

# Methylphosphonic acid, fluoroanhydride, cyclooctyl ester

**Other names:** Cyclooctyl methylphosphonofluoridoate  
Cyclooctyl methylphosphonofluoridate

**Inchi:** InChI=1S/C9H18FO2P/c1-13(10,11)12-9-7-5-3-2-4-6-8-9/h9H,2-8H2,1H3

**InchiKey:** FPCMLGWNHKTCCBN-UHFFFAOYSA-N

**Formula:** C9H18FO2P

**SMILES:** CP(=O)(F)OC1CCCCCCC1

**Mol. weight [g/mol]:** 208.21

**CAS:** 14719-38-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.81		Crippen Method
logp	3.908		Crippen Method
mcvol	160.780	ml/mol	McGowan Method
rinpol	1462.00		NIST Webbook
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## 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=C14719381&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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