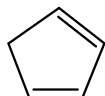




>>Entry Name: 1,3-Cyclopentadiene, 9CI



CAS Registry Number: 542-92-7

Related CAS Registry Numbers(s): 2143-53-5 12127-83-2

Molecular Formula: C₅H₆

Molecular Weight: 66.102

Accurate Mass: 66.04695

Percentage Composition: C 90.85%; H 9.15%

Use/Importance: Diels-Alder reagent

Physical Description: Liq.

Melting Point: Mp -85°

Boiling Point: Bp 41-42°

Solubility: Insol. H₂O; sol. CS₂, AcOH, petrol; misc. EtOH, C₆H₆, Et₂O, CCl₄

Density: d₄¹⁵ 0.805

pKa Value: pK_a 15

Refractive Index: n_D¹⁹ 1.4446

Other Data: Dimerises at r.t. Forms monomer on heating. Best prepd. immediately before use. Store below -20° to minimise dimerisation. Undergoes cationic polym. or copolym.

Hazard & Toxicity: Extremely flammable, fl. p. <3°. Can dimerise explosively. Forms unstable peroxides with O₂. Prolonged or repeated exposure can cause headache, gastrointestinal and hepatic effects, and anaemia

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