

# 2-(Dimethylamino)-1,3-dimethyltetrahydro-1,3,2-diazaphospholidin-2-oxide

Other names

1,3,2-Diazaphospholidin-2-amine, N,N,1,3-tetramethyl-2-oxide

c-OP(N(CH3)2)N(CH3)CH2CH2N(CH3)

c-OP{N(CH3)2}N(CH3)CH2CH2N(CH3)

**Inchi:** InChI=1S/C6H16N3OP/c1-7(2)11(10)8(3)5-6-9(11)4/h5-6H2,1-4H3

**InchiKey:** PTUNVBFYPJJYOY-UHFFFAOYSA-N

**Formula:** C6H16N3OP

**SMILES:** CN(C)P1(=O)N(C)CCN1C

**Mol. weight [g/mol]:** 177.18

**CAS:** 7778-06-5

## Physical Properties

Property code	Value	Unit	Source
affp	961.70	kJ/mol	NIST Webbook
basg	929.30	kJ/mol	NIST Webbook
log10ws	-1.20		Crippen Method
logp	0.533		Crippen Method
mcvol	140.810	ml/mol	McGowan Method

## Sources

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7778065&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)

## 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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