

# Dimethylphenylphosphine

<b>Other names:</b>	Phosphine, dimethylphenyl- Phenyldimethylphosphine
<b>Inchi:</b>	InChI=1S/C8H11P/c1-9(2)8-6-4-3-5-7-8/h3-7H,1-2H3
<b>InchiKey:</b>	HASCQPSFPAKVEK-UHFFFAOYSA-N
<b>Formula:</b>	C8H11P
<b>SMILES:</b>	CP(C)c1ccccc1
<b>Mol. weight [g/mol]:</b>	138.15
<b>CAS:</b>	672-66-2

## Physical Properties

Property code	Value	Unit	Source
affp	969.20	kJ/mol	NIST Webbook
basg	936.80	kJ/mol	NIST Webbook
ie	7.81 ± 0.01	eV	NIST Webbook
ie	8.32 ± 0.05	eV	NIST Webbook
ie	8.45	eV	NIST Webbook
ie	7.58 ± 0.05	eV	NIST Webbook
log10ws	-2.52		Crippen Method
logp	2.053		Crippen Method
mvol	120.280	ml/mol	McGowan Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C672662&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C672662&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

**affp:** Proton affinity

<b>basg:</b>	Gas basicity
<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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