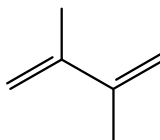




>>Entry Name: **2,3-Dimethyl-1,3-butadiene**, 9CI

Synonym(s): 2,3-Dimethylerythrene. Diisopropenyl. Biisopropenyl



CAS Registry Number: 513-81-5

Molecular Formula: C<sub>6</sub>H<sub>10</sub>

Molecular Weight: 82.145

Accurate Mass: 82.07825

Percentage Composition: C 87.73%; H 12.27%

Use/Importance: Monomer for synthetic rubber. Not important industrially. The first source of synthetic rubber for tyres

Physical Description: Liq.

Melting Point: Mp -76°

Boiling Point: Bp 69-70°

Solubility: Insol. H<sub>2</sub>O; sol. CCl<sub>4</sub>

Density: d<sub>4</sub><sup>20</sup> 0.726

Refractive Index: n<sub>D</sub><sup>20</sup> 1.4377

Other Data: Vp 405 mmHg (25°). Polym. on heating; hydroquinone is added as a stabiliser. Q/e values for polym.: Q 1.42, e -0.43

**Hazard & Toxicity:** Autoxidation residue, a polymeric peroxide, explodes violently on ignition. Respiratory tract irritant

Aldrich: 14549-1

Fluka: 39720

#### References:

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