



Rare Chemicals Library: S93659-6

>>Derivative: 4-*N*-Me

>>Derivative: 4-*N,N*-Di-Me

Synonym(s): 4-(Dimethylamino)pyridine. **DMAP**‡

CAS Registry Number: 1122-58-3

Extra CAS Registry Numbers(s): 57951-36-7

Molecular Formula: C₇H₁₀N₂

Molecular Weight: 122.169

Accurate Mass: 122.084398

Percentage Composition: C 68.82%; H 8.25%; N 22.93%

Use/Importance: Hypernucleophilic acylation catalyst for hindered alcohols

Physical Description: Plates (EtOH)

Melting Point: Mp 114°

Solubility: V. sol. H₂O

Hazard & Toxicity: Corrosive irritant

Aldrich: 33245-3

Fluka: 39405

Sigma: D5640

>>Derivative: 4-*N,N*-Di-Me, *N*¹-oxide

CAS Registry Number: 1005-31-8

Molecular Formula: C₇H₁₀N₂O

Molecular Weight: 138.169

Accurate Mass: 138.079313

Percentage Composition: C 60.85%; H 7.29%; N 20.27%; O 11.58%

Physical Description: Cryst. (EtOH/EtOAc)

Melting Point: Mp 97-99° (223-225°)

Other Data: One ref. reports the lower Mp as a softening point

>>Derivative: 4-*N,N*-Di-Me, chlorochromate

Synonym(s): 4-(Dimethylamino)pyridinium chlorochromate

CAS Registry Number: 90341-42-7

Molecular Formula: C₇H₁₁ClCrN₂O₃

Molecular Weight: 258.624

Accurate Mass: 257.986329

Percentage Composition: C 32.51%; H 4.29%; Cl 13.71%; Cr 20.10%; N 10.83%; O 18.56%

Use/Importance: Mild oxidising agent for allylic and benzylic alcohols

Physical Description: Cryst.

>>Derivative: 4-*N,N*-Di-Me, tribromide

Synonym(s): 4-(Dimethylamino)pyridinium perbromide

CAS Registry Number: 92976-81-3

Molecular Formula: C₇H₁₁Br₃N₂

Molecular Weight: 362.889

Accurate Mass: 359.907231

Percentage Composition: C 23.17%; H 3.06%; Br 66.06%; N 7.72%

Use/Importance: Mild brominating agent

Physical Description: Cryst. (AcOH)

Melting Point: Mp 131-133°

>>Derivative: 4-*N*-Nitro

Synonym(s): 4-Nitroaminopyridine. *N*-Nitro-4-pyridinamine

Molecular Formula: C₅H₅N₃O₂

Molecular Weight: 139.113

Accurate Mass: 139.038177

Percentage Composition: C 43.17%; H 3.62%; N 30.21%; O 23.00%

Physical Description: Cryst.

References: