

# 1,2,3-Trimethyltetrahydro-1,3,2-diazaphosphole

## Other names 2-oxide

1,3,2-Diazaphospholidine, 1,2,3-trimethyl-, 2-oxide

c-P(O)CH<sub>3</sub>N(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>2</sub>N(CH<sub>3</sub>)

**Inchi:** InChI=1S/C5H13N2OP/c1-6-4-5-7(2)9(6,3)8/h4-5H2,1-3H3

**InchiKey:** QBMPOGBYHHUSIF-UHFFFAOYSA-N

**Formula:** C<sub>5</sub>H<sub>13</sub>N<sub>2</sub>OP

**SMILES:** CN1CCN(C)P1(C)=O

**Mol. weight [g/mol]:** 148.14

**CAS:** 16606-18-1

## Physical Properties

Property code	Value	Unit	Source
affp	947.50	kJ/mol	NIST Webbook
basg	915.00	kJ/mol	NIST Webbook
log10ws	-1.22		Crippen Method
logp	0.687		Crippen Method
mcvol	116.740	ml/mol	McGowan Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C16606181&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**affp:** Proton affinity

**basg:** Gas basicity

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

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