



>>Entry Name: 1-Fluoro-4-vinylbenzene

Synonym(s): 1-Ethenyl-4-fluorobenzene, 9Cl. 4-Fluorostyrene, 8Cl. (4-Fluorophenyl)ethylene

CAS Registry Number: 405-99-2

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.

Melting Point: Fp -34.5°

Boiling Point: Bp 296°. Bp₂₅ 68-69°. Bp₄ 29-30°

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

Density: d₄²⁰ 1.023

Refractive Index: n_D²⁰ 1.5140

Other Data: Polym. by radical, cationic and Ziegler-Natta mechanisms. Coml. samples contain an inhibitor, e.g. 4-*tert*-butylcatechol. Rate for radical polym., k_p 112 L mol⁻¹ s⁻¹, k_t 1.27 x 10⁻⁴ L mol⁻¹ s⁻¹ (30°)

Aldrich: 15579-9

Fluka: 47490

Sigma: F6126

References:

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