

Tetraethyl pyrophosphate

Other names:	TEPP Diphosphoric acid, tetraethyl ester Pyrophosphoric acid, tetraethyl ester Bis[O,O-diethylphosphoric anhydride] Bladan Ethyl pyrophosphate (Et4P2O7) Nifos Tetraethyl diphosphate Tetrastigmine Tetron Tetron-100 TEP Vapotone Ethyl pyrophosphate, tetra- ENT 18,771 Fosvex Grisol Hepthexamite Killax Kilmite 40 Lethalaire g-52 Lirohex Mortopal Nifost EA 1285 HEPT Hexamite Rcra waste number P111 Killex NSC 14707
Inchi:	InChI=1S/C8H20O7P2/c1-5-11-16(9,12-6-2)15-17(10,13-7-3)14-8-4/h5-8H2,1-4H3
InchiKey:	IDCBOTIENDVCBQ-UHFFFAOYSA-N
Formula:	C8H20O7P2
SMILES:	CCOP(=O)(OCC)OP(=O)(OCC)OCC
Mol. weight [g/mol]:	290.19
CAS:	107-49-3

Physical Properties

Property code	Value	Unit	Source
hvap	82.20	kJ/mol	NIST Webbook
log10ws	-5.14		Crippen Method
logp	3.365		Crippen Method
mcvol	205.590	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=C107493&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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