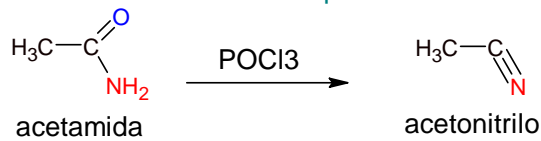


Apoyo 3er Departamental | ESIQIE 21/1 |

👉 Síntesis de Nitrilos | Mecanismos

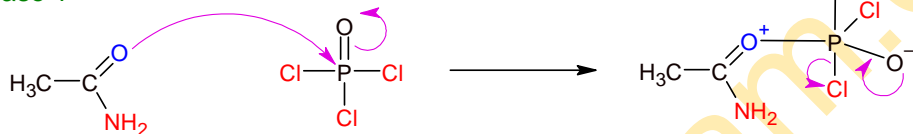
1. Deshidratación de una amida para obtener nitrilos $POCl_3$

Deshidratación de amidas para obtener Nitrilos

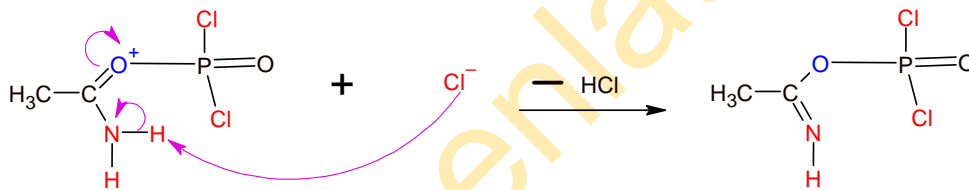


Mecanismo

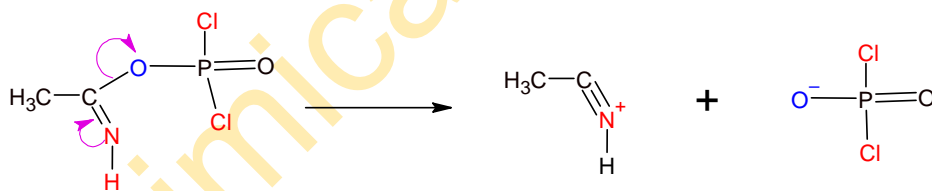
Paso 1



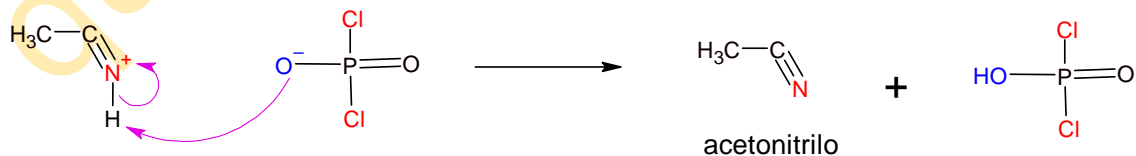
Paso 2



Paso 3

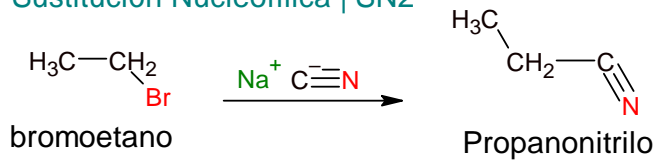


Paso 4



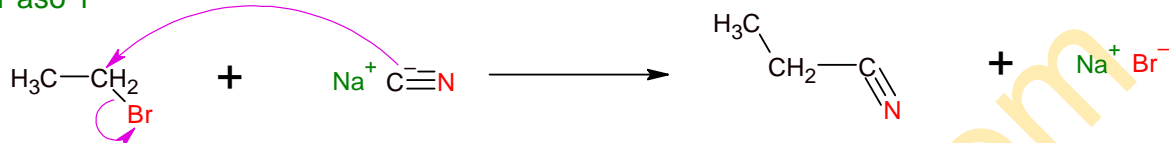
2. Sustitución Nucleofílica Bimolecular

Sustitución Nucleofílica | SN2



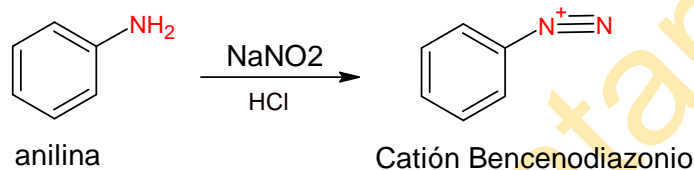
Mecanismo

Paso 1



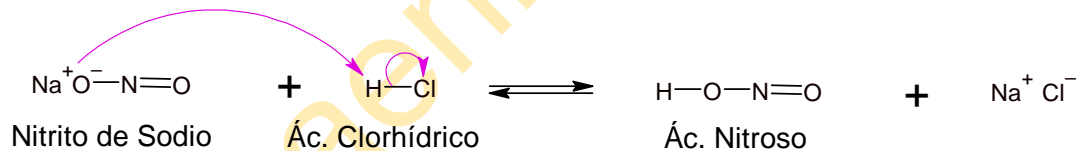
3. A partir de Sales de Diazonio

Preparación de Sales de Diazonio

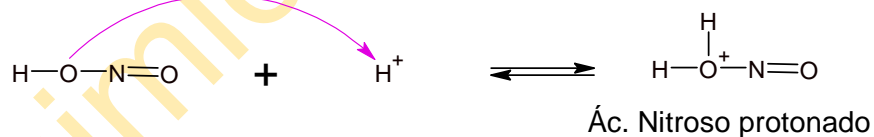


Mecanismo

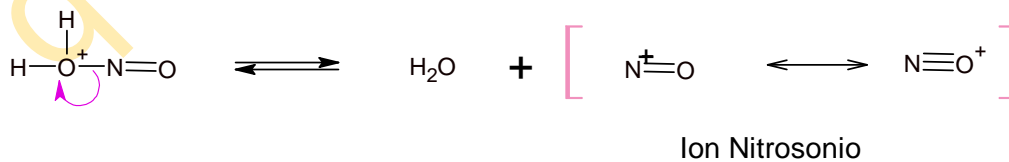
Paso 1



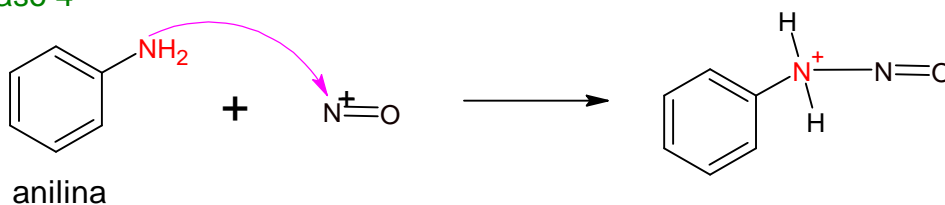
Paso 2



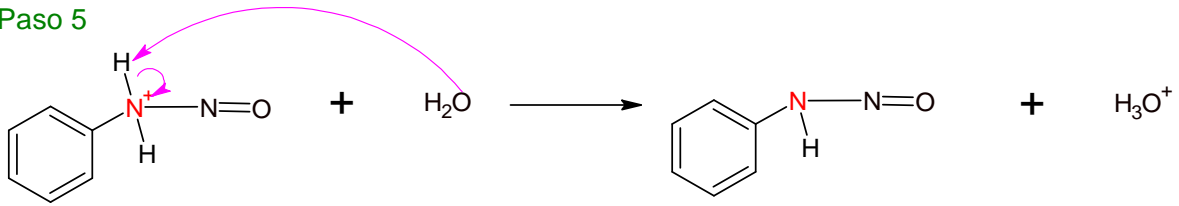
Paso 3



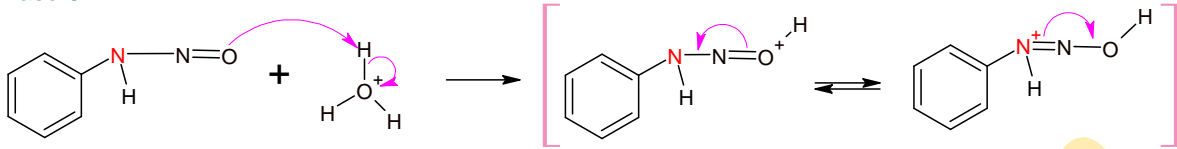
Paso 4



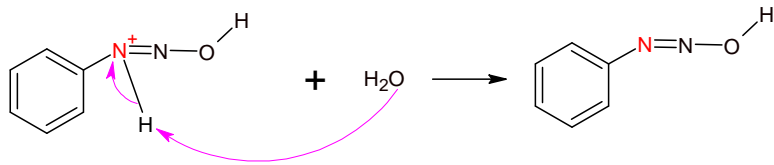
Paso 5



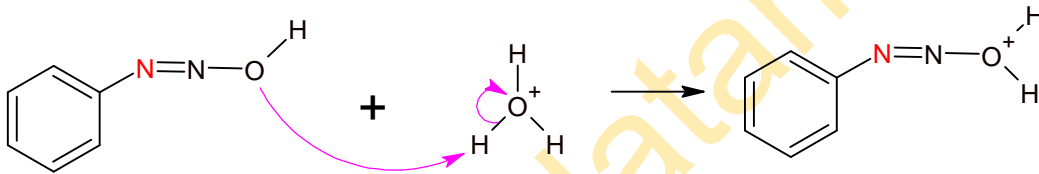
Paso 6



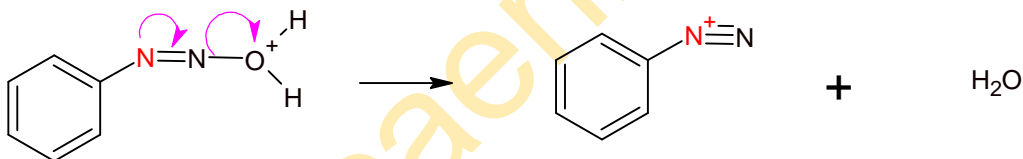
Paso 7



Paso 8

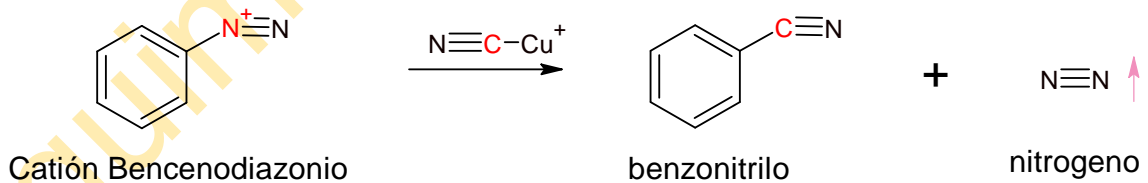


Paso 9



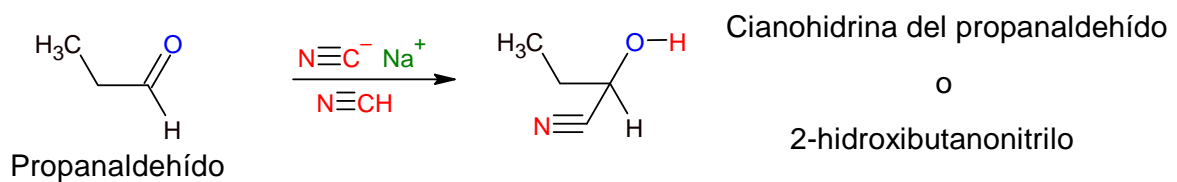
Catión Benzenodiazonio

Nitrilos a partir de Sales de Diazonio



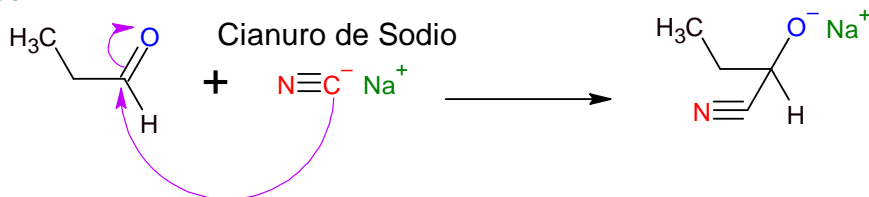
4. Síntesis de α - hidroxinitrilos

Formación de Cianohidrinas con aldehídos

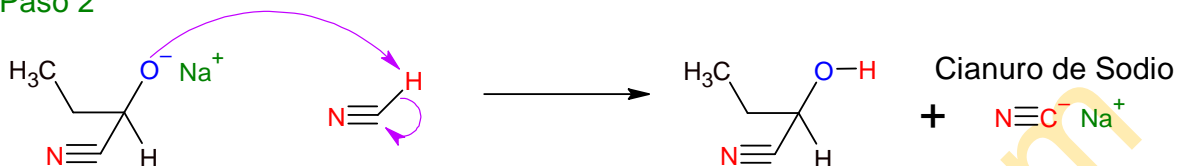


Mecanismo

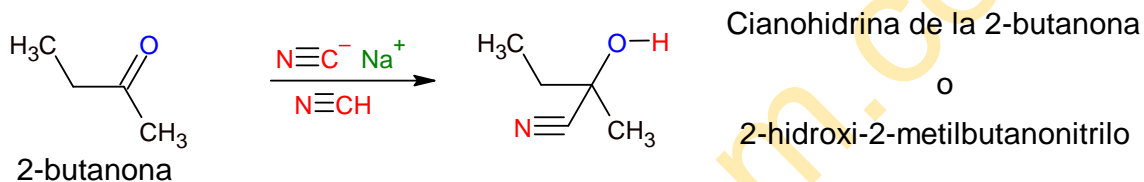
Paso 1



Paso 2

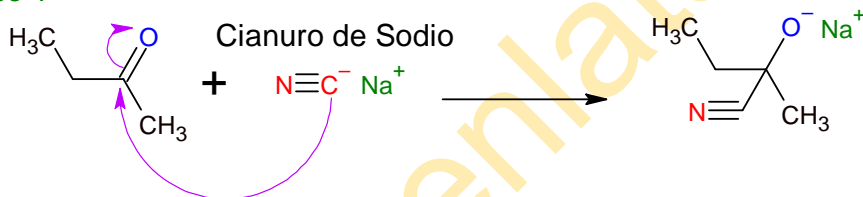


Formación de Cianohídrinas con cetonas

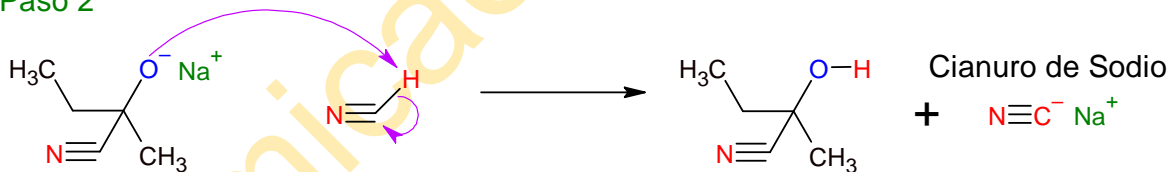


Mecanismo

Paso 1



Paso 2



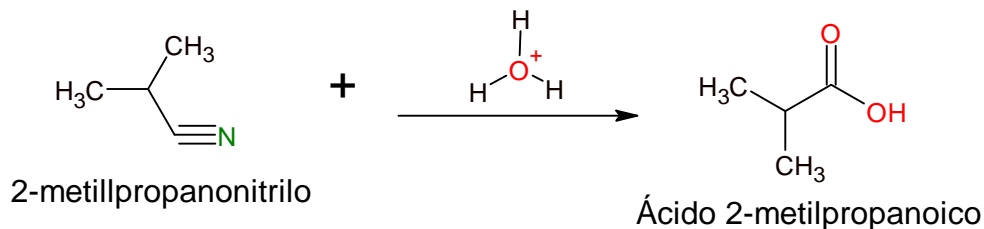
Cianohidrina de la 2 butanona



Reacciones de Nitrilos | Mecanismos

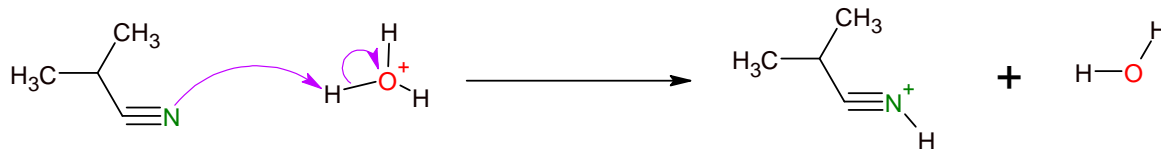
1. Hidrolisis de Nitrilos

Hidrolisis de Nitrilos

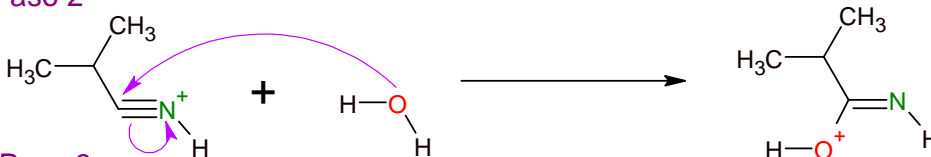


Mecanismo

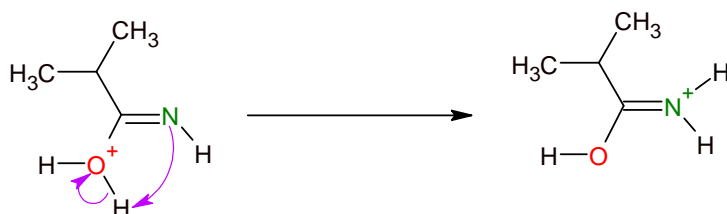
Paso 1



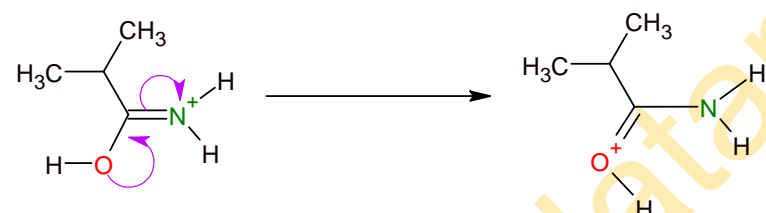
Paso 2



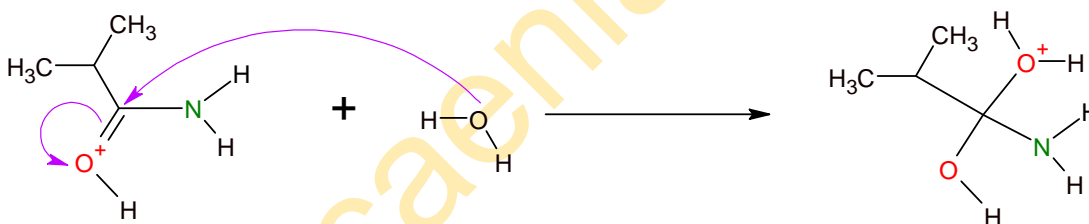
Paso 3



Paso 4



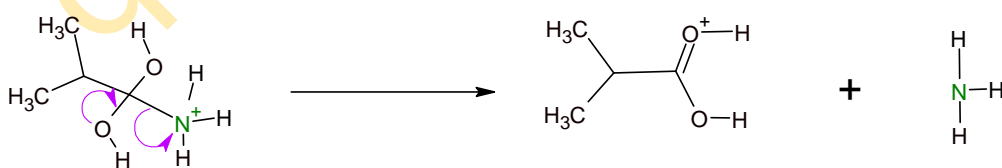
Paso 5



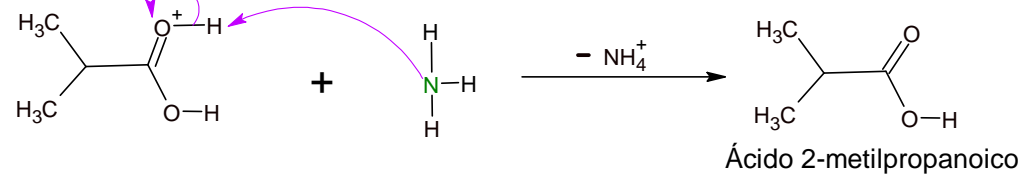
Paso 6



Paso 7

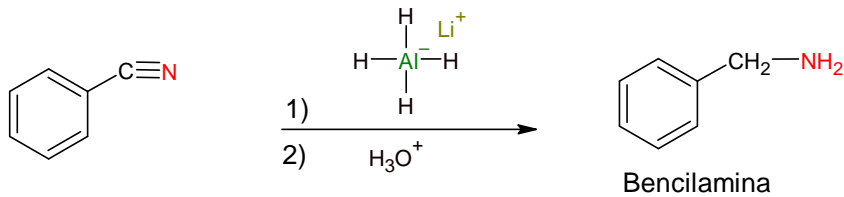


Paso 8



2. Reducción de un nitrilo a una amina

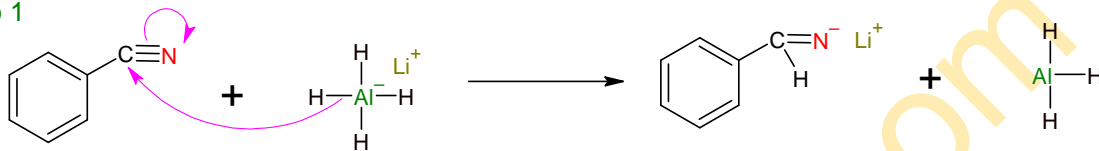
Reducción mediante la adición de un hidruro



Catión Bencenodiazonio

Mecanismo

Paso 1



Paso 2



Paso 3

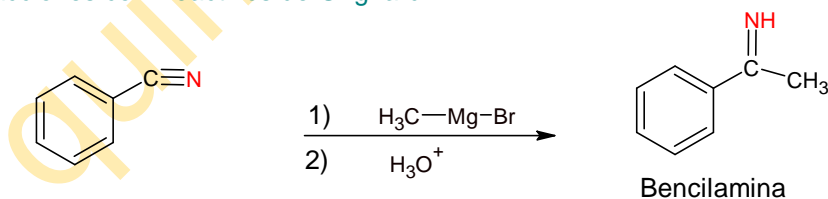


Paso 4



3. Reacción con Reactivos de Grignard

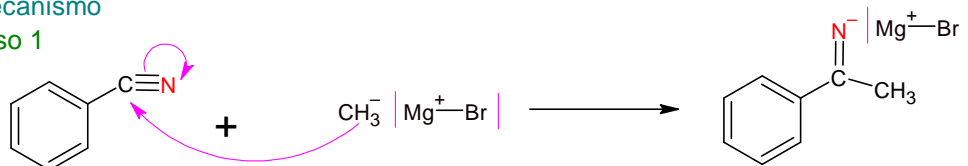
Reacciones con Reactivos de Grignard



Catión Bencenodiazonio

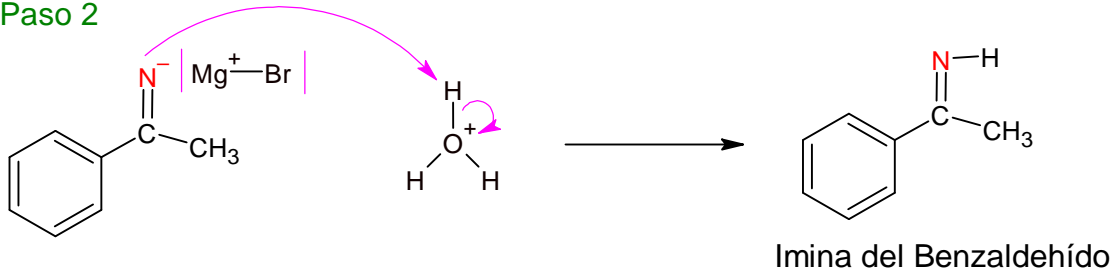
Mecanismo

Paso 1



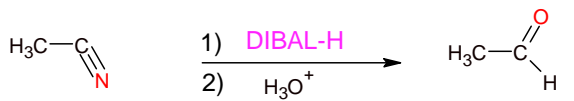
Sal de magnesio de la Imina del Benzaldehído

Paso 2



4. Reducción de un nitrilo a un Aldehído | DIBAL-H

Síntesis de aldehídos mediante el uso de DIBAL-H

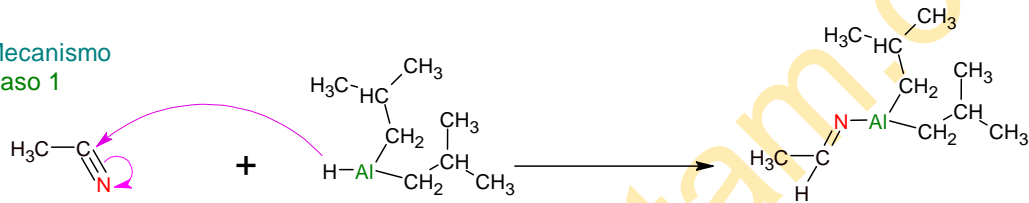


acetato de metilo

Acetaldehído

Mecanismo

Paso 1



Paso 2



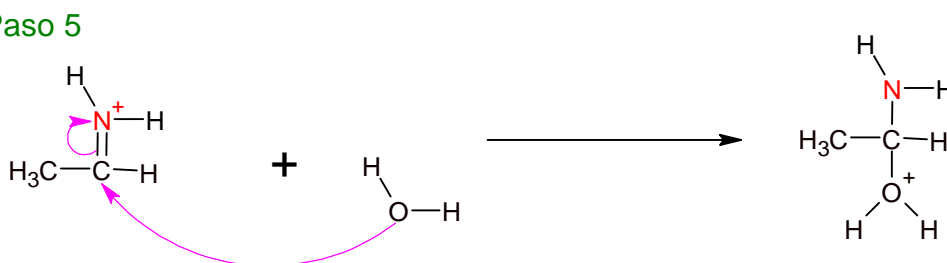
Paso 3



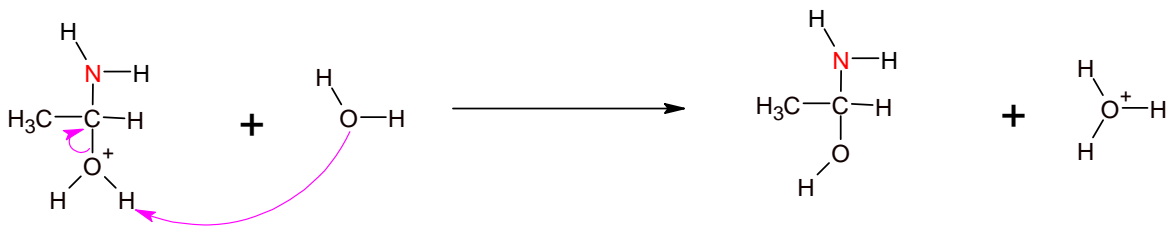
Paso 4



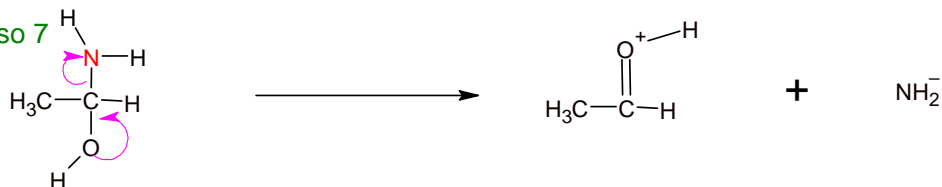
Paso 5



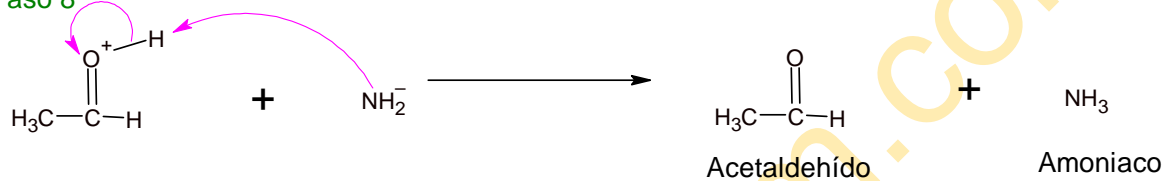
Paso 6



Paso 7



Paso 8



PROPIEDAD DE

Química en
Latam