



>>Entry Name: 1,1,1-Trifluoro-2-iodoethane, 8CI

Synonym(s): 2,2,2-Trifluoroethyl iodide

CAS Registry Number: 353-83-3

Related CAS Registry Numbers(s): 93347-76-3

$\text{F}_3\text{CCH}_2\text{I}$

Molecular Formula: $\text{C}_2\text{H}_2\text{F}_3\text{I}$

Molecular Weight: 209.938

Accurate Mass: 209.915332

Percentage Composition: C 11.44%; H 0.96%; F 27.15%; I 60.45%

Use/Importance: Shows anaesthetic props.

Boiling Point: Bp 54-55°

Density: d_4^{25} 2.142

Refractive Index: n_D^{25} 1.3980

Hazard & Toxicity: Synth. using HI gives a violent reaction

Aldrich: 17781-4

Fluka: 91693

Sigma: T9022

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 90C, (*ir*)

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 126B, (*nmr*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 122C, (*ir*)

Gilman, H. *et al.*, *J.A.C.S.*, 1943, **65**, 2037, (*synth, haz*)

Haszeldine, R.N., *J.C.S.*, 1953, 2622, (*uv*)

Ward, C.R. *et al.*, *J. Mol. Spectrosc.*, 1964, **12**, 289, (*ir, Raman, props*)

Harnish, D.F. *et al.*, *Appl. Spectrosc.*, 1970, **24**, 28, (*ir*)

Burke, T.E. *et al.*, *J. Magn. Reson.*, 1970, **3**, 55, (*F-19 nmr*)

Boschi, R.A. *et al.*, *Mol. Phys.*, 1972, **24**, 735, (*uv*)

Lopata, A.D. *et al.*, *J. Raman Spectrosc.*, 1977, **6**, 61, (*Raman*)

Kirk-Othmer Encycl. Chem. Technol., 3rd edn., Wiley, 1978, **10**, 868, (*props*)