



>>Entry Name: 6,6'-Dihydroxy-2,2'-bipyridine

Synonym(s): [2,2'-Bipyridine]-6,6'-(1*H*,1'*H*)-dione, 9Cl. [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: C₁₀H₈N₂O₂

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: C₁₀H₁₂N₆

Molecular Weight: 216.245

Accurate Mass: 216.112344

Percentage Composition: C 55.54%; H 5.59%; N 38.86%

Physical Description: Yellow needles (H₂O)

Melting Point: Mp 208°

>>Derivative: Di-Ac

Molecular Formula: C₁₄H₁₂N₂O₄

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, 9Cl

CAS Registry Number: 39858-88-3

Molecular Formula: C₁₂H₁₂N₂O₂

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*)