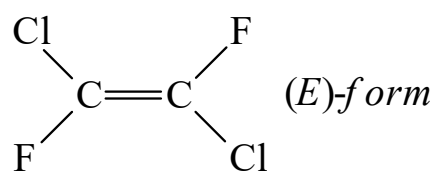




>>Entry Name: 1,2-Dichloro-1,2-difluoroethylene

Synonym(s): Fluorocarbon 1112



CAS Registry Number: 598-88-9

Related CAS Registry Numbers(s): 311-81-9 27156-03-2

Molecular Formula: C₂Cl₂F₂

Molecular Weight: 132.924

Accurate Mass: 131.93451

Percentage Composition: C 18.07%; Cl 53.34%; F 28.59%

Hazard & Toxicity: Eye, skin and mucous membrane irritant

>>Variant: (E)-form

CAS Registry Number: 381-71-5

Molecular Formula: C₂Cl₂F₂

Molecular Weight: 132.924

Accurate Mass: 131.93451

Percentage Composition: C 18.07%; Cl 53.34%; F 28.59%

Melting Point: Mp -93.3°. Fp -110.3°

Boiling Point: Bp 22°

Density: d₄⁰ 1.494

>>Variant: (Z)-form

CAS Registry Number: 311-81-9

Molecular Formula: C₂Cl₂F₂

Molecular Weight: 132.924

Accurate Mass: 131.93451

Percentage Composition: C 18.07%; Cl 53.34%; F 28.59%

Melting Point: Mp -119.6°. Fp -130.5°

Boiling Point: Bp 21.1°

Density: d₄⁰ 1.495

References:

Mann, D.E. *et al.*, *J. Chem. Phys.*, 1957, **26**, 773, (*ir, Raman*)

Stacey, M. *et al.*, *Adv. Fluorine Chem.*, Butterworths, London, 1963, **3**, 175

Craig, N.C. *et al.*, *J.A.C.S.*, 1965, **87**, 4223, (*synth, ir, Raman*)

Synatka, B.G. *et al.*, *Zh. Org. Khim.*, 1972, **8**, 1553, (*ms*)

Takada, K. *et al.*, *Org. Magn. Reson.*, 1977, **9**, 116, (*F-19 nmr*)

Modena, S. *et al.*, *J. Fluorine Chem.*, 1985, **30**, 109, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DFA200