Phosphinidene

Inchi: InChI=1S/HP/h1H
InchiKey: BHEPBYXIRTUNPN-UHFFFAOYSA-N
Formula: HP
SMILES: [PH]
Mol. weight [g/mol]: 31.98
CAS: 13967-14-1

Physical Properties

Property code	Value	Unit	Source
affp	670.30	kJ/mol	NIST Webbook
basg	639.60	kJ/mol	NIST Webbook
ea	1.03 ± 0.01	eV	NIST Webbook
ea	1.00 ± 0.06	eV	NIST Webbook
ea	0.50 ± 0.20	eV	NIST Webbook
ea	1.10	eV	NIST Webbook
ea	1.03 ± 0.01	eV	NIST Webbook
ie	10.15 ± 0.01	eV	NIST Webbook
ie	10.20 ± 0.10	eV	NIST Webbook
log10ws	3.25		Crippen Method
logp	0.593		Crippen Method
mcvol	27.020	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=C13967141&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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