

Phosphinous chloride, bis(1,1-dimethylethyl)-

Other names:	Phosphinous chloride, di-tert-butyl- Chlorodi-tert-butylphosphine Di-tert-butylchlorophosphine Di-tert-Butylphosphinous chloride (tert-C4H9)2PCI di-t-Butylchlorophosphine Phosphinous chloride, P,P-bis(1,1-dimethylethyl)-
Inchi:	InChI=1S/C8H18ClP/c1-7(2,3)10(9)8(4,5)6/h1-6H3
InchiKey:	MCRSZLVSRGTMIH-UHFFFAOYSA-N
Formula:	C8H18ClP
SMILES:	CC(C)(C)P(Cl)C(C)(C)C
Mol. weight [g/mol]:	180.66
CAS:	13716-10-4

Physical Properties

Property code	Value	Unit	Source
ie	8.00	eV	NIST Webbook
ie	8.45	eV	NIST Webbook
log10ws	-0.39		Crippen Method
logp	4.219		Crippen Method
mvol	156.280	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13716104&Units=SI
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

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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