Chlormephos

Other names:	Phosphorodithioic acid, S-(chloromethyl) O,O-diethyl ester
	Chlormethylfos
	Dotan
	Methanethiol, chloro-, S-ester with O,O-diethyl phosphorodithioate
	MC 2188
	O,O-Diethyl S-(Chloromethyl)dithiophosphate
	P 2188
	S-(Chloromethyl) O,O-diethyl phosphorothiolothionate
	Chlormefos
	S-(Chloromethyl) O,O-diethylphosphorodithioate
Inchi:	InChI=1S/C5H12ClO2PS2/c1-3-7-9(10,8-4-2)11-5-6/h3-5H2,1-2H3
InchiKey:	QGTYWWGEWOBMAK-UHFFFAOYSA-N
Formula:	C5H12ClO2PS2
SMILES:	CCOP(=S)(OCC)SCCl
Mol. weight [g/mol]:	234.70
CAS:	24934-91-6

Physical Properties

Property code	Value	Unit	Source
log10ws	1.12		Crippen Method
logp	3.213		Crippen Method
mcvol	158.450	ml/mol	McGowan Method
rinpol	1399.00		NIST Webbook
rinpol	1433.00		NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C24934916&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices