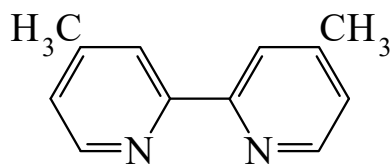




>>Entry Name: 4,4'-Dimethyl-2,2'-bipyridine, 9Cl

Synonym(s): 2,2'-Bi-4-picoline, 8Cl



CAS Registry Number: 1134-35-6

Type of Compound Code(s): PA5010 PM6150 PS8300

Molecular Formula: $C_{12}H_{12}N_2$

Molecular Weight: 184.24

Accurate Mass: 184.100048

Percentage Composition: C 78.23%; H 6.56%; N 15.20%

Use/Importance: Used in photometric detn. of Fe(II), Cu(I), Co, Ni; pptn. of $Zn(SCN)_4^{2-}$, $Cd(SCN)_4^{2-}$

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 175-179°

Aldrich: 24573-9

Fluka: 40220

>>Derivative: *N,N'*-Dioxide

CAS Registry Number: 87855-83-2

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%

Physical Description: Needles (MeOH/Me₂CO)

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 732B, (ir)

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 239C, (nmr)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1513C, (ir)

Spotswood, T.M. *et al.*, *Aust. J. Chem.*, 1967, **20**, 1227-1242, (pmr)

Schilt, A., *Analytical Applications of 1,10-Phenanthroline and Related Compounds*, Pergamon, Oxford, 1969, (use)

Sprintschnik, G. *et al.*, *J.A.C.S.*, 1977, **99**, 4947-4954, (synth, pmr)

Marker, A. *et al.*, *Aust. J. Chem.*, 1978, **31**, 1255-1263, (cmr)

Kanno, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1991, **64**, 2936-2941, (dioxide, synth, ir, pmr, cmr)

Kanno, H. *et al.*, *Acta Cryst. C*, 1997, **53**, 498-499, (dioxide, cryst struct)

Lu, S. *et al.*, *CA*, 1997, **126**, 205709e, (cryst struct)

Polin, J. *et al.*, *Synthesis*, 1998, 321-324, (synth)