

# (Dimethylamino)phosphonic dichloride

<b>Other names:</b>	N,N-Dimethylphosphoramidodichloridate (CH <sub>3</sub> ) <sub>2</sub> NPOCl <sub>2</sub> N,N-Dimethylphosphoramidic dichloride Dimethylaminophosphoryl dichloride Phosphoramidic dichloride, dimethyl- (Dimethylamido)phosphoric dichloride Dichlorophosphoric dimethylamide Dimethylamidophosphoric acid dichloride Dimethylphosphoramidic dichloride
<b>Inchi:</b>	InChI=1S/C2H6Cl2NOP/c1-5(2)7(3,4)6/h1-2H3
<b>InchiKey:</b>	YNHXBEVSSILHPI-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>2</sub> H <sub>6</sub> Cl <sub>2</sub> NOP
<b>SMILES:</b>	CN(C)P(=O)(Cl)Cl
<b>Mol. weight [g/mol]:</b>	161.96
<b>CAS:</b>	677-43-0

## Physical Properties

Property code	Value	Unit	Source
log10ws	-2.80		Crippen Method
logp	2.134		Crippen Method
mcvol	99.830	ml/mol	McGowan Method

## Sources

<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>
<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=C677430&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C677430&amp;Units=SI</a>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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