N,N'-Dimethylphosphoramidic dichloride

Other names:	N,N-Dimethylphosphoramidodichloridate
	(CH3)2NPOCl2
	N,N-Dimethylphosphoramidic dichloride
	Dimethylaminophosphoryl dichloride
	Phosphoramidic dichloride, dimethyl-
	(Dimethylamido)phosphoric dichloride
	Dichlorophosphoric dimethylamide
	Dimethylamidophosphoric acid dichloride
	Dimethylphosphoramidic dichloride
Inchi:	InChI=1S/C2H6Cl2NOP/c1-5(2)7(3,4)6/h1-2H3
InchiKey:	YNHXBEVSSILHPI-UHFFFAOYSA-N
Formula:	C2H6Cl2NOP
SMILES:	CN(C)P(=O)(Cl)Cl
Mol. weight [g/mol]:	161.96

Physical Properties

Property code	Value	Unit	Source
ie	9.31	eV	NIST Webbook
logp	2.134		Crippen Method
mcvol	99.830	ml/mol	McGowan Method
pc	3673.66	kPa	Cheméo Relay (1.0, beta)
tc	619.53	K	Cheméo Relay (1.0)
tf	319.28	K	Cheméo Relay (1.0)
vc	0.394	m3/kmol	Cheméo Relay (1.0)

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C677430&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume