dichlorophenylphosphine

Other names:	Benzene phosphorus dichloride Benzenephosphonous dichloride NSC 66478 Phenyl phosphorus dichloride Phenyldichlorophosphine Phenylphosphine dichloride Phenylphosphonous acid dichloride Phosphine, dichlorophenyl- Phosphonous dichloride, P-phenyl- UN 2798 p,p-Dichlorophenylphosphine phenylphosphonous dichloride
Inchi:	InChI=1S/C6H5Cl2P/c7-9(8)6-4-2-1-3-5-6/h1-5H
InchiKey:	IMDXZWRLUZPMDH-UHFFFAOYSA-N
Formula:	C6H5Cl2P
SMILES:	ClP(Cl)c1ccccc1
Mol. weight [g/mol]:	178.98

Physical Properties

Property code	Value	Unit	Source
ie	9.08	eV	Cheméo Relay (1.0)
logp	3.101		Crippen Method
mcvol	116.580	ml/mol	McGowan Method
tb	477.30	K	Cheméo Relay (1.0)
tf	273.89	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

rfi	1.59500		293.15	The Density, Viscosity and Vapor Pressure of Phenylphosphorus Dichloride and Phenylphosphonic Dichloride

Sources

Cheméo Relay (1.0, beta):

The Density, Viscosity and Vapor Pressure of Phenylphosphorus Dichloride and Phenylphosphonic Dichloride:	https://www.doi.org/10.1021/je034263v
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=B8002246&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rfi:	Refractive Index
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point