Bis(N,N-dimethyl) O-ethyl phosphorodiamidate

Other names: Ethyl tetramethylphosphorodiamidate
Inchi: InChI=1S/C6H17N2O2P/c1-6-10-11(9,7(2)3)8(4)5/h6H2,1-5H3
InchiKey: WOQVAMZDMJUHGB-UHFFFAOYSA-N
Formula: C6H17N2O2P
SMILES: CCOP(=O)(N(C)C)N(C)C
Mol. weight [g/mol]: 180.19
CAS: 2404-65-1

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.83		Crippen Method
logp	1.254		Crippen Method
mcvol	147.560	ml/mol	McGowan Method
rinpol	1159.00		NIST Webbook
rinpol	1216.60		NIST Webbook
rinpol	1158.70		NIST Webbook
rinpol	1216.60		NIST Webbook

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=C2404651&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
rinpol: Non-polar retention indices