>>**Entry Name: 1-(4-Chlorophenyl)-2-propanone**
Synonym(s): (4-Chlorophenyl)acetone

CAS Registry Number: 5586-88-9
Structure by analogy with 1-(2-Chlorophenyl)-2-propanone, BCY84-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%
Physical Description: Pale yellow liq., cryst. on standing
Melting Point: Mp 6-8°
Boiling Point: Bp_3 98°
Density: d_{20}^{20} 1.14
Refractive Index: n_D^{20} 1.5360

Rare Chemicals Library: S62038-6
Other: Oakwood: 2534, PB: C17040

>>**Derivative:** Oxime

CAS Registry Number: 1454-65-5
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%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 55-57°

>>**Derivative:** 2,4-Dinitrophenylhydrazone

CAS Registry Number: 21899-82-1
Physical Description: Cryst. (MeOH)
Melting Point: Mp 125°

>>**Derivative:** Semicarbazone

CAS Registry Number: 16236-49-0
Physical Description: Flakes
Melting Point: Mp 188-189°

References:

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Ferreira, A.B.B. *et al.*, *J.C.S. Perkin 2*, 1978, 995, *(pmr)*
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Kosugi, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 242, *(synth, pmr, ir, ms)*
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