

# Azinphos methyl oxon

<b>Other names:</b>	Azinphosmethyl oxygen analog Phosphorothioic acid, O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] ester Phosphorothioic acid, O,O-dimethyl ester, S-ester with 3-(mercaptomethyl)-1,2,3-benzotriazin-4(3H)-one Guthion oxon Guthion oxygen analog Guthoxon Gutoxon Oxoazinphos methyl
<b>Inchi:</b>	InChI=1S/C10H12N3O4PS/c1-16-18(15,17-2)19-7-13-10(14)8-5-3-4-6-9(8)11-12-13/h3-6
<b>InchiKey:</b>	NYHRHBKYEVSBJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H12N3O4PS
<b>SMILES:</b>	<chem>COP(=O)(OC)SCn1nnc2ccccc2c1=O</chem>
<b>Mol. weight [g/mol]:</b>	301.26
<b>CAS:</b>	961-22-8

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.73		Crippen Method
logp	1.883		Crippen Method
mvol	198.770	ml/mol	McGowan Method

## 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=C961228&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C961228&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

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

**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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