

# Tris(4-chlorophenyl)phosphine

**Other names:**

tri-(4-Chlorophenyl)phosphine  
tri(p-Chlorophenyl)phosphine  
Phosphine, tris(4-chlorophenyl)-  
Phosphine, tris(p-chlorophenyl)-  
Tris(p-chlorophenyl)phosphine

**Inchi:**

InChI=1S/C18H12Cl3P/c19-13-1-7-16(8-2-13)22(17-9-3-14(20)4-10-17)18-11-5-15(21)6-

**InchiKey:**

IQKSLJOIKWOGIZ-UHFFFAOYSA-N

**Formula:**

C18H12Cl3P

**SMILES:**

Clc1ccc(P(c2ccc(Cl)cc2)c2ccc(Cl)cc2)cc1

**Mol. weight [g/mol]:**

365.62

**CAS:**

1159-54-2

## Physical Properties

Property code	Value	Unit	Source
ie	8.18	eV	NIST Webbook
log10ws	-15.74		Crippen Method
logp	5.405		Crippen Method
mcvol	250.380	ml/mol	McGowan Method

## Sources

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](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=C1159542&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## 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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