

Bis(trifluoromethyl)iodophosphine

Other names:	bis(trifluoromethyl) phosphinous iodide
Inchi:	InChI=1S/C2F6IP/c3-1(4,5)10(9)2(6,7)8
InchiKey:	HGVWFVCHIXYCGH-UHFFFAOYSA-N
Formula:	C2F6IP
SMILES:	FC(F)(F)P(I)C(F)(F)F
Mol. weight [g/mol]:	295.89
CAS:	359-64-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.77		Crippen Method
logp	3.858		Crippen Method
mcvol	95.940	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	33.20	kJ/mol	296.50	NIST Webbook

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C359648&Units=SI

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

Latest version available from:

<https://www.chemeo.com/cid/77-892-7/Bis-trifluoromethyl-iodophosphine.pdf>

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