



>>Entry Name: 4-Chloro-1-phenyl-1-butanone, 9Cl

Synonym(s): 4-Chlorobutyrophenone. 1-Benzoyl-3-chloropropane

CAS Registry Number: 939-52-6

Related CAS Registry Numbers(s): 628-20-6

ClCH₂CH₂CH₂COPh

Molecular Formula: C₁₀H₁₁ClO

Molecular Weight: 182.649

Accurate Mass: 182.049842

Percentage Composition: C 65.76%; H 6.07%; Cl 19.41%; O 8.76%

Physical Description: Liq.

Melting Point: Mp 19-20°

Boiling Point: Bp₅ 134-137° (126-129°). Bp_{0.5} 110°

Density: d₂₀²⁰ 1.148

Refractive Index: n_D²⁰ 1.5458

Aldrich: 36344-8

Fluka: 24070

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 21C, (*ir*)

Cloke, J.B., *J.A.C.S.*, 1929, **51**, 1174, (*synth*)

Hart, H. *et al.*, *J.A.C.S.*, 1957, **79**, 931, (*synth*)

Janssen, P.A.J. *et al.*, *J. Med. Chem.*, 1959, **1**, 281, (*synth, use*)

Bordwell, F.G. *et al.*, *J.A.C.S.*, 1964, **86**, 4645, (*synth*)

Pasto, D.J. *et al.*, *J.A.C.S.*, 1965, **87**, 1515, (*synth*)

Seth-Paul, W.A. *et al.*, *Bull. Soc. Chim. Belg.*, 1976, **85**, 49, (*ir*)

Giacomini, E. *et al.*, *J.O.C.*, 1980, **45**, 519, (*synth*)

Talekar, D.G. *et al.*, *Indian J. Chem., Sect. B*, 1986, **25**, 145, (*synth*)