Dodecylbis(trifluoromethyl)phosphine sulfide

Other names:	Dodecyl bis(trifluoromethyl)thiophosphine
Inchi:	InChI=1S/C14H25F6PS/c1-2-3-4-5-6-7-8-9-10-11-12-21(22,13(15,16)17)14(18,19)20/h2-
InchiKey:	COANOGHFEVNJFP-UHFFFAOYSA-N
Formula:	C14H25F6PS
SMILES:	CCCCCCCCCCCCP(=S)(C(F)(F)F)C(F)(F)F
Mol. weight [g/mol]:	370.38
CAS:	136338-52-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-3.28		Crippen Method
logp	7.426		Crippen Method
mcvol	255.550	ml/mol	McGowan Method

Sources

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=C136338528&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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