Triethyl phosphite

Other names:	Phosphorous acid, triethyl ester
	Triethoxyphosphine
	(C2H5O)3P
	Ethyl phosphite, (EtO)3P
	UN 2323
	Phosphorus ether
Inchi:	InChI=1S/C6H15O3P/c1-4-7-10(8-5-2)9-6-3/h4-6H2,1-3H3
InchiKey:	BDZBKCUKTQZUTL-UHFFFAOYSA-N
Formula:	C6H15O3P
SMILES:	CCOP(OCC)OCC
Mol. weight [g/mol]:	166.16
CAS:	122-52-1

Physical Properties

Property code	Value	Unit	Source
hvap	53.00	kJ/mol	NIST Webbook
ie	8.99	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
ie	8.92	eV	NIST Webbook
ie	8.30	eV	NIST Webbook
ie	8.20	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
ie	9.15	eV	NIST Webbook
ie	8.99	eV	NIST Webbook
ie	8.90	eV	NIST Webbook
log10ws	1.58		Crippen Method
logp	2.323		Crippen Method
mcvol	133.470	ml/mol	McGowan Method
rinpol	922.00		NIST Webbook
rinpol	922.00		NIST Webbook
rinpol	922.00		NIST Webbook

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=C122521&Units=SI

Legend

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices

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