

# Diethyl dimethylpyrophosphate

**Inchi:** InChI=1S/C6H16O5P2/c1-5-9-12(3,7)11-13(4,8)10-6-2/h5-6H2,1-4H3  
**InchiKey:** YCQJGVYQCXLCBH-UHFFFAOYSA-N  
**Formula:** C6H16O5P2  
**SMILES:** CCOP(C)(=O)OP(C)(=O)OCC  
**Mol. weight [g/mol]:** 230.14  
**CAS:** 32288-17-8

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.14		Crippen Method
logp	2.722		Crippen Method
mcvol	165.670	ml/mol	McGowan Method
rinpol	1340.00		NIST Webbook
rinpol	1340.00		NIST Webbook
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rinpol	1340.00		NIST Webbook

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C32288178&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

**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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