



>>Entry Name: 1-(3-Chlorophenyl)-2-propanone, 9CI

Synonym(s): (3-Chlorophenyl)acetone

CAS Registry Number: 14123-60-5

Structure by analogy with 1-(2-Chlorophenyl)-2-propanone, [BCY84-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%

Physical Description: Liq.

Boiling Point: Bp₂ 89-92°

Refractive Index: n_D²⁰ 1.5335

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 14154-01-9

Physical Description: Orange cryst.

Melting Point: Mp 124-125° (104.5-106.5°)

>>Derivative: Semicarbazone

CAS Registry Number: 14123-61-6

Physical Description: Flakes

Melting Point: Mp 151-152° (142-144°)

References:

Nelson, K.L. *et al.*, *J.A.C.S.*, 1964, **86**, 684, (*synth*)

Basu, U.P. *et al.*, *J.O.C.*, 1967, **32**, 4108, (*synth, derivs*)