



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

Synonym(s): Ammediol

CAS Registry Number: 115-69-5

Related CAS Registry Numbers(s): 22451-35-0

$(\text{HOCH}_2)_2\text{C}(\text{NH}_2)\text{CH}_3$

Molecular Formula: $\text{C}_4\text{H}_{11}\text{NO}_2$

Molecular Weight: 105.136

Accurate Mass: 105.078979

Percentage Composition: C 45.70%; H 10.55%; N 13.32%; O 30.44%

Use/Importance: Used as stabilizer in cosmetic and pharmaceutical preparations

Melting Point: Mp 110-112°

Solubility: Sol. H_2O

Hazard & Toxicity: Unsafe for use with nitrosating agents. LD₅₀ (rat, orl) 17000 mg/kg

Aldrich: A6517-4

Fluka: 8570

Sigma: A2676

>>Derivative: Hydrochloride

Melting Point: Mp 190-191°

>>Derivative: Acetate salt

CAS Registry Number: 84820-63-3

Physical Description: Cryst.

Melting Point: Mp 133-134°

>>Derivative: N-Ac

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_3$

Molecular Weight: 147.174

Accurate Mass: 147.089544

Percentage Composition: C 48.97%; H 8.90%; N 9.52%; O 32.61%

Melting Point: Mp 115°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 347B, (ir)

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Jones, J.H., *J. Assoc. Off. Agric. Chem.*, 1944, **27**, 467, (synth)

Rose, H.A. *et al.*, *Anal. Chem.*, 1956, **28**, 1790, (cryst struct)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1969, **2**, 24, (use)

Cardillo, G. *et al.*, *Chem. Comm.*, 1982, 1309, (synth, ir, pmr)

Lu, C.X. *et al.*, *J. Polym. Sci., Part A: Polym. Chem.*, 1987, **25**, 3267; 1990, **28**, 1329, (synth, pmr, deriv)

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