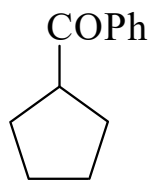




>>Entry Name: Benzoylcyclopentane

Synonym(s): Cyclopentylphenylmethanone, 9Cl. Cyclopentyl phenyl ketone



CAS Registry Number: 5422-88-8

Molecular Formula: C₁₂H₁₄O

Molecular Weight: 174.242

Accurate Mass: 174.104465

Percentage Composition: C 82.72%; H 8.10%; O 9.18%

Physical Description: Oil

Boiling Point: Bp₁₆ 138-140°. Bp_{0.05} 89-90°

Other Data: n_D²⁰ 1.5290, 1.5404

>>Derivative: Oxime

CAS Registry Number: 83568-09-6

Molecular Formula: C₁₂H₁₅NO

Molecular Weight: 189.257

Accurate Mass: 189.115364

Percentage Composition: C 76.16%; H 7.99%; N 7.40%; O 8.45%

Physical Description: Needles (petrol)

Melting Point: Mp 106-108°

>>Derivative: Semicarbazone

Physical Description: Needles (C₆H₆)

Melting Point: Mp 107.5-109.5°

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Yellow cryst. (EtOH)

Melting Point: Mp 142-143°

References:

Hey, D.H. *et al.*, *J.C.S.*, 1949, 3156, (*synth*)

Zhang, P. *et al.*, *Synth. Commun.*, 1986, **16**, 957, (*synth*)