

# O,O,O-Triethyl thiophosphate

<b>Other names:</b>	Triethylphosphorothioate (C <sub>2</sub> H <sub>5</sub> O) <sub>3</sub> PS Phosphorothioic acid, O,O,O-triethyl ester Ethyl phosphorothioate ((EtO) <sub>3</sub> 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 <sub>2</sub> H <sub>5</sub> O) <sub>3</sub> PS NSC 2650
<b>Inchi:</b>	InChI=1S/C6H15O3PS/c1-4-7-10(11,8-5-2)9-6-3/h4-6H2,1-3H3
<b>InchiKey:</b>	QTPJMTACJMLPLL-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>6</sub> H <sub>15</sub> O <sub>3</sub> PS
<b>SMILES:</b>	CCOP(=S)(OCC)OCC
<b>Mol. weight [g/mol]:</b>	198.22
<b>CAS:</b>	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

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C126681&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C126681&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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