



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

Synonym(s): 1-Ethenyl-4-methylbenzene, 9Cl. *p*-Methylstyrene, 8Cl. *p*-Tolyethylene. 4-Vinyltoluene. (4-Methylphenyl)ethylene

CAS Registry Number: 622-97-9

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%

Source/Synthesis: Manuf. by dehydrogenation of 4-ethyltoluene or from toluene and acetaldehyde

Use/Importance: Polystyrene comonomer

Melting Point: Mp -34.1°

Boiling Point: Bp 172-178°. Bp₁₂ 59-60°

Density: d₄¹⁶ 0.9

Refractive Index: n_D²⁰ 1.5420

Other Data: Coml. samples contain a polym. inhibitor, e.g. hydroquinone. Q/e values for copolym., Q 1.10, e -0.63. Rate for radical polym., *k*_p 84 L mol⁻¹ s⁻¹, *k*_t 6.6 x 10⁻⁵ L mol⁻¹ s⁻¹ (30°)

Hazard & Toxicity: Irritant. LD₅₀ (rat, orl) 2255 mg/kg

Aldrich: M8080-6

Fluka: 69200

References:

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