Phosphine, bis(1,1-dimethylethyl)-

Other names:	Phosphine, di-tert-butyl- Di-tert-butylphosphine (tert-C4H9)2PH
Inchi:	InChI=1S/C8H19P/c1-7(2,3)9-8(4,5)6/h9H,1-6H3
InchiKey:	CRHWEIDCXNDTMO-UHFFFAOYSA-N
Formula:	C8H19P
SMILES:	CC(C)(C)PC(C)(C)C
Mol. weight [g/mol]:	146.21
CAS:	819-19-2

Physical Properties

Property code	Value	Unit	Source
ie	7.90	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
log10ws	0.56		Crippen Method
logp	3.262		Crippen Method
mcvol	144.040	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=C819192&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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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https://www.chemeo.com/cid/20-784-9/Phosphine-bis-1-1-dimethylethyl.pdf

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