



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

Synonym(s): Fluorocarbon 124a

CAS Registry Number: 354-25-6

Related CAS Registry Numbers(s): 63938-10-3

$\text{F}_2\text{CClCHF}_2$

Molecular Formula: C_2HClF_4

Molecular Weight: 136.476

Accurate Mass: 135.970289

Percentage Composition: C 17.60%; H 0.74%; Cl 25.98%; F 55.68%

Use/Importance: Propellant, working fluid for Rankine cycle pumps. Refrigerant component with low ozone depletion potential

Melting Point: Mp -117°

Boiling Point: Bp -10.2° . Bp -13°

Density: d_4^{20} 1.379

References:

Henne, A.L. *et al.*, *J.A.C.S.*, 1936, **58**, 402, (*synth*)

Cuculo, J.A. *et al.*, *J.A.C.S.*, 1952, **74**, 710, (*synth*)

Klaboe, P. *et al.*, *J. Chem. Phys.*, 1961, **34**, 1819, (*ir, Raman*)

Smart, B.E. *et al.*, *Kirk-Othmer Encycl. Chem. Technol.*, 4th edn., Wiley, 1991, **11**, 506, (*props*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CLH000