Phosphorus difluoride

Inchi: InChI=1S/F2P/c1-3-2
InchiKey: MSGYRGHIEBLFLX-UHFFFAOYSA-N
Formula: F2P
SMILES: F[P]F
Mol. weight [g/mol]: 68.97
CAS: 13873-52-4

Physical Properties

Property code	Value	Unit	Source
ea	1.60 ± 0.50	eV	NIST Webbook
ea	1.50 ± 0.50	eV	NIST Webbook
ea	1.60 ± 0.50	eV	NIST Webbook
ie	8.84 ± 0.01	eV	NIST Webbook
ie	8.85 ± 0.01	eV	NIST Webbook
ie	9.80	eV	NIST Webbook
ie	9.09 ± 0.01	eV	NIST Webbook
log10ws	2.19		Crippen Method
logp	1.702		Crippen Method
mcvol	32.710	ml/mol	McGowan Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C13873524&Units=SI

Legend

ea: Electron affinity
ie: Ionization energy

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume