

# Phosphenodithioic fluoride

**Inchi:** InChI=1S/FPS2/c1-2(3)4  
**InchiKey:** FBNZOXPYNXUHGG-UHFFFAOYSA-N  
**Formula:** FPS2  
**SMILES:** FP(=S)=S  
**Mol. weight [g/mol]:** 114.10  
**CAS:** 137649-46-8

## Physical Properties

Property code	Value	Unit	Source
ie	10.11	eV	NIST Webbook
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log10ws	3.74		Crippen Method
logp	1.277		Crippen Method
mcvol	61.490	ml/mol	McGowan Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C137649468&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)

## Legend

**ie:** Ionization energy  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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<https://www.chemeo.com/cid/34-344-2/Phosphenodithioic-fluoride.pdf>

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