



>>Entry Name: 3-Chloro-1-propylamine

ENTRY UNDER REVIEW

Synonym(s): 3-Chloropropanamine, 9Cl. 1-Amino-3-chloropropane

CAS Registry Number: 14753-26-5

ClCH2CH2CH2NH2

Molecular Formula: C_3H_8ClN

Molecular Weight: 93.556

Accurate Mass: 93.034526

Percentage Composition: C 38.52%; H 8.62%; Cl 37.89%; N 14.97%

>>Derivative: Hydrochloride

CAS Registry Number: 6276-54-6

Physical Description: Cryst. (Et₂O/EtOH)

Melting Point: Mp 148-150°

Aldrich: 14254-9

Fluka: 26227

>>Derivative: *N*-Di-Me

CAS Registry Number: 109-54-6

Molecular Formula: $C_5H_{12}ClN$

Molecular Weight: 121.609

Accurate Mass: 121.065826

Percentage Composition: C 49.38%; H 9.95%; Cl 29.15%; N 11.52%

Boiling Point: Bp 140°. Bp₁₈ 33-35°

Other Data: n_D 1.4502

>>Derivative: *N*-Di-Me; hydrochloride

CAS Registry Number: 5407-04-5

Melting Point: Mp 142°

Aldrich: D14520-3

Fluka: 39390

Sigma: D6636

>>Derivative: *N,N*-Di-Et

CAS Registry Number: 104-77-8

Molecular Formula: $C_7H_{16}ClN$

Molecular Weight: 149.663

Accurate Mass: 149.097126

Percentage Composition: C 56.18%; H 10.78%; Cl 23.69%; N 9.36%

Boiling Point: Bp₂₀ 65-66°

Density: d_4^{20} 0.93

Refractive Index: n_D^{20} 1.4541

>>Derivative: *N,N*-Di-Et, hydrochloride

CAS Registry Number: 4535-85-7

Melting Point: Mp 82°

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 280D; 282B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 324D; 326B, (*ir*)

Gray, A.P. *et al.*, *J.A.C.S.*, 1955, **77**, 3533-3536, (*N-di-Me*)

Speziale, A.J. *et al.*, *J.A.C.S.*, 1956, **78**, 2556-2559, (*synth*)

Thiele, K.H. *et al.*, *Chem. Ber.*, 1957, **90**, 1578-1586, (*N-di-Me*)

Lespagnol, A. *et al.*, *Bull. Soc. Chim. Fr.*, 1962, 1117-1122, (*N,N-di-Et*)