

Phosphorochloridous acid, diethyl ester

Other names:	Chlorodiethoxyphosphine Diethyl chlorophosphite Diethyl phosphorochloridite Ethyl chlorophosphite Ethyl phosphorochloridite, (EtO) ₂ CIP Phosphine, chlorodiethoxy- Ethyl phosphorochloridite
Inchi:	InChI=1S/C4H10ClO2P/c1-3-6-8(5)7-4-2/h3-4H2,1-2H3
InchiKey:	TXHWYSOQHNMOOU-UHFFFAOYSA-N
Formula:	C4H10ClO2P
SMILES:	CCOP(Cl)OCC
Mol. weight [g/mol]:	156.55
CAS:	589-57-1

Physical Properties

Property code	Value	Unit	Source
ie	9.50	eV	NIST Webbook
log10ws	1.35		Crippen Method
logp	2.525		Crippen Method
mcvol	111.660	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=C589571&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

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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