



>>Entry Name: 4-Aminopyridine, 8Cl

Synonym(s): 4-Pyridinamine, 9Cl. γ -Pyridylamine. **Fampridine**, INN. 4-AP

CAS Registry Number: 504-24-5

Related CAS Registry Numbers(s): 68969-61-9

Molecular Formula: $C_5H_6N_2$

Molecular Weight: 94.116

Accurate Mass: 94.053098

Percentage Composition: C 63.81%; H 6.43%; N 29.76%

Use/Importance: Catalyst for esterification of alcohols. Bird repellent

Biological Use/Importance: Has been used in treatment of neurological disorders. Potassium channel antagonist. Used as a muscle relaxant antagonist

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 158°

Boiling Point: Bp 273°. Bp₁₂ 180°

Solubility: Sol. H₂O

pKa Value: pK_{a1} 9.11; pK_{a2} -6.55 (25°)

Hazard & Toxicity: LD₅₀ (rat, orl) 20 mg/kg

Aldrich: A7840-3

Fluka: 9370

Sigma: A0152

>>Derivative: Hydrochloride

Synonym(s): Pimadin

CAS Registry Number: 1003-40-3

Physical Description: Cryst. (MeOH)

Melting Point: Mp 240°

>>Derivative: *N*¹-Oxide

CAS Registry Number: 3535-75-9

Molecular Formula: $C_5H_6N_2O$

Molecular Weight: 110.115

Accurate Mass: 110.048013

Percentage Composition: C 54.54%; H 5.49%; N 25.44%; O 14.53%

Physical Description: Cryst. (EtOH/EtOAc)

Melting Point: Mp 235-236° (229°)

>>Derivative: *N*¹-Oxide, picrate

Physical Description: Needles (EtOH)

Melting Point: Mp 203-204°

>>Derivative: 4-*N*-Ac

CAS Registry Number: 5221-42-1

Molecular Formula: $C_7H_8N_2O$

Molecular Weight: 136.153

Accurate Mass: 136.063663

Percentage Composition: C 61.75%; H 5.92%; N 20.57%; O 11.75%

Physical Description: Cryst. + 1H₂O (H₂O)

Melting Point: Mp 150°. Mp 153-154° (anhyd.)

Hazard & Toxicity: LD₅₀ (rat, orl) 446 mg/kg