

# 2,3'-Bipyridine, 1',3,4,4',5,5',6,6'-octahydro-

<b>Other names:</b>	Hystrine
<b>Inchi:</b>	InChI=1S/C10H16N2/c1-2-7-12-10(5-1)9-4-3-6-11-8-9/h8,11H,1-7H2
<b>InchiKey:</b>	KFDHPHHLOBEYFQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H16N2
<b>SMILES:</b>	C1=C(C2=NCCCC2)CCCN1
<b>Mol. weight [g/mol]:</b>	164.25
<b>CAS:</b>	18017-50-0

## Physical Properties

Property code	Value	Unit	Source
gf	342.79	kJ/mol	Joback Method
hf	100.99	kJ/mol	Joback Method
hfus	19.58	kJ/mol	Joback Method
hvap	54.21	kJ/mol	Joback Method
log10ws	-2.50		Crippen Method
logp	1.879		Crippen Method
mcvol	141.400	ml/mol	McGowan Method
pc	3745.38	kPa	Joback Method
rinpol	1663.00		NIST Webbook
tb	587.17	K	Joback Method
tc	849.31	K	Joback Method
tf	428.83	K	Joback Method
vc	0.521	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.58	J/molxK	587.17	Joback Method
cpg	388.88	J/molxK	630.86	Joback Method
cpg	408.62	J/molxK	674.55	Joback Method
cpg	426.84	J/molxK	718.24	Joback Method
cpg	443.56	J/molxK	761.93	Joback Method
cpg	458.79	J/molxK	805.62	Joback Method
cpg	472.57	J/molxK	849.31	Joback 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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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=C18017500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C18017500&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization 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>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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