

# 1,3,2-Dioxaphosphorinane,2-methoxy-4,6-dimethyl

**Inchi:** InChI=1S/C6H13O3P/c1-5-4-6(2)9-10(7-3)8-5/h5-6H,4H2,1-3H3/t5-,6-/m1/s1  
**InchiKey:** GNWZQVMWSLTQMZ-PHDIDXHHSA-N  
**Formula:** C6H13O3P  
**SMILES:** COP1OC(C)CC(C)O1  
**Mol. weight [g/mol]:** 164.14  
**CAS:** 41821-91-4

## Physical Properties

Property code	Value	Unit	Source
affp	946.60	kJ/mol	NIST Webbook
basg	914.10	kJ/mol	NIST Webbook
ie	8.70 ± 0.10	eV	NIST Webbook
log10ws	1.46		Crippen Method
logp	2.074		Crippen Method
mcvol	122.610	ml/mol	McGowan Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C41821914&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**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

**affp:** Proton affinity  
**basg:** Gas basicity  
**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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