

# PHOSPHONIUM CHLORIDE

**Inchi:** InChI=1S/ClH4P/c1-2/h2H4  
**InchiKey:** CHCDYWFWJOXDIY-UHFFFAOYSA-N  
**Formula:** H4CIP  
**SMILES:** [PH4]Cl  
**Mol. weight [g/mol]:** 70.46

## Physical Properties

Property code	Value	Unit	Source
af	1.6400		KDB
log10ws	3.31		Crippen Method
logp	0.480		Crippen Method
mcvol	47.860	ml/mol	McGowan Method
pc	7370.00	kPa	KDB
tb	246.00	K	KDB
tc	322.30	K	KDB

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**KDB:** <https://www.cheric.org/files/research/kdb/mol/mol1923.mol>  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**af:** Acentric Factor  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume  
**pc:** Critical Pressure  
**tb:** Normal Boiling Point Temperature

**tc:** Critical Temperature

Latest version available from:

<https://www.chemeo.com/cid/125-324-3/PHOSPHONIUM-CHLORIDE.pdf>

Generated by Cheméo on 2024-04-26 08:59:47.058537056 +0000 UTC m=+16411235.979114368.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.