

Ditalimfos

Other names:	Diethyl phthalimidophosphonothioate Ditalimfos Dowco 199 Laptran M 2452 Millie O 199 O,O-Diaethyl-N-phthalimido-thiophosphat O,O-Diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate O,O-Diethyl phthalimidophosphonothioate O,O-Diethyl phthalimidophosphonothionate O,O-Diethyl phthalimidothiophosphate Ortho 199 Phosphonothioic acid, (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-, O,O-diethyl ester Phosphonothioic acid, phthalimido-, O,O-diethyl ester Phthalimide, N-(diethoxyphosphinothioyl)- Plondrel RE 199 SF 101
Inchi:	InChI=1S/C12H14NO4PS/c1-3-16-18(19,17-4-2)13-11(14)9-7-5-6-8-10(9)12(13)15/h5-8H
InchiKey:	MTBZIGHNGSTDJV-UHFFFAOYSA-N
Formula:	C12H14NO4PS
SMILES:	CCOP(=S)(OCC)N1C(=O)c2ccccc2C1=O
Mol. weight [g/mol]:	299.28
CAS:	5131-24-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.35		Aqueous Solubility Prediction Method
log10ws	-3.35		Estimated Solubility Method
logp	2.580		Crippen Method
mcvol	206.990	ml/mol	McGowan Method
rinpol	2137.00		NIST Webbook
rinpol	2128.00		NIST Webbook
rinpol	2128.00		NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5131248&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Legend

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

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