Phosphonothioic dichloride, phenyl-

Other names: Benzenephosphorus thiodichloride

NSC 62217

Phenyl phosphorus thiodichloride
Phenylphosphonothionodichloridate
Phenylphosphonothioyl dichloride
Phenylthionophosphonic dichloride
Phenylthiophosphonyl dichloride
Phosphine sulfide, dichlorophenylPhosphonodichloridothioic acid, phenylPhosphonothioic dichloride, P-phenyl-

UN 2799

benzene phosphorus thiodichloride dichloro(phenyl)phosphine sulphide dichlorophenylphosphine sulfide phenylphosphonothioic dichloride

InChl=1S/C6H5Cl2PS/c7-9(8,10)6-4-2-1-3-5-6/h1-5H

InchiKey: SXIWNIQDOJKDGB-UHFFFAOYSA-N

Formula: C6H5Cl2PS

SMILES: S=P(CI)(CI)c1ccccc1

Mol. weight [g/mol]: 211.05 CAS: 3497-00-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.39		Crippen Method
logp	3.099		Crippen Method
mcvol	132.930	ml/mol	McGowan Method

Temperature Dependent Properties

Property code Value Unit Temperature [K] Source

dvisc	0.0036340	Paxs	303.16	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0029570	Paxs	313.12	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0024390	Paxs	323.25	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0020820	Paxs	332.85	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0017910	Paxs	343.00	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0015560	Paxs	353.19	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0013560	Paxs	363.25	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0011990	Paxs	374.75	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0010820	Paxs	383.20	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide
dvisc	0.0009720	Paxs	393.26	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide

dvisc	0.0008720	Paxs	403.85	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide)
dvisc	0.0007980	Paxs	412.65	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide)
dvisc	0.0007290	Paxs	423.40	Density, Viscosity, and Vapor Pressure of Dichlorophenylphosphine Sulfide	9

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C3497005&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Density, Viscosity, and Vapor Pressure https://www.doi.org/10.1021/je600566v

of Dichlorophenylphosphine Sulfide:

Legend

dvisc: Dynamic viscosity

log10ws:Log10 of Water solubility in mol/llogp:Octanol/Water partition coefficientmcvol:McGowan's characteristic volume

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