

HOMOGENEOUS CATALYSIS
Ir-115

A core activity of Johnson Matthey's **Catalyst Innovation Program** is the identification and economic scale up of key catalysts having a broad application for pharmaceutical processes. Recently we have developed an efficient process for the **commercial supply** of $[\text{Ir}(\text{Cp}^*)\text{Cl}_2]_2$.

This versatile catalyst has a variety of applications including:

- Conversion of alcohols to amides
- Hydrogenation of pyridines
- Alkylation of amines
- C-H Activation
- Dehydrogenation of alcohols

Description: dichloro(pentamethylcyclopentadienyl)iridium(III)dimer

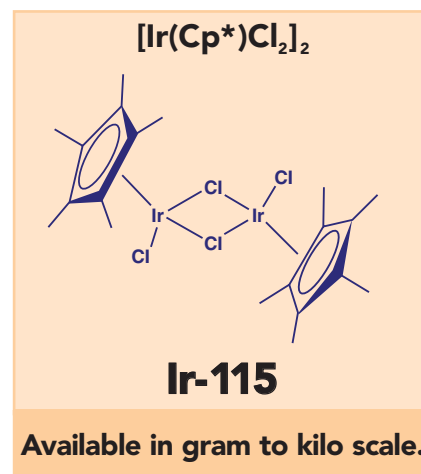
Chemical Formula: $[\text{C}_5(\text{CH}_3)_5\text{IrCl}_2]_2$

CAS: 12354-84-6

Mol Wt: 796.67

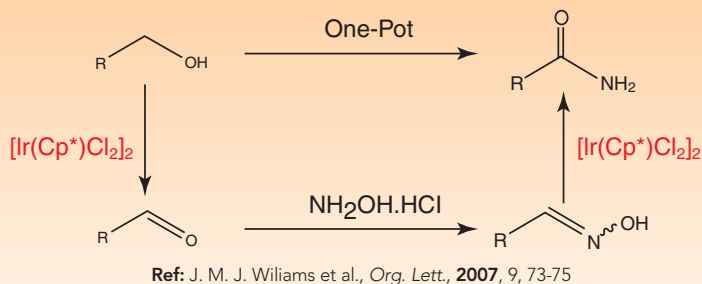
Color & Form: Orange crystal

Stability: Air & moisture stable

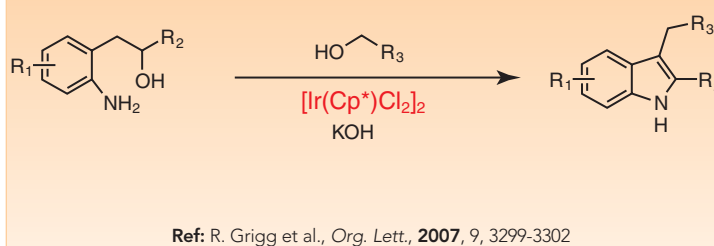


Applications

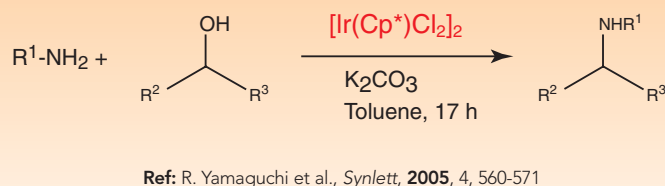
Conversion of Alcohols to Amides via Oximes



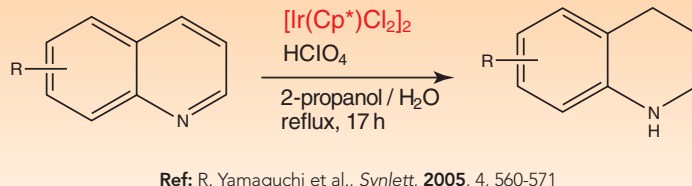
Synthesis of Substituted Indoles



N-Alkylation of Amines with Alcohols



Transfer Hydrogenation of Quinolines



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