

# Phenyl methylphosphonofluoridate

**Inchi:** InChI=1S/C7H8FO2P/c1-11(8,9)10-7-5-3-2-4-6-7/h2-6H,1H3  
**InchiKey:** UTQIOSIJOGSEHL-UHFFFAOYSA-N  
**Formula:** C7H8FO2P  
**SMILES:** CP(=O)(F)Oc1ccccc1  
**Mol. weight [g/mol]:** 174.11  
**CAS:** 133826-40-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.72		Crippen Method
logp	2.858		Crippen Method
mcvol	119.700	ml/mol	McGowan Method
rinpol	1207.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1207.00		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=C133826401&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  
**rinpol:** Non-polar retention indices

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