Phosphonic dichloride, ethenyl-

Other names:	Ethenephosphorylchloride
	Vinylphosphonic dichloride
Inchi:	InChI=1S/C2H3Cl2OP/c1-2-6(3,4)5/h2H,1H2
InchiKey:	MLSZIADXWDYFKM-UHFFFAOYSA-N
Formula:	C2H3Cl2OP
SMILES:	C=CP(=O)(Cl)Cl
Mol. weight [g/mol]:	144.92
CAS:	1438-74-0

Physical Properties

Property code	Value	Unit	Source
ie	11.24	eV	NIST Webbook
ie	10.81	eV	NIST Webbook
ie	10.81	eV	NIST Webbook
ie	11.24	eV	NIST Webbook
ie	11.24	eV	NIST Webbook
log10ws	-3.59		Crippen Method
logp	2.801		Crippen Method
mcvol	85.550	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C1438740&Units=SI

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

Latest version available from:

https://www.chemeo.com/cid/29-108-0/Phosphonic-dichloride-ethenyl.pdf

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