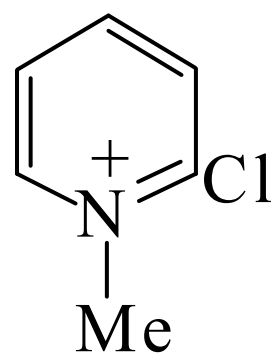




>>Entry Name: 2-Chloro-1-methylpyridinium(1+)



Molecular Formula: C₆H₇ClN⁽⁺⁾

Molecular Weight: 128.581

Accurate Mass: 128.026701

Percentage Composition: C 56.05%; H 5.49%; Cl 27.57%; N 10.89%

>>Derivative: Iodide

Synonym(s): Mukaiyama's reagent

CAS Registry Number: 14338-32-0

Molecular Formula: C₆H₇ClIN

Molecular Weight: 255.485

Accurate Mass: 254.931174

Percentage Composition: C 28.21%; H 2.76%; Cl 13.88%; I 49.67%; N 5.48%

Use/Importance: Mediates a large number of synthetically useful transformations (in the presence of base) particularly of carboxylic acids. Also acts as a thiol detecting agent and a probe for studying protein functions

Physical Description: Hygroscopic yellow cryst. (Me₂CO)

Melting Point: Mp 204-206°

Aldrich: 19800-5

Fluka: 25270

Sigma: C8766

References:

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

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 261B, (*nmr*)

Bald, E., *Chem. Scr.*, 1979, **13**, 108-109, (*use*)

Drewes, S.E. *et al.*, *Hoppe Seyler's Z. Physiol. Chem.*, 1979, **360**, 987-996, (*use*)

Amin, S.G. *et al.*, *Synthesis*, 1979, 210-213, (*synth, use*)

Furukawa, M. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 134-141, (*use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 95; 1992, **16**, 78; 1986, **12**, 116; 1982, **10**, 230; 1984, **11**, 518, (*use*)

Bald, E., *Talanta*, 1980, **27**, 281-282, (*use*)