

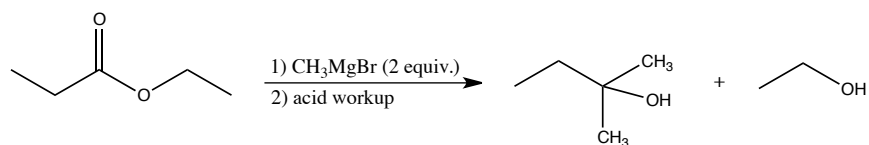
## Chem 345 – Organic Reactions Chapter 21

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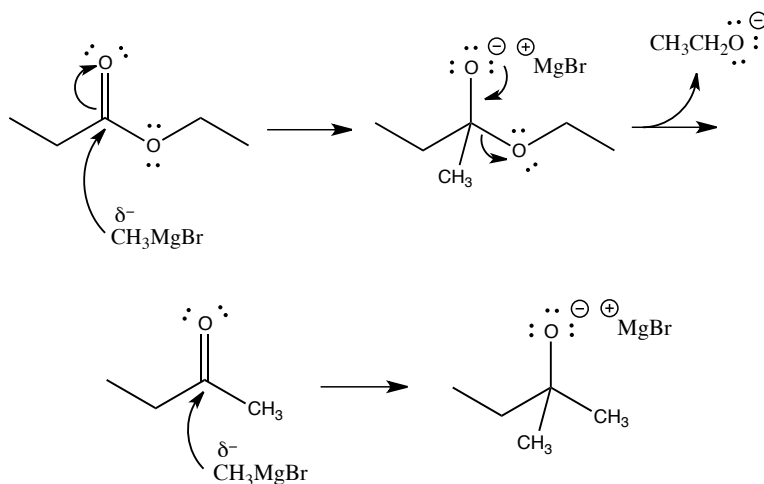
[http: www.chem.wisc.edu/areas/clc](http://www.chem.wisc.edu/areas/clc) (Resource page)

### Reaction of Esters With Grignard Reagents

#### Reaction



#### Mechanism:



Grignard reagents are very strong nucleophiles and bases and in this reaction you can see their effect. After the first addition of a Grignard reagent the product is a **ketone**, which is more reactive than an ester. Consequently this ketone product will react to produce eventually a tertiary alcohol, after acid workup. The acid workup for these tertiary alcohols is usually an aqueous solution of ammonium chloride, a weak acid.