

# 1H-Imidazole, 2,4,5-triphenyl-

<b>Other names:</b>	2,4,5-Triphenyl-1,3-imidazole 2,4,5-Triphenylimidazole 2,4,5-triphenyl-1H-imidazole Lophin Lophine imidazole, 2,4,5-triphenyl-
<b>Inchi:</b>	InChI=1S/C21H16N2/c1-4-10-16(11-5-1)19-20(17-12-6-2-7-13-17)23-21(22-19)18-14-8-3
<b>InchiKey:</b>	RNIPJYFZGXJSDD-UHFFFAOYSA-N
<b>Formula:</b>	C21H16N2
<b>SMILES:</b>	<chem>c1ccc(-c2nc(-c3ccccc3)c(-c3ccccc3)[nH]2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	296.37
<b>CAS:</b>	484-47-9

## Physical Properties

Property code	Value	Unit	Source
log10ws	-8.27		Crippen Method
logp	4.929		Crippen Method
mcvol	235.970	ml/mol	McGowan Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	37.31	kJ/mol	547.80	NIST Webbook
hfust	35.15	kJ/mol	550.80	NIST Webbook

## Sources

<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=C484479&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C484479&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>

## Legend

<b>hfust:</b>	Enthalpy of fusion at a given temperature
<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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