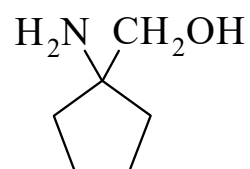




>>Entry Name: 1-Amino-1-cyclopentanemethanol, 9Cl, 8Cl

Synonym(s): Cycloleucinol. 1-Amino-1-hydroxymethylcyclopentane



CAS Registry Number: 10316-79-7

Molecular Formula: C₆H₁₃NO

Molecular Weight: 115.175

Accurate Mass: 115.099714

Percentage Composition: C 62.57%; H 11.38%; N 12.16%; O 13.89%

Physical Description: Liq., part. cryst. as needles

Melting Point: Mp 158-159°

Boiling Point: Bp₁ 68-69°

Hazard & Toxicity: LD₅₀ (mus, ipr) 120 mg/kg

Aldrich: 19227-9

Sigma: C4640

>>Derivative: Hydrochloride

Melting Point: Mp 130-131.5° (softens at 127°). Mp 158-159°

>>Derivative: N-Benzoyl

Molecular Formula: C₁₃H₁₇NO₂

Molecular Weight: 219.283

Accurate Mass: 219.125929

Percentage Composition: C 71.21%; H 7.81%; N 6.39%; O 14.59%

Physical Description: Cryst. (EtOH/Me₂CO)

Melting Point: Mp 230-231.5°

>>Derivative: O-Benzoyl

Molecular Formula: C₁₃H₁₇NO₂

Molecular Weight: 219.283

Accurate Mass: 219.125929

Percentage Composition: C 71.21%; H 7.81%; N 6.39%; O 14.59%

Physical Description: Cryst. (EtOH/Me₂CO)(as hydrochloride)

Melting Point: Mp 230.5-231.5° (hydrochloride)

References:

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 401B, (*ir*)

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 182E, (*ir*)

Adkins, H. *et al.*, *J.A.C.S.*, 1948, **70**, 3121, (*synth*)