

# Formothion

<b>Other names:</b>	Acetamide, N-formyl-2-mercapto-N-methyl-, S-ester with O,O-dimethyl phosphorodithioate Anix Anthio Anthio 25 Antio CP 53926 ENT 27,257 J-38 N-Formyl-N-methylcarbamoylmethyl O,O-dimethyl phosphorodithioate O,O-Dimethyl Dithiophosphorylacetic acid N-methyl-N-formylamide O,O-Dimethyl S-(N-formyl-N-methylcarbamoylmethyl) phosphorodithioate O,O-Dimethyl S-(N-methyl-N-formylcarbamoylmethyl)phosphorodithioate O,O-Dimethyl phosphorodithioate N-formyl-2-mercapto-N-methylacetamide S-ester O,O-Dimethyl-S-(3-methyl-2,4-dioxo-3-azabutyl)dithiofosfaat O,O-Dimethyl-S-(3-methyl-2,4-dioxo-3-azabutyl)dithiophosphat O,O-Dimethyl-S-(N-methyl-N-formylcarbamoylmethyl)dithiophosphat O,O-Dimetil-S-(N-formil-N-metilcarbamoilmetil)ditiofosfato OMS-968 Phosphorodithioic acid, O,O-dimethyl ester, N-formyl-2-mercapto-N-methylacetamide S-ester Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-formyl-2-mercapto-N-methylacetamide Phosphorodithioic acid, S-[2-(formylmethylamino)-2-oxoethyl] O,O-dimethyl ester Phosphorodithioic acid, o,o-dimethyl ester, s-ester with n-formyl-n-methylglycolamide S 6900 S-(2-(Formylmethylamino)-2-oxoethyl) O,O-dimethylphosphorodithioate S-(N-Formyl-N-methylcarbamoylmethyl) O,O-dimethyl phosphorodithioate S-(N-Formyl-N-methylcarbamoylmethyl) dimethyl phosphorothiolothionate SAN 244 I SAN 6913 I SAN 7107 I Sandoz S-6900 Spencer S-6900 Toprose VEL 4284
<b>Inchi:</b>	InChI=1S/C6H12NO4PS2/c1-7(5-8)6(9)4-14-12(13,10-2)11-3/h5H,4H2,1-3H3
<b>InchiKey:</b>	AIKKULXCBHRFOS-UHFFFAOYSA-N
<b>Formula:</b>	C6H12NO4PS2
<b>SMILES:</b>	COP(=S)(OC)SCC(=O)N(C)C=O
<b>Mol. weight [g/mol]:</b>	257.27
<b>CAS:</b>	2540-82-1

# Physical Properties

Property code	Value	Unit	Source
log10ws	-2.00		Aqueous Solubility Prediction Method
log10ws	-2.00		Estimated Solubility Method
logp	0.852		Crippen Method
mcvol	173.420	ml/mol	McGowan Method
rinpol	1795.00		NIST Webbook
rinpol	1805.00		NIST Webbook
rinpol	1762.00		NIST Webbook
rinpol	1805.00		NIST Webbook
rinpol	1762.00		NIST Webbook
rinpol	1795.00		NIST Webbook
tf	298.65	K	Aqueous Solubility Prediction Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2540821&Units=SI>

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

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**Estimated Solubility Method:** [http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl\\_file/ci034243xsi20040112\\_053635.txt](http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt)

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

## Legend

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinpol:</b>	Non-polar retention indices
<b>tf:</b>	Normal melting (fusion) point

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