

A. Aliphatic Friedel-Crafts Reactions

Lewis acid induced reactions of alkyl halides with alkenes may either yield 1:1 adducts or lead to polymers. In the early 1980s, rules were developed how to selectively produce [1:1]-adducts and avoid the formation of polymers (# 19, 34): When catalytic amounts of Lewis acids are employed, the reactant RX must ionize more readily than the product R-C-C-X. With stoichiometric quantities of strong Lewis acids, this rule must be reversed (# 100, 136)

