

Phosphonic difluoride

Other names:	Phosphine oxide, difluoro- Hydrophosphoryl difluoride
Inchi:	InChI=1S/F2HOP/c1-4(2)3/h4H
InchiKey:	APNXZXPWHTUIQL-UHFFFAOYSA-N
Formula:	F2HOP
SMILES:	O=[PH](F)F
Mol. weight [g/mol]:	85.98
CAS:	14939-34-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-1.99		Crippen Method
logp	1.315		Crippen Method
mcvol	40.730	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	36.10	kJ/mol	245.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14939345&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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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