

Phosphonous dichloride, phenyl-

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 dichlorophenylphosphine 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:	<chem>CIP(Cl)c1ccccc1</chem>
Mol. weight [g/mol]:	178.98
CAS:	644-97-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.97		Crippen Method
logp	3.101		Crippen Method
mcpvol	116.580	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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rfi

1.59500

293.15

The Density,
Viscosity and
Vapor Pressure
of
Phenylphosphorus
Dichloride and
Phenylphosphonic
Dichloride

Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C644973&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.cheméo.com/doc/models/crippen_log10ws

The Density, Viscosity and Vapor Pressure of Phenylphosphorus Dichloride and Phenylphosphonic Dichloride:

<https://www.doi.org/10.1021/je034263v>

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rfi: Refractive Index

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