

Phosphine, methyldiphenyl-

Other names:	Diphenylmethylphosphine Methyldiphenylphosphine
Inchi:	InChI=1S/C13H13P/c1-14(12-8-4-2-5-9-12)13-10-6-3-7-11-13/h2-11H,1H3
InchiKey:	UJNZOIKQAUQOCN-UHFFFAOYSA-N
Formula:	C13H13P
SMILES:	CP(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	200.22
CAS:	1486-28-8

Physical Properties

Property code	Value	Unit	Source
affp	972.10	kJ/mol	NIST Webbook
basg	939.70	kJ/mol	NIST Webbook
ie	8.28 ± 0.05	eV	NIST Webbook
log10ws	-8.10		Crippen Method
logp	2.749		Crippen Method
mcvol	166.970	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1486288&Units=SI

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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