Phospholane

Other names:	Phosphacyclopentane
	Phosphine, 1,4-butanediyl-
	Phosphole, tetrahydro-
	Phospholidine
Inchi:	InChI=1S/C4H9P/c1-2-4-5-3-1/h5H,1-4H2
InchiKey:	GWLJTAJEHRYMCA-UHFFFAOYSA-N
Formula:	C4H9P
SMILES:	C1CCPC1
Mol. weight [g/mol]:	88.09
CAS:	3466-00-0

Physical Properties

Property code	Value	Unit	Source
log10ws	2.57		Crippen Method
logp	1.459		Crippen Method
mcvol	76.820	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	37.40	kJ/mol	302.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3466000&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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