5OS2  
**SMILES:** O=C(Sc1cccs1)C(F)(F)C(F)(F)F  
**Mol. weight [g/mol]:** 262.22

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.56		Crippen Method
logp	3.564		Crippen Method
mcvol	133.150	ml/mol	McGowan Method
rinsol	1045.00		NIST Webbook

## Sources

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U375543&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**rinsol:** Non-polar retention indices

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