

Diphenylphosphinic chloride

Other names:	Diphenylphosphinyl chloride Phosphinic chloride, diphenyl- Diphenylphosphinochloridic acid Diphenylphosphoryl chloride Phosphine oxide, chlorodiphenyl-
Inchi:	InChI=1S/C12H10ClOP/c13-15(14,11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10H
InchiKey:	QPQGTZMAQRXCJW-UHFFFAOYSA-N
Formula:	C12H10ClOP
SMILES:	O=P(Cl)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	236.63
CAS:	1499-21-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-13.26		Crippen Method
logp	3.154		Crippen Method
mcvol	170.990	ml/mol	McGowan Method

Sources

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=C1499214&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

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

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