

Phoshorinane

Other names:	Phosphorinane
Inchi:	InChI=1S/C5H11P/c1-2-4-6-5-3-1/h6H,1-5H2
InchiKey:	VXTFGYMINLXJPW-UHFFFAOYSA-N
Formula:	C5H11P
SMILES:	C1CCPCC1
Mol. weight [g/mol]:	102.11
CAS:	4743-40-2

Physical Properties

Property code	Value	Unit	Source
log10ws	2.15		Crippen Method
logp	1.849		Crippen Method
mcvol	90.910	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	43.30	kJ/mol	270.50	NIST Webbook
hvapt	39.90	kJ/mol	319.50	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4743402&Units=SI

Legend

hsubt:	Enthalpy of sublimation at a given temperature
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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