

Phosphinous chloride, diphenyl-

Other names:	Chlorodiphenylphosphine Diphenylchlorophosphine Diphenylphosphine chloride Diphenylphosphinous chloride Phosphine, chlorodiphenyl- P-Chlorodiphenylphosphine
Inchi:	InChI=1S/C12H10ClP/c13-14(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H
InchiKey:	XGRJZXREYAXTGV-UHFFFAOYSA-N
Formula:	C12H10ClP
SMILES:	ClP(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	220.63
CAS:	1079-66-9

Physical Properties

Property code	Value	Unit	Source
ie	8.75 ± 0.05	eV	NIST Webbook
log10ws	-8.82		Crippen Method
logp	3.273		Crippen Method
mcvol	165.120	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C1079669&Units=SI

Legend

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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