

Bis(pentafluorophenyl)phenyl phosphine

Other names:	Decafluorotriphenylphosphine DFTPP Ultramark 443 Phosphine, bis(pentafluorophenyl)phenyl- bis(pentafluorophenyl) phenyl phosphite
Inchi:	InChI=1S/C18H5F10P/c19-7-9(21)13(25)17(14(26)10(7)22)29(6-4-2-1-3-5-6)18-15(27)11
InchiKey:	OYNXPGGNQMSMTR-UHFFFAOYSA-N
Formula:	C18H5F10P
SMILES:	Fc1c(F)c(F)c(P(c2ccccc2)c2c(F)c(F)c(F)c(F)c2F)c(F)c1F
Mol. weight [g/mol]:	442.19
CAS:	5074-71-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-17.00		Crippen Method
logp	4.836		Crippen Method
mcvol	231.360	ml/mol	McGowan Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5074715&Units=SI

Legend

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

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