

Edifenphos

Other names:

Phosphorodithioic acid, O-ethyl S,S-diphenyl ester
O-Aethyl-S,S-diphenyl-dithiophosphat
BAY 78418
Bayer 78418
Dithiophosphorsaeure-O-aethyl-S,S-diphenylester
EDDP
Ediphenphos
O-Ethyl S,S-diphenyl dithiophosphate
O-Ethyl-S,S-diphenyl phosphorodithioate
Hinosan
SRA 7847
Edifenfos
Blastoff
Ediphenophos
EDDP (pesticide)

Inchi:

InChI=1S/C14H15O2PS2/c1-2-16-17(15,18-13-9-5-3-6-10-13)19-14-11-7-4-8-12-14/h3-1

InchiKey:

AWZOLILCOUMRDG-UHFFFAOYSA-N

Formula:

C14H15O2PS2

SMILES:

CCOP(=O)(Sc1ccccc1)Sc1ccccc1

Mol. weight [g/mol]:

310.37

CAS:

17109-49-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-6.96		Crippen Method
logp	5.716		Crippen Method
mcvol	225.500	ml/mol	McGowan Method
rinpol	2330.00		NIST Webbook
rinpol	2359.00		NIST Webbook
rinpol	2356.00		NIST Webbook
rinpol	2330.00		NIST Webbook

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C17109498&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.cheméo.com/doc/models/crippen_log10ws

Legend

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

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