

Phosphoramidous dichloride, dimethyl-

Other names:	(Dimethylamino)dichlorophosphine Dichloro(dimethylamino)phosphine Dimethylphosphoramidous dichloride (CH ₃) ₂ NPCl ₂ Dimethylaminodichlorophosphine
Inchi:	InChI=1S/C2H6Cl2NP/c1-5(2)6(3)4/h1-2H3
InchiKey:	XPWWDZRSNFSLRQ-UHFFFAOYSA-N
Formula:	C ₂ H ₆ Cl ₂ NP
SMILES:	CN(C)P(Cl)Cl
Mol. weight [g/mol]:	145.96
CAS:	683-85-2

Physical Properties

Property code	Value	Unit	Source
hvap	40.80 ± 0.70	kJ/mol	NIST Webbook
ie	9.50	eV	NIST Webbook
ie	9.45	eV	NIST Webbook
log10ws	1.64		Crippen Method
logp	2.252		Crippen Method
mcvol	93.960	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=C683852&Units=SI

Legend

hvap:	Enthalpy of vaporization at standard conditions
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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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