Azinphos methyl oxon

Other names:	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
Inchi:	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
InchiKey:	NYHRHBKYEVSBHJ-UHFFFAOYSA-N
Formula:	C10H12N3O4PS
SMILES:	COP(=O)(OC)SCn1nnc2ccccc2c1=O
Mol. weight [g/mol]:	301.26
CAS:	961-22-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.73		Crippen Method
logp	1.883		Crippen Method
mcvol	198.770	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=C961228&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

log10ws:	Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume