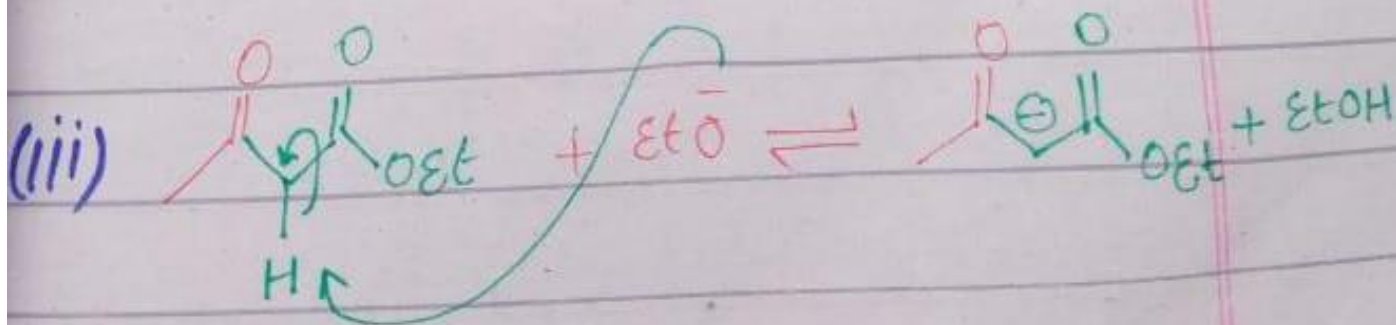
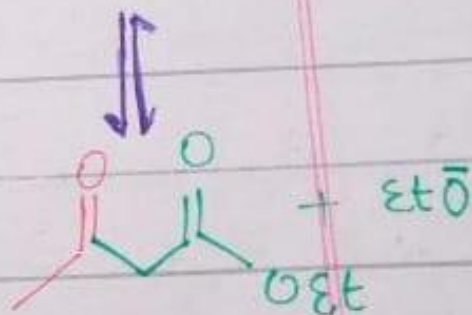
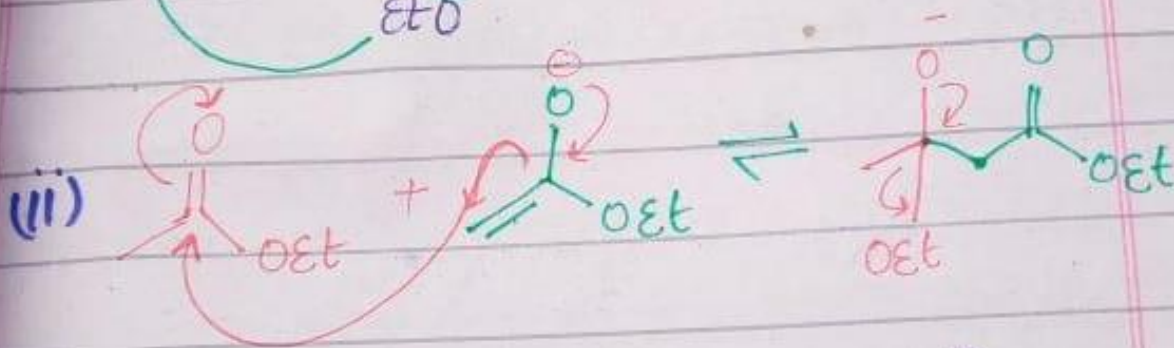
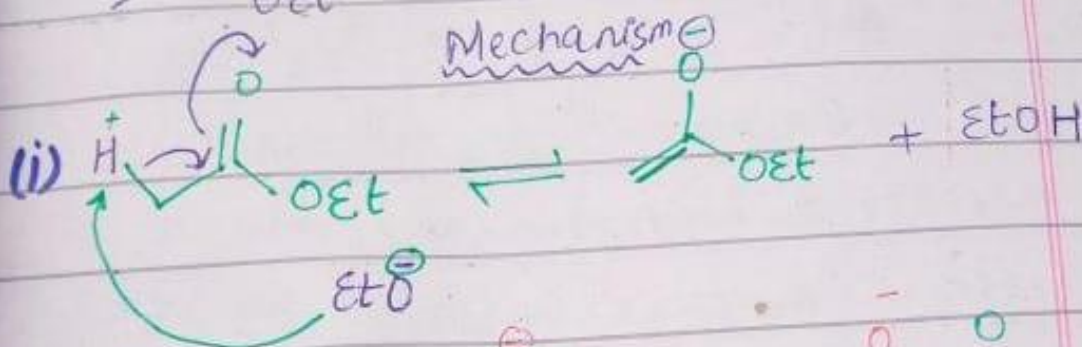
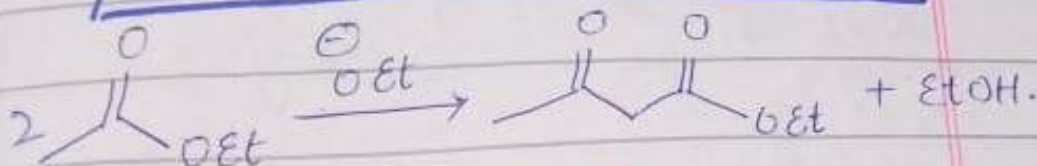
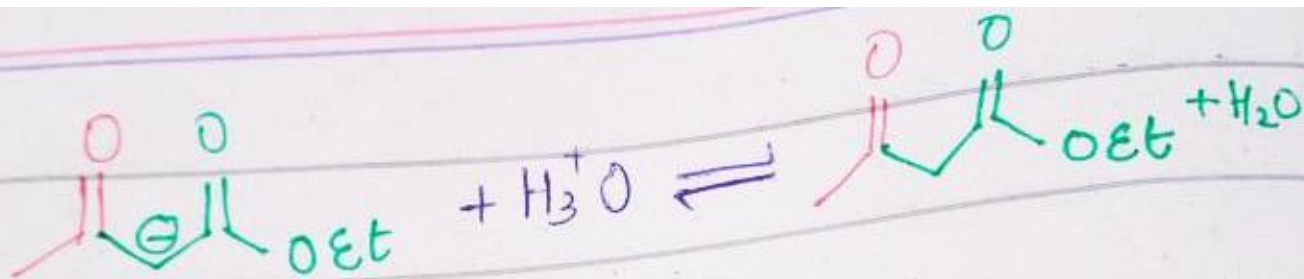


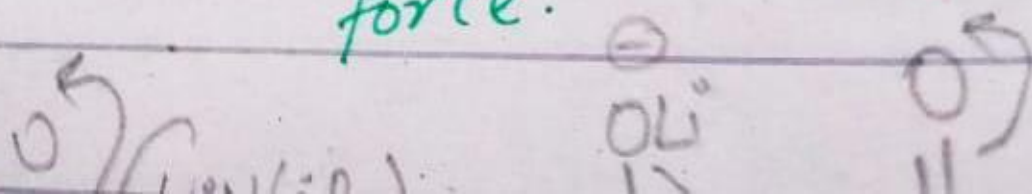
**Claisen-Ester Condensation.**





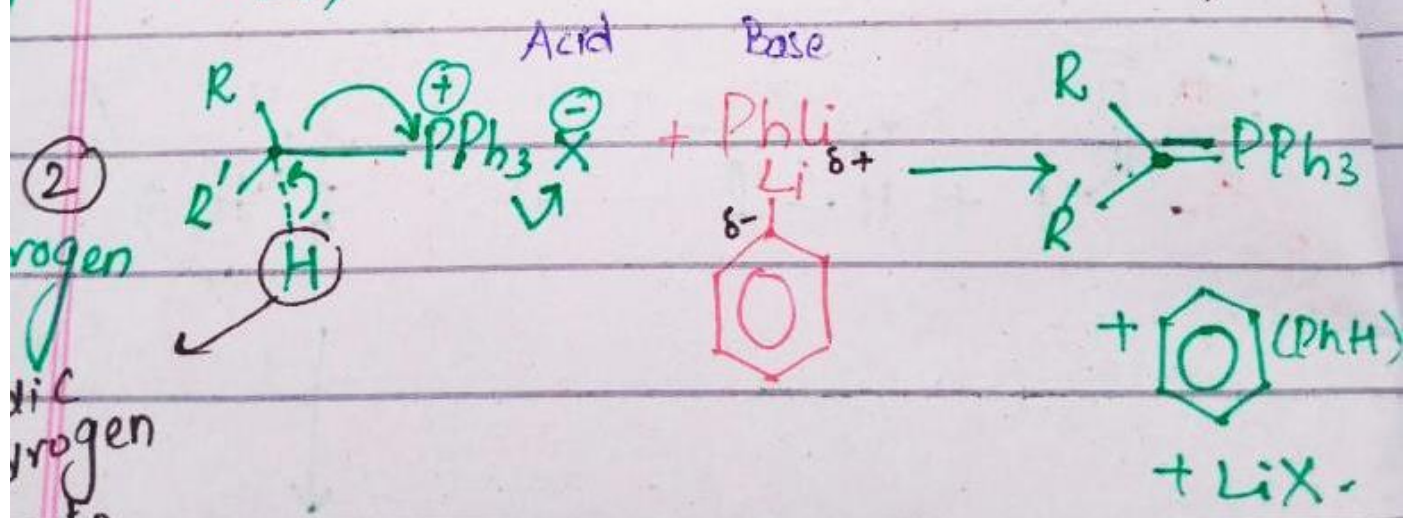
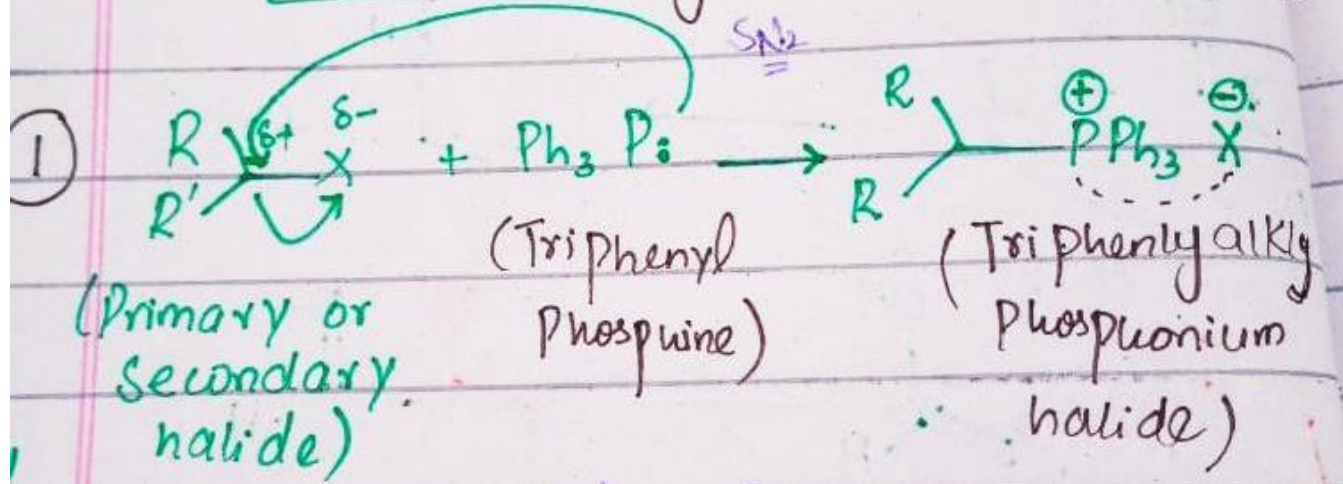
Why  $\begin{array}{c} \text{O} \\ \parallel \\ \text{R}-\text{C}-\text{R} \\ \parallel \\ \text{R} \end{array}$  doesn't give  
Claisen condensation?

Because it does not have  
second hydrogen for 3<sup>rd</sup>  
step that is basically the  
force.



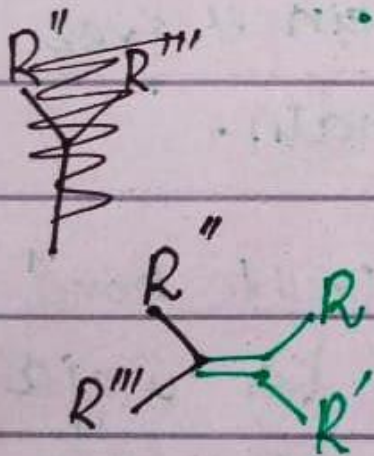
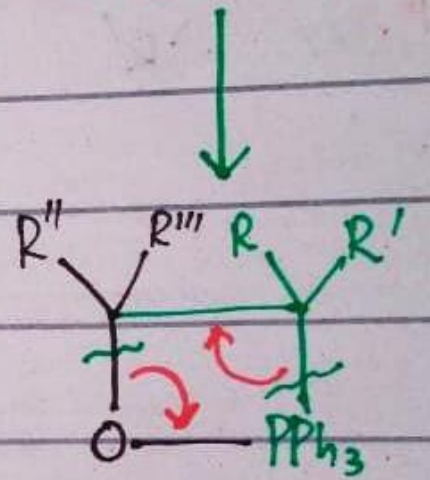
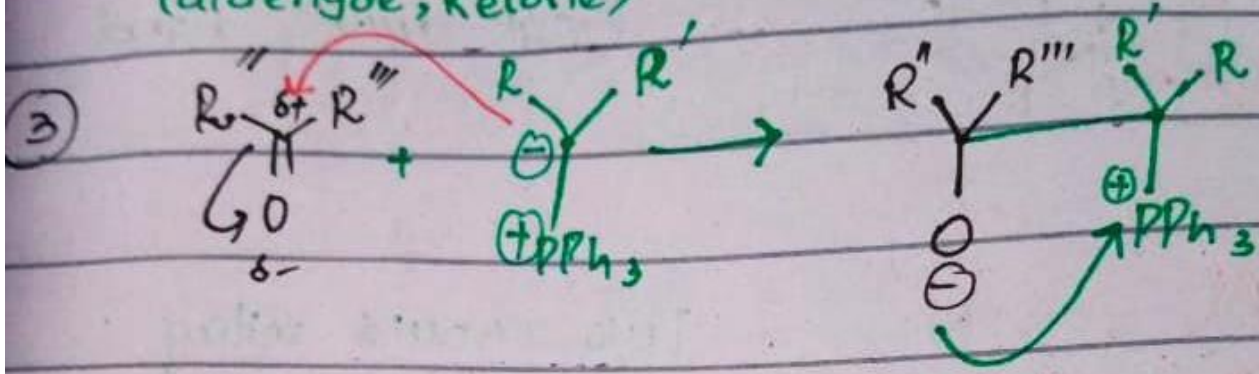


# The Wittig Reaction



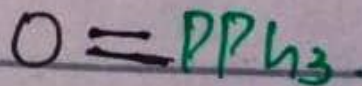
PPh<sub>3</sub> in Electrophile.

(aldehyde, ketone)



(Alkene)

+



(Triphenyl phosphine oxide).

(Oxaphosphatane  
Intermediate)