



>>Entry Name: Trifluoroiodomethane, 9CI

Synonym(s): Freon 13I1

CAS Registry Number: 2314-97-8

F₃CI

Molecular Formula: CF₃I

Molecular Weight: 195.911

Accurate Mass: 195.899682

Percentage Composition: C 6.13%; F 29.09%; I 64.78%

Use/Importance: Fire-extinguishing agent. Radical trifluoromethylating reagent

Boiling Point: Bp -22.5°

Aldrich: 17144-1

References:

- Aldrich Library of FT-IR Spectra: Vapor Phase*, 1989, **3**, 121A, (*ir*)
Hauptschein, M. *et al.*, *J.A.C.S.*, 1951, **73**, 2461; 1952, **74**, 1347, (*synth, ir*)
Haszeldine, R.N., *J.C.S.*, 1951, 584, (*synth*)
Muller, N. *et al.*, *J. Phys. Chem.*, 1963, **67**, 112, (*nmr*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 1228
Paskovich, P.G. *et al.*, *J.O.C.*, 1967, **32**, 833, (*synth*)
Beattie, W.H., *Appl. Spectrosc.*, 1975, **29**, 334; *CA*, **83**, 124838n, (*ms*)
Su, D.-B. *et al.*, *Chem. Comm.*, 1992, 807, (*synth*)