



>>Entry Name: 2-Chloro-2-methylpropane, 9CI

ENTRY UNDER REVIEW

Synonym(s): *tert*-Butyl chloride. 2-Chloroisobutane

CAS Registry Number: 507-20-0

(H₃C)₃CCl

Molecular Formula: C₄H₉Cl

Molecular Weight: 92.568

Accurate Mass: 92.039277

Percentage Composition: C 51.90%; H 9.80%; Cl 38.30%

Physical Description: Liq.

Melting Point: Fp -27.1°

Boiling Point: Bp 52°

Density: d¹⁵ 0.847

Refractive Index: n_D²⁰ 1.3856

Other Data: Solid exists in three phases

Hazard & Toxicity: Highly flammable, fl. p. 0°

Aldrich: C5635-2

Fluka: 19780

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 99B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 67B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 96A, (*ir*)

Org. Synth., Coll. Vol., 1, 1932, 144, (*synth*)

Farnworth, E. *et al.*, *Can. J. Spectrosc.*, 1972, **17**, 103, (*pmr*)

Olah, G.A. *et al.*, *Synthesis*, 1974, **9**, 653, (*synth*)

Jensen, F.R. *et al.*, *J.A.C.S.*, 1975, **97**, 2281, (*synth*)

San Filippo, J. Jr. *et al.*, *J.O.C.*, 1975, **40**, 3295, (*synth*)

Colosimo, M. *et al.*, *Org. Mass Spectrom.*, 1982, **17**, 286, (*ms*)

Pitkänen, M. *et al.*, *Org. Magn. Reson.*, 1984, **22**, 543, (*cmr*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, BQR000