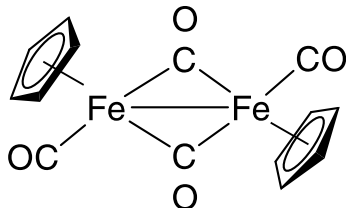


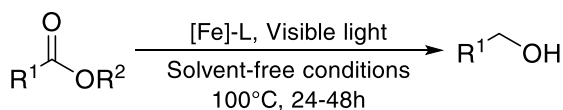
Catalog # 26-0900 Cyclopentadienyliron dicarbonyl dimer, 99%



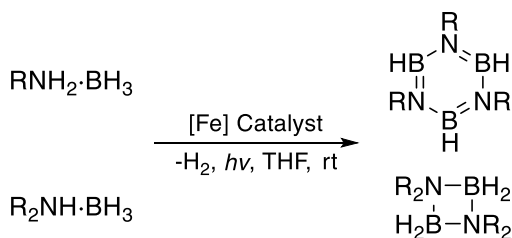
Catalysis Applications

Technical Notes:

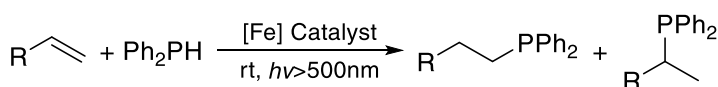
1. Catalyst used for hydrosilylation of esters catalyzed
2. Catalyst for dehydrocoupling/dehydrogenation of primary and secondary amine-boranes
3. Catalyst for hydrophosphination of alkenes
4. Catalyst for selective N-methylation and N-formylation of amines with CO₂
5. Component of cooperative copper/iron catalyst for regioselective 1,4-hydroboration of pyridine derivatives and quinoline with pinacolborane



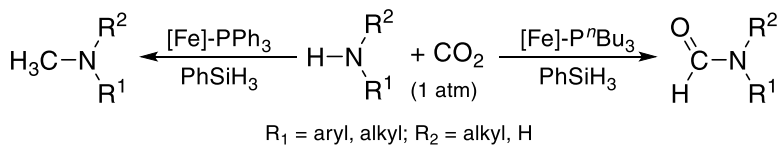
Tech Note (1)
Ref. (1)



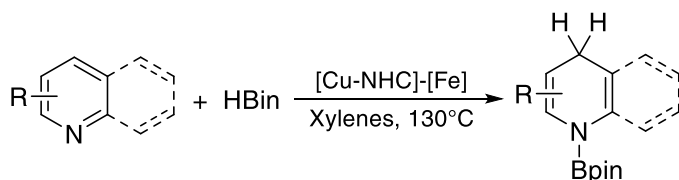
Tech Note (2)
Ref. (2)



Tech Note (3)
Ref. (3)



Tech Note (4)
Ref. (4)



Tech Note (5)
Ref. (5)

References:

1. [Adv. Synth. Catal. 2012, 354, 1879.](#)
2. [J. Am. Chem. Soc. 2014, 136, 3048.](#)
3. [Organometallics 2017, 36, 3891.](#)
4. [Adv. Synth. Catal. 2019, 361, 5098.](#)
5. [ACS Catal. 2020, 10, 3670.](#)

CVD/ALD Applications

Thermal Behavior:

- Decomposition at 194°C

Technical Notes:

1. CVD precursor for iron containing film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
(-Fe-O-C ₆ H ₄ -O-)n	ALD/MLD	135°C	1.5-3 Torr	Hydroquinone H ₂ O	150-290°C	1
BiFeO ₃	CVD	THF solution	-	BiCl ₃	300°C	2

References:

1. [Dalton Trans. 2015, 44, 19194.](#)
2. [J. Mater. Chem. A, 2014, 2, 2922.](#)