



>>Entry Name: 3-Benzoylpyridine

Synonym(s): Phenyl-3-pyridinylmethanone, 9Cl. Phenyl 3-pyridyl ketone, 8Cl

CAS Registry Number: 5424-19-1

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%

Physical Description: Cryst.

Melting Point: Mp 42°

Boiling Point: Bp 318-319°. Bp_{2.6} 154-156° (lit. gives a pressure range)

pKa Value: pK_a 3.18 (25°)

Hazard & Toxicity: LD₅₀ (mus, ipr) 460 mg/kg

Aldrich: B1420-5

>>Derivative: Picrate

Physical Description: Needles (EtOH)

Melting Point: Mp 164-166°

>>Derivative: (E)-Oxime

CAS Registry Number: 14178-33-7

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: Prisms (C₆H₆)

Melting Point: Mp 162-163°

Solubility: Insol. H₂O

Other Data: Sol. in dil. HCl, pptd. with Na₂CO₃→ (Z)-form

>>Derivative: (Z)-Oxime

CAS Registry Number: 14178-32-6

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%

Melting Point: Mp 141-143°

Solubility: Spar. sol. H₂O

>>Derivative: Phenylhydrazone

Melting Point: Mp 143.5°

References:

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