

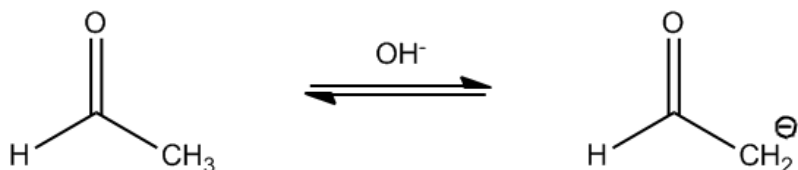
## CONCEPT: ALDOL CONDENSATION

Via enolates, **ketones and aldehydes** will react with \_\_\_\_\_ to condensate into \_\_\_\_\_

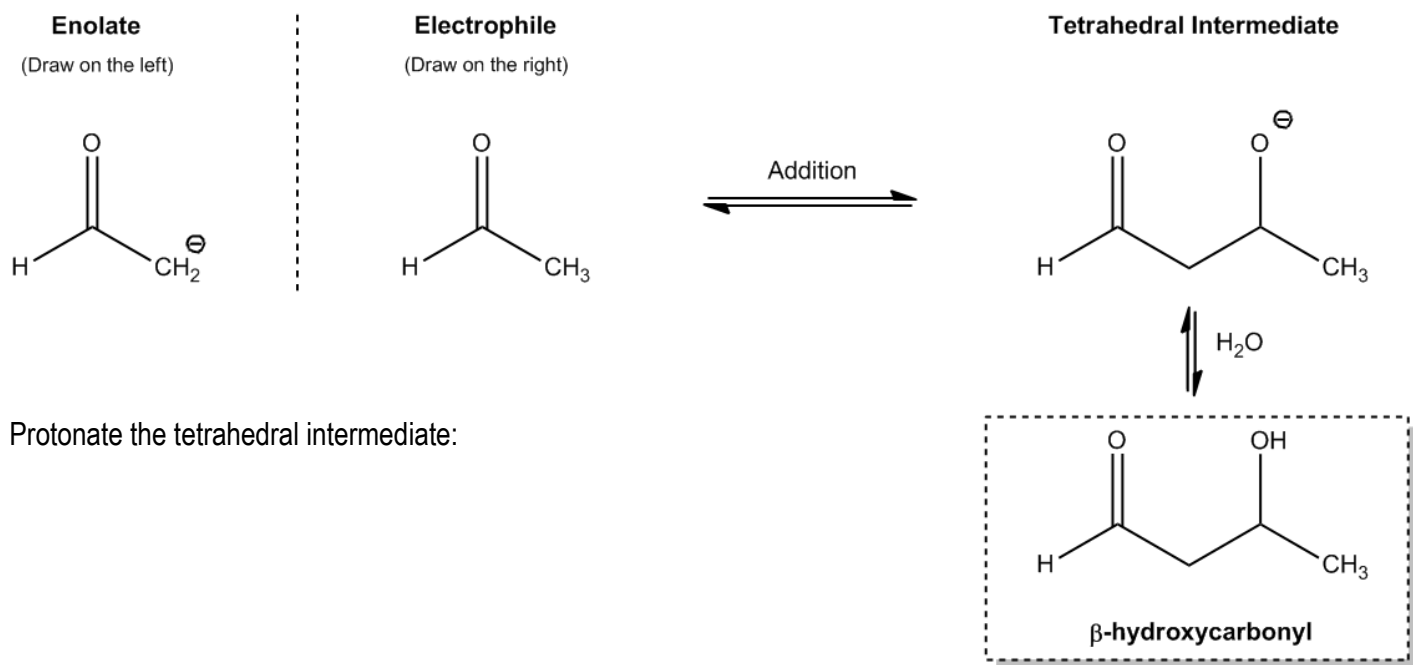
- The final products are called “aldols” because they are part \_\_\_\_\_ and part \_\_\_\_\_

### Mechanism:

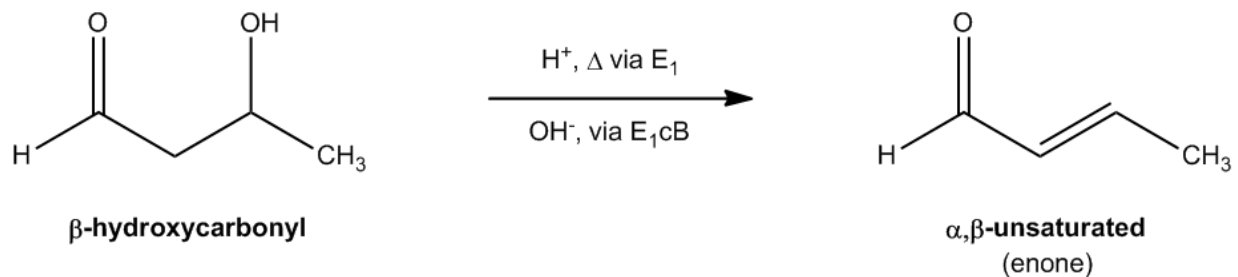
#### 1. Form the enolate



#### 2. Nucleophilic attack the other carbonyl (which we will call the *electrophile*)

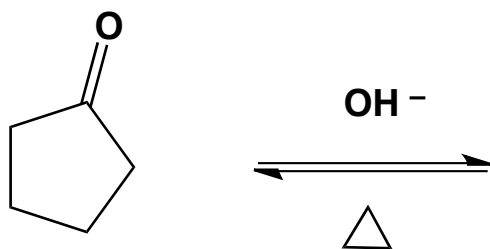


$\beta$ -hydroxy carbonyls are \_\_\_\_\_ to dehydrate than typical alcohols due to \_\_\_\_\_



Many times, we will simply assume that the condensation product dehydrated on its own, without requiring an explanation.

PRACTICE: What product can be isolated from the following aldol condensation reaction?



PRACTICE: Provide the mechanism for the following transformation.

