Phosphine, tris(4-fluorophenyl)-

Other names:	Phosphine, tris(p-fluorophenyl)-
	Tris(p-fluorophenyl)phosphine
	Tris(4-fluorophenyl)phosphine
	tri-(4-Fluorophenyl)phosphine
Inchi:	InChI=1S/C18H12F3P/c19-13-1-7-16(8-2-13)22(17-9-3-14(20)4-10-17)18-11-5-15(21)6-1
InchiKey:	GEPJPYNDFSOARB-UHFFFAOYSA-N
Formula:	C18H12F3P
SMILES:	Fc1ccc(P(c2ccc(F)cc2)c2ccc(F)cc2)cc1
Mol. weight [g/mol]:	316.26
CAS:	18437-78-0

Physical Properties

Property code	Value	Unit	Source
ie	8.12	eV	NIST Webbook
log10ws	-14.68		Crippen Method
logp	3.862		Crippen Method
mcvol	218.970	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=C18437780&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

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