

Phosphorochloridic acid, dimethyl ester

Other names:	Chlorodimethoxyphosphine oxide Dimethoxyphosphinic chloride Dimethyl chlorophosphate Dimethyl chlorophosphonate Dimethyl phosphorochloridate Dimethyl phosphorochloride Dimethylphosphoryl chloride Methyl phosphorochloridate ((MeO) ₂ ClPO) O,O-Dimethyl phosphorochloridate O,O-Dimethyl phosphorylchloridate O,O-Dimethylphosphoryl chloride Methyl phosphorochloridate Chlorodimethylphosphate Dimethyl phosphoryl chloridate Dimethyl phosphorchloridate
Inchi:	InChI=1S/C2H6ClO3P/c1-5-7(3,4)6-2/h1-2H3
InchiKey:	NGFFLHMFSINFGB-UHFFFAOYSA-N
Formula:	C ₂ H ₆ ClO ₃ P
SMILES:	COP(=O)(Cl)OC
Mol. weight [g/mol]:	144.49
CAS:	813-77-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.25		Crippen Method
logp	1.626		Crippen Method
mcvol	89.350	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C813774&Units=SI

Legend

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

Latest version available from:

<https://www.cheméo.com/cid/117-809-4/Phosphorochloridic-acid-dimethyl-ester.pdf>

Generated by Cheméo on 2024-04-29 12:52:24.300134443 +0000 UTC m=+16684393.220711758.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.