alkylation, arylation, dealkylation, dearylation, C-acylation, olefination

O 0280 41 - 072 Nickel-Catalyzed Cross-Coupling Reaction of Aryl Halides in Pyridine. A Pratical Synthesis of 4'-Methylbiphenyl-2-carbonitrile as a Key Intermediate of Angiotensine II Receptor Antagonists. — Nickel(0)-catalyzed cross-coupling of the aryl bromides (I) with the aryl chlorides (II) in pyridine yielding the biphenyl derivatives (III) proceeds with selectivities of up to 70%. The amount of the homo-coupling products (IV) and (V) strongly depends on the aryl halides, the phosphine ligand, and the solvent used. Further examples are given in the original paper. — (KAGEYAMA, H.; MIYAZAKI, T.; KIMURA, Y.; Synlett (1994) 5, 371-372; Res. Dev. Dep., Ihara Chem. Ind. Co., Ltd., Ihara-gun, Shizuoka 421-33, Japan; EN)