

Tris(3-fluorophenyl)phosphine

Other names:	Phosphine, tris(3-fluorophenyl)-
Inchi:	InChI=1S/C18H12F3P/c19-13-4-1-7-16(10-13)22(17-8-2-5-14(20)11-17)18-9-3-6-15(21)1
InchiKey:	CUTRINLXFPIWQB-UHFFFAOYSA-N
Formula:	C18H12F3P
SMILES:	Fc1cccc(P(c2cccc(F)c2)c2cccc(F)c2)c1
Mol. weight [g/mol]:	316.26
CAS:	23039-94-3

Physical Properties

Property code	Value	Unit	Source
log10ws	-14.68		Crippen Method
logp	3.862		Crippen Method
mcvol	218.970	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C23039943&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

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

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<https://www.chemeo.com/cid/99-280-2/Tris-3-fluorophenyl-phosphine.pdf>

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