



>>Entry Name: **1,1,1,2,3,3,3-Heptafluoro-2-iodopropane**, 9CI

Synonym(s): Heptafluoroisopropyl iodide

CAS Registry Number: 677-69-0

Related CAS Registry Numbers(s): 27636-85-7

$\text{F}_3\text{CCFICF}_3$

Molecular Formula: $\text{C}_3\text{F}_7\text{I}$

Molecular Weight: 295.926

Accurate Mass: 295.893294

Percentage Composition: C 12.18%; F 44.94%; I 42.88%

Use/Importance: Forms oil/water repellant coatings; chain transfer agent for polymn. of fluorine-contg. monomers

Melting Point: Fp -61°

Boiling Point: Bp 38° (40-42 $^\circ$)

Density: d_4^{20} 2.07721

Refractive Index: n_D^{20} 1.3283

Aldrich: 34201-7

Fluka: 77276

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 132A, (*nmr*)

Hauptschein, M. *et al.*, *J.A.C.S.*, 1961, **83**, 2383, (*synth, ir*)

Miller, W.T. *et al.*, *J.A.C.S.*, 1961, **83**, 4105, (*synth*)

Chambers, R.D. *et al.*, *J.C.S.*, 1961, 3779, (*synth, ir*)

Krespan, C.G., *J.O.C.*, 1962, **27**, 1813, (*synth, F-19 nmr*)

Fainberg, A.H. *et al.*, *J.O.C.*, 1965, **30**, 864, (*props*)

Sartori, P. *et al.*, *Chem. Ber.*, 1971, **104**, 2813, (*synth*)

Ashton, D.S. *et al.*, *J. Chromatogr.*, 1974, **90**, 315, (*chromatog*)

Naae, D.G. *et al.*, *Org. Mass Spectrom.*, 1974, **9**, 1203, (*ms*)

Eujen, R. *et al.*, *J. Fluorine Chem.*, 1983, **22**, 263, (*F-19 nmr*)

Fokin, A.V. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1985, 2298, (*synth, F-19 nmr*)

Probst, A. *et al.*, *J. Fluorine Chem.*, 1987, **37**, 223, (*tox*)