PENTAMETHYLPHOSPHONIC DIAMIDE

Other names: Phosphonic diamide, pentamethyl-
N,N,N',N'-Tetramethylmethylphosphonamide
Phosphorodiamidous acid, tetramethyl-, methyl ester
N,N,N',N'-Tetramethyl methanephosphorodiamide
Inchi: InChI=1S/C5H15N2OP/c1-6(2)9(5,8)7(3)4/h1-5H3
InchiKey: YRWJRJCUZYGLPN-UHFFFAOYSA-N
Formula: C5H15N2OP
SMILES: CN(C)P(C)(=O)N(C)C
Mol. weight [g/mol]: 150.16

Physical Properties

Property code	Value	Unit	Source
affp	951.30	kJ/mol	NIST Webbook
basg	918.90	kJ/mol	NIST Webbook
ie	7.20	eV	NIST Webbook
ie	7.80	eV	NIST Webbook
logp	0.933		Crippen Method
mcvol	127.600	ml/mol	McGowan Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2511173&Units=SI
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):

Legend

affp: Proton affinity

basg:	Gas basicity
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume