

# Dodecylbis(trifluoromethyl)phosphine sulfide

<b>Other names:</b>	Dodecyl bis(trifluoromethyl)thiophosphine
<b>Inchi:</b>	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
<b>InchiKey:</b>	COANOGHFEVNJFP-UHFFFAOYSA-N
<b>Formula:</b>	C14H25F6PS
<b>SMILES:</b>	CCCCCCCCCCCCP(=S)(C(F)(F)F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	370.38
<b>CAS:</b>	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

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C136338528&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C136338528&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

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

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