



>>Entry Name: 1-Phenyl-1-hexanone, 9CI

Synonym(s): Hexanophenone, 8CI. Caprophenone. Pentyl phenyl ketone. 1-Benzoylpentane

CAS Registry Number: 942-92-7

PhCO(CH2)4CH3

Molecular Formula: $C_{12}H_{16}O$

Molecular Weight: 176.258

Accurate Mass: 176.120115

Percentage Composition: C 81.77%; H 9.15%; O 9.08%

Physical Description: Leaflets

Melting Point: Mp 24.7°

Boiling Point: Bp 265.2°. Bp₁₅ 122-124°

Aldrich: 31106-5

Sigma: H3387

>>Derivative: Semicarbazone

Melting Point: Mp 132°

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **2**, 804A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 10B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1230A, (*ir*)

Tiffeneau, M. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1926, **183**, 969, (*synth*)

Shriner, R.L. *et al.*, *J.A.C.S.*, 1930, **52**, 1267, (*synth*)

Ju, T.Y. *et al.*, *J. Inst. Pet.*, 1940, **26**, 475, (*synth*)

Mukaiyama, T. *et al.*, *J.A.C.S.*, 1973, **95**, 4763, (*synth*)