

Methyldichlorophosphine

Other names:	CH ₃ PCl ₂ Phosphonous dichloride, methyl- Methylphosphonous dichloride UN 2845
Inchi:	InChI=1S/CH ₃ Cl ₂ P/c1-4(2)3/h1H3
InchiKey:	CDPKWOKGVUHZFR-UHFFFAOYSA-N
Formula:	CH ₃ Cl ₂ P
SMILES:	CP(Cl)Cl
Mol. weight [g/mol]:	116.91
CAS:	676-83-5

Physical Properties

Property code	Value	Unit	Source
ie	9.50	eV	NIST Webbook
ie	9.85	eV	NIST Webbook
log10ws	1.62		Crippen Method
logp	2.406		Crippen Method
mcpvol	69.890	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	35.50	kJ/mol	263.00	NIST Webbook

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=C676835&Units=SI

Legend

hvapt:	Enthalpy of vaporization at a given temperature
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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