

# Pyridine, 4-phenyl-

<b>Other names:</b>	4-Phenylpyridine p-Phenylpyridine 4-Aza-1,1'-biphenyl
<b>Inchi:</b>	InChI=1S/C11H9N/c1-2-4-10(5-3-1)11-6-8-12-9-7-11/h1-9H
<b>InchiKey:</b>	JVZRCNQLWOELDU-UHFFFAOYSA-N
<b>Formula:</b>	C11H9N
<b>SMILES:</b>	<chem>c1ccc(-c2ccncc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	155.20
<b>CAS:</b>	939-23-1

## Physical Properties

Property code	Value	Unit	Source
affp	939.70	kJ/mol	NIST Webbook
basg	907.80	kJ/mol	NIST Webbook
hsub	81.40 ± 1.60	kJ/mol	NIST Webbook
log10ws	-3.84		Crippen Method
logp	2.749		Crippen Method
mcvol	128.310	ml/mol	McGowan Method
rinpol	253.01		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	1449.00		NIST Webbook
rinpol	252.35		NIST Webbook
rinpol	256.07		NIST Webbook
rinpol	252.35		NIST Webbook
rinpol	1459.00		NIST Webbook
rinpol	256.07		NIST Webbook
ripol	2327.00		NIST Webbook
tb	547.70	K	NIST Webbook
tf	350.65 ± 1.50	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	19.95	kJ/mol	346.90	NIST Webbook

# Sources

<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=C939231&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C939231&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>

# Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tf:</b>	Normal melting (fusion) point

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