

# Phosphonous acid, phenyl-, diethyl ester

<b>Other names:</b>	Diethyl phenylphosphonite Diethoxyphenylphosphine
<b>Inchi:</b>	InChI=1S/C10H15O2P/c1-3-11-13(12-4-2)10-8-6-5-7-9-10/h5-9H,3-4H2,1-2H3
<b>InchiKey:</b>	RVDJLKVICMLVJQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H15O2P
<b>SMILES:</b>	CCOP(OCC)c1ccccc1
<b>Mol. weight [g/mol]:</b>	198.20
<b>CAS:</b>	1638-86-4

## Physical Properties

Property code	Value	Unit	Source
ie	8.20	eV	NIST Webbook
ie	8.20	eV	NIST Webbook
ie	8.53	eV	NIST Webbook
ie	8.53	eV	NIST Webbook
log10ws	-3.51		Crippen Method
logp	2.697		Crippen Method
mvol	160.200	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1638864&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1638864&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

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