

# Triethylphosphine oxide

<b>Other names:</b>	(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> P=O Phosphine oxide, triethyl- Triethylphosphorus oxide (C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> PO
<b>Inchi:</b>	InChI=1S/C <sub>6</sub> H <sub>15</sub> OP/c1-4-8(7,5-2)6-3/h4-6H2,1-3H3
<b>InchiKey:</b>	ZSSWXNPRLJLCDU-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>6</sub> H <sub>15</sub> OP
<b>SMILES:</b>	CCP(=O)(CC)CC
<b>Mol. weight [g/mol]:</b>	134.16
<b>CAS:</b>	597-50-2

## Physical Properties

Property code	Value	Unit	Source
affp	936.60	kJ/mol	NIST Webbook
basg	906.80	kJ/mol	NIST Webbook
log10ws	-2.63		Crippen Method
logp	2.409		Crippen Method
mvol	121.730	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C597502&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C597502&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<b>log10ws:</b>	Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

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