

Dicrotophos

Other names:	Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- trans-Bidrin Bidrin C 709 Carbicron Carbomicron Dimethyl 2-Dimethylcarbamoyl-1-methylvinyl phosphate Ektafos ENT 24,482 Karbicron Oleobidrin SD 3562 Phosphoric acid, dimethyl ester, ester with (E)-3-hydroxy-N,N-dimethylcrotonamide Bidirl Ciba 709 Crotonamide, 3-hydroxy-N,N-dimethyl-, cis-, dimethyl phosphate Crotonamide, 3-hydroxy-N,N-dimethyl-, dimethyl phosphate, cis- Diapadrin Dicrotofos 3-(Dimethoxyphosphinyloxy)-N,N-dimethyl-cis-crotonamide 3-(Dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl phosphate, (E)- cis-2-Dimethylcarbamoyl-1-methylvinyl dimethylphosphate O,O-Dimethyl-O-(2-dimethyl-carbamoyl-1-methyl-vinyl)phosphate 2-Dimethyl cis-2-dimethyl-carbamoyl-1-methylvinyl phosphate O,O-Dimethyl O-(N,N-dimethylcarbamoyl-1-methylvinyl) phosphate O,O-Dimethyl-O-(1,4-dimethyl-3-oxo-4-aza-pent-1-enyl)fosfaat O,O-Dimethyl-O-(1,4-dimethyl-3-oxo-4-aza-pent-1-enyl)phosphate O,O-Dimethyl-O-(1-methyl-2-N,N-dimethyl-carbamoyl)-vinyl-phosphat Dimethyl phosphate of 3-hydroxy-N,N-dimethyl-cis-crotonamide Dimethyl phosphate ester with 3-hydroxy-N,N-dimethyl-cis-crotonamide O,O-Dimetil-O-(1,4-dimetil-3-oxo-4-aza-pent-1-enil)-fosfato 3-Hydroxydimethyl crotonamide dimethyl phosphate 3-Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate OMS 253 Phosphate de dimethyle et de 2-dimethylcarbamoyl 1-methyl vinyle Phosphoric acid, dimethyl 1-methyl-N,N-(dimethylamino)-3-oxo-1-propenyl ester, (E)- Shell SD-3562 Phosphoric acid, (1E)-3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester Dimethyl 1-dimethylcarbamoyl-1-propen-2-yl phosphate
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(E)-3-(dimethylamino)-1-methyl-3-oxoprop-1-enyl dimethyl phosphate

Inchi: InChI=1S/C8H16NO5P/c1-7(6-8(10)9(2)3)14-15(11,12-4)13-5/h6H,1-5H3/b7-6+

InchiKey: VEENJGZXVHKXNB-VOTSOKGWSA-N

Formula: C8H16NO5P

SMILES: COP(=O)(OC)OC(C)=CC(=O)N(C)C

Mol. weight [g/mol]: 237.19

CAS: 141-66-2

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.39		Crippen Method
logp	1.396		Crippen Method
mcvol	174.770	ml/mol	McGowan Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

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=C141662&Units=SI>

Legend

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

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