

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-Dimethyl-O-(1,4-dimethyl-3-oxo-4-aza-pent-1-enyl)-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

Inchi: (E)-3-(dimethylamino)-1-methyl-3-oxoprop-1-enyl dimethyl phosphate
InchiKey: InChI=1S/C8H16NO5P/c1-7(6-8(10)9(2)3)14-15(11,12-4)13-5/h6H,1-5H3/b7-6+
Formula: VEENJGZXVHKXNB-VOTSOKGWSA-N
SMILES: 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

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C141662&Units=SI>
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>

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume

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