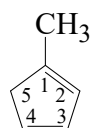




>>Entry Name: 1-Methyl-1,3-cyclopentadiene



CAS Registry Number: 96-39-9

Extra CAS Registry Numbers(s): 26519-91-5

Molecular Formula: C₆H₈

Molecular Weight: 80.129

Accurate Mass: 80.0626

Percentage Composition: C 89.94%; H 10.06%

Source/Synthesis: Mixt. of 1-methyl and 2-methyl isomers obt. by thermal cracking of commercial dimer

Physical Description: Liq.

Boiling Point: Bp₇₄₇ 72.5-73°

Density: d₄²⁰ 0.81

Refractive Index: n_D²⁰ 1.4512

UV: [neutral] λ_{max} 250 () (heptane)

Other Data: Undergoes rapid dimerisation on heating. Forms equilib. mixt. with 2-Methyl-1,3-cyclopentadiene [FWO74-P](#) on standing. Phys. props. are for an equilibrated mixt. of isomers

References:

Csicsery, S.M., *J.O.C.*, 1960, **25**, 518-521, (*synth, ir, uv*)

Mironov, V.A. *et al.*, *Tetrahedron*, 1963, **19**, 1939-1958, (*synth, uv*)

Thommen, W. *et al.*, *Helv. Chim. Acta*, 1989, **72**, 1346-1353, (*dimers*)

Stille, J.R. *et al.*, *J.O.C.*, 1990, **55**, 843-862, (*synth*)

Stammen, B. *et al.*, *J.O.C.*, 1992, **57**, 6566-6575, (*synth, pmr*)