



>>Entry Name: 1-(4-Chlorophenyl)-1-propanone, 9Cl

Synonym(s): 4'-Chloropropiophenone, 8Cl. *p*-Chlorophenyl ethyl ketone

CAS Registry Number: 6285-05-8

Structure by analogy with 1-(2-Chlorophenyl)-1-propanone, [DXD37-O](#)

Molecular Formula: C₉H₉ClO

Molecular Weight: 168.622

Accurate Mass: 168.034192

Percentage Composition: C 64.11%; H 5.38%; Cl 21.02%; O 9.49%

Melting Point: Mp 37-38°

Boiling Point: Bp₃₁ 134-137°. Bp₂ 114-118°

Hazard & Toxicity: LD₅₀ (mus, ipr) 200 mg/kg

Aldrich: C6920-9

>>Derivative: Oxime

CAS Registry Number: 56962-09-5

Molecular Formula: C₉H₁₀ClNO

Molecular Weight: 183.637

Accurate Mass: 183.045091

Percentage Composition: C 58.87%; H 5.49%; Cl 19.31%; N 7.63%; O 8.71%

Melting Point: Mp 62-63°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 222-223°

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 28B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 1248D, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 28C, (*nmr*)

Zenitz, B.L. *et al.*, *J.O.C.*, 1946, **11**, 444, (*synth*)

Beech, W.F., *J.C.S.*, 1954, 1297, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, CKT500