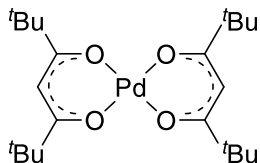


Catalog # 46-0248 Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)palladium(II), min. 98% [Pd(TMHD)2]



### Catalysis Applications

Technical Notes:

1. Catalyst used for coupling Suzuki, Heck, Sonogashira, and cyanation reactions [1]

References:

1. [Tetrahedron 2008, 64, 3655](#)

### CVD/ALD Applications

Thermal Behavior:

- Melting point: 238-240°C [1-3]
- Sublimation: 101°C/0.3 Torr [2]
- TGA diagram and data is available in [1-2]

Technical Notes:

1. Used for palladium thin films/nanoparticle deposition.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Pd	ALD	180°C	37-75 Torr	H <sub>2</sub>	90°C	4
	ALD	120°C	7.5 Torr	O <sub>3</sub> then H <sub>2</sub>	130-160°C	5
PdO	ALD	120°C	7.5 Torr	O <sub>3</sub>	130-160°C	5

References:

1. [J. Therm. Anal. Cal. 2001, 64, 1171.](#)
2. [Inorg. Chim. Acta, 2004, 357, 3871.](#)
3. [Tetrahedron 2008, 64, 3655.](#)
4. [Appl. Catal. A, 2003, 241, 51.](#)
5. [Thin Solid Films, 2013, 531, 243.](#)