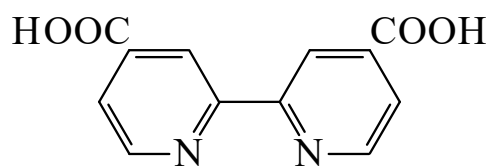




>>Entry Name: [2,2'-Bipyridine]-4,4'-dicarboxylic acid, 9CI

Synonym(s): 2,2'-Bipyridyl-4,4'-dicarboxylic acid. 2,2'-Biisonicotinic acid



CAS Registry Number: 6813-38-3

Molecular Formula: C₁₂H₈N₂O₄

Molecular Weight: 244.206

Accurate Mass: 244.048408

Percentage Composition: C 59.02%; H 3.30%; N 11.47%; O 26.21%

Use/Importance: Used as redox indicator

Physical Description: Cryst. powder

Melting Point: Mp 384-388°

Solubility: Sol. alkalis

Aldrich: 28281-2

Fluka: 14461

>>Derivative: Di-Me ester

CAS Registry Number: 71071-46-0

Molecular Formula: C₁₄H₁₂N₂O₄

Molecular Weight: 272.26

Accurate Mass: 272.079708

Percentage Composition: C 61.76%; H 4.44%; N 10.29%; O 23.51%

Physical Description: Cryst. (Me₂CO/CHCl₃)

Melting Point: Mp 208-210°

>>Derivative: Di-Et ester

CAS Registry Number: 1762-42-1

Molecular Formula: C₁₆H₁₆N₂O₄

Molecular Weight: 300.313

Accurate Mass: 300.111008

Percentage Composition: C 63.99%; H 5.37%; N 9.33%; O 21.31%

Physical Description: Needles (EtOH)

Melting Point: Mp 158.5-159°

>>Derivative: Dichloride

CAS Registry Number: 72460-28-7

Molecular Formula: C₁₂H₆Cl₂N₂O₂

Molecular Weight: 281.097

Accurate Mass: 279.980632

Percentage Composition: C 51.27%; H 2.15%; Cl 25.22%; N 9.97%; O 11.38%

Use/Importance: The co-polyester with 2,6-diaminopyridine forms a Rh^I complex which acts as a hydrogenation catalyst

Physical Description: Cryst. (heptane)

Melting Point: Mp 141-143°

>>Derivative: Diamide

CAS Registry Number: 100137-02-8

Molecular Formula: C₁₂H₁₀N₄O₂

Molecular Weight: 242.237

Accurate Mass: 242.080376

Percentage Composition: C 59.50%; H 4.16%; N 23.13%; O 13.21%

Physical Description: Cryst. (1,2-ethanediol)

Melting Point: Mp 251 dec.°