

# Phosphorochloridic acid, diethyl ester

<b>Other names:</b>	Diethoxyphosphorus oxychloride Diethoxyphosphoryl chloride Diethyl chlorophosphate Diethyl phosphorochloridate Diethyl phosphorochloride Diethylphosphoric acid chloride Ethyl phosphorochloridate (Cl(EtO)2PO) Ethyl phosphorochloridate (EtO)2CIPO O,O-Diethyl chloridophosphate O,O-Diethyl chlorophosphate O,O-Diethyl chlorophosphonate O,O-Diethyl phosphorochloridate O,O-Diethylphosphoryl chloride Phosphine oxide, chlorodiethoxy- Chlorophosphoric acid, diethyl ester Diethyl chlorophosphonate Diethylchlorfosfat Ethyl phosphorochloridate Chlorodiethoxyphosphine oxide Chlorodiethylphosphate Diethyl phosphochloridate NSC 43770
<b>Inchi:</b>	InChI=1S/C4H10ClO3P/c1-3-7-9(5,6)8-4-2/h3-4H2,1-2H3
<b>InchiKey:</b>	LGTLXDJOAJDFLR-UHFFFAOYSA-N
<b>Formula:</b>	C4H10ClO3P
<b>SMILES:</b>	CCOP(=O)(Cl)OCC
<b>Mol. weight [g/mol]:</b>	172.55
<b>CAS:</b>	814-49-3

## Physical Properties

Property code	Value	Unit	Source
ie	10.40	eV	NIST Webbook
ie	10.29	eV	NIST Webbook
ie	11.07	eV	NIST Webbook
log10ws	-3.09		Crippen Method
logp	2.406		Crippen Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C814493&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C814493&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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