



>>Entry Name: Trimethylsilyl trichloroacetate

Synonym(s): Trichloroacetic acid trimethylsilyl ester, 9Cl, 8Cl

CAS Registry Number: 25436-07-1

$\text{Cl}_3\text{CCOOSiMe}_3$

Molecular Formula: $\text{C}_5\text{H}_9\text{Cl}_3\text{O}_2\text{Si}$

Molecular Weight: 235.569

Accurate Mass: 233.943738

Percentage Composition: C 25.49%; H 3.85%; Cl 45.15%; O 13.58%; Si 11.92%

Source/Synthesis: Synth. from Me_3SiCl + Cl_3CCOOH

Use/Importance: Synthetic reagent

Melting Point: Mp 18.7°

Boiling Point: Bp₅₂ 108°. Bp₁₀ 69°

Aldrich: 23505-9

Fluka: 91272

References:

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **3**, 689C, (*nmr*)

Pola, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1977, **42**, 1540, (*ir, pmr, Si-29 nmr*)

Drake, J.E. *et al.*, *Inorg. Chem.*, 1977, **16**, 1682, (*synth, ir*)

Matsumoto, H. *et al.*, *Chem. Lett.*, 1979, 1011, (*use*)

Hergot, H.H. *et al.*, *Synthesis*, 1980, 626, (*synth, use*)