

Dichlofenthion

Other names:

Phosphorothioic acid, O-(2,4-dichlorophenyl) O,O-diethyl ester
ECP
ENT 17,470
Hexanema
Nemacide
O-(2,4-Dichlorophenyl) O,O-Diethyl phosphorothioate
O,O-Diethyl O-(2,4-dichlorophenyl) phosphorothioate
V-CI 13
VC 13
VC-13 Nemacide
O-(2,4-Dichlorophenyl)O,O-diethylphosphorothionate
V-C 1-13
Dichlofention
Dichlorofenthion
Diethyl 2,4-dichlorophenyl phosphorothionate
Mobilawn
O,O-Diethyl O-(2,4-dichlorophenyl) thiophosphate
O,O-Diethyl-O-(2,4-dichloor-fenyl)-monothiofosfaat
O,O-Dietil-O-(2,4-diclro-fenil)-monotiofosfato
Phenol, 2,4-dichloro-, O-ester with O,O-diethyl phosphorothioate
Thiophosphate de o-2,4-dichlorophenyle et de O,O-diethyle
Tri-VC 13
2,4-Dichlorophenyl diethyl phosphorothionate
O,O-Diaethyl-O-2,4-dichlorophenyl-thionophosphat
Dichlorfenthion
ENT 17470
Nemacide VC-13
Diclofenthion
ECP (pesticide)
NSC 52964
O-(2,4-dichlorophenyl) o,o-diethyl thiophosphate

Inchi: InChI=1S/C10H13Cl2O3PS/c1-3-13-16(17,14-4-2)15-10-6-5-8(11)7-9(10)12/h5-7H,3-4H
InchiKey: WGOWCPGHOCIBW-UHFFFAOYSA-N
Formula: C10H13Cl2O3PS
SMILES: CCOP(=S)(OCC)Oc1ccc(Cl)cc1Cl
Mol. weight [g/mol]: 315.15
CAS: 97-17-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.65		Crippen Method
logp	4.670		Crippen Method
mcvol	206.900	ml/mol	McGowan Method
rinpol	1835.00		NIST Webbook
rinpol	1869.00		NIST Webbook
rinpol	1822.00		NIST Webbook
rinpol	1820.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1852.00		NIST Webbook
rinpol	1873.00		NIST Webbook
rinpol	1869.00		NIST Webbook
rinpol	1821.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1869.00		NIST Webbook
ripol	2576.00		NIST Webbook
ripol	2576.00		NIST Webbook

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=C97176&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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices

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