



>>Entry Name: 4-Methylpyridine, 9CI

Synonym(s): 4-Picoline, 8CI. γ -Picoline

CAS Registry Number: 108-89-4

Extra CAS Registry Numbers(s): 1333-41-1

Molecular Formula: C₆H₇N

Molecular Weight: 93.128

Accurate Mass: 93.057849

Percentage Composition: C 77.38%; H 7.58%; N 15.04%

Use/Importance: Used as mixture with barbituric acid for photometric detn. of CN⁽⁻⁾ ($\lambda_{\max}$ 605 nm). Used as 5% aq. soln. for extraction-photometric detn. of Fe with α -benzildioxime ($\lambda_{\max}$ 559 nm, CHCl₃)

Physical Description: Liq.

Boiling Point: Bp 143.1°

Solubility: Sol. H₂O, EtOH, Et₂O

Density: d₄¹⁵ 0.957

pKa Value: pK_a 5.99 (25°)

Refractive Index: n_D¹⁹ 1.5064

Hazard & Toxicity: Flammable, fl. p. 40°, autoignition temp. 500°. Toxic, irritant. Severe skin and eye irritant. LD₅₀ (rat, orl) 1290 mg/kg

Aldrich: 23961-5

Fluka: 80240

>>Derivative: Hydrobromide

CAS Registry Number: 32353-66-5

Physical Description: Cryst. (EtOAc/EtOH)

Melting Point: Mp 146-148°

>>Derivative: Methiodide

CAS Registry Number: 2301-80-6

Physical Description: Flat prisms (Me₂CO)

Melting Point: Mp 149-150°

Aldrich: 37643-4

Rare Chemicals Library: S39003-8

>>Derivative: Picrate

Melting Point: Mp 167°

>>Derivative: N-Oxide

CAS Registry Number: 1003-67-4

Molecular Formula: C₆H₇NO

Molecular Weight: 109.127

Accurate Mass: 109.052764

Percentage Composition: C 66.04%; H 6.47%; N 12.84%; O 14.66%

Boiling Point: Bp_{0.05} 101-102°

Hazard & Toxicity: Emits highly toxic fumes on heating

Aldrich: P4260-6

Fluka: 80280

References: