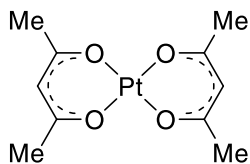


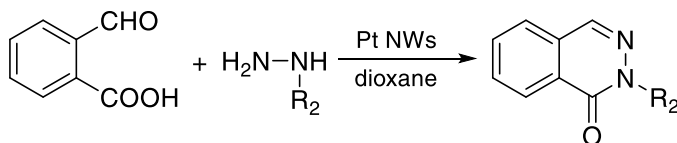
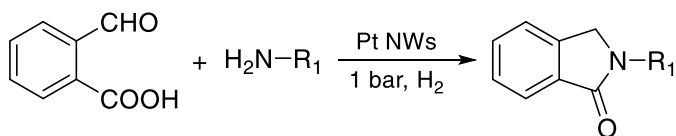
Catalog # 78-1400 Platinum(II) acetylacetonate, 98%



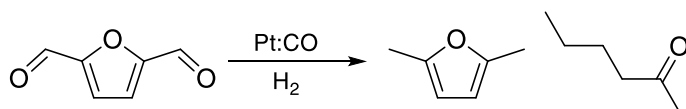
Catalysis Applications

Technical Notes:

1. Widely used for synthesis various Pt based heterogeneous catalysts used in energy related processes [1-7]
2. Used in the synthesis of *N*-substituted isoindolinones and phthalazinones
3. Used in the highly selectivity catalytic hydrodeoxygenation of 5-hydroxymethylfurfural



Tech Note (2)
Ref. (8)



Tech Note (3)
Ref. (9)

References:

1. [Nat. Mater., 2013, 12, 765.](#)
2. [Science, 2015, 348, 1230.](#)
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4. [Science 2016, 354, 1410.](#)
5. [Nat. Commun., 2016, 7, 11850.](#)
6. [J. Amer. Chem. Soc., 2018, 140, 1142.](#)
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9. [ACS Catal. 2016, 6, 4095.](#)

CVD/ALD Applications

Thermal Behavior:

- Decomposition at 237°C [1-2], 239°C [3]
- Vapor Pressure 3.75 Torr/210°C [1-2]
- TGA curve and data are available in [4]

- Sublimation: 110°C/7.5 Torr [5]

Technical Notes:

1. ALD/CVD precursor for Pt thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Pt	ALD	155°C	0.75 Torr	H ₂	250°C	4
PtO _x	ALD	110°C	7.5 Torr	O ₃	120-200°C	5
Pt	ALD	110°C	7.5 Torr	O ₃ , H ₂	200°	6
Pt:Co	MOCVD	180°C	7.5 Torr	Co(acac) ₃	180°C	7

References:

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2. [Mater. Trans., 2003, 44, 1717.](#)
3. [Green Chem., 2005, 7, 333.](#)
4. [Appl. Surf. Sci., 2000, 157, 151.](#)
5. [Chem. Mater. 2008, 20, 6840.](#)
6. [Thin Solid Films 2013, 531, 243.](#)
7. [J. Catal., 2014, 309, 38.](#)