MEVINPHOS

Other names:

(2-Methoxycarbonyl-1-methyl-vinyl)-dimethyl-fosfaat
(2-Methoxycarbonyl-1-methyl-vinyl)-dimethyl-phosphat
(2-Metossicarbonil-1-metil-vinil)-dimetil-fosfato
1-Methoxycarbonyl-1-propen-2-yl dimethyl phosphate
2-Butenoic acid, 3-[(dimethoxyphosphinyl)oxy]-, methyl ester
2-Carbomethoxy-1-methylvinyl dimethyl phosphate
2-Carbomethoxy-1-propen-2-yl dimethyl phosphate
2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate
3-((Dimethoxyphosphinyl)oxy)-2-butenoic acid methyl ester
3-Hydroxycrotonic acid methyl ester dimethyl phosphate
Apavinphos
CMDP
Compound 2046
Crotonic acid, 3-hydroxy-, methyl ester, dimethyl phosphate
Dimethyl (1-methoxycarboxypropen-2-yl)phosphate
Dimethyl (2-methoxycarbonyl-1-methylvinyl) phosphate
Dimethyl methoxycarbonylpropenyl phosphate
Dimethyl-1-carbomethoxy-1-propen-2-yl phosphate
Duraphos
ENT 22,374
Fosdrin
Gesfid
Gestid
Meniphos
Menite
Methyl 3-(dimethoxyphosphinyloxy)crotonate
Methyl 3-[(dimethoxyphosphoryl)oxy]-2-butenoate
Mevinfos
Mevinox
Mevinphos («alpha»+«beta»)
Mevinphos mixture
NA 2783
O,O-Dimethyl O-(1-carbomethoxy-1-propen-2-yl) phosphate
O,O-Dimethyl O-(1-methyl-2-carboxyvinyl) phosphate
O,O-Dimethyl-O-(2-carbomethoxy-1-methylvinyl) phosphate
O,O-Dimethyl-O-2-methoxycarbonyl-1-methyl-vinyl-phosphat
OS 2046
PD 5
PD 5 (pesticide)
Phosdrin

	Phosfene
	Phosphate de dimethyle et de 2-methoxycarbonyl-1 methylvinyle
	Phosphoric Acid, dimethyl ester, ester with methyl 3-hydroxycrotonate
	Phosphoric acid, (1-methoxycarboxypropen-2-yl) dimethyl ester
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

Physical Properties

Property code	Value	Unit	Source
hvap	70.89	kJ/mol	Cheméo Relay (1.0)
log10ws	-0.23		Cheméo Relay (1.0)
logp	1.481		Crippen Method
mcvol	156.570	ml/mol	McGowan Method
tb	537.23	K	Cheméo Relay (1.0)
tf	274.55	K	Cheméo Relay (1.0)

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C298011&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

tb: Normal Boiling Point Temperature

tf: Normal melting (fusion) point