

Carbofenothion sulfoxide

Other names:	Phosphorodithioic acid, S-[[[(4-chlorophenyl)sulfinyl]methyl] O,O-diethyl ester Phosphorodithioic acid, S-[[[(p-chlorophenyl)sulfinyl]methyl] O,O-diethyl ester R 1988 S-(p-Chlorophenylsulfinylmethyl) O,O-diethyl phosphorodithioate Trithion sulfoxide Carbophenothion sulfoxide
Inchi:	InChI=1S/C11H16ClO3PS3/c1-3-14-16(17,15-4-2)18-9-19(13)11-7-5-10(12)6-8-11/h5-8H
InchiKey:	LAHNDTNSNGVHPJ-UHFFFAOYSA-N
Formula:	C11H16ClO3PS3
SMILES:	CCOP(=S)(OCC)SCS(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]:	358.87
CAS:	17297-40-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.13		Crippen Method
logp	4.436		Crippen Method
mcvol	241.450	ml/mol	McGowan Method

Sources

Crippen Method:	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=C17297404&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

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

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