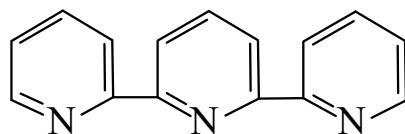




>>Entry Name: 2,2':6',2''-Terpyridine, 9Cl

Synonym(s): α -Terpyridyl



CAS Registry Number: 1148-79-4

Molecular Formula: C₁₅H₁₁N₃

Molecular Weight: 233.272

Accurate Mass: 233.095297

Percentage Composition: C 77.23%; H 4.75%; N 18.01%

Use/Importance: Forms complexes with transition and heavy metals. Used as 0.5% soln. in EtOH for photometric detn. of Ag ($\lambda_{\max}$ 465 nm); Ru ($\lambda_{\max}$ 475 nm, ϵ 8300, pH 5.5)

Physical Description: Cryst. (hexane/cyclohexane)

Melting Point: Mp 88°

Solubility: Sol. EtOH

pKa Value: pK_{a1} 4.33; pK_{a2} 2.64 (25°)

Aldrich: 23467-2

Fluka: 86490

Sigma: T7380

>>Derivative: 1-N-Oxide

CAS Registry Number: 97721-16-9

Molecular Formula: C₁₅H₁₁N₃O

Molecular Weight: 249.271

Accurate Mass: 249.090212

Percentage Composition: C 72.28%; H 4.45%; N 16.86%; O 6.42%

Melting Point: Mp 134-135°

>>Derivative: 1,1''-Di-N-oxide

CAS Registry Number: 97721-17-0

Molecular Formula: C₁₅H₁₁N₃O₂

Molecular Weight: 265.271

Accurate Mass: 265.085127

Percentage Composition: C 67.92%; H 4.18%; N 15.84%; O 12.06%

Physical Description: Cryst.

Melting Point: Mp 232-233°

>>Derivative: Tri-N-oxide

CAS Registry Number: 78017-86-4

Molecular Formula: C₁₅H₁₁N₃O₃

Molecular Weight: 281.27

Accurate Mass: 281.080042

Percentage Composition: C 64.05%; H 3.94%; N 14.94%; O 17.06%

Physical Description: Solid or cryst.

Melting Point: Mp 320 dec.°

References:

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