



>>Entry Name: 3-Chloropropanal, 9Cl

Synonym(s): 3-Chloropropionaldehyde

CAS Registry Number: 19434-65-2

ClCH₂CH₂CHO

Molecular Formula: C₃H₅ClO

Molecular Weight: 92.525

Accurate Mass: 92.002892

Percentage Composition: C 38.94%; H 5.45%; Cl 38.32%; O 17.29%

Physical Description: Liq.

Boiling Point: Bp 125-130°. Bp₁₀ 40-50°

Density: d₄¹⁵ 1.268

Refractive Index: n_D¹⁵ 1.4750

Other Data: Readily polymerises.

>>Derivative: Di-Me acetal

Synonym(s): 3-Chloro-1,1-dimethoxypropane

CAS Registry Number: 35502-06-8

Molecular Formula: C₅H₁₁ClO₂

Molecular Weight: 138.593

Accurate Mass: 138.044757

Percentage Composition: C 43.33%; H 8.00%; Cl 25.58%; O 23.09%

Boiling Point: Bp₁₀₀ 86°. Bp₁₉ 51°

>>Derivative: Di-Et acetal

Synonym(s): 3-Chloro-1,1-diethoxypropane

CAS Registry Number: 35573-93-4

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%

Boiling Point: Bp₂₅ 84°. Bp₁₅ 66°

Density: d 0.99

Refractive Index: n_D²⁰ 1.4210

References:

Hartung, W.H. *et al.*, *J.A.C.S.*, 1927, **49**, 2521, (*synth*)

Org. Synth., 1931, **11**, 26, (*synth*)

Kirrmann, A. *et al.*, *Bull. Soc. Chim. Fr.*, 1935, **2**, 2143

Galy, J.-P. *et al.*, *Bull. Soc. Chim. Fr.*, 1971, 4582-4587, (*di-Et acetal*)

Holazy, S. *et al.*, *Tet. Lett.*, 1978, 3971, (*synth*)