

# Cyclopentyl propylphosphonofluoridate

**Inchi:** InChI=1S/C8H16FO2P/c1-2-7-12(9,10)11-8-5-3-4-6-8/h8H,2-7H2,1H3  
**InchiKey:** ADZXLTKPISPAKG-UHFFFAOYSA-N  
**Formula:** C8H16FO2P  
**SMILES:** CCCP(=O)(F)OC1CCCC1  
**Mol. weight [g/mol]:** 194.18

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.39		Crippen Method
logp	3.518		Crippen Method
mcvol	146.690	ml/mol	McGowan Method
rinpol	1289.00		NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U298288&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)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

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

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