

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	10.81	eV	NIST Webbook
ie	10.81	eV	NIST Webbook
ie	11.24	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
mcpvol	85.550	ml/mol	McGowan Method

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1438740&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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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