



>>Entry Name: 4,4'-Dinitro-2,2'-bipyridine, 9CI

CAS Registry Number: 18511-72-3

Structure by analogy with 3,3'-Dinitro-2,2'-bipyridine, [NCP60-N](#)

Molecular Formula: C₁₀H₆N₄O₄

Molecular Weight: 246.182

Accurate Mass: 246.038906

Percentage Composition: C 48.79%; H 2.46%; N 22.76%; O 26.00%

Physical Description: Cryst. (CH₂Cl₂/hexanes)

Melting Point: Mp 190-192°

>>Derivative: N-Oxide

CAS Registry Number: 84175-12-2

Molecular Formula: C₁₀H₆N₄O₅

Molecular Weight: 262.181

Accurate Mass: 262.033821

Percentage Composition: C 45.81%; H 2.31%; N 21.37%; O 30.51%

Physical Description: Cryst. (CH₂Cl₂)

Melting Point: Mp 215-216.5°

>>Derivative: N,N'-Dioxide

CAS Registry Number: 51595-55-2

Molecular Formula: C₁₀H₆N₄O₆

Molecular Weight: 278.181

Accurate Mass: 278.028736

Percentage Composition: C 43.18%; H 2.17%; N 20.14%; O 34.51%

Physical Description: Cryst.

Melting Point: Mp 261 dec.°

References:

Murase, H. *et al.*, *Nippon Kagaku Zasshi*, 1956, **77**, 682; *CA*, **52**, 9100a, (*synth*)

Wenkert, D. *et al.*, *J.O.C.*, 1983, **48**, 283, (*synth*, *uv*, *pmr*)

Wong, Y. *et al.*, *Inorg. Chem.*, 1994, **33**, 1354, (*synth*, *pmr*, *cmr*, *dioxide*)