

Diphosphine

Inchi: InChI=1S/H4P2/c1-2/h1-2H2
InchiKey: VURFVHCLMJOLKN-UHFFFAOYSA-N
Formula: H4P2
SMILES: PP
Mol. weight [g/mol]: 65.98
CAS: 13445-50-6

Physical Properties

Property code	Value	Unit	Source
ie	8.80	eV	NIST Webbook
ie	9.17 ± 0.05	eV	NIST Webbook
ie	8.70 ± 0.30	eV	NIST Webbook
ie	10.60 ± 0.30	eV	NIST Webbook
ie	9.69	eV	NIST Webbook
log10ws	6.72		Crippen Method
logp	0.652		Crippen Method
mcvol	51.780	ml/mol	McGowan Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13445506&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

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

Latest version available from:

<https://www.chemeo.com/cid/62-254-1/Diphosphine.pdf>

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