

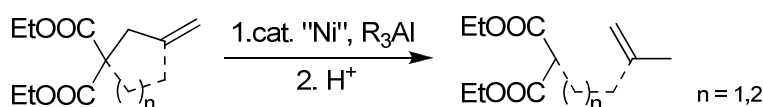
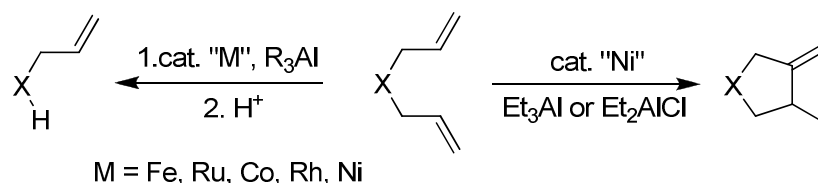
Reactions of Alkenes Initiated by Transition Metals Alkyls and Hydrides

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The C-C bond activation (cleavage) as well as the C-C bond formation under mild and simple reaction conditions are intensively sought after processes. In the course of this thesis new nickel based catalytic system was found suitable for formation of C-C bonds (cyclization of α,ω -dienes) and for cleavage of unactivated C-C bonds in allyl malonates and related compounds. Mechanistic and structural aspects of these reactions are also discussed as well as a relation of C-C bond formation (cyclization) to the C-C bond cleavage (deallylation).



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