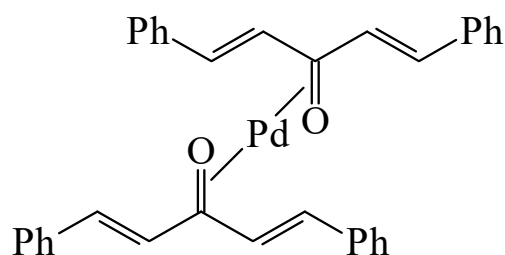




>>Entry Name: Bis(η^2 -1,5-diphenyl-1,4-pentadien-3-one)palladium, 9Cl

Synonym(s): Bis(dibenzylideneacetone)palladium(0). (Dba)₂Pd



CAS Registry Number: 32005-36-0

Related CAS Registry Numbers(s): 33677-55-3

Molecular Formula: C₃₄H₂₈O₂Pd

Molecular Weight: 575.014

Accurate Mass: 574.112408

Percentage Composition: C 71.02%; H 4.91%; O 5.56%; Pd 18.51%

General Statement: Struct. may be ketonic bonded as shown, but olefinic bonding has also been postulated

Source/Synthesis: Synth. from Na₂PdCl₄ and dibenzylideneacetone

Use/Importance: Catalyses allylic alkylation of olefins, cyclopropene oligomerisations, reactions of nitro-aromatics with CO, arylation of ethene, and cycloadditions of olefins and methylenecyclopropane

Physical Description: Brownish solid

Melting Point: Mp 135 dec.°

References:

Takahashi, Y. *et al.*, *Chem. Comm.*, 1970, 1065, (*synth, ir*)

Moseley, K. *et al.*, *Chem. Comm.*, 1971, 982, (*ir, uv*)

Compr. Coord. Chem., Pergamon, 1987, **6**, 280, (*reactions*)

Rubezhov, A.Z., *Russ. Chem. Rev. (Engl. Transl.)*, 1988, **57**, 2078, (*rev*)