



>>Entry Name: Sodium trichloroacetate

Synonym(s): Trichloroacetic acid, sodium salt, 8Cl. 2,2,2-Trichloroethanoic acid, sodium salt

CAS Registry Number: 650-51-1

NaOCCl₃

Molecular Formula: C₂Cl₃NaO₂

Molecular Weight: 185.369

Accurate Mass: 183.886153

Percentage Composition: C 12.96%; Cl 57.38%; Na 12.40%; O 17.26%

Source/Synthesis: Synth. by neutralisation of Na₂CO₃ by aq. CCl₃COOH. Manuf. by two stage chlorination of Me₂CO followed by digestion with aq. NaOH

Use/Importance: Commercially available. Herbicide. Component of some thermal recording papers

Physical Description: White powder

Melting Point: Mp 300°

Solubility: Sol. H₂O

Hazard & Toxicity: Irritant

Aldrich: 19078-0

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 550C, (*ir*)

Leopold, A.C., *Weeds*, 1960, **8**, 48; *CA*, **54**, 21608b, (*soly*)

Ambrus, T. *et al.*, *Rev. Chim. (Bucharest)*, 1963, **14**, 506; *CA*, 1964, **60**, 6739f, (*manuf*)

Spinner, E., *J.C.S.*, 1964, 4217, (*ir, Raman*)

Hartman, K.A., *J. Chem. Phys.*, 1966, **70**, 270, (*pmr*)

Kanekar, C.R. *et al.*, *Proc. Chem. Symp.*, 1st, 1969, **2**, 265; *CA*, 1971, **74**, 69746, (*ir*)

Hashimoto, M., *Chem. Lett.*, 1975, 1325, (*Cl-35 nqr*)

Evsikov, V.D., *CA*, 1984, **101**, 105719, (*use, herbicide*)

Japan. Pat., 1984, 59 150 792; *CA*, 1985, **102**, 140978, (*use*)

Sigma-Aldrich Library of Chemical Safety Data, 1988, **2**, 3402D, (*haz*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TII500