



>>Entry Name: 1,1-Dichloro-1,2,2,2-tetrafluoroethane

Synonym(s): Fluorocarbon 114a. Frigen 114A

CAS Registry Number: 374-07-2

Extra CAS Registry Numbers(s): 1320-37-2

F_3CCFCl_2

Molecular Formula: $\text{C}_2\text{Cl}_2\text{F}_4$

Molecular Weight: 170.921

Accurate Mass: 169.931316

Percentage Composition: C 14.05%; Cl 41.48%; F 44.46%

Use/Importance: Refrigerant component

Melting Point: Fp -56.6°

Boiling Point: Bp 3°

Density: d_4^{25} 1.455

Refractive Index: n_D^0 1.3092

Hazard & Toxicity: High conc. narcotic

References:

Nielsen, J.R. *et al.*, *J. Chem. Phys.*, 1953, **21**, 383, (*ir*, *Raman*)

Goldwhite, H. *et al.*, *J.C.S.*, 1961, 3825, (*synth*, *ir*)

Vecchio, M. *et al.*, *J. Fluorine Chem.*, 1974, **4**, 117, (*synth*)

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*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DGL600