

# Phosphine, tris(2-methylphenyl)-

<b>Other names:</b>	Phosphine, tri-o-tolyl- Tris(2-tolyl)phosphine Phosphorus, tri-o-tolyl tri-o-Tolyphosphine tri(2-Tolyl)phosphine Tris(2-methylphenyl)phosphine Tri-ortho-tolylphosphine NSC 116667
<b>Inchi:</b>	InChI=1S/C21H21P/c1-16-10-4-7-13-19(16)22(20-14-8-5-11-17(20)2)21-15-9-6-12-18(21)
<b>InchiKey:</b>	COIOYMYWGDAQPM-UHFFFAOYSA-N
<b>Formula:</b>	C21H21P
<b>SMILES:</b>	Cc1ccccc1P(c1ccccc1C)c1ccccc1C
<b>Mol. weight [g/mol]:</b>	304.37
<b>CAS:</b>	6163-58-2

## Physical Properties

Property code	Value	Unit	Source
ie	7.64	eV	NIST Webbook
log10ws	-15.11		Crippen Method
logp	4.370		Crippen Method
mvol	255.930	ml/mol	McGowan Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6163582&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6163582&amp;Units=SI</a>

## 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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