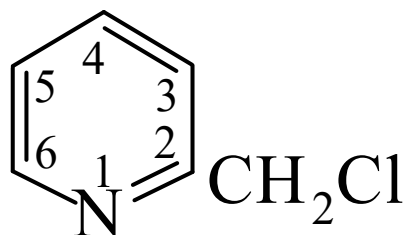




>>Entry Name: 2-(Chloromethyl)pyridine, 9Cl

Synonym(s): ω-Chloro-α-picoline



CAS Registry Number: 4377-33-7

Molecular Formula: C₆H₆ClN

Molecular Weight: 127.573

Accurate Mass: 127.018876

Percentage Composition: C 56.49%; H 4.74%; Cl 27.79%; N 10.98%

Physical Description: Liq.

Boiling Point: Bp₁₀ 73-76°. Bp_{0.5} 45-47°

Refractive Index: n_D²⁰ 1.5365

Other Data: Very unstable

>>Derivative: Hydrochloride

CAS Registry Number: 6959-47-3

Melting Point: Mp 128-129°

Hazard & Toxicity: LD₅₀ (rat, orl) 316 mg/kg. Mutagenic props.

Aldrich: 16270-1

Fluka: 25260

>>Derivative: Picrate

CAS Registry Number: 4377-34-8

Melting Point: Mp 152-153°

>>Derivative: N-Oxide

CAS Registry Number: 31640-94-5

Molecular Formula: C₆H₆ClNO

Molecular Weight: 143.572

Accurate Mass: 143.013791

Percentage Composition: C 50.19%; H 4.21%; Cl 24.69%; N 9.76%; O 11.14%

Use/Importance: Protecting reagent for NH₂ and NH functions

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 75-77°

Boiling Point: Bp_{0.2} 90°

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 626B, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 746D, (ir)

Overhoff, J., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1936, **55**, 293

Mathes, W. *et al.*, *Angew. Chem.*, 1963, **75**, 235, (synth)

Schmid, E.D. *et al.*, *Spectrochim. Acta*, 1966, **22**, 1645, (ir)

Joekle, R. *et al.*, *Z. Naturforsch., A*, 1966, **11**, 1906, (ir)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1975, **5**, 538

Jeromin, G.E. *et al.*, *Chem. Ber.*, 1987, **120**, 649, (synth, pmr)

Loukiala, S. *et al.*, *Acta Chem. Scand.*, 1998, **52**, 593-602, (synth, pmr, cmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PIC000