

Diphenyl(4-tolyl)phosphine

Other names:	Diphenyl-p-tolyl phosphine Diphenyl-4-methylphenylphosphine p-Tolyldiphenylphosphine Phosphine, (4-methylphenyl)diphenyl- (4-Methylphenyl)(diphenyl)phosphine
Inchi:	InChI=1S/C19H17P/c1-16-12-14-19(15-13-16)20(17-8-4-2-5-9-17)18-10-6-3-7-11-18/h2-
InchiKey:	QJIMTLTYXBDJFC-UHFFFAOYSA-N
Formula:	C19H17P
SMILES:	<chem>Cc1ccc(P(c2ccccc2)c2ccccc2)cc1</chem>
Mol. weight [g/mol]:	276.31
CAS:	1031-93-2

Physical Properties

Property code	Value	Unit	Source
log10ws	-14.16		Crippen Method
logp	3.753		Crippen Method
mcvol	227.750	ml/mol	McGowan Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1031932&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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