

# Phosphonic acid, diphenyl ester

<b>Other names:</b>	Diphenoxyphosphine oxide Diphenyl hydrogen phosphite Diphenyl phosphite Diphenyl phosphonate Phenyl phosphonate ((PhO)2HPO) Phosphorous acid, diphenyl ester Doverphos 213 Weston DPP NSC 43786
<b>Inchi:</b>	InChI=1S/C12H11O3P/c13-16(14-11-7-3-1-4-8-11)15-12-9-5-2-6-10-12/h1-10,16H
<b>InchiKey:</b>	OGBPILLJZSJRC-UHFFFAOYSA-N
<b>Formula:</b>	C12H11O3P
<b>SMILES:</b>	O=[PH](Oc1ccccc1)Oc1ccccc1
<b>Mol. weight [g/mol]:</b>	234.19
<b>CAS:</b>	4712-55-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.99		Crippen Method
logp	3.534		Crippen Method
mcvol	170.490	ml/mol	McGowan Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4712554&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4712554&amp;Units=SI</a>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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