Bis(ditrifluoromethyldiphosphino) sulfide

Other names: Di[bis(trifluoromethyl)phosphino] sulfide
Inchi: InChI=1S/C4F12P2S/c5-1(6,7)17(2(8,9)10)19-18(3(11,12)13)4(14,15)16
InchiKey: ULASFWIFQPWNDN-UHFFFAOYSA-N
Formula: C4F12P2S
SMILES: FC(F)(F)P(SP(C(F)(F)F)C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]: 370.04
CAS: 1486-20-0

Physical Properties

Property code	Value	Unit	Source
log10ws	0.30		Crippen Method
logp	6.593		Crippen Method
mcvol	145.730	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	42.20	kJ/mol	304.00	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=C1486200&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