

# Thionazin

<b>Other names:</b>	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester American cyanamid 18133 AC 18133 ACC 18133 Cynem Cynophos CL 18133 Ethyl pyrazinyl phosphorothioate Experimental nematocide 18,133 EN 18133 Ent 25,580 Nemafos Nemafos 10 G Nemaphos Nematocide GR O,O-Diethyl O-2-pyrazinyl phosphorothioate Thionazine Zinophos Zynophos O,O-Diaethyl-O-(pyrazin-2yl)-monothiophosphat O,O-Diaethyl-O-(2-pyrazinyl)-thionophosphat Diethyl O-2-pyrazinyl phosphorothionate O,O-Diethyl O-2-pyrazinyl phosphothionate O,O-Diethyl O-pyrazinyl thiophosphate Phosphorothioic acid, O,O-diethyl O-2-pyrazinyl ester Pyrazinol, O-ester with O,O-diethyl phosphorothioate Rcra waste number P040 O,O-diethyl O-pyrazin-2-yl phosphorothioate
<b>Inchi:</b>	InChI=1S/C8H13N2O3PS/c1-3-11-14(15,12-4-2)13-8-7-9-5-6-10-8/h5-7H,3-4H2,1-2H3
<b>InchiKey:</b>	IRVDMKJLOCGUBJ-UHFFFAOYSA-N
<b>Formula:</b>	C8H13N2O3PS
<b>SMILES:</b>	CCOP(=S)(OCC)Oc1cnccn1
<b>Mol. weight [g/mol]:</b>	248.24
<b>CAS:</b>	297-97-2

## Physical Properties

Property code	Value	Unit	Source
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log10ws	1.19		Crippen Method
logp	2.153		Crippen Method
mcvol	174.200	ml/mol	McGowan Method
rinpol	1575.00		NIST Webbook
rinpol	1565.00		NIST Webbook
rinpol	1575.00		NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C297972&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C297972&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>
<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>

## 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

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