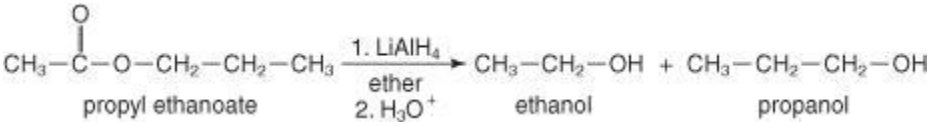
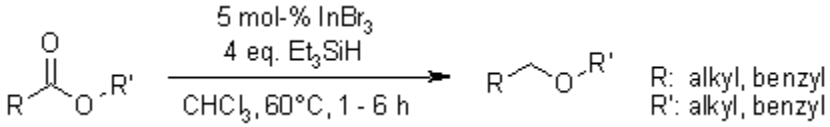
Answer:

1) Esters are normally reduced by reaction with lithium aluminum hydride to alcohols. For example

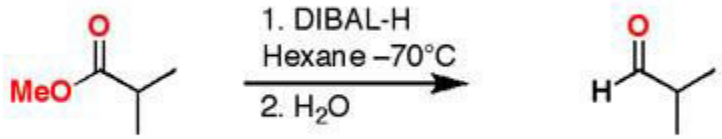


2) Also was founded abstract where a novel one-pot procedure for a directly reductive conversion of esters to the corresponding ethers by Et_3SiH in the presence of a catalytic amount of $InBr_3$ is described. This simple catalytic system appeared to be remarkably tolerant to several functional groups.



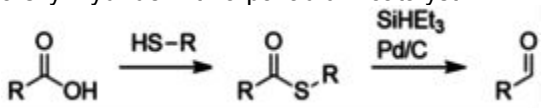
3) Esters can be reduced to aldehydes with diisobutylaluminum hydride (DIBAL), a bulky source of hydride ion

Example 1: Reduction of esters to aldehydes



Low temperature is important to prevent further reduction

4) In the Fukuyama reduction, a carboxylic acid is first converted to a thioester through addition of a thiol (with a mechanism similar to esterification). The thioester is then reduced to an aldehyde by a silyl hydride with a palladium catalyst.



5) In the Weinreb reaction, an acyl chloride is first converted to the Weinreb amide, then treated with an organometallic reagent to form a ketone, or lithium aluminum hydride to form an aldehyde