Trimethylphosphine oxide

Other names:	(CH3)3PO
	Phosphine oxide, trimethyl-
Inchi:	InChI=1S/C3H9OP/c1-5(2,3)4/h1-3H3
InchiKey:	LRMLWYXJORUTBG-UHFFFAOYSA-N
Formula:	C3H9OP
SMILES:	CP(C)(C)=O
Mol. weight [g/mol]:	92.08
CAS:	676-96-0

Physical Properties

Property code	Value	Unit	Source
affp	909.70	kJ/mol	NIST Webbook
basg	880.00	kJ/mol	NIST Webbook
ie	9.90	eV	NIST Webbook
ie	9.88	eV	NIST Webbook
ie	9.89	eV	NIST Webbook
log10ws	-1.37		Crippen Method
logp	1.239		Crippen Method
mcvol	79.460	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C676960&Units=SI
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

Legend

affp:	Proton affinity
basg:	Gas basicity

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