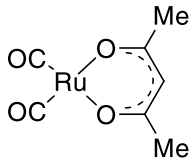
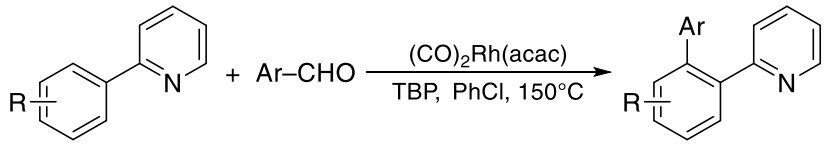
Catalog # 45-0700 Dicarbonylacetylacetonato rhodium(I), 99%



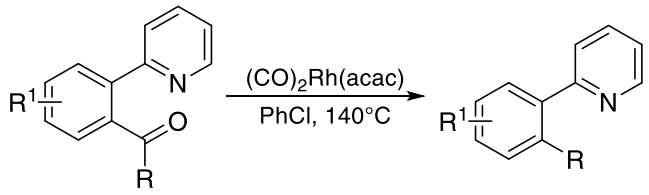
Catalysis Applications

Technical Notes:

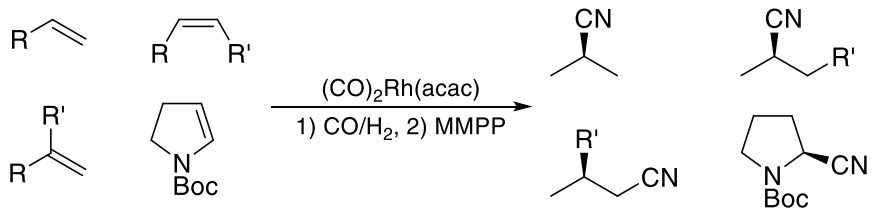
1. Highly efficient hydroformylation catalyst for wide range of olefins [1-5]
2. Used in Rh-catalyzed oxidative C–H arylation of 2-arylpyridine derivatives via decarbonylation of aromatic aldehydes
3. Catalyst for C–C bond cleavage directed by a pyridine group via decarbonylation of aryl ketones
4. Catlyst for asymmetric cyanide-free hydrocyanation of alkenes
5. Used for Rh-catalyzed aldehyde arylation via formate-mediated transfer hydrogenation



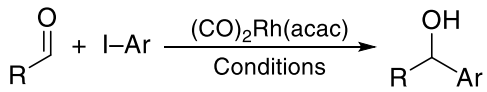
Tech Note (2)
Ref. (6)



Tech Note (3)
Ref. (7)



Tech Note (4)
Ref. (8)



Tech Note (5)
Ref. (9)

References:

1. *J. Am. Chem. Soc.* **2010**, *132*, 14027
2. *Angew. Chem. Int. Ed.* **2012**, *51*, 2477
3. *Green Chem.* **2016**, *18*, 2995
4. *Angew. Chem. Int. Ed.* **2017**, *56*, 310
5. *J. Am. Chem. Soc.* **2018**, *140*, 4977
6. *J. Am. Chem. Soc.* **2010**, *132*, 12212
7. *Angew. Chem. Int. Ed.* **2012**, *51*, 2690

8. *Angew. Chem. Int. Ed.* **2019**, *58*, 10928
9. *J. Am. Chem. Soc.* **2019**, *141*, 1828
10. *J. Am. Chem. Soc.* **2019**, *141*, 6864

CVD/ALD Applications

Thermal Behavior:

- melting point 144-147°C subl

Technical Notes:

1. ALD/CVD precursor for Rh thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Rh	CVD CVD	85°C 70°C	100 Torr -	H_2 H_2	100°C 500°C	1 2

References:

1. *Appl. Organometal. Chem.* **1998**, *12*, 161
2. *Appl. Catal. A*, **2008**, *346*, 126