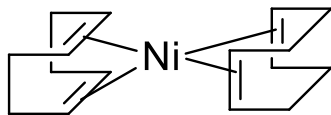
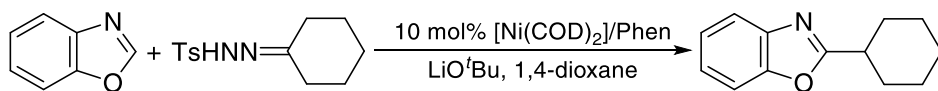


Catalog # 28-0010 Bis(1,5-cyclooctadiene)nickel (0), 98+%

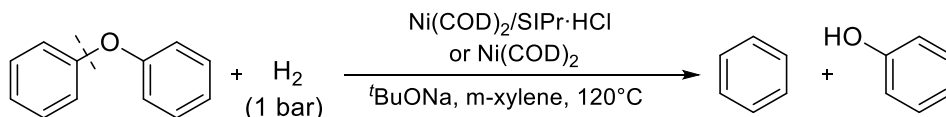


Technical Notes

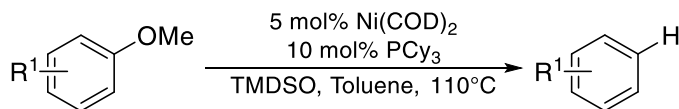
1. Pre-catalyst for the coupling of benzoxazole with N-tosylhydrazone.
2. Catalyst precursor for heterogeneously nickel-catalysed hydrogenolysis of aryl ethers without arene hydrogenation.
3. Pre-catalyst for reductive cleavage of C-OMe bonds with silanes as reducing agents.
4. Pre-catalyst for the cross-coupling reactions of benzylic pivalates with arylboroxines.
5. Pre-catalyst for the cross-coupling of benzylic carbamates with arylboronic esters.
6. Pre-catalyst for the direct arylation of C(sp³)-H Bonds in aliphatic amides via bidentate-chelation.
7. Pre-catalyst for the cross-coupling reactions of potassium alkoxyalkyl- and benzyltrifluoroborates with an array of aryl bromides and co-catalyzed by iridium photoredox catalyst under visible light at ambient temperature.
8. Pre-catalyst for highly regioselective indoline synthesis, co-catalyzed by Ruthenium photoredox catalyst.
9. Catalyst for conversion of amides to esters via the activation of amide C-N bonds.
10. Catalyst for borylation of aryl fluorides via C-F cleavage.
11. Catalyst for Suzuki-Miyaura coupling of amides.
12. Catalyst for the cross-coupling reaction of the aryl methyl ether alkylation.



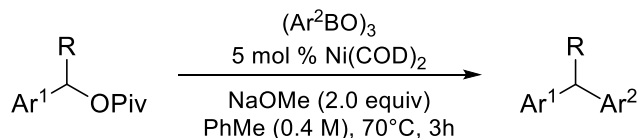
Tech. Note. (1)
Ref. (1)



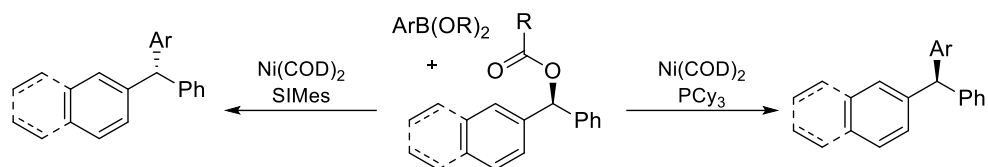
Tech. Note. (2)
Ref. (2)



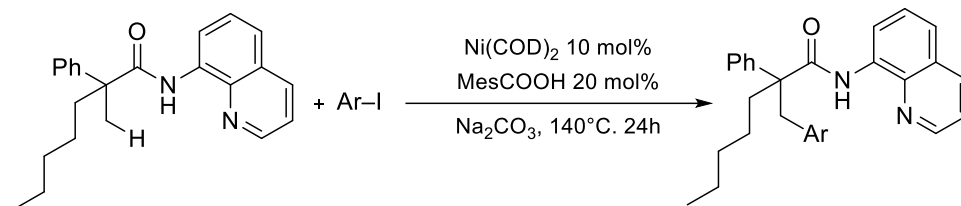
Tech. Note. (3)
Ref. (3)



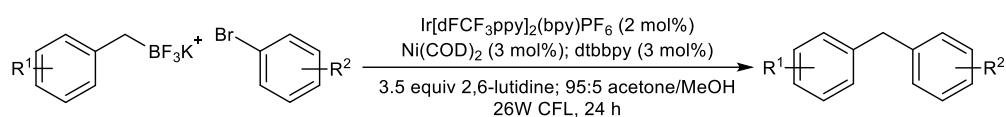
Tech. Note. (4)
Ref. (4)



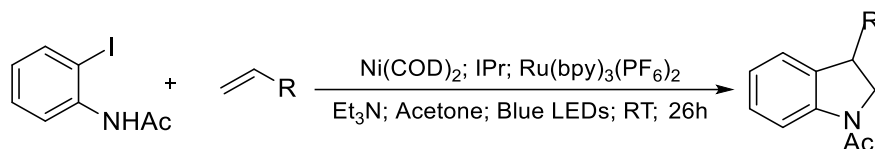
Tech. Note. (5)
Ref. (5)



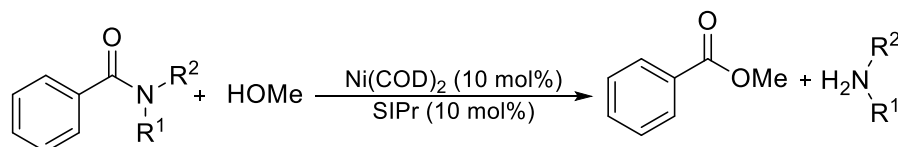
Tech. Note. (6),
Ref. (6)



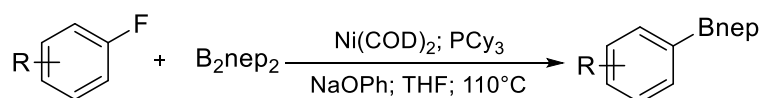
Tech. Note. (7),
Ref. (7)



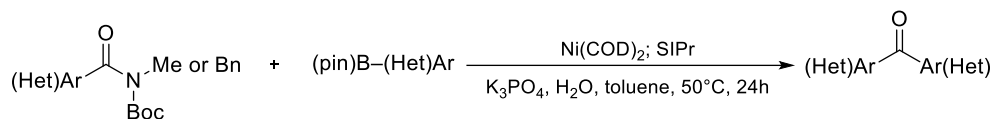
Tech. Note. (8),
Ref. (8)



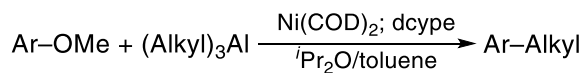
Tech. Note. (9),
Ref. (9)



Tech. Note. (10),
Ref. (10)



Tech. Note. (11),
Ref. (11)



Tech. Note. (12),
Ref. (12)

References:

1. *Angew. Chem. Int. Ed.*, **2012**, 51, 775.
2. *J. Am. Chem. Soc.*, **2012**, 134, 20226.
3. *J. Am. Chem. Soc.*, **2013**, 135, 1997.
4. *J. Am. Chem. Soc.*, **2013**, 135, 3307.

5. *J. Am. Chem. Soc.*, **2013**, *135*, 3303.
6. *J. Am. Chem. Soc.*, **2014**, *136*, 898.
7. *Science*, **2014**, *345*, 433.
8. *J. Am. Chem. Soc.*, **2015**, *137*, 9531.
9. *Nature*, **2015**, *524*, 79.
10. *J. Am. Chem. Soc.*, **2015**, *137*, 12470.
11. *Nature Chemistry*, **2016**, *8*, 75.
12. *Angew. Chem. Int. Ed.*, **2016**, *55*, 6093.