



>>Entry Name: 1,2-Dibromo-1-chloro-1,2,2-trifluoroethane, 9Cl
Synonym(s): 2-Chloro-1,2-dibromo-1,1,2-trifluoroethane. Freon 113B2

CAS Registry Number: 354-51-8
F2CBrCBrClF

Molecular Formula: C2Br2ClF3
Molecular Weight: 276.278
Accurate Mass: 273.840733
Percentage Composition: C 8.69%; Br 57.84%; Cl 12.83%; F 20.63%

>>Variant: (±)-form

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Molecular Weight: 276.278
Accurate Mass: 273.840733
Percentage Composition: C 8.69%; Br 57.84%; Cl 12.83%; F 20.63%
Use/Importance: Refrigerant (CFC). Aerosol propellant
Melting Point: Mp -72.8°
Boiling Point: Bp $93-94^{\circ}$
Density: d^{20}_{20} 2.248232
Refractive Index: n^{20}_D 1.4270

References:

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Drysdale, J.J. *et al.*, *J.A.C.S.*, 1957, **79**, 319, (*synth, F nmr*)
Dean, R.R. *et al.*, *Trans. Faraday Soc.*, 1968, **64**, 1409, (*pmr, F nmr*)
Norris, R.D. *et al.*, *J.A.C.S.*, 1973, **95**, 182, (*F nmr*)
Naae, D.G. *et al.*, *Org. Mass Spectrom.*, 1974, **9**, 1203, (*ms*)
Majer, V. *et al.*, *Coll. Czech. Chem. Comm.*, 1981, **46**, 817, (*props*)
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