

O,O,O-Triethyl thiophosphate

Other names:	Triethylphosphorothioate (C ₂ H ₅ O) ₃ PS Phosphorothioic acid, O,O,O-triethyl ester Ethyl phosphorothioate ((EtO) ₃ PS) O,O,O-Triethyl phosphorothioate O,O,O-Triethylester kyseliny thiofosforecne O,O',O''-Triethyl phosphorothioate Phosphine sulfide, triethoxy- Thiophosphoric acid, tri-O-ethyl ester Triethyl phosphorothionate Triethyl thiophosphate Triethylthiofosfat O,O,O-Triethylthiofosfat Ethyl thiophosphate, (C ₂ H ₅ O) ₃ PS NSC 2650
Inchi:	InChI=1S/C6H15O3PS/c1-4-7-10(11,8-5-2)9-6-3/h4-6H2,1-3H3
InchiKey:	QTPJMTACJMLPLL-UHFFFAOYSA-N
Formula:	C ₆ H ₁₅ O ₃ PS
SMILES:	CCOP(=S)(OCC)OCC
Mol. weight [g/mol]:	198.22
CAS:	126-68-1

Physical Properties

Property code	Value	Unit	Source
ie	8.49 ± 0.02	eV	NIST Webbook
ie	8.96	eV	NIST Webbook
log10ws	2.15		Crippen Method
logp	2.320		Crippen Method
mcvol	149.820	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C126681&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hvapt:	Enthalpy of vaporization at a given temperature
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/116-156-0/O-O-O-Triethyl-thiophosphate.pdf>

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