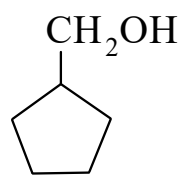




>>Entry Name: Cyclopentanemethanol, 9CI

Synonym(s): Hydroxymethylcyclopentane



CAS Registry Number: 3637-61-4

Molecular Formula: C₆H₁₂O

Molecular Weight: 100.16

Accurate Mass: 100.088815

Percentage Composition: C 71.95%; H 12.08%; O 15.97%

Physical Description: Liq.

Boiling Point: Bp 162-164°. Bp_{14.5} 58-59° (lit. gives a pressure range)

Aldrich: 10398-5

Fluka: 55650

>>Derivative: Ac

CAS Registry Number: 26600-49-7

Molecular Formula: C₈H₁₄O₂

Molecular Weight: 142.197

Accurate Mass: 142.09938

Percentage Composition: C 67.57%; H 9.92%; O 22.50%

Boiling Point: Bp₅ 45-50°

>>Derivative: Phenylurethane

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: Needles (petrol)

Melting Point: Mp 108-108.5°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 229B, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 151D, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 222A, (ir)

Schreyer, R.C., *J.A.C.S.*, 1952, **74**, 3242, (synth)

Dreiding, A.S. *et al.*, *J.A.C.S.*, 1953, **75**, 939, (synth)

Rathke, M.W. *et al.*, *J.A.C.S.*, 1967, **89**, 2740, (synth)

Matsubara, M., *CA*, 1971, **74**, 12667p