Bis(dimethylamino)methylphosphine

Other names: Phosphine, bis(dimethylamino)-methyl-
Inchi: InChI=1S/C5H15N2P/c1-6(2)8(5)7(3)4/h1-5H3
InchiKey: PUFUNWGTWSVVRT-UHFFFAOYSA-N
Formula: C5H15N2P
SMILES: CN(C)P(C)N(C)C
Mol. weight [g/mol]: 134.16
CAS: 14937-39-4

Physical Properties

Property code	Value	Unit	Source
ie	7.80	eV	NIST Webbook
log10ws	3.11		Crippen Method
logp	1.051		Crippen Method
mcvol	121.730	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=C14937394&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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