



>>Entry Name: 1-Chloropentane, 9CI

Synonym(s): *n*-Amyl chloride. Pentyl chloride

CAS Registry Number: 543-59-9

H3CCH2CH2CH2CH2Cl

Molecular Formula: C5H11Cl

Molecular Weight: 106.595

Accurate Mass: 106.054927

Percentage Composition: C 56.34%; H 10.40%; Cl 33.26%

Physical Description: Liq.

Melting Point: Mp -99°

Boiling Point: Bp 108.4° . Bp₁₀ 4.9°

Density: d_4^{30} 0.872

Refractive Index: n_D^{18} 1.4119

Hazard & Toxicity: Highly flammable, fl. p. 1°

Aldrich: 23837-6

Fluka: 25770

Sigma: C5529

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 84C, (*nmr*)

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Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 85A, (*ir*)

Lieben, A. *et al.*, *Annalen*, 1871, **159**, 70, (*synth*)

Schrumpf, G. *et al.*, *Chem. Ber.*, 1973, **106**, 266, (*pmr*)

Matsuura, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1979, **52**, 2512, (*ir, Raman*)

Deno, N.C. *et al.*, *J.O.C.*, 1979, **44**, 3728, (*synth*)

Holmes, J.L. *et al.*, *Org. Mass Spectrom.*, 1990, **25**, 381, (*ms*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, PBW500