Mevinphos

Other names:

2-Butenoic acid, 3-[(dimethoxyphosphinyl)oxy]-, methyl ester
Crotonic acid, 3-hydroxy-, methyl ester, dimethyl phosphate
CMDP
Fosdrin
Gesfid
Meniphos
Phosdrin
Phosphoric Acid, dimethyl ester, ester with methyl 3-hydroxycrotonate
PD 5
2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate
(2-Methoxycarbonyl-1-methyl-vinyl)-dimethyl-fosfaat
(2-Methoxycarbonyl-1-methyl-vinyl)-dimethyl-phosphat
(2-Metossicarbonil-1-metil-vinil)-dimetil-fosfato
Compound 2046
Dimethyl (1-methoxycarboxypropen-2-yl)phosphate
Dimethyl (2-methoxycarbonyl-1-methylvinyl) phosphate
Dimethyl methoxycarbonylpropenyl phosphate
Dimethyl-1-carbomethoxy-1-propen-2-yl phosphate
ENT 22,374
Gestid
Menite
Methyl 3-(dimethoxyphosphinyloxy)crotonate
Mevinfos
O,O-Dimethyl O-(1-methyl-2-carboxyvinyl) phosphate
O,O-Dimethyl-O-(2-carbomethoxy-1-methylvinyl) phosphate
OS 2046
Phosfene
Phosphate de dimethyle et de 2-methoxycarbonyl-1 methylvinyle
Phosphoric acid, (1-methoxycarboxypropen-2-yl) dimethyl ester
2-Carbomethoxy-1-methylvinyl dimethyl phosphate
2-Carbomethoxy-1-propen-2-yl dimethyl phosphate
3-Hydroxycrotonic acid methyl ester dimethyl phosphate
Apavinphos
3-((Dimethoxyphosphinyl)oxy)-2-butenoic acid methyl ester
O,O-Dimethyl-O-2-methoxycarbonyl-1-methyl-vinyl-phosphat
Duraphos
1-Methoxycarbonyl-1-propen-2-yl dimethyl phosphate
Mevinox
Mevinphos mixture
NA 2783

	Mevinphos («alpha»+«beta»)
	Methyl 3-[(dimethoxyphosphoryl)oxy]-2-butenoate
	PD 5 (pesticide)
	O,O-Dimethyl O-(1-carbomethoxy-1-propen-2-yl) phosphate
Inchi:	InChI=1S/C7H13O6P/c1-6(5-7(8)10-2)13-14(9,11-3)12-4/h5H,1-4H3/b6-5+
InchiKey:	GEPDYQSQVLXLEU-AATRIKPKSA-N
Formula:	C7H13O6P
SMILES:	COC(=O)C=C(C)OP(=O)(OC)OC
Mol. weight [g/mol]:	224.15
CAS:	7786-34-7

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.49		Crippen Method
logp	1.481		Crippen Method
mcvol	156.570	ml/mol	McGowan Method
rinpol	1450.00		NIST Webbook
rinpol	1391.00		NIST Webbook
rinpol	1391.00		NIST Webbook
ripol	2230.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	68.10	kJ/mol	338.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7786347&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hvapt:	Enthalpy of vaporization at a given temperature
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