

# Carbophenoxon

**Other names:**

Phosphorothioic acid, S-[[[4-chlorophenyl]thio]methyl] O,O-diethyl ester  
Phosphorothioic acid, S-[[[p-chlorophenyl]thio]methyl] O,O-diethyl ester  
O,O-Diethyl S-(4-chlorophenylthiomethyl) thiophosphate  
PTMP  
R 1472  
R 1472 (Pesticide)  
S-(p-Chlorophenylthio)methyl O,O-diethyl phosphorothioate  
S-p-Chlorofenylthiomethyl-O,O-diethylester kyseliny thiofosforecne  
Danifos  
O,O-Diethyl-S-p-chlorophenyl thiomethylphosphorothioate  
PTMD  
S-[[[4-Chlorophenyl]sulfanyl]methyl] O,O-diethyl thiophosphate  
Carbophenothion O-analog  
Carbophenothion oxygen analog

**Inchi:**

InChI=1S/C11H16ClO3PS2/c1-3-14-16(13,15-4-2)18-9-17-11-7-5-10(12)6-8-11/h5-8H,3-

**InchiKey:**

ZSAZGCBSZUURAX-UHFFFAOYSA-N

**Formula:**

C11H16ClO3PS2

**SMILES:**

CCOP(=O)(OCC)SCSc1ccc(Cl)cc1

**Mol. weight [g/mol]:**

326.80

**CAS:**

7173-84-4

## Physical Properties

Property code	Value	Unit	Source
log10ws	-6.39		Crippen Method
logp	5.304		Crippen Method
mcvol	225.100	ml/mol	McGowan Method

## Sources

**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>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7173844&Units=SI>

**Crippen Method:**

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

# 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

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