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Catalog # 28-0178 Chloro(4-cyanophenyl)[(R)-1-[(S)-2-[bis(4-fluorophenyl]phosphino]ferrocenyl]ethyldi-tert-butylphosphine]nickel(II)

Technical Notes:

- 1. Versatile air-stable low cost nickel catalyst alternative to palladium for carbon-carbon and carbon-heteroatom cross-coupling reactions.
- 2. Used to react substituted aryl and heteroaryl halides and tosylates with ammonia to produce diverse aryl and heteroaryl amines¹
- 3. Used in monoarylation experiments using commercially available ammonia gas, ammonium salts or ammonia stock solutions^{2,3}
- 4. Catalyzes the coupling of aryl chlorides with gaseous amines in the form of their hydrochloride salts³

References:

- 1. Org. Process Res. Dev., 2015, 19, 1936.
- 2. Angew. Chem, Int. Ed. 2015, 54, 3773.
- 3. Angew. Chem, Int. Ed. 2015, 54, 3768.