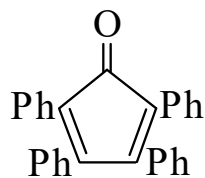




>>Entry Name: 2,3,4,5-Tetraphenyl-2,4-cyclopentadien-1-one, 9Cl, 8Cl

Synonym(s): Tetracyclone. Cyclone



CAS Registry Number: 479-33-4

Molecular Formula: C₂₉H₂₀O

Molecular Weight: 384.476

Accurate Mass: 384.151415

Percentage Composition: C 90.60%; H 5.24%; O 4.16%

Use/Importance: Diels-alder diene for synth. of bridged and cage structures

Physical Description: Dark-violet needles

Melting Point: Mp 220-221°

Aldrich: T2580-1

Fluka: 88030

>>Derivative: Phenylhydrazone

Physical Description: Deep-purple cryst. (dioxan aq.)

Melting Point: Mp 266-268°

Other Data: Cannot be prepd. directly from the parent ketone and phenylhydrazine

References:

- Aldrich Library of ¹³C and ¹H FT NMR Spectra*, 1992, **2**, 801B, (*nmr*)
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 8A, (*ir*)
Ziegler, K. *et al.*, *Annalen*, 1925, **445**, 266, (*synth*)
Org. Synth., Coll. Vol., 3, 1955, 806, (*synth*)
Pauson, P. *et al.*, *J.C.S.*, 1961, 4162, (*synth*)
Kurreck, H. *et al.*, *Chem. Ber.*, 1965, **98**, 11, (*synth, uv*)
Ogliaruso, M. *et al.*, *Chem. Rev.*, 1965, **65**, 261, (*rev*)
Beynon, J. *et al.*, *Chem. Comm.*, 1966, 237, (*ms*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1974, **4**, 490
Hansen, P. *et al.*, *Org. Magn. Reson.*, 1979, **12**, 43, (*cmr*)