Chloro(dimethyl)phosphine

Other names:	(CH3)2PCl
	Dimethyl chloro phosphine
	Phosphinous chloride, dimethyl-
Inchi:	InChI=1S/C2H6ClP/c1-4(2)3/h1-2H3
InchiKey:	ZLVVDNKTHWEIOG-UHFFFAOYSA-N
Formula:	C2H6ClP
SMILES:	CP(C)Cl
Mol. weight [g/mol]:	96.50
CAS:	811-62-1

Physical Properties

Property code	Value	Unit	Source
ie	9.00	eV	NIST Webbook
ie	8.70	eV	NIST Webbook
ie	9.30	eV	NIST Webbook
ie	9.20	eV	NIST Webbook
log10ws	2.34		Crippen Method
logp	1.882		Crippen Method
mcvol	71.740	ml/mol	McGowan Method
tf	272.00 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	55.50	kJ/mol	250.50	NIST Webbook
hvapt	32.90	kJ/mol	289.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C811621&Units=SI
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

Legend

hsubt:	Enthalpy of sublimation at a given temperature
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
tf:	Normal melting (fusion) point