

# 2,2'-Bipyridine, 4,4'-dimethyl-

<b>Other names:</b>	2,2'-Bi-4-picoline 2,2'-Bipyridyl, 4,4'-dimethyl- 4,4'-Dimethyl-2,2'-bipyridyl 4,4'-Dimethyl-2,2'-dipyridyl 4,4'-dimethyl-2,2'-bipyridine
<b>Inchi:</b>	InChI=1S/C12H12N2/c1-9-3-5-13-11(7-9)12-8-10(2)4-6-14-12/h3-8H,1-2H3
<b>InchiKey:</b>	NBPGPQJFYXNFKN-UHFFFAOYSA-N
<b>Formula:</b>	C12H12N2
<b>SMILES:</b>	Cc1ccnc(-c2cc(C)ccn2)c1
<b>Mol. weight [g/mol]:</b>	184.24
<b>CAS:</b>	1134-35-6

## Physical Properties

Property code	Value	Unit	Source
basg	951.00	kJ/mol	NIST Webbook
chs	-6546.70 ± 3.00	kJ/mol	NIST Webbook
hf	209.30 ± 4.10	kJ/mol	NIST Webbook
hfs	109.60 ± 3.40	kJ/mol	NIST Webbook
hsub	99.70	kJ/mol	NIST Webbook
hsub	99.70 ± 2.30	kJ/mol	NIST Webbook
hsub	99.70 ± 2.30	kJ/mol	NIST Webbook
ie	8.20	eV	NIST Webbook
ie	8.53 ± 0.03	eV	NIST Webbook
log10ws	-4.56		Crippen Method
logp	2.760		Crippen Method
mcvol	152.380	ml/mol	McGowan Method

## 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>Solubilities of 2,2'-Bipyridine and 4,4'-Dimethyl-2,2'-bipyridine in Supercritical Carbon Dioxide:</b>	<a href="https://www.doi.org/10.1021/je700269m">https://www.doi.org/10.1021/je700269m</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=C1134356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1134356&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>basg:</b>	Gas basicity
<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<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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