

Vinylphosphonic dichloride

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]:	144.93

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
logp	2.801		Crippen Method
mccvol	85.550	ml/mol	McGowan Method
pc	4158.06	kPa	Cheméo Relay (1.0, beta)
tc	621.76	K	Cheméo Relay (1.0)
tf	199.21	K	Cheméo Relay (1.0)
vc	0.309	m3/kmol	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=C1438740&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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