



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

Synonym(s): 4,4'-Bipyridyl

CAS Registry Number: 553-26-4

Related CAS Registry Numbers(s): 123333-55-1

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%

Use/Importance: Used for microcrystalline detn. of Pd(II), Pt(IV). Forms ionene polymers with org. dihalides

Melting Point: Mp 114°. Mp 70-74° (as hydrate)

Boiling Point: Bp 305°

Other Data: Sublimes

Hazard & Toxicity: LD₅₀ (rat, orl) 172 mg/kg

Aldrich: 28942-6

Fluka: 14455

Sigma: D8525

>>Derivative: Hydrochloride

CAS Registry Number: 27926-72-3

Physical Description: Needles + 2H₂O (H₂O)

Aldrich: D21660-7

Sigma: D5644

>>Derivative: Methochloride (1:2)

see 1,1'-Dimethyl-4,4'-bipyridinium(2+), [FZK09-A](#)

>>Derivative: Mono-*N*-oxide

CAS Registry Number: 39182-30-4

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: Needles (Me₂CO)

Melting Point: Mp 180°

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

CAS Registry Number: 24573-15-7

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: Cryst. + ½ H₂O (EtOH)

Melting Point: Mp 335°

>>Derivative: *N*-Heptyl

CAS Registry Number: 39127-10-1

Molecular Formula: C₁₇H₂₃N₂⁽⁺⁾

Molecular Weight: 255.382

Accurate Mass: 255.186123

Percentage Composition: C 79.95%; H 9.08%; N 10.97%

Physical Description: Cryst. (Me₂CO) (as bromide)

Melting Point: Mp 125-128° (bromide)

Other Data: CAS no. refers to bromide

References: