



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

Synonym(s): Heptanophenone, 8CI. Hexyl phenyl ketone. Enanthophenone. Oenanthophenone. 1-Benzoylhexane

CAS Registry Number: 1671-75-6

PhCO(CH₂)₅CH₃

Molecular Formula: C₁₃H₁₈O

Molecular Weight: 190.285

Accurate Mass: 190.135765

Percentage Composition: C 82.06%; H 9.53%; O 8.41%

Melting Point: Mp 17°

Boiling Point: Bp₃₄ 173°

Density: d₄²⁰ 0.9505

Aldrich: 15991-3

>>Derivative: Oxime

CAS Registry Number: 69060-57-7

Molecular Formula: C₁₃H₁₉NO

Molecular Weight: 205.299

Accurate Mass: 205.146664

Percentage Composition: C 76.06%; H 9.33%; N 6.82%; O 7.79%

Physical Description: Needles (EtOH)

Melting Point: Mp 55°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 137-139°

References:

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

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

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 854F, (*ir*)

Krafft, F., *Ber.*, 1886, **19**, 2987, (*synth*)

Michnowicz, J. *et al.*, *Org. Mass Spectrom.*, 1972, **6**, 283, (*ms*)