



>>Entry Name: 5-Phenyl-1-pentanol

ENTRY UNDER REVIEW

Synonym(s): Benzenepentanol, 9CI. FEMA 3618

CAS Registry Number: 10521-91-2

$\text{Ph}(\text{CH}_2)_4\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_{11}\text{H}_{16}\text{O}$

Molecular Weight: 164.247

Accurate Mass: 164.120115

Percentage Composition: C 80.44%; H 9.82%; O 9.74%

Physical Description: Liq. with a floral odour

Boiling Point: Bp_{20} 155°

Density: d^{20} 0.975

Refractive Index: n_D^{20} 1.5156

Aldrich: W36180-1

Fluka: 78895

>>Derivative: Ac

CAS Registry Number: 75553-28-5

Molecular Formula: $\text{C}_{13}\text{H}_{18}\text{O}_2$

Molecular Weight: 206.284

Accurate Mass: 206.13068

Percentage Composition: C 75.69%; H 8.79%; O 15.51%

Boiling Point: Bp_{12} 155°

>>Derivative: Ph ether

Synonym(s): 1-Phenoxy 5-phenylpentane

Molecular Formula: $\text{C}_{17}\text{H}_{20}\text{O}$

Molecular Weight: 240.344

Accurate Mass: 240.151415

Percentage Composition: C 84.96%; H 8.39%; O 6.66%

Physical Description: Viscous liq.

Boiling Point: Bp_{14} 198°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1156C, (*ir*)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **2**, 391C, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1078A, (*ir*)

Roblin, R.O. *et al.*, *J.A.C.S.*, 1935, **57**, 151, (*synth*)

Hornfeldt, A.B. *et al.*, *Ark. Kemi*, 1963, **21**, 239; *CA*, **59**, 13917, (*synth*)

Hubert, A.J., *J.C.S.(C)*, 1967, 235, (*synth*)

Fenaroli's Handbook of Flavor Ingredients, 3rd edn., (ed. Burdock, G.A.), CRC Press, 1995, **2**, 666

Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 2192-2193