>>**Entry Name: 6,6'-Dihydroxy-2,2'-bipyridine**
Synonym(s): [2,2'-Bipyridine]-6,6'-(1*H*,1'*H*)-dione, 9CI. [2,2'-Bipyridine]-6,6'-diol. 6,6'-Bi-2-pyridone

CAS Registry Number: 103505-54-0
Structure by analogy with 3,4'-Dihydroxy-2,3'-bipyridine, CFM55-E

Molecular Formula: $C_{10}H_8N_2O_2$
Molecular Weight: 188.185
Accurate Mass: 188.058578
Percentage Composition: C 63.83%; H 4.28%; N 14.89%; O 17.00%
Physical Description: Sesquihydrate
Melting Point: Mp 340° (325-326° dec.)

>>**Derivative:** Dihydrazone

CAS Registry Number: 53301-38-5
Molecular Formula: $C_{10}H_{12}N_6$
Molecular Weight: 216.245
Accurate Mass: 216.112344
Percentage Composition: C 55.54%; H 5.59%; N 38.86%
Physical Description: Yellow needles (H_2O)
Melting Point: Mp 208°

>>**Derivative:** Di-Ac

Molecular Formula: $C_{14}H_{12}N_2O_4$
Molecular Weight: 272.26
Accurate Mass: 272.079708
Percentage Composition: C 61.76%; H 4.44%; N 10.29%; O 23.51%
Melting Point: Mp 175-176 dec.°

>>**Derivative:** Di-Me ether
Synonym(s): 6,6'-Dimethoxy-2,2'-bipyridine, 9CI

CAS Registry Number: 39858-88-3
Molecular Formula: $C_{12}H_{12}N_2O_2$
Molecular Weight: 216.239
Accurate Mass: 216.089878
Percentage Composition: C 66.65%; H 5.59%; N 12.95%; O 14.80%
Melting Point: Mp 118°

References:

Murase, I., *Nippon Kagaku Zasshi*, 1956, **77**, 682; *CA*, **52**, 91006, *(synth)*
Lewis, J. *et al.*, *J.C.S. Dalton*, 1977, 734, *(hydrazone)*
Tiecco, M. *et al.*, *Synthesis*, 1984, 736, *(synth, deriv, pmr)*
Vanderesse, R. *et al.*, *Tet. Lett.*, 1986, **27**, 5483, *(synth, deriv)*
Dehmlow, E.V. *et al.*, *Annalen*, 1992, 953, *(synth)*