

2-Butenoic acid, 3-[(dimethoxyphosphinyl)oxy]-, methyl ester, (E)-

Other names:	Crotonic acid, 3-hydroxy-, methyl ester, dimethyl phosphate, (E)- cis-Phosdrin OS 2046 2-Methoxycarbonyl-1-methylvinyl dimethyl phosphate Apavinphos (E)-Mevinphos trans-Mevinphos Methyl (2E)-3-[(dimethoxyphosphoryl)oxy]-2-butenolate 2-Butenoic acid, 3-[(dimethoxyphosphinyl)oxy]-, methyl ester, (2E)- cis-Mevinphos «alpha»-Mevinphos Mevinphos methyl 3-[(dimethoxyphosphinyl)oxy]crotonate
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:	<chem>COC(=O)C=C(C)OP(=O)(OC)OC</chem>
Mol. weight [g/mol]:	224.15
CAS:	298-01-1

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	1390.00		NIST Webbook
rinpol	1396.00		NIST Webbook
rinpol	1424.00		NIST Webbook
rinpol	1450.00		NIST Webbook
rinpol	1424.00		NIST Webbook
rinpol	1406.00		NIST Webbook
rinpol	1394.00		NIST Webbook
rinpol	1450.00		NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C298011&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i
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
rinpol:	Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/69-814-2/2-Butenoic-acid-3-dimethoxyphosphinyl-oxy-methyl-ester-E.pdf>

Generated by Cheméo on 2024-04-28 15:18:38.867626829 +0000 UTC m=+16606767.788204149.

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