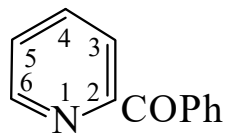




>>Entry Name: 2-Benzoylpyridine

Synonym(s): Phenyl-2-pyridinylmethanone, 9CI. Phenyl 2-pyridyl ketone, 8CI



CAS Registry Number: 91-02-1

Related CAS Registry Numbers(s): 1826-28-4

Molecular Formula: C₁₂H₉NO

Molecular Weight: 183.209

Accurate Mass: 183.068414

Percentage Composition: C 78.67%; H 4.95%; N 7.65%; O 8.73%

Melting Point: Mp 42-44°

Boiling Point: Bp 317°. Bp₁₀ 170-172°

Density: d₀²⁰ 1.156

Hazard & Toxicity: LD₅₀ (mus, ipr) 475 mg/kg

Aldrich: B1400-0

Fluka: 13060

Sigma: B5625

>>Derivative: Picrate

Physical Description: Cryst. (EtOH or Me₂CO)

Melting Point: Mp 130°

>>Derivative: (*E*)-Oxime

CAS Registry Number: 14178-31-5

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Physical Description: Cryst.

Melting Point: Mp 165-167°

>>Derivative: (*Z*)-Oxime

CAS Registry Number: 14178-30-4

Molecular Formula: C₁₂H₁₀N₂O

Molecular Weight: 198.224

Accurate Mass: 198.079313

Percentage Composition: C 72.71%; H 5.08%; N 14.13%; O 8.07%

Use/Importance: Used as 1% soln. in 95% EtOH for photometric detn. of Re (λ_{max} 510 nm, ϵ 7250), Fe; simultaneous extraction-photometric detn. of Au(*III*) and Pd(*II*) (CHCl₃)

Physical Description: Pale-yellow prisms

Melting Point: Mp 150-152°

Solubility: Sol. EtOH, MeOH, acids

>>Derivative: Hydrazone

CAS Registry Number: 56009-91-7

Molecular Formula: C₁₂H₁₁N₃

Molecular Weight: 197.239

Accurate Mass: 197.095297

Percentage Composition: C 73.07%; H 5.62%; N 21.30%

Use/Importance: Used for photometric detn. of Fe(*III*) (λ_{max} 480 nm, ϵ 9550); fluorimetric detn. of Cu(*II*) (λ_{max} 435 nm, pH 9)

Physical Description: Cryst. (EtOAc)

Solubility: Sol. EtOH, Et₂O, Me₂O, EtOAc; insol. H₂O