



>>Entry Name: 6-Chloro-3-pyridinemethanol

Synonym(s): 2-Chloro-5-hydroxymethylpyridine

CAS Registry Number: 21543-49-7

Structure by analogy with 2-Chloro-3-pyridinemethanol, [MBL62-D](#)

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%

Melting Point: Mp 53.8-54.2° (39-40°)

Boiling Point: Bp_{0.4} 120°

>>Derivative: N-Oxide

Molecular Formula: C₆H₆ClNO₂

Molecular Weight: 159.572

Accurate Mass: 159.008706

Percentage Composition: C 45.16%; H 3.79%; Cl 22.22%; N 8.78%; O 20.05%

Physical Description: Solid

Melting Point: Mp 101.1-101.4°

>>Derivative: Methanesulfonyl

Molecular Formula: C₇H₈ClNO₃S

Molecular Weight: 221.664

Accurate Mass: 220.991341

Percentage Composition: C 37.93%; H 3.64%; Cl 15.99%; N 6.32%; O 21.65%; S 14.47%

Physical Description: Solid

Melting Point: Mp 75.6-75.9°

>>Derivative: Methanesulfonyl, N-oxide

Molecular Formula: C₇H₈ClNO₄S

Molecular Weight: 237.663

Accurate Mass: 236.986256

Percentage Composition: C 35.38%; H 3.39%; Cl 14.92%; N 5.89%; O 26.93%; S 13.49%

Physical Description: Oil

References:

Ziegler, F.E. *et al.*, *J.O.C.*, 1969, **34**, 3545, (*synth, ir, pmr*)

Lee, K.C. *et al.*, *J.O.C.*, 1999, **64**, 8576-8581, (*synth, pmr, cmr*)