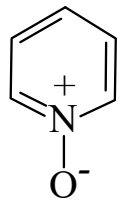
>>**Entry Name: Pyridine *N*-oxide**



CAS Registry Number: 694-59-7

Molecular Formula: C_5H_5NO
Molecular Weight: 95.101
Accurate Mass: 95.037114
Percentage Composition: C 63.15%; H 5.30%; N 14.73%; O 16.82%
Use/Importance: Reagent for oxidative decarboxylation of α-halo acids and carboxylic acids to aldehydes. Used as 20% aq. soln. (acidified with HCl) for extraction-photometric detn. of Au
Physical Description: Solid
Melting Point: Mp 65-66°
Boiling Point: Bp 270°. Bp_{15} 136-140°. Bp_1 100-105°
pKa Value: pK_a 0.82 (2428°,H_2O 24) pK_a 0.79 (25°, H_2SO_4 aq.)
Hazard & Toxicity: LD_{50} (mus, ipr) 1425 mg/kg

Aldrich: 13165-2
Fluka: 82811

>>**Derivative:** Hydrochloride

CAS Registry Number: 16527-88-1
Physical Description: Cryst. (2-propanol)
Melting Point: Mp 179.5-181°

>>**Derivative:** Picrate

Physical Description: Yellow needles
Melting Point: Mp 180.5-182°

>>**Derivative:** Methyl perchlorate

CAS Registry Number: 4329-79-7
Physical Description: Cryst. (EtOH)
Melting Point: Mp 69-70°

References:

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