

# Amidithion

<b>Other names:</b>	Phosphorodithioic acid, S-[2-[(2-methoxyethyl)amino]-2-oxoethyl] O,O-dimethyl ester Phosphorodithioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-(2-methoxyethyl)acetamide CIBA Thiocron ENT 27,160 Thiocron Thiocron 30 Thiocron 30 Ciba Amidithione Acetamide, 2-mercapto-N-(2-methoxyethyl)-, S-ester with O,O-dimethyl phosphorodithioate Amidiphos C 2446 CIBA 2446 O,O-Dimethyl-S-(2-methoxyethylcarbamoylmethyl)dithiophosphate O,O-Dimethyl S-(2-methoxyethylcarbamoyl methyl) phosphorodithioate Medithionat S-(2-((2-Methoxyethyl)amino-2-oxoethyl) O,O-dimethyl) phosphorodithioate S-(N-2-Methoxyethylcarbamoylmethyl)dimethyl phosphorothiolothionate
<b>Inchi:</b>	InChI=1S/C7H16NO4PS2/c1-10-5-4-8-7(9)6-15-13(14,11-2)12-3/h4-6H2,1-3H3,(H,8,9)
<b>InchiKey:</b>	GDTZUQIYUMGJRT-UHFFFAOYSA-N
<b>Formula:</b>	C7H16NO4PS2
<b>SMILES:</b>	COCCNC(=O)CSP(=S)(OC)OC
<b>Mol. weight [g/mol]:</b>	273.31
<b>CAS:</b>	919-76-6

## Physical Properties

Property code	Value	Unit	Source
log10ws	2.88		Crippen Method
logp	1.000		Crippen Method
mccvol	191.810	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C919766&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C919766&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**McGowan Method:**

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

## Legend

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

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