



>>Entry Name: 2,4'-Bipyridine, 9CI

Synonym(s): 2,4'-Bipyridyl

CAS Registry Number: 581-47-5

Extra CAS Registry Numbers(s): 37275-48-2

Molecular Formula: C₁₀H₈N₂

Molecular Weight: 156.187

Accurate Mass: 156.068748

Percentage Composition: C 76.90%; H 5.16%; N 17.94%

Melting Point: Mp 61.5°

Boiling Point: Bp₁₁ 148-150°

Aldrich: 19889-7

Fluka: 14458

>>Derivative: Methiodide

Melting Point: Mp 188-190°

>>Derivative: Methiodide (1:2)

Melting Point: Mp 225°

>>Derivative: 1-Oxide

CAS Registry Number: 102325-51-9

Molecular Formula: C₁₀H₈N₂O

Molecular Weight: 172.186

Accurate Mass: 172.063663

Percentage Composition: C 69.76%; H 4.68%; N 16.27%; O 9.29%

Physical Description: Cryst. (Me₂CO/hexane)

Melting Point: Mp 119-121°

>>Derivative: 1,1'-Dioxide

CAS Registry Number: 108281-77-2

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%

Melting Point: Mp 240-242°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 733A, (*ir*)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 240B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1514B, (*ir*)

Homer, R.F., *J.C.S.*, 1958, 1574-1577, (*synth*)

Moran, D.B. *et al.*, *J. Het. Chem.*, 1986, **23**, 1071-1077, (*oxides*)

Zoltewicz, J.A. *et al.*, *Tetrahedron*, 1996, **52**, 4239-4244, (*dioxide, synth, pmr*)