Phosphonic acid, (2-chloroethyl)-

Other names:	(2-Chloroethyl)phosphonic acid
	Amchem 68-250
	Camposan
	Chloroethylphosphonic acid
	CEP
	CEPA
	Ethefon
	Ethel
	Ethephon
	Ethrel
	G 996
	Kamposan
	2-Chloroethanephosphonic acid
	Arvest
	Bromeflor
	Cerone
	Ethrel-E
	Ethrel C
	Flordimex
	Florel
	Prep
	2-CEPA
	Cepha 10LS
	Chlorethephon
	Etheverse
	Roll-Fruct
	Tomathrel
Inchi:	InChI=1S/C2H6ClO3P/c3-1-2-7(4,5)6/h1-2H2,(H2,4,5,6)
InchiKey:	UDPGUMQDCGORJQ-UHFFFAOYSA-N
Formula:	C2H6ClO3P
SMILES:	O=P(O)(O)CCCl
Mol. weight [g/mol]:	144.49
CAS:	16672-87-0

Physical Properties

Property code	Value	Unit	Source

log10ws	-1.61		Crippen Method
logp	0.403		Crippen Method
mcvol	89.350	ml/mol	McGowan Method
tf	349.87 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	14.79	kJ/mol	347.90	NIST Webbook

Sources

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=C16672870&Units=SI

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

Legend

hfust: Enthalpy of fusion at a given temperature

log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

mcvol: McGowan's characteristic volume

tf: Normal melting (fusion) point