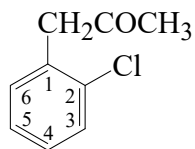




>>Entry Name: 1-(2-Chlorophenyl)-2-propanone, 9Cl

Synonym(s): (2-Chlorophenyl)acetone



CAS Registry Number: 6305-95-9

Molecular Formula: C<sub>9</sub>H<sub>9</sub>ClO

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: Bp<sub>3</sub> 96-98°

Refractive Index: n<sub>D</sub><sup>20</sup> 1.5350

>>Derivative: Oxime

CAS Registry Number: 117891-08-4

Molecular Formula: C<sub>9</sub>H<sub>10</sub>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. (petrol or hexane)

Melting Point: Mp 123-124°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 21899-81-0

Physical Description: Cryst.

Melting Point: Mp 103°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 192-193° (184-185°)

#### References:

Binovic, K. *et al.*, *Chim. Ther.*, 1968, **3**, 313; *CA*, **70**, 87171y, (*synth, deriv*)

Bhattacharya, B., *Indian J. Chem.*, 1968, **6**, 341, (*synth, oxime, semicarbazone*)

Jensen, B.L. *et al.*, *Tet. Lett.*, 1977, **31**, 2639, (*synth*)

Kosugi, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1984, **57**, 242, (*synth, pmr, ir*)