



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

Synonym(s): Octanophenone, 8CI. 1-Benzoylheptane. Caprylophenone. Heptyl phenyl ketone

CAS Registry Number: 1674-37-9

PhCO(CH₂)₆CH₃

Molecular Formula: C₁₄H₂₀O

Molecular Weight: 204.311

Accurate Mass: 204.151415

Percentage Composition: C 82.30%; H 9.87%; O 7.83%

Melting Point: Mp 22.2-23.2°

Boiling Point: Bp₁₅ 164°. Bp_{0.6} 118-120°

Aldrich: 31977-5

>>Derivative: Oxime

Molecular Formula: C₁₄H₂₁NO

Molecular Weight: 219.326

Accurate Mass: 219.162314

Percentage Composition: C 76.67%; H 9.65%; N 6.39%; O 7.29%

Physical Description: Needles

Melting Point: Mp 50°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 3432-37-9

Physical Description: Orange plates (EtOH)

Melting Point: Mp 113-116° (103-103.5°)

References:

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Granito, C. *et al.*, *J.O.C.*, 1963, **28**, 879, (*synth*)

Cope, A.C. *et al.*, *J.A.C.S.*, 1967, **89**, 2932, (*synth*)

Org. Synth., 1973, **53**, 77, (*synth*)

Suzuki, A. *et al.*, *Tet. Lett.*, 1975, 2195, (*synth*)

Wehmeyer, R.M. *et al.*, *Tet. Lett.*, 1988, **29**, 4513, (*synth*)

Kim, Y.H. *et al.*, *Tet. Lett.*, 1989, **30**, 6357, (*synth*)

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