Phosphonic dichloride, phenyl-

Other names:	Benzenephosphonic dichloride
	Benzenephosphonyl chloride
	Dichlorophenylphosphine oxide
	Phenyldichlorophosphine oxide
	Phenylphosphonic acid dichloride
	Phenylphosphonic dichloride
	Phenylphosphonodichloridic acid
	Phenylphosphonyl dichloride
	Benzenephosphorus oxydichloride
	Phosphonyldichloride, phenyl-
	NSC 66477
	Phosphonic dichloride, P-phenyl-
Inchi:	InChI=1S/C6H5Cl2OP/c7-10(8,9)6-4-2-1-3-5-6/h1-5H
InchiKey:	IBDMRHDXAQZJAP-UHFFFAOYSA-N
Formula:	C6H5Cl2OP
SMILES:	O=P(Cl)(Cl)c1ccccc1
Mol. weight [g/mol]:	194.98
CAS:	824-72-6

Physical Properties

Property code	Value	Unit	Source
ie	9.95	eV	NIST Webbook
log10ws	-8.40		Crippen Method
logp	2.983		Crippen Method
mcvol	122.450	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C824726&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