Dimethylphosphine

Other names:	Phosphine, dimethyl- (CH3)2PH
Inchi:	InChI=1S/C2H7P/c1-3-2/h3H,1-2H3
InchiKey:	YOTZYFSGUCFUKA-UHFFFAOYSA-N
Formula:	C2H7P
SMILES:	CPC
Mol. weight [g/mol]:	62.05
CAS:	676-59-5

Physical Properties

Property code	Value	Unit	Source
affp	912.00	kJ/mol	NIST Webbook
basg	877.90	kJ/mol	NIST Webbook
ie	8.47	eV	NIST Webbook
ie	8.50 ± 0.10	eV	NIST Webbook
ie	8.47 ± 0.07	eV	NIST Webbook
ie	9.70	eV	NIST Webbook
ie	9.13	eV	NIST Webbook
ie	9.10	eV	NIST Webbook
ie	9.10	eV	NIST Webbook
log10ws	3.30		Crippen Method
logp	0.924		Crippen Method
mcvol	59.500	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C676595&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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