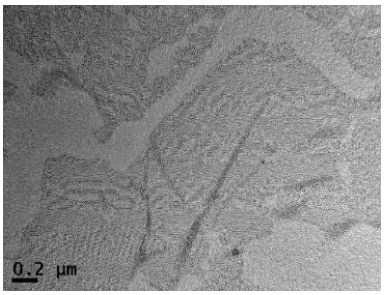
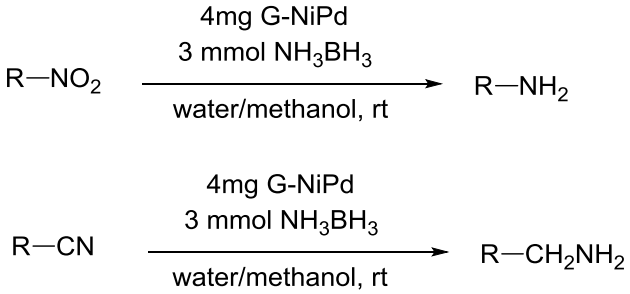
Strem Chemicals, Inc. www.strem.com

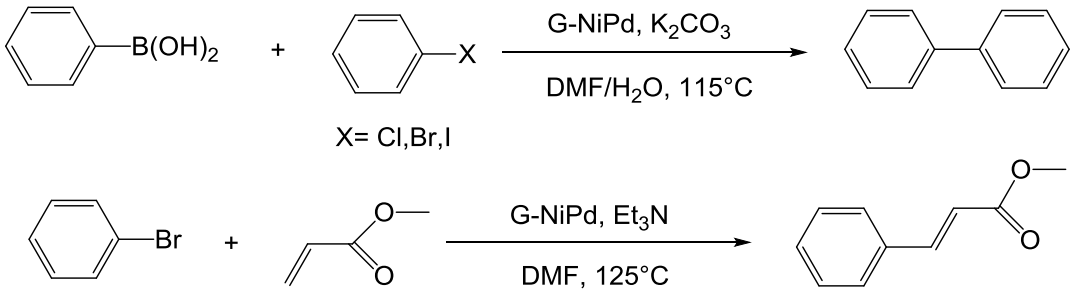
Catalog # 28-0015 Nickel/palladium alloy nanoparticle on graphene (G-Ni33Pd67)

Technical Notes:

1. NiPd NPs are useful catalysts for the tandem dehydrogenation of ammoniaborane and hydrogenation of R-NO_2 or R-CN to R-NH_2. NiPd nanoparticles also catalyze Suzuki-Miyaura and Heck cross-coupling reactions. The product is synthesized via the borane reduction of nickel and palladium salts in oleylamine, followed by dispersing the resulting mixture of Ni/Pd nanoparticles on graphene. The catalyst is 100% recyclable and shows no drop in catalytic activity after one month, when stored in air or argon at ambient temperatures.







References:

1. *Nano Research*, **2013**, *6*, 10.
2. *ACS Catal*., **2014**, *4*, 1777.