Phosphoramidic acid, diethyl ester

Other names:	Amidophosphoric acid diethyl ester
	Diethyl amidophosphonate
	Diethyl phosphoramidate
Inchi:	InChI=1S/C4H12NO3P/c1-3-7-9(5,6)8-4-2/h3-4H2,1-2H3,(H2,5,6)
InchiKey:	MCQILDHFZKTBOD-UHFFFAOYSA-N
Formula:	C4H12NO3P
SMILES:	CCOP(N)(=O)OCC
Mol. weight [g/mol]:	153.12
CAS:	1068-21-9

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.37		Crippen Method
logp	1.126		Crippen Method
mcvol	115.270	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=C1068219&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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.chemeo.com/cid/80-783-4/Phosphoramidic-acid-diethyl-ester.pdf

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