

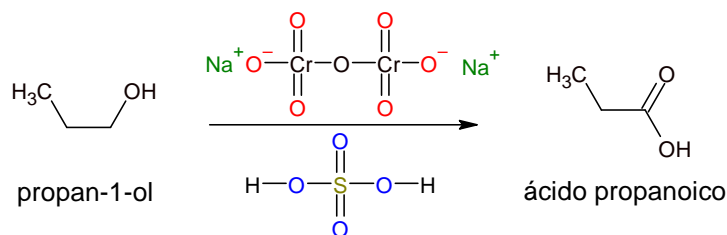
# Apoyo 3er Departamental | ESIQIE 21/1 |

## 👉 Síntesis de Ácidos Carboxílicos |

### Mecanismos

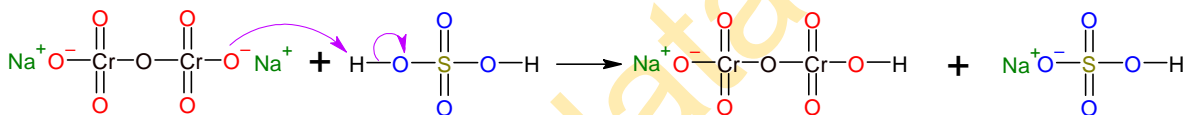
#### 1. Oxidación con Mezcla Sulfocrómica

Oxidación de alcoholes 1°

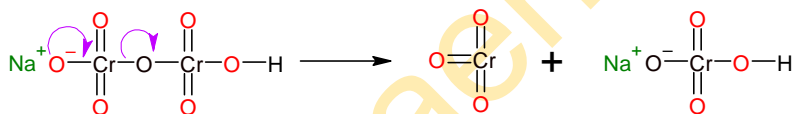


Mecanismo

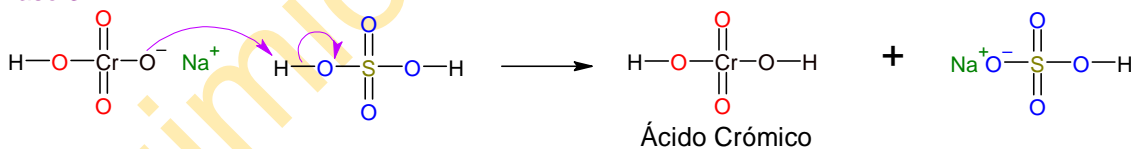
Paso 1



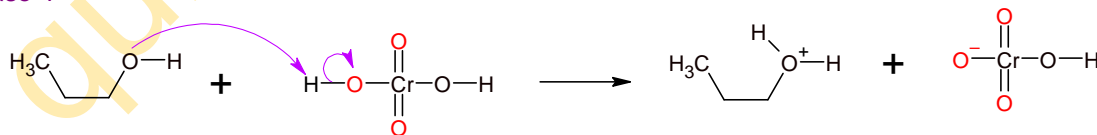
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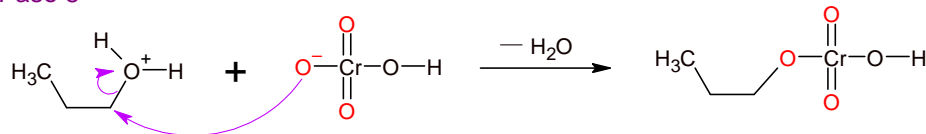
Paso 3



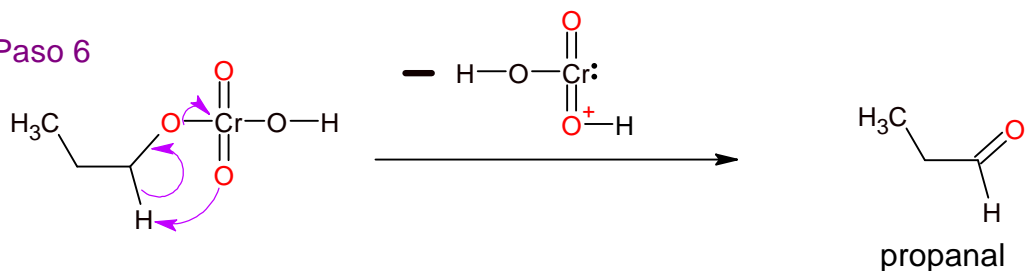
Paso 4



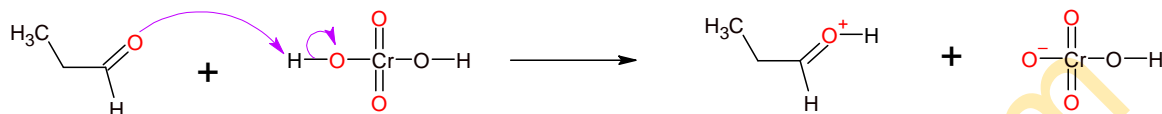
Paso 5



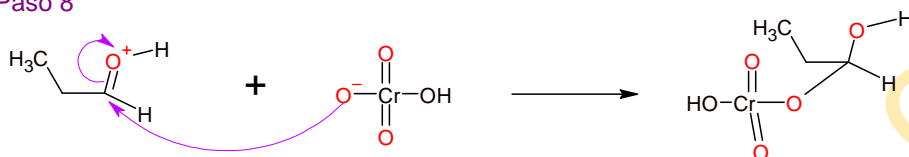
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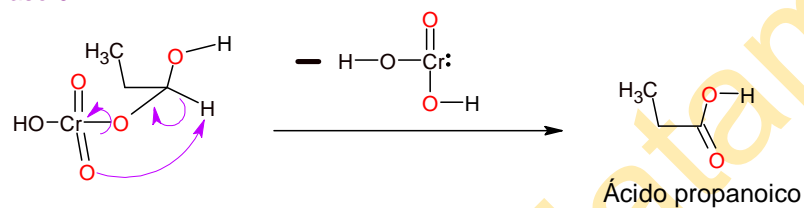
Paso 7



Paso 8

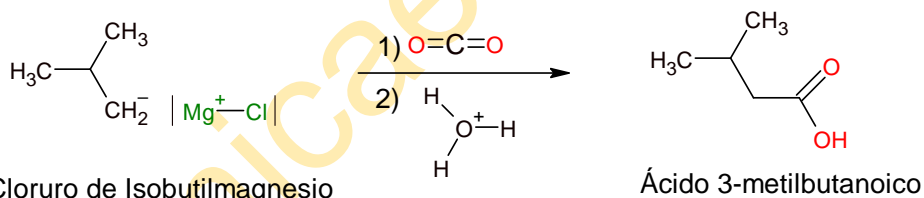


Paso 9



## 2. Carboxilación de Reactivos de Grignard

Carboxilación de Reactivos de Grignard

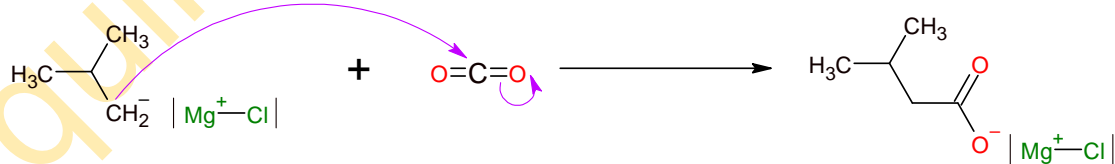


Cloruro de Isobutilmagnesio

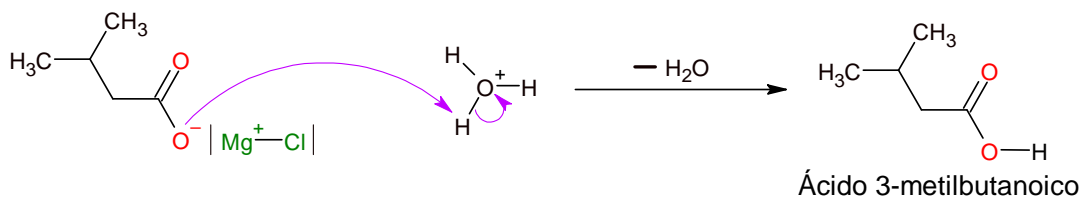
Ácido 3-metilbutanoico

Mecanismo

Paso 1



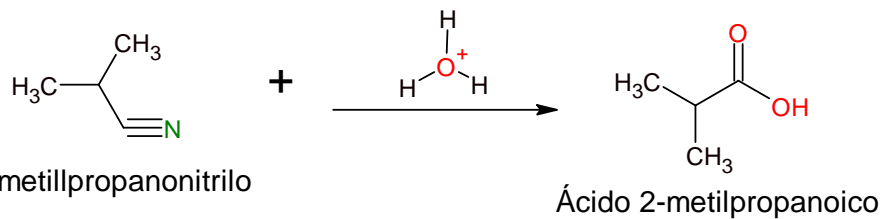
Paso 2



Ácido 3-metilbutanoico

### 3. Hidrolisis de Nitrilos

#### Carboxilación de Reactivos de Grignard

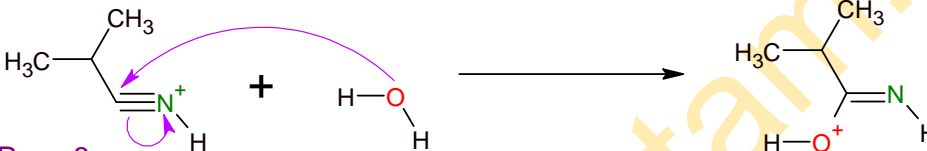


#### Mecanismo

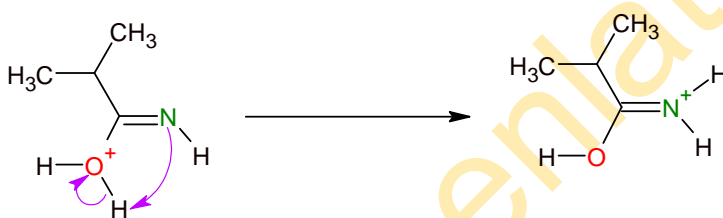
##### Paso 1



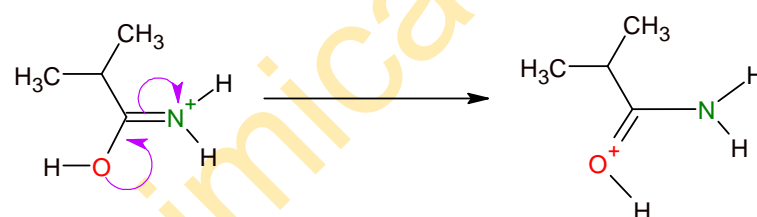
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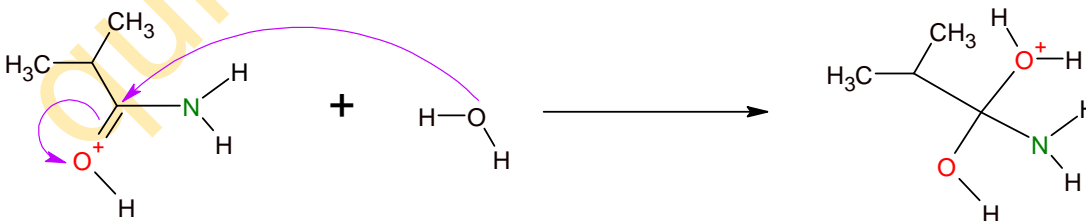
##### Paso 3



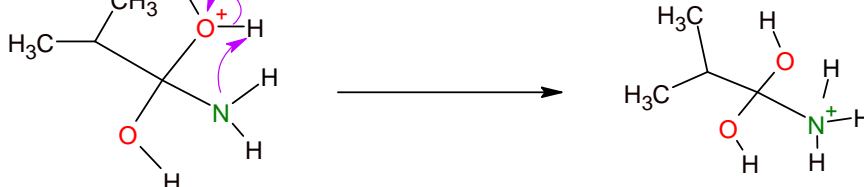
##### Paso 4



##### Paso 5

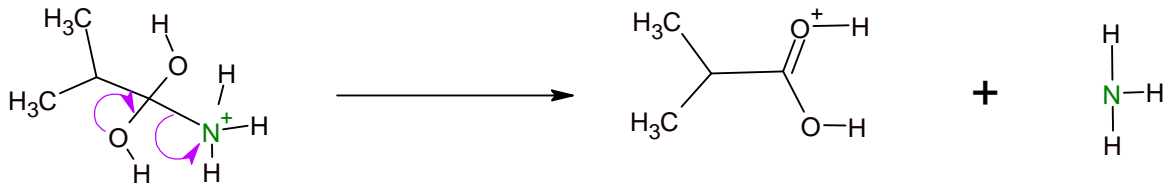


##### Paso 6

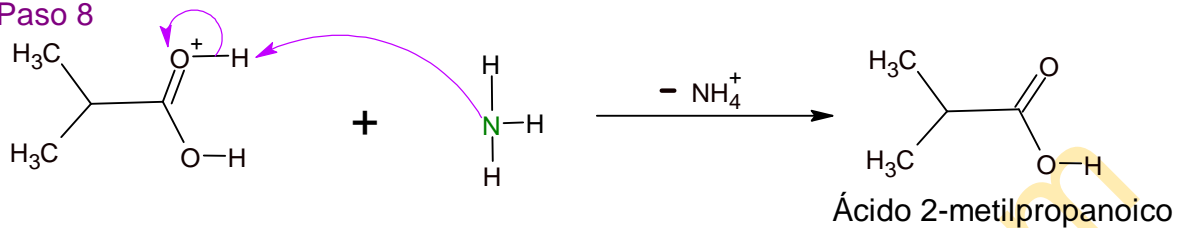




Paso 7

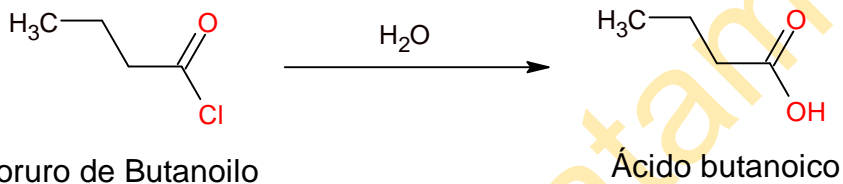


Paso 8



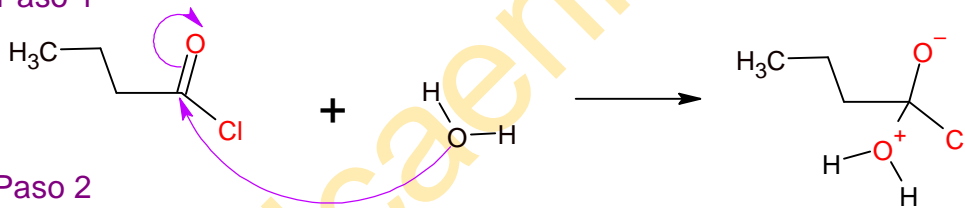
## 4. A partir de derivados de Ácido

### Carboxilación de Reactivos de Grignard

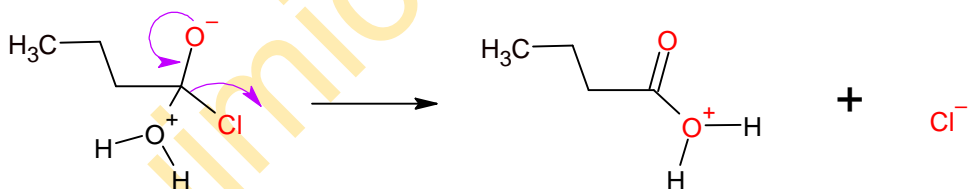


#### Mecanismo

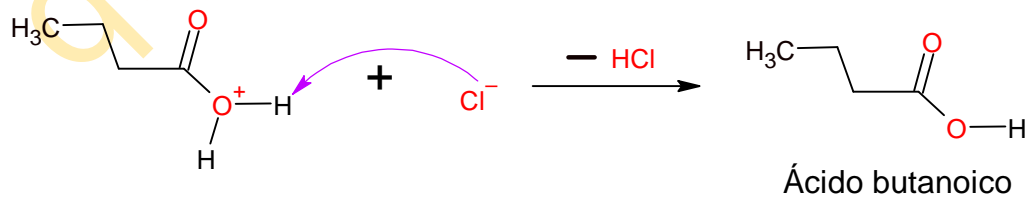
Paso 1



Paso 2

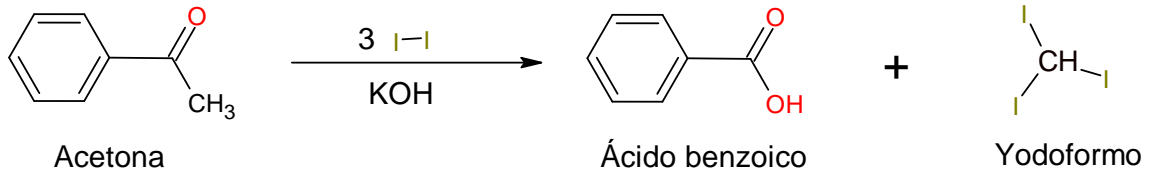


Paso 3



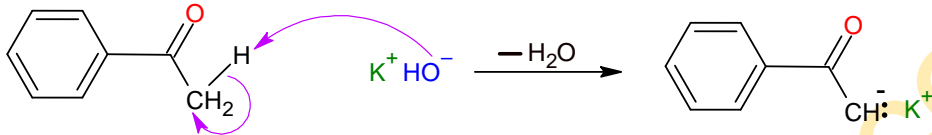
## 5. Reacción del haloformo

Convierte metil cetonas en ácidos y yodoformo

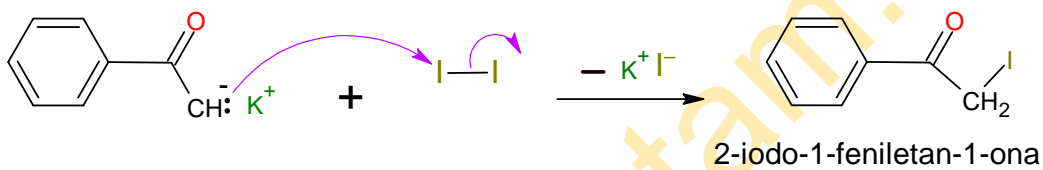


Mecanismo

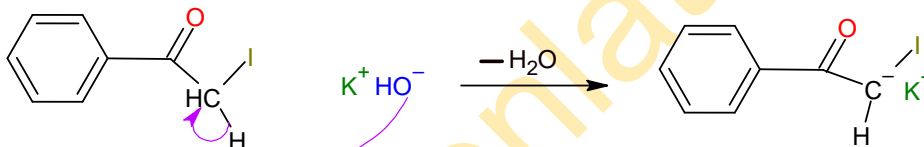
Paso 1



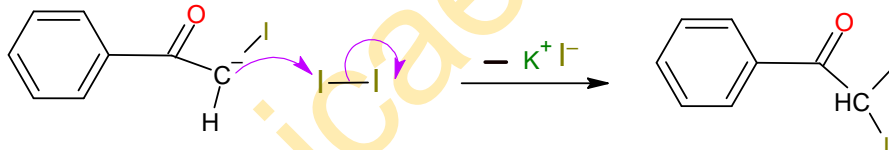
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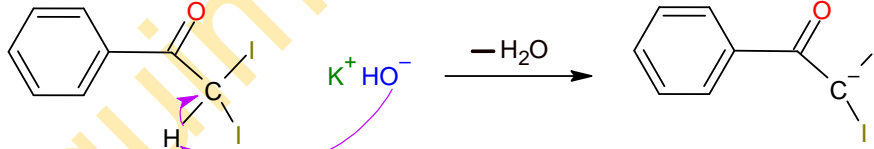
Paso 3



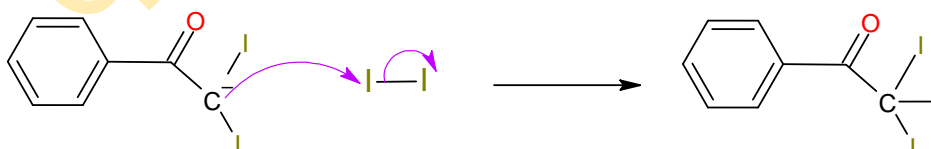
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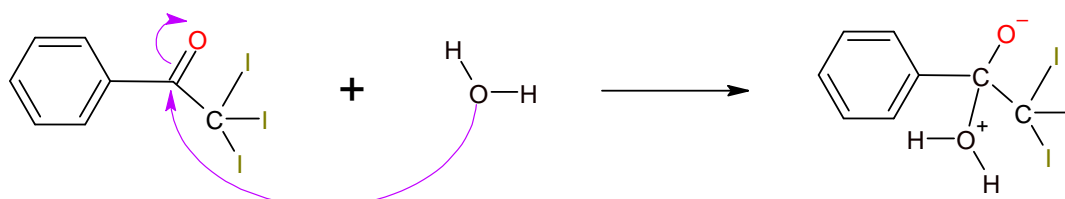
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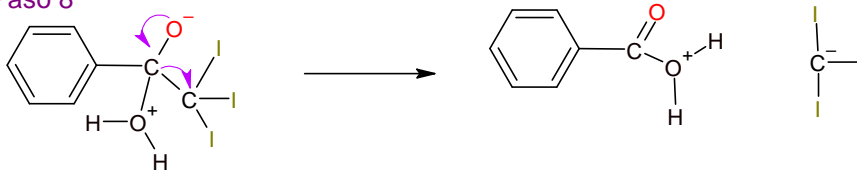
Paso 6



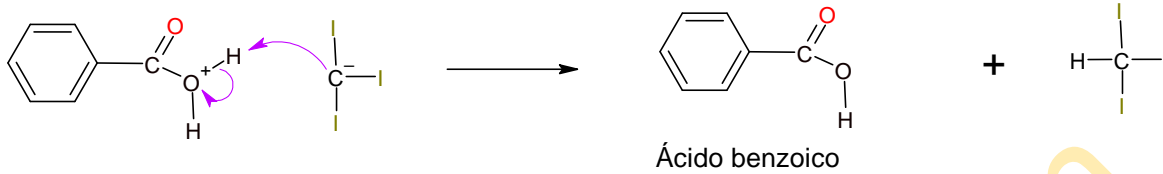
Paso 7



Paso 8

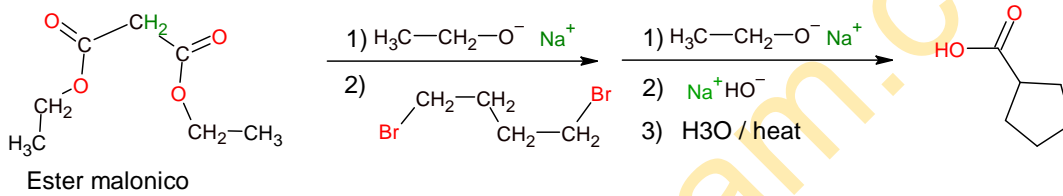


Paso 9



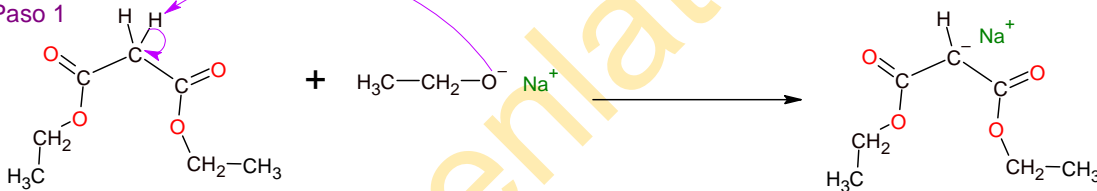
## 6. Síntesis de ácidos acéticos sustituidos

Síntesis con el ester malónico

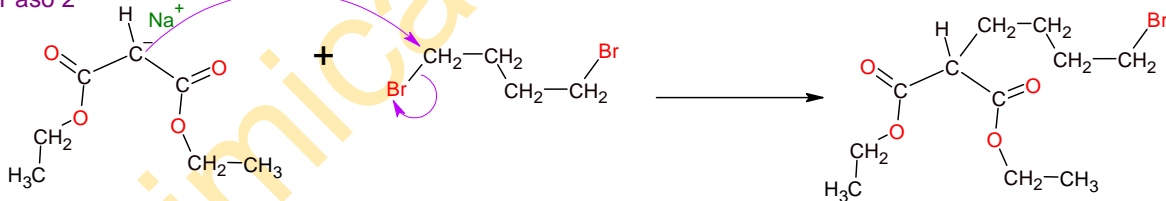


Mecanismo

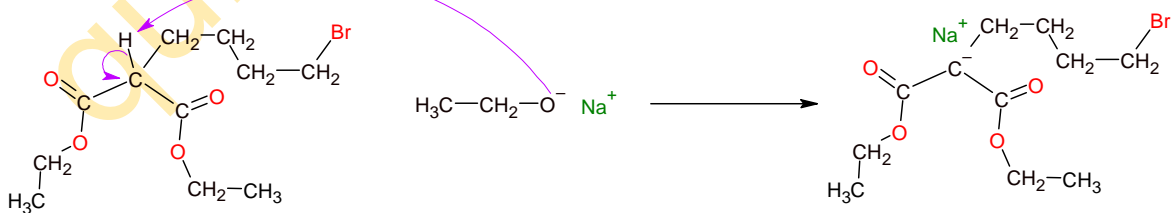
Paso 1



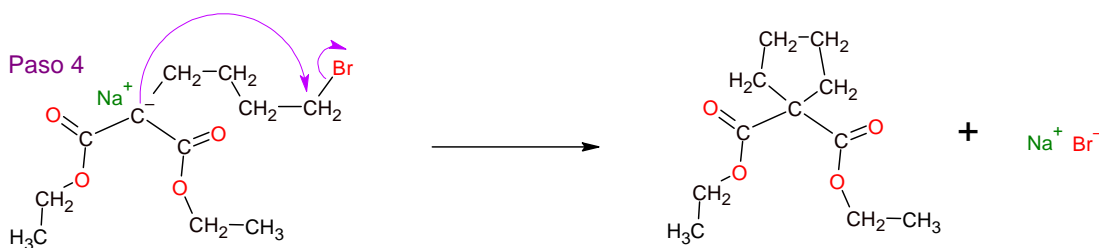
Paso 2



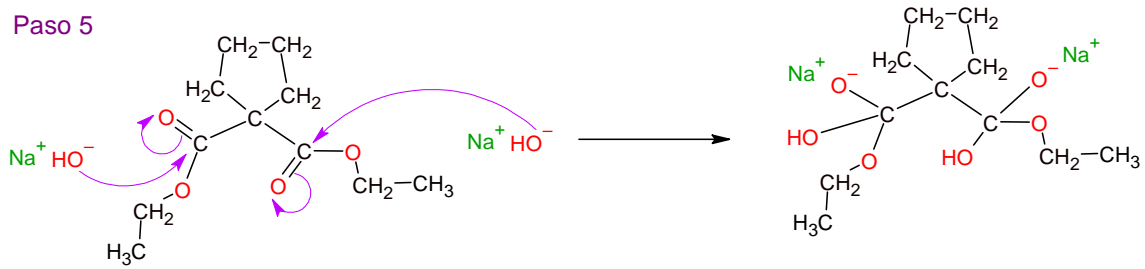
Paso 3



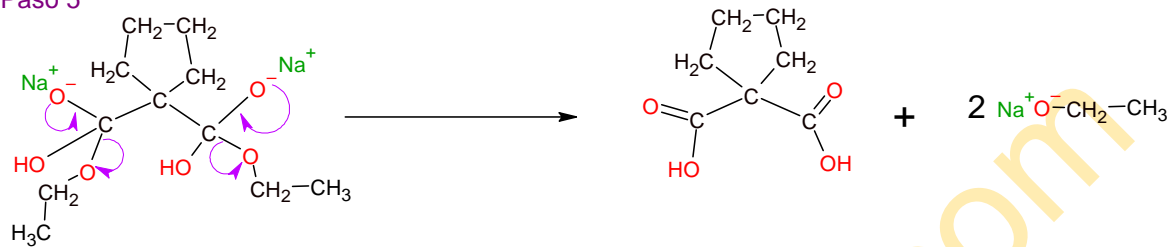
Paso 4



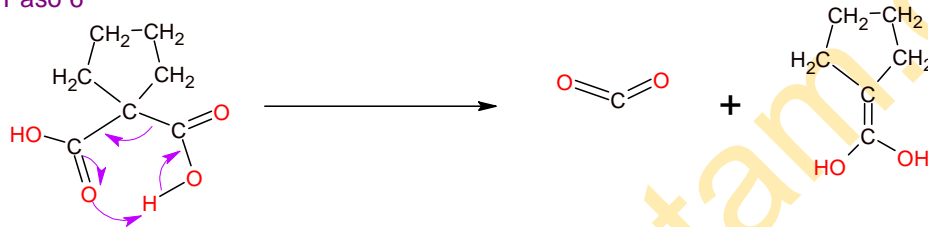
Paso 5



Paso 5



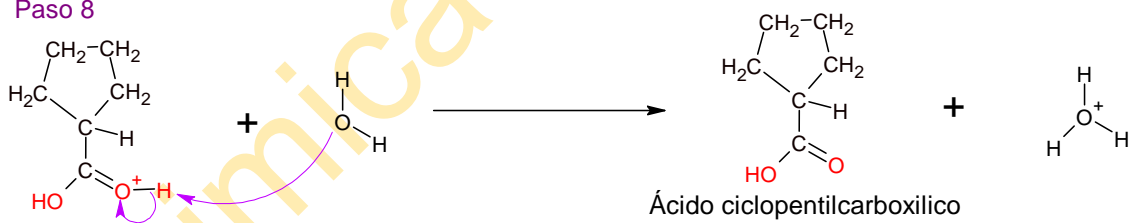
Paso 6



Paso 7



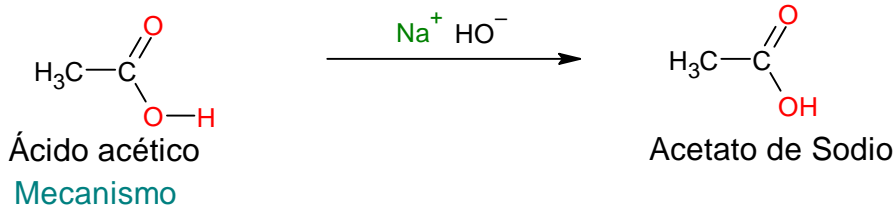
Paso 8



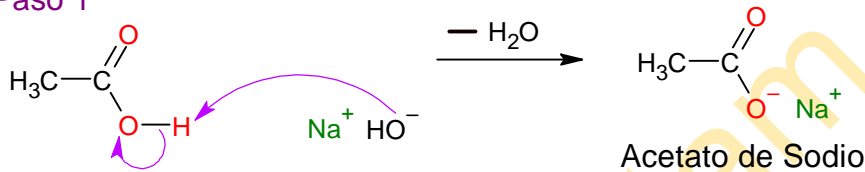
# Reacciones de Ácidos Carboxílicos | Mecanismos

## 1. Formación de Sales

### Formación de Sales

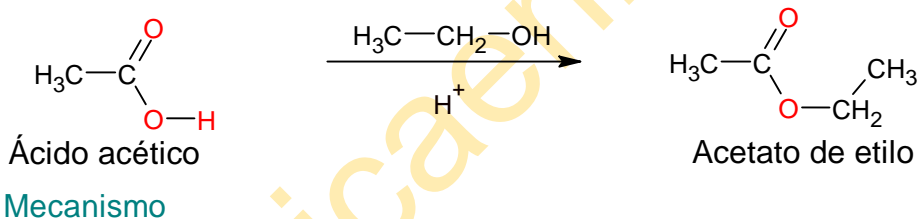


#### Paso 1

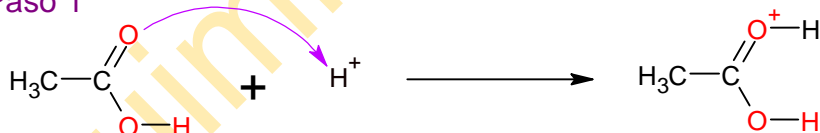


## 2. Esterificación de Fisher

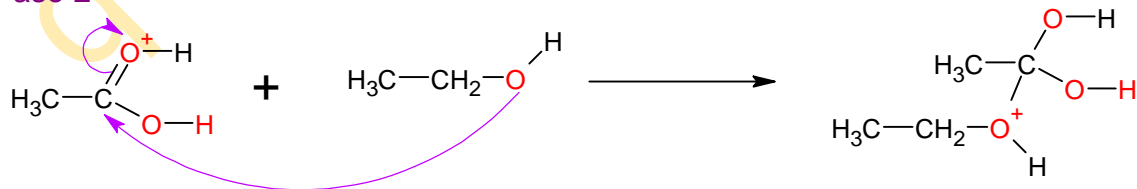
### Esterificación de Fisher



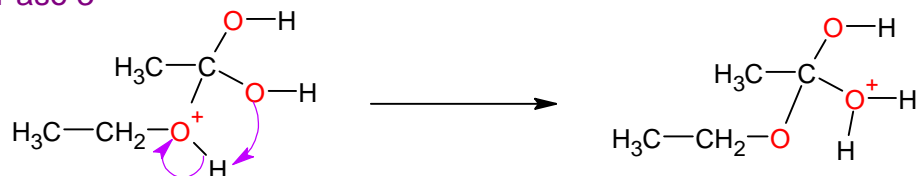
#### Paso 1



#### Paso 2

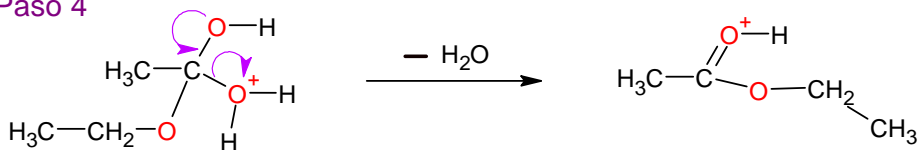


#### Paso 3

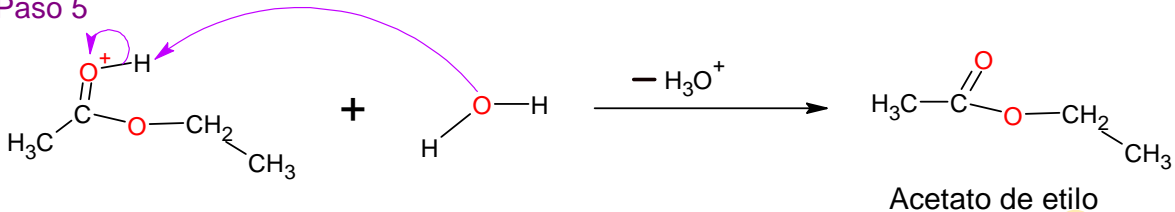




Paso 4

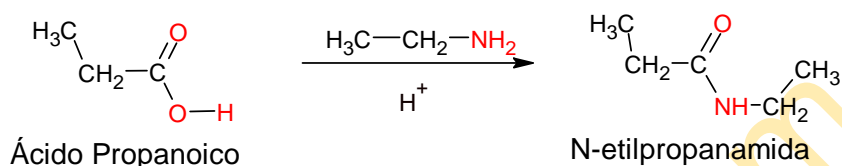


Paso 5



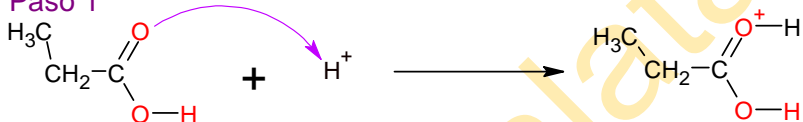
### 3. Conversión a Aminas

Conversión a amidas

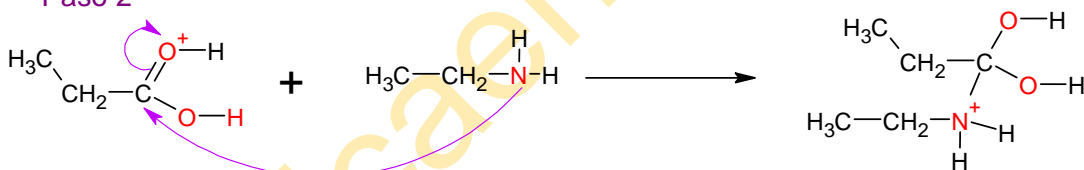


Mecanismo

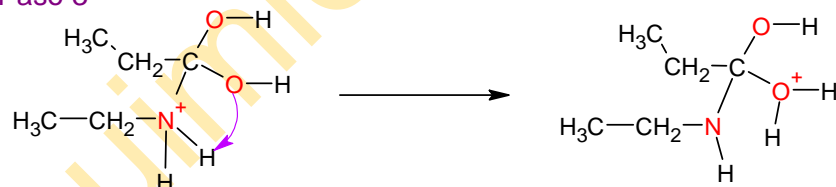
Paso 1



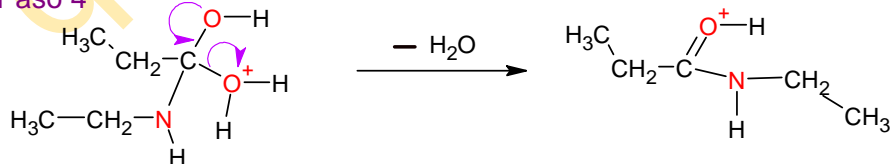
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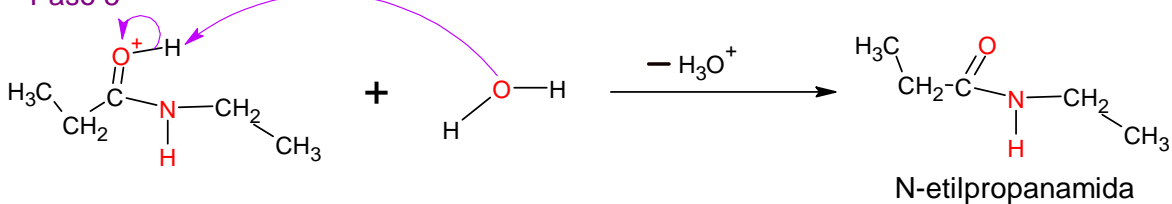
Paso 3



Paso 4

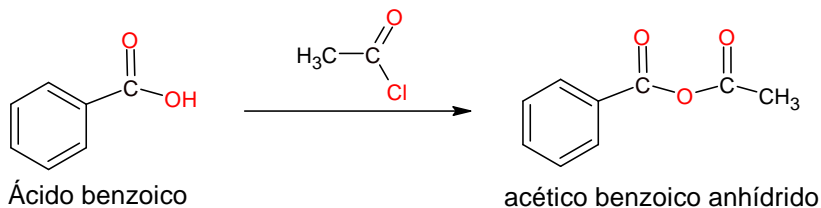


Paso 5



## 4. Conversión a Anhídridos

Conversión a anhídridos

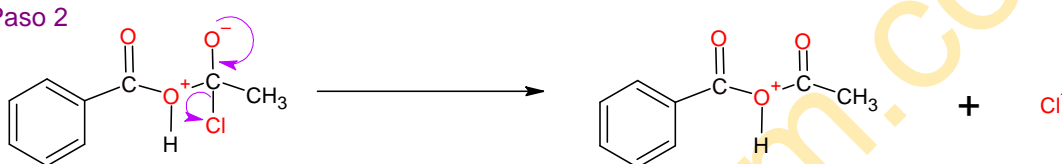


Mecanismo

Paso 1



Paso 2

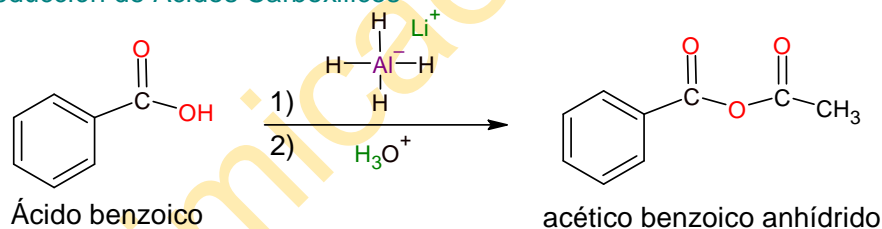


Paso 3



## 5. Reducción a alcoholes primarios 1°

Reducción de Ácidos Carboxílicos

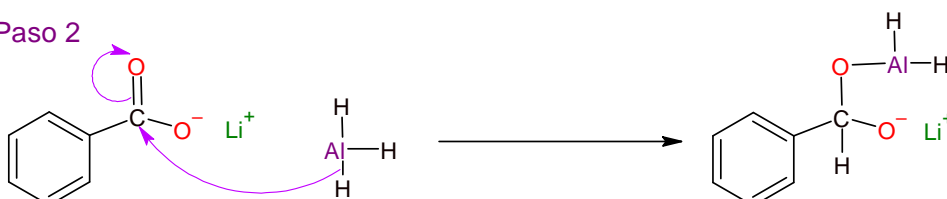


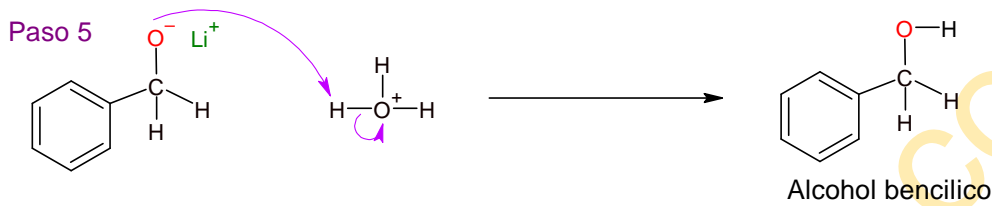
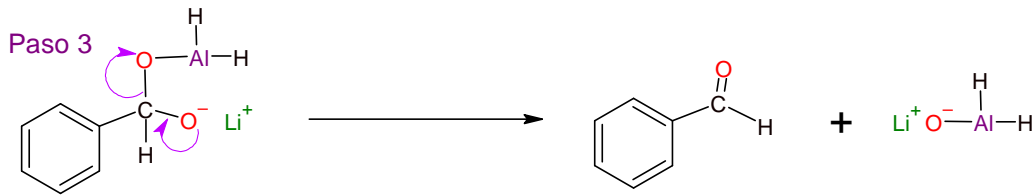
Mecanismo

Paso 1



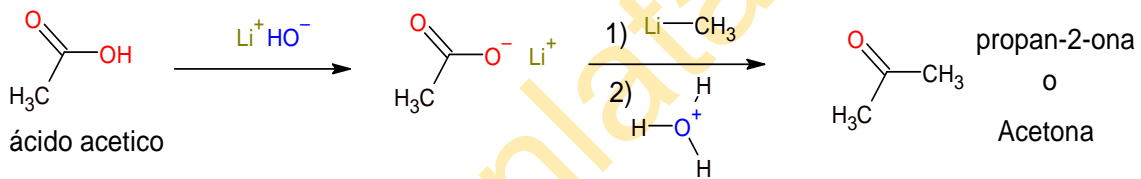
Paso 2





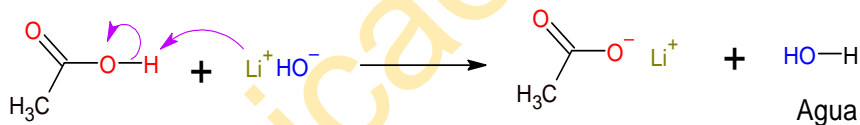
## 6. Alquilación para formar cetonas

Cetonas a partir de ácidos carboxílicos

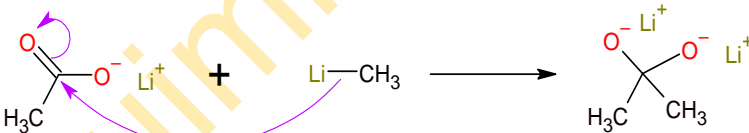


Mecanismo

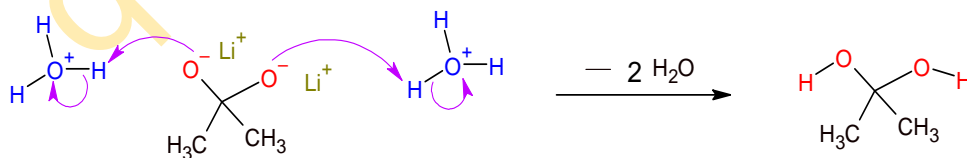
**Paso 1**



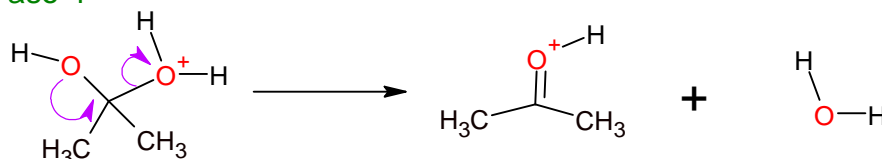
**Paso 2**



**Paso 3**

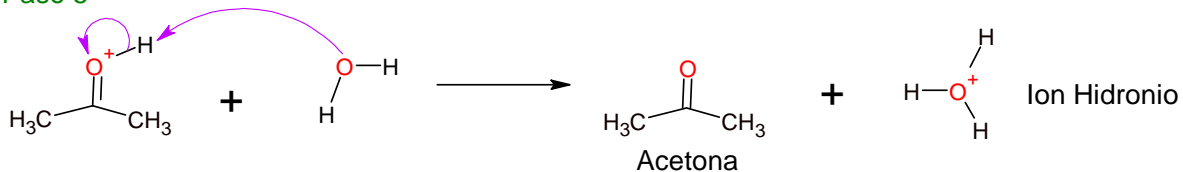


**Paso 4**



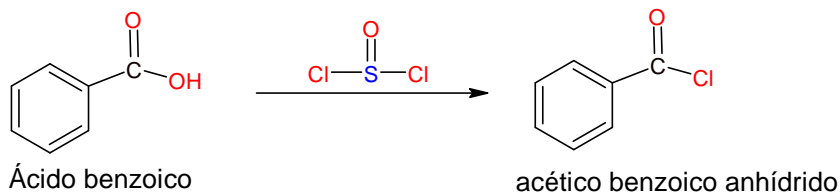


Paso 5



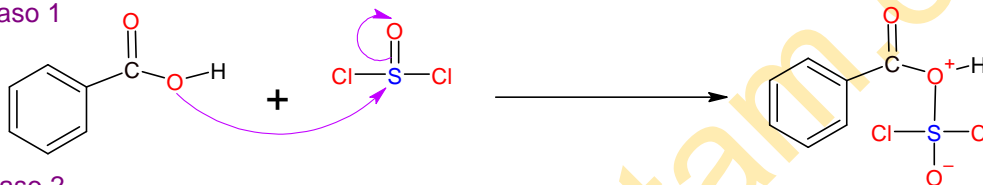
## 7. Conversión a cloruros de ácido

### Conversión a cloruros de ácido

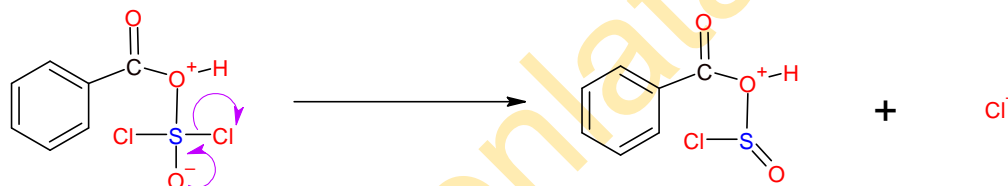


### Mecanismo

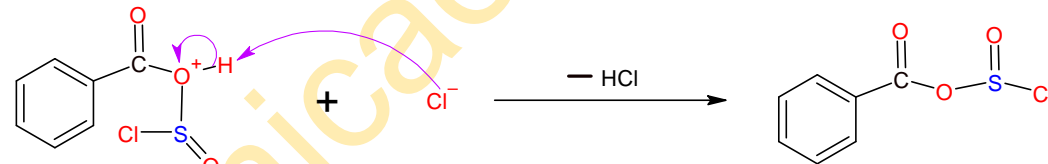
Paso 1



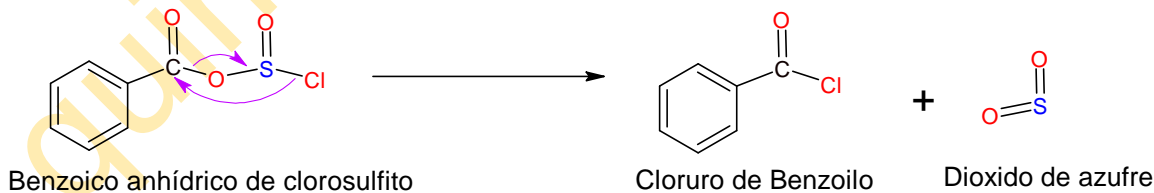
Paso 2



Paso 3

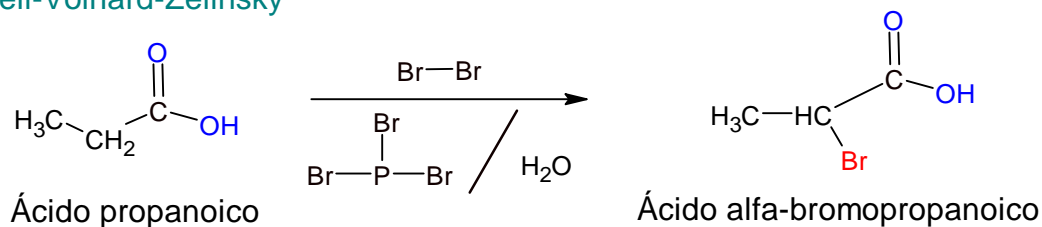


Paso 4



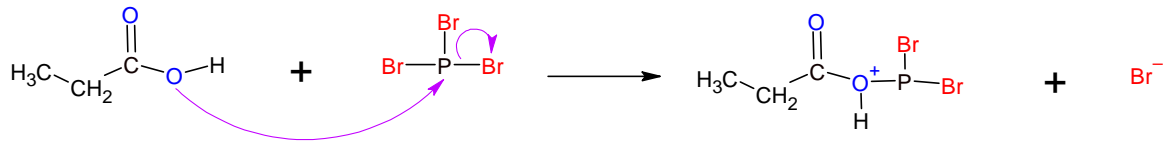
## 8. Hell-Volhard-Zelinsky

### Hell-Volhard-Zelinsky

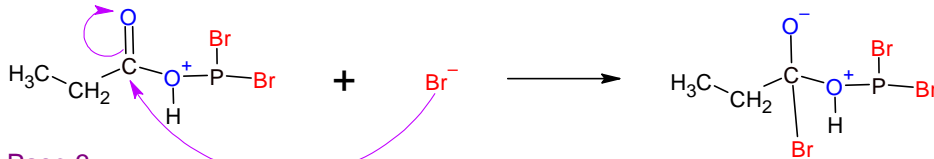


Mecanismo

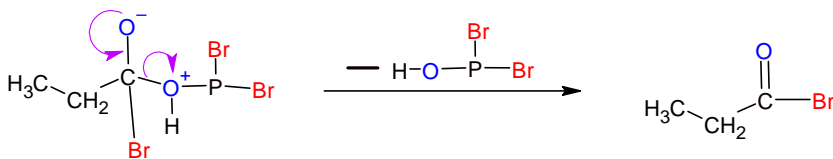
Paso 1



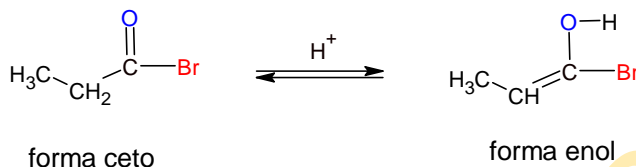
Paso 2



Paso 3



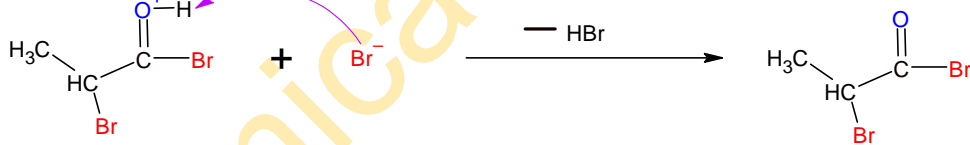
Paso 4



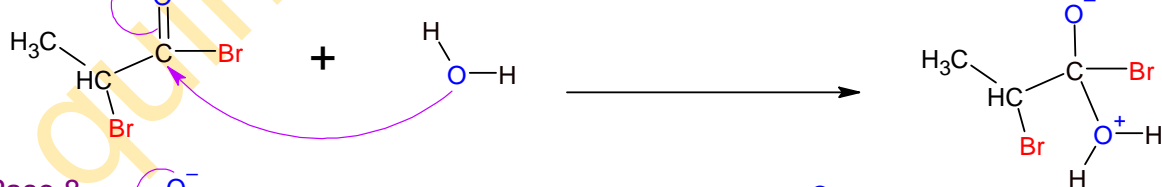
Paso 5



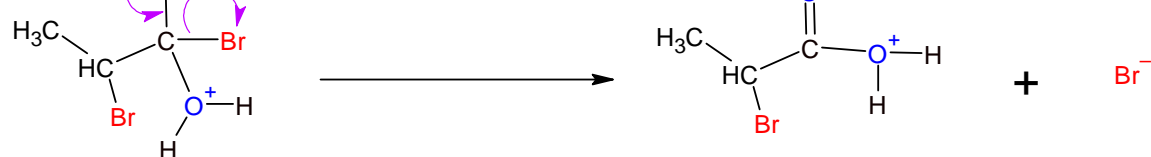
Paso 6



Paso 7



Paso 8



Paso 9

