



>>Entry Name: 1,1,1,2,2,3,3,4,4,5,5,6,6-Tridecafluoro-6-iodohexane, 9CI

Synonym(s): Tridecafluoro-1-iodohexane, 8CI. Perfluorohexyl iodide

CAS Registry Number: 355-43-1

$\text{F}_3\text{C}(\text{CF}_2)_4\text{CF}_2\text{I}$

Molecular Formula: $\text{C}_6\text{F}_{13}\text{I}$

Molecular Weight: 445.95

Accurate Mass: 445.883712

Percentage Composition: C 16.16%; F 55.38%; I 28.46%

Use/Importance: Telomerises with ethylenic compds.

Boiling Point: Bp 117°. Bp₁₀₅ 59-60°

Refractive Index: n_D²⁰ 1.3220

Hazard & Toxicity: Explosive reaction with Na metal when refluxed

Aldrich: 26214-5

Fluka: 77274

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 91C, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 130B, (*ir*)

Haszeldine, R.N., *J.C.S.*, 1952, 4259; 1953, 1764, (*synth, uv*)

Nodiff, E.A. *et al.*, *J.O.C.*, 1953, **18**, 235, (*props*)

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

Ovenall, D.W. *et al.*, *J. Magn. Reson.*, 1977, **25**, 361, (*cmr*)

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

Bretherick, L., *Handbook of Reactive Chemical Hazards, 4th edn.*, Butterworths, 1990, 1937