Prothiofos

Other names:	Tokuthion
	Prothiofos
	Bay NTN 8629
	Bideron
	o-(2,4-Dichlorophenyl) o-ethyl S-propyl phosphorodithioate
	Prothiophos
	O-(2,4-dichlorophenyl) O-ethyl S-propyl dithiophosphate
Inchi:	InChI=1S/C11H15Cl2O2PS2/c1-3-7-18-16(17,14-4-2)15-11-6-5-9(12)8-10(11)13/h5-6,8H
InchiKey:	FITIWKDOCAUBQD-UHFFFAOYSA-N
Formula:	C11H15Cl2O2PS2
SMILES:	CCCSP(=S)(OCC)Oc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	345.25

Physical Properties

Property code	Value	Unit	Source
log10ws	-6.27		Cheméo Relay (1.0)
logp	5.776		Crippen Method
mcvol	231.470	ml/mol	McGowan Method
tf	276.90	K	Cheméo Relay (1.0)

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C34643464&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point