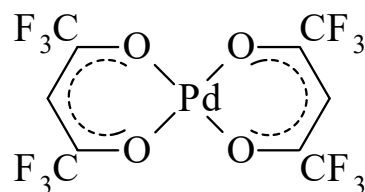




>>Entry Name: Bis(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)palladium(II), 10Cl

Synonym(s): Bis(hexafluoroacetylacetonato)palladium(II). Palladium(II) hexafluoroacetylacetonate. Pd(hfac)₂



CAS Registry Number: 64916-48-9

Molecular Formula: C₁₀H₂F₁₂O₄Pd

Molecular Weight: 520.524

Accurate Mass: 519.879624

Percentage Composition: C 23.07%; H 0.39%; F 43.80%; O 12.29%; Pd 20.44%

General Statement: Square planar struct.

Use/Importance: Can be used to deposit Pd thin films

Physical Description: Yellow needles (subl.). Large red needles (hexane). Orange plates (MeOH)

Melting Point: Mp 99.6°

Boiling Point: Subl. 50° *in vacuo*

Solubility: Sol. many org. solvs.

Other Data: Many studies of reactions with donor molecules. Ligands can be displaced by other anions

Aldrich: 40147-1

Fluka: 76062

Other: Gelest AKP595

References:

- Siedle, A.R. *et al.*, *Inorg. Chem.*, 1980, **19**, 2052; 1981, **20**, 3399; 1983, **22**, 2281, (*synth, cryst struct, ir, uv, pmr, cmr, F-19 nmr, reactions*)
Okeya, S. *et al.*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 1085, (*synth, ir, pmr, cmr, F-19 nmr*)
Behr, A. *et al.*, *Organometallics*, 1986, **5**, 514, (*reactions*)
Lin, W. *et al.*, *J.A.C.S.*, 1996, **118**, 5977, (*use*)
Jeon, N.L. *et al.*, *Langmuir*, 1997, **13**, 3833, (*use*)