N,N-Dimethyl-dimethylphosphoric amide

Other names: OP(N(CH3)2)(CH3)2
Inchi: InChI=1S/C4H12NOP/c1-5(2)7(3,4)6/h1-4H3
InchiKey: HULKTRNALMGDES-UHFFFAOYSA-N
Formula: C4H12NOP
SMILES: CN(C)P(C)(C)=O
Mol. weight [g/mol]: 121.12
CAS: 50663-05-3

Physical Properties

Property code	Value	Unit	Source
affp	935.50	kJ/mol	NIST Webbook
basg	903.00	kJ/mol	NIST Webbook
log10ws	-1.35		Crippen Method
logp	1.086		Crippen Method
mcvol	103.530	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=C50663053&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

affp: Proton affinity
basg: Gas basicity
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume