

# Phosphorane, methylenetriphenyl-

<b>Other names:</b>	Methylenetriphenylphosphine Methylenetriphenylphosphorane Methylidenetriphenylphosphorane Triphenylmethylenephosphorane Triphenylphosphine methylene Triphenylphosphine methylide Triphenylphosphomethylene Triphenylphosphormethylene
<b>Inchi:</b>	InChI=1S/C19H17P/c1-20(17-11-5-2-6-12-17,18-13-7-3-8-14-18)19-15-9-4-10-16-19/h2-
<b>InchiKey:</b>	XYDYWTJEGDZLTH-UHFFFAOYSA-N
<b>Formula:</b>	C19H17P
<b>SMILES:</b>	C=P(c1ccccc1)(c1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	276.31
<b>CAS:</b>	3487-44-3

## Physical Properties

Property code	Value	Unit	Source
ie	6.62	eV	NIST Webbook
log10ws	-13.69		Crippen Method
logp	3.412		Crippen Method
mcvol	227.750	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3487443&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3487443&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

## 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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