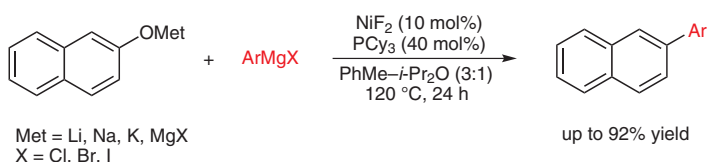
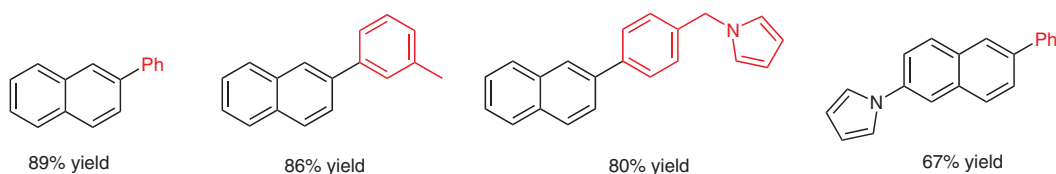


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 Direct Application of Phenolic Salts to Nickel-Catalyzed Cross-Coupling Reactions with Aryl Grignard Reagents
Angew. Chem. Int. Ed. **2010**, *49*, 4566-4570.

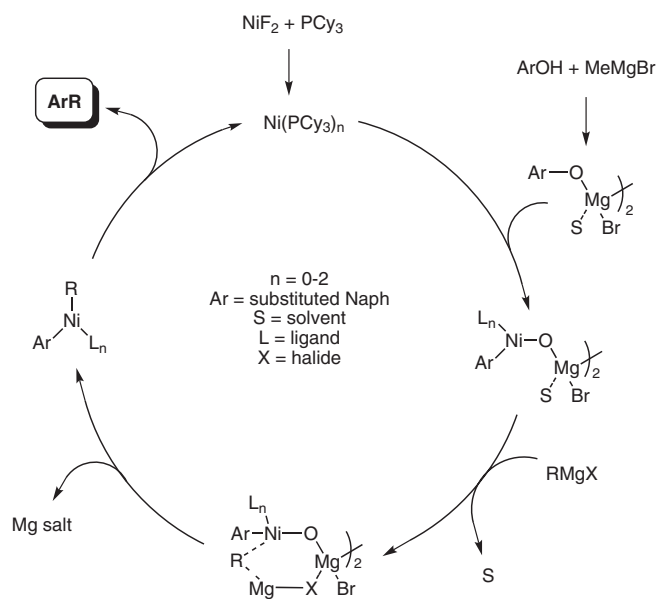
Nickel-Catalyzed Cross-Coupling of Aryl Grignard Reagents to Phenolate Salts



Selected examples:



Catalytic pathway:



Significance: The first successful cross-coupling of 2-naphthol metal salts with various aryl Grignard reagents has been demonstrated. The process is atom-economical and gives a convenient access to various naphthalene derivatives.

Comment: It is important to note that the halide substituent on the Grignard reagent is critical to the reaction and a bromide was found to be the best. The most efficient solvent system is a mixture of toluene and diisopropyl ether (3:1), most likely because these solvents retain the metallic core framework due to their low coordinating ability.

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