

Phosphine, (trifluoromethyl)-

Other names:	Trifluoromethylphosphine
Inchi:	InChI=1S/CH2F3P/c2-1(3,4)5/h5H2
InchiKey:	QQAHNMLPUNNNJ-UHFFFAOYSA-N
Formula:	CH2F3P
SMILES:	FC(F)(F)P
Mol. weight [g/mol]:	102.00
CAS:	420-52-0

Physical Properties

Property code	Value	Unit	Source
ie	11.15	eV	NIST Webbook
ie	11.15 ± 0.05	eV	NIST Webbook
ie	11.18	eV	NIST Webbook
log10ws	2.37		Crippen Method
logp	1.381		Crippen Method
mcvol	50.720	ml/mol	McGowan Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C420520&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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/18-987-7/Phosphine-trifluoromethyl.pdf>

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