



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

Synonym(s): 1-Ethenyl-3-methylbenzene, 9Cl. *m*-Methylstyrene, 8Cl. *m*-Tolylethylene. 3-Vinyltoluene. (3-Methylphenyl)ethylene

CAS Registry Number: 100-80-1

Related CAS Registry Numbers(s): 39294-88-7

Extra CAS Registry Numbers(s): 1319-73-9

Molecular Formula: C₉H₁₀

Molecular Weight: 118.178

Accurate Mass: 118.07825

Percentage Composition: C 91.47%; H 8.53%

Melting Point: Mp -86.3°

Boiling Point: Bp 171.6°. Bp₁₈ 61-62°

Density: d₂₀²⁰ 0.903

Refractive Index: n_D²⁰ 1.5411

Other Data: Solidifies on standing. Coml. samples contain a polym. inhibitor, e.g. 3,5-di-*tert*-butylcatechol. Undergoes radical, cationic and Ziegler-Natta polym. Q/e values for copolym., Q 1.57, e -0.03

Hazard & Toxicity: Irritant

Aldrich: 18467-5

Fluka: 69191

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 26C, (*nmr*)

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Clements, H.E. *et al.*, *J.A.C.S.*, 1953, **75**, 1593, (*props*)

Schwartzmann, L.H. *et al.*, *J.A.C.S.*, 1956, **78**, 322

Sianesi, D., *Gazz. Chim. Ital.*, 1959, **89**, 1749

Stothers, J.B. *et al.*, *Can. J. Chem.*, 1965, **43**, 510

Dubois, J.E. *et al.*, *J. Chim. Phys. Phys.-Chim. Biol.*, 1967, **64**, 1145, (*pmr*)

Hirohara, H. *et al.*, *J.C.S. Faraday I*, 1972, **68**, 58, (*anionic polym*)

Greenley, R.Z. *et al.*, *J. Macromol. Sci., Chem., Part A*, 1980, **14**, 427, (*Q/e values*)

Kawamura, T. *et al.*, *Makromol. Chem.*, 1982, **183**, 125, (*polym*)

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