



>>Entry Name: 1-Fluoro-3-vinylbenzene

Synonym(s): 1-Ethenyl-3-fluorobenzene, 9Cl. 3-Fluorostyrene, 8Cl. (3-Fluorophenyl)ethylene

CAS Registry Number: 350-51-6

Structure by analogy with 1-Fluoro-2-vinylbenzene, [KNM90-Z](#)

Molecular Formula: C₈H₇F

Molecular Weight: 122.142

Accurate Mass: 122.053178

Percentage Composition: C 78.67%; H 5.78%; F 15.55%

Physical Description: Liq.

Boiling Point: Bp₁₃ 40-41°. Bp₄ 30-31°

Solubility: Insol. H₂O; sol. EtOH, Et₂O, C₆H₆

Density: d₄²⁰ 1.025

Refractive Index: n_D²⁰ 1.5170

Other Data: Polym. in uv light

Aldrich: 21945-2

Sigma: F6001

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 139A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1018B, (*ir*)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 950D, (*ir*)

Laitinen, H.A. *et al.*, *J.A.C.S.*, 1947, **69**, 2707, (*uv*)

Org. Synth., Coll. Vol., 3, 1955, 204, (*synth*)

Natta, G. *et al.*, *Makromol. Chem.*, 1958, **28**, 253, (*polym*)

Taft, R.W. *et al.*, *J.A.C.S.*, 1963, **85**, 709, (*F-19 nmr*)

Fateley, W.G. *et al.*, *Appl. Spectrosc.*, 1968, **22**, 650, (*ir*)

Dewar, M.J.S. *et al.*, *J. Chem. Phys.*, 1968, **49**, 499, (*F-19 nmr*)

Doddrell, D. *et al.*, *J.C.S. Perkin 2*, 1976, 402, (*cmr*)

Schaefer, T. *et al.*, *Can. J. Chem.*, 1985, **63**, 24; 1990, **68**, 1383, (*cmr, F-19 nmr, conformn*)