



>>Entry Name: 5-Chloro-2-pentanone, 9Cl

CAS Registry Number: 5891-21-4

H3CCOCH2CH2CH2Cl

Molecular Formula: C₅H₉ClO

Molecular Weight: 120.578

Accurate Mass: 120.034192

Percentage Composition: C 49.81%; H 7.52%; Cl 29.40%; O 13.27%

Physical Description: Liq.

Boiling Point: Bp₂₀ 71-72°

Aldrich: C6260-3

Fluka: 25791

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 131°

>>Derivative: Semicarbazone

Melting Point: Mp 103-104°

>>Derivative: Di-Me ketal

Synonym(s): 1-Chloro-4,4-dimethoxypentane

CAS Registry Number: 56519-61-0

Molecular Formula: C₇H₁₅ClO₂

Molecular Weight: 166.647

Accurate Mass: 166.076057

Percentage Composition: C 50.45%; H 9.07%; Cl 21.27%; O 19.20%

Physical Description: Liq.

Boiling Point: Bp₁₈ 76-79°

>>Derivative: Ethylene ketal

CAS Registry Number: 5978-08-5

Molecular Formula: C₇H₁₃ClO₂

Molecular Weight: 164.631

Accurate Mass: 164.060407

Percentage Composition: C 51.07%; H 7.96%; Cl 21.53%; O 19.44%

Boiling Point: Bp₇ 73-76°

Aldrich: 15155-6

Fluka: 26245

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 398C, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 246C; 417D, (*ir*)

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Henrichs, P.M. *et al.*, *J.O.C.*, 1976, **41**, 362, (*synth*)

Di Bello, N. *et al.*, *Synthesis*, 1978, 227, (*synth*)

Ryckman, D.M. *et al.*, *J.A.C.S.*, 1987, **109**, 4940, (*deriv, synth, ir, pmr, cmr, ms*)

Bergman, N.-A. *et al.*, *J.O.C.*, 1989, **54**, 2137, (*ketal*)