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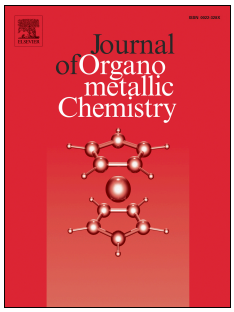

Selective reduction of a C−Cl bond in halomethanes with Et_3GeH at nanoscopic Lewis acidic Aluminium fluoride

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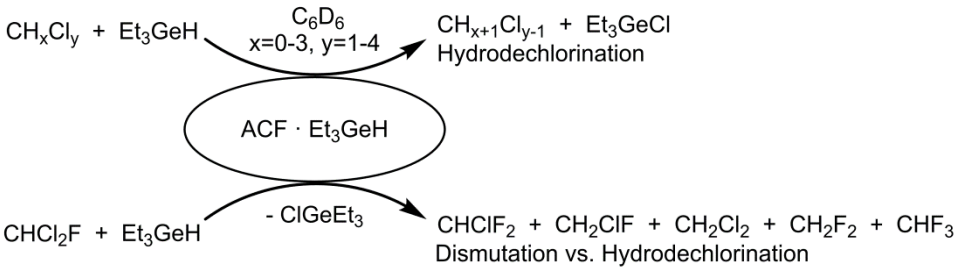
Graphical Abstract for:

Selective Reduction of a C–Cl Bond in Halomethanes with Et_3GeH at Nanoscopic Lewis Acidic Aluminium Fluoride

G. Meißner, Michael Feist, T. Braun* and E. Kemnitz*



Catalytic selective C–Cl bond cleavage reactions at moderate reaction conditions at a Lewis-acidic amorphous aluminum chloro fluorid (ACF) in the presence of Et_3GeH are presented. Chloromethanes and hydrochlorofluoromethanes as substrates were tested and *Pulse*TA® experiments reflect the interactions between the catalyst and reactants.