

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

KDB: <https://www.chemic.org/files/research/kdb/mol/mol1923.mol>
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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

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

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