

Monocrotophos

Other names: (E)-Dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate
3-(Dimethoxyphosphinyloxy)N-methyl-cis-crotonamide
3-Hydroxy-N-methyl-cis-crotonamide dimethyl phosphate
Apadrin
Azodrin
Azodrin 202R
Azodrin insecticide
Azodrin-71
Biloborn
Bilobran
C 1414
CIBA 1414
Corophos
Crisodin
Crisodrin
Croton 36
Crotonamide, 3-hydroxy-N-methyl-, dimethylphosphate, cis-
Des-N-Methyl dicrotophos
Dimethyl (E)-1-methyl-2-methylcarbamoylvinyl phosphate
Dimethyl 1-methyl-2-(methylcarbamoyl)vinyl phosphate, cis
Dimethyl phosphate ester of 3-hydroxy-N-methyl-cis-crotonamide
Dimethyl phosphate ester with (E)-3-hydroxy-N-methylcrotonamide
Dimethyl phosphate of 3-hydroxy-N-methyl-cis-crotonamide
E-Monocrotophos
ENT 27,129
Glore phos 36
Hazodrin
Monocil
Monocil 40
Monocron
Monodrin
Monokrotofosz
Monostar
Nuvacron
Nuvacron-20
O,O-Dimethyl-O-(1-methyl-2-N-methyl-carbamoyl)-vinyl-phosphat
O,O-Dimethyl-O-(2-N-methylcarbamoyl-1-methyl)-vinyl-phosphat
O,O-Dimethyl-O-(2-N-methylcarbamoyl-1-methyl-vinyl) phosphate
O,O-Dimethyl-O-(2-N-methylcarbamoyl-1-methyl-vinyl)-fosfaat
O,O-Dimetil-O-(2-N-metilcarbamoil-1-metil-vinil)-fosfato

OMS 834

Parryfos

Phosphate de dimethyle et de 2-methylcarbamoyle 1-methyl vinyle

Phosphoric acid, dimethyl (1E)-1-methyl-3-(methylamino)-3-oxo-1-propenyl ester

Phosphoric acid, dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl ester, (E)-

Phosphoric acid, dimethyl ester, ester with (E)-3-hydroxy-N-methylcrotonamide

Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N-methylcrotonamide, (E)-

Phosphoric acid, dimethyl ester, ester with cis-3-hydroxy-N-methylcrotonamide

Pillardrin

Plantdrin

SD 9129

Shell sd 9129

Susvin

Ulvair

Inchi: InChI=1S/C7H14NO5P/c1-6(5-7(9)8-2)13-14(10,11-3)12-4/h5H,1-4H3,(H,8,9)/b6-5+

InchiKey: KRTSDMXIXPKRQR-AATRIKPKSA-N

Formula: C7H14NO5P

SMILES: CNC(=O)C=C(C)OP(=O)(OC)OC

Mol. weight [g/mol]: 223.16

CAS: 6923-22-4

Physical Properties

Property code	Value	Unit	Source
log10ws	0.65		Aqueous Solubility Prediction Method
log10ws	0.65		Estimated Solubility Method
logp	1.054		Crippen Method
mcvol	160.680	ml/mol	McGowan Method
tf	328.12 ± 0.20	K	NIST Webbook
tf	328.50 ± 0.10	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	22.36	kJ/mol	326.90	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6923224&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/27-897-7/Monocrotophos.pdf>

Generated by Cheméo on 2024-05-03 02:48:20.787302237 +0000 UTC m=+16993749.707879552.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.