Dimethylphenylphosphine

Other names: Phosphine, dimethylphenyl-
Phenyldimethylphosphine
Inchi: InChI=1S/C8H11P/c1-9(2)8-6-4-3-5-7-8/h3-7H,1-2H3
InchiKey: HASCQPSFPAKVEK-UHFFFAOYSA-N
Formula: C8H11P
SMILES: CP(C)c1ccccc1
Mol. weight [g/mol]: 138.15
CAS: 672-66-2

Physical Properties

Property code	Value	Unit	Source
affp	969.20	kJ/mol	NIST Webbook
basg	936.80	kJ/mol	NIST Webbook
ie	7.81 ± 0.01	eV	NIST Webbook
ie	8.32 ± 0.05	eV	NIST Webbook
ie	8.45	eV	NIST Webbook
ie	7.58 ± 0.05	eV	NIST Webbook
log10ws	-2.52		Crippen Method
logp	2.053		Crippen Method
mcvol	120.280	ml/mol	McGowan Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C672662&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

affp: Proton affinity

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