Phosphonamidic acid, N,N-diethyl-P-methyl-, ethyl ester

Other names: O-Ethyl methylphosphonoamidate, N,N-diethyl-
N,N-Diethyl-p-methyl phosphonamidic acid, ethyl ester
Inchi: InChI=1S/C7H18NO2P/c1-5-8(6-2)11(4,9)10-7-3/h5-7H2,1-4H3
InchiKey: GGLHKHSRJXGTRZ-UHFFFAOYSA-N
Formula: C7H18NO2P
SMILES: CCOP(C)(=O)N(CC)CC
Mol. weight [g/mol]: 179.20
CAS: 2404-81-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.68		Crippen Method
logp	2.188		Crippen Method
mcvol	151.670	ml/mol	McGowan Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2404811&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

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

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