

# Phosphine, bis(1,1-dimethylethyl)-

<b>Other names:</b>	Phosphine, di-tert-butyl- Di-tert-butylphosphine (tert-C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> PH
<b>Inchi:</b>	InChI=1S/C <sub>8</sub> H <sub>19</sub> P/c1-7(2,3)9-8(4,5)6/h9H,1-6H3
<b>InchiKey:</b>	CRHWEIDCXNDTMO-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>8</sub> H <sub>19</sub> P
<b>SMILES:</b>	CC(C)(C)PC(C)(C)C
<b>Mol. weight [g/mol]:</b>	146.21
<b>CAS:</b>	819-19-2

## Physical Properties

Property code	Value	Unit	Source
ie	7.90	eV	NIST Webbook
ie	8.35	eV	NIST Webbook
log10ws	0.56		Crippen Method
logp	3.262		Crippen Method
mcvol	144.040	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C819192&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C819192&amp;Units=SI</a>
<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>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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