

Diethyl vinylphosphonate

Other names:	Phosphonic acid, ethenyl-, diethyl ester
	Phosphonic acid, vinyl-, diethyl ester
	Diethoxyphosphinylethene
	Diethyl vinylphosphate
	Vinylphosphonic acid diethyl ester
	Ethenephosphonic acid, diethyl ester
Inchi:	InChI=1S/C6H13O3P/c1-4-8-10(7,6-3)9-5-2/h6H,3-5H2,1-2H3
InchiKey:	DREPONDJUKIQLX-UHFFFAOYSA-N
Formula:	C6H13O3P
SMILES:	C=CP(=O)(OCC)OCC
Mol. weight [g/mol]:	164.14
CAS:	682-30-4

Physical Properties

Property code	Value	Unit	Source
ie	9.96	eV	NIST Webbook
ie	10.60	eV	NIST Webbook
ie	10.60	eV	NIST Webbook
log10ws	-3.13		Crippen Method
logp	2.396		Crippen Method
mcvol	129.170	ml/mol	McGowan Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C682304&Units=SI

Legend

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

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