Phosphinecarboxylic acid, diethoxy-, ethyl ester, oxide

Other names:	Ethyl diethoxyphosphinylformate
	Triethyl phosphonoformate
	Diethyl carbethoxyphosphonate
	Diethyl ethoxycarbonylphosphonate
	Formic acid, phosphono-, triethyl ester
	Triethyl carboxyphosphonate
	Triethyl phosphonomethanoate
	NSC 108684
	Phosphinecarboxylic acid, 1,1-diethoxy-, ethyl ester, 1-oxide
Inchi:	InChI=1S/C7H15O5P/c1-4-10-7(8)13(9,11-5-2)12-6-3/h4-6H2,1-3H3
InchiKey:	NOJFJZZMRDSOLM-UHFFFAOYSA-N
Formula:	C7H15O5P
SMILES:	CCOC(=O)P(=O)(OCC)OCC
Mol. weight [g/mol]:	210.16
CAS:	1474-78-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.04		Crippen Method
logp	2.409		Crippen Method
mcvol	155.000	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1474788&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

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume