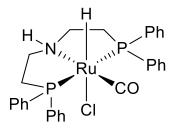
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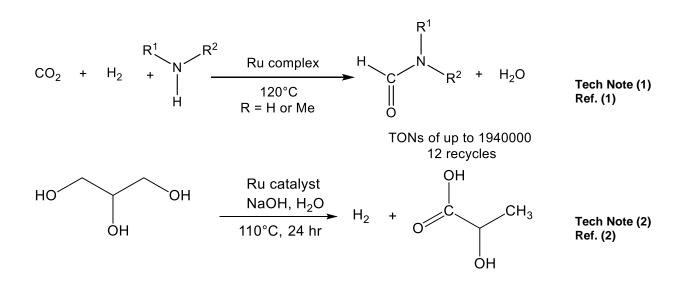


 $\label{eq:carbonylchlorohydrido{bis[2-(diphenylphosphinomethyl)ethyl]amino} ruthenium(II), \\ min.98\% \ Ru-MACHO^{\circledast}$



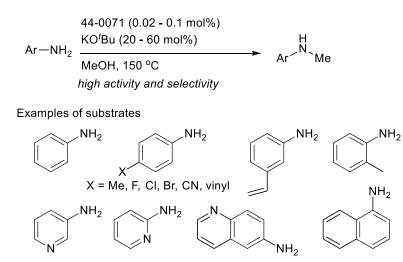
Technical Notes:

- 1. Highly efficient ruthenium-catalyzed N-formylation of amines with hydrogen and carbon dioxide.
- 2. Ruthenium- catalyzed hydrogen generation from glycerol and selective synthesis of lactic acid.
- 3. Effective catalyst for hydrogen transfer reaction catalyzing the *N*-monomethyation of aromatic amines with methanol. Various aromatic amines are transformed into their corresponding monomethylated secondary amines in the presence of potassium tert-butoxide.



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Tech Note (3) Ref. (3)

References:

- 1. Angew. Chem., Int. Ed., 2015, 54, 6186.
- 2. Green Chem., 2015, 17, 193.
- 3. Org. Lett. 2018, 20, 3866–3870.