

Bis(dimethylamino)phosphinic chloride

Other names:	((CH ₃) ₂ N) ₂ POCl Bis(dimethylamino)phosphorylchloride Phosphorodiamidic chloride, tetramethyl- Phosphorodiamidic chloride, N,N,N',N'-tetramethyl- N,N,N',N'-Tetramethyldiamidophosphorochloridate
Inchi:	InChI=1S/C4H12CIN2OP/c1-6(2)9(5,8)7(3)4/h1-4H3
InchiKey:	WYLQARGYFXBZMD-UHFFFAOYSA-N
Formula:	C ₄ H ₁₂ CIN ₂ OP
SMILES:	CN(C)P(=O)(Cl)N(C)C
Mol. weight [g/mol]:	170.58
CAS:	1605-65-8

Physical Properties

Property code	Value	Unit	Source
ie	8.61	eV	NIST Webbook
log10ws	-2.05		Crippen Method
logp	1.456		Crippen Method
mcvol	125.750	ml/mol	McGowan Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	383.00	K	1.30	NIST Webbook
tbrp	406.50 ± 0.50	K	4.00	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=C1605658&Units=SI

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure

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