Phosphine, diethyl-

Other names:	Diethylphosphine
	(C2H5)2PH
Inchi:	InChI=1S/C4H11P/c1-3-5-4-2/h5H,3-4H2,1-2H3
InchiKey:	VZZJVOCVAZHETD-UHFFFAOYSA-N
Formula:	C4H11P
SMILES:	CCPCC
Mol. weight [g/mol]:	90.10
CAS:	627-49-6

Physical Properties

Property code	Value	Unit	Source
ie	8.69	eV	NIST Webbook
ie	8.50	eV	NIST Webbook
ie	8.50 ± 0.30	eV	NIST Webbook
log10ws	2.46		Crippen Method
logp	1.705		Crippen Method
mcvol	87.680	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=C627496&Units=SI

Legend

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