>>**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: C_9H_9ClO
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: Bp_{31} 134-137°. Bp_2 114-118°
Hazard & Toxicity: LD_{50} (mus, ipr) 200 mg/kg

Aldrich: C6920-9

>>**Derivative:** Oxime

CAS Registry Number: 56962-09-5
Molecular Formula: $C_9H_{10}ClNO$
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