

Methidathion

Other names:

Phosphorodithioic acid, S-[(5-methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl)methyl]

O,O-dimethyl ester

Phosphorodithioic acid, O,O-dimethyl ester, S-ester with
4-(mercaptomethyl)-2-methoxy-«DELTA»2-1,3,4-thiadiazolin-5-one
DMTP

Geigy GS 13005

Geigy 13005

GS 13005

Medathion

Supracid

Supracide

Ultracid

Ultracid 40

S-(2,3-Dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-ylmethyl) O,O-dimethyl

phosphorodithioate
Ciba-geigy gs 13005

(O,O-Dimethyl)-S-(-2-methoxy-«DELTA»2-1,3,4-thiadiazolin-5-on-4-ylmethyl)dithiophosp

S-(2,3-Dihydro-5-methoxy-2-oxo-1,3,4-thiadiazol-3-methyl) dimethyl

phosphorothiothionate

O,O-Dimethyl S-(5-methoxy-1,3,4-thiadiazolinyl-3-methyl) dithiophosphate

O,O-Dimethyl-S-(2-methoxy-1,3,4-thiadiazol-5(4H)-onyl-(4)-methyl)

phosphorodithioate

O,O-Dimethyl-S-(2-methoxy-1,3,4-thiadiazol-5-on-4-yl)-methyl-dithiophosphate

O,O-Dimethyl-S-(2-methoxy-1,3,4-thiadiazol-5-(4H)-onyl-(4)-methyl)-dithiophosphate

O,O-Dimethyl-S-((2-methoxy-1,3,4 (4H)-thiodiazol-5-on-4-yl)-methyl)-dithiofosfaat

O,O-Dimetil-S-((2-metossi-1,3,4-(4H)-tiadiazol-5-on-4-il)-metil)-ditiiofosfato

ENT 27193

Fisons NC 2964

Methidathion 50S

S-2-Metoksy-1,3,4-tiadiazolo-5-on-N-metylo-O,O-dwumetylowy

S-((5-Methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl)methyl) O,O-dimethyl

phosphorodithioate
OMS 844

Somonil

Ultracide

Suprathion

DMTP (insecticide)

Ultracid EC 40

Dithiophosphoric acid

O,O'-dimethyl-S-((2-methoxy-1,3,4-thiadiazol-5(4H)-on-4-yl)methyl) ester

Dithiophosphoric acid

O,O'-dimethyl-S-((5-methoxy-1,3,4-thiadiazol-2(3H)-on-3-yl)methyl) ester

InChI=1S/C6H11N2O4P3S3/c1-10-5-7-8(6(9)16-5)4-15-13(14,11-2)12-3/h4H2,1-3H3

Inchi:**InchiKey:**

MEBQXILRKZHVXCX-UHFFFAOYSA-N

Formula:

C6H11N2O3PS2

SMILES:

COc1nn(CSP(=S)(OC)OC)c(=O)s1

Mol. weight [g/mol]:

254.27

CAS:

950-37-8

Physical Properties

Property code	Value	Unit	Source
log10ws	1.98		Crippen Method
logp	1.521		Crippen Method
mcvol	188.890	ml/mol	McGowan Method
rinpol	2045.00		NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C950378&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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