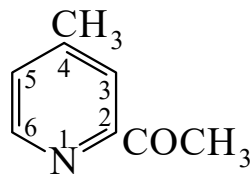




>>Entry Name: 2-Acetyl-4-methylpyridine

Synonym(s): 1-(4-Methyl-2-pyridinyl)ethanone, 9Cl. Methyl 4-methyl-2-pyridyl ketone, 8Cl. 2-Acetyl-4-picoline



CAS Registry Number: 59576-26-0

Related CAS Registry Numbers(s): 18103-84-9

Molecular Formula: C₈H₉NO

Molecular Weight: 135.165

Accurate Mass: 135.068414

Percentage Composition: C 71.09%; H 6.71%; N 10.36%; O 11.84%

Biological Source: Component of tobacco smoke and fig leaf absolute (*Ficus carica*)

Physical Description: Cryst. (petrol)

Melting Point: Mp 33-34°

Boiling Point: Bp₁₅ 95-97°

Solubility: Sol. EtOH

>>Derivative: Oxime (*E*-)

CAS Registry Number: 23089-35-2

Molecular Formula: C₈H₁₀N₂O

Molecular Weight: 150.18

Accurate Mass: 150.079313

Percentage Composition: C 63.98%; H 6.71%; N 18.65%; O 10.65%

Use/Importance: Used as a 0.01*M* soln. in EtOH for photometric detn. of Co ($\lambda_{\max}$ 325 nm, ϵ 11800, EtOH aq.), Cu(*I*) ($\lambda_{\max}$ 409 nm, ϵ 5300, EtOH aq.), extraction-photometric detn. of Fe(*II*) ($\lambda_{\max}$ 541 nm, ϵ 14000, isopentanol)

Physical Description: Cryst. (C₆H₆/petrol)

Melting Point: Mp 98-99°. Mp 125-128°

>>Derivative: Semicarbazone

Physical Description: Solid

Melting Point: Mp 195-198°

References:

Case, F.H. *et al.*, *J.A.C.S.*, 1956, **78**, 5842, (*synth*)

Nishimoto, N. *et al.*, *Yakugaku Zasshi*, 1961, **81**, 88; *CA*, **55**, 13421b, (*synth*)

Case, F.H. *et al.*, *J. Het. Chem.*, 1968, **5**, 161, (*synth, oxime*)

Schilt, A. *et al.*, *Talanta*, 1969, **16**, 448, (*detn, Co, Cu, Fe*)