



>>Entry Name: 2-Amino-1,3-propanediol, 9Cl, 8Cl

Synonym(s): Serinol

CAS Registry Number: 534-03-2

(HOCH₂)₂CHNH₂

Molecular Formula: C₃H₉NO₂

Molecular Weight: 91.11

Accurate Mass: 91.063329

Percentage Composition: C 39.55%; H 9.96%; N 15.37%; O 35.12%

Melting Point: Mp 128°

Boiling Point: Bp 264-265°. Bp_{0.06} 115-120°

Aldrich: 35789-8

>>Derivative: Hydrochloride

CAS Registry Number: 73708-65-3

Melting Point: Mp 104°

Aldrich: 28715-6

Sigma: S2256

>>Derivative: Oxalate

CAS Registry Number: 24070-20-0

Physical Description: Hygroscopic cryst.

Melting Point: Mp 202-203°

Aldrich: 35793-6

>>Derivative: N-Ac

CAS Registry Number: 2655-79-0

Molecular Formula: C₅H₁₁NO₃

Molecular Weight: 133.147

Accurate Mass: 133.073894

Percentage Composition: C 45.10%; H 8.33%; N 10.52%; O 36.05%

Melting Point: Mp 89-90°

>>Derivative: Dibenzyl ether

Molecular Formula: C₁₇H₂₁NO₂

Molecular Weight: 271.358

Accurate Mass: 271.157229

Percentage Composition: C 75.25%; H 7.80%; N 5.16%; O 11.79%

Physical Description: Oil

References:

- Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **1**, 551B, (*nmr*)
den Otter, H.P., *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1938, **57**, 13, (*synth*)
Karrer, P. *et al.*, *Helv. Chim. Acta*, 1948, **31**, 1617, (*oxalate, synth*)
Adkins, H. *et al.*, *J.A.C.S.*, 1948, **70**, 3121, (*synth*)
Langenbeck, W. *et al.*, *Naturwissenschaften*, 1955, **42**, 389, (*synth*)
Foster, A.B. *et al.*, *J.C.S.*, 1958, 1890, (*synth*)
Szammer, J., *Acta Chim. Acad. Sci. Hung.*, 1969, **61**, 417, (*synth*)
Japan. Pat., 1976, 76 67 788; *CA*, **85**, 157975, (*biosynth*)
Rai, B.L. *et al.*, *J. Med. Chem.*, 1998, **41**, 3347-3359, (*dibenzyl ether*)