

# Phosphine, diphenyl-

<b>Other names:</b>	Diphenylphosphine
<b>Inchi:</b>	InChI=1S/C12H11P/c1-3-7-11(8-4-1)13-12-9-5-2-6-10-12/h1-10,13H
<b>InchiKey:</b>	GPAYUJZHTULNBE-UHFFFAOYSA-N
<b>Formula:</b>	C12H11P
<b>SMILES:</b>	c1ccc(Pc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	186.19
<b>CAS:</b>	829-85-6

## Physical Properties

Property code	Value	Unit	Source
ie	7.80 ± 0.01	eV	NIST Webbook
log10ws	-7.87		Crippen Method
logp	2.316		Crippen Method
mcvol	152.880	ml/mol	McGowan Method

## Sources

<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=C829856&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C829856&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>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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