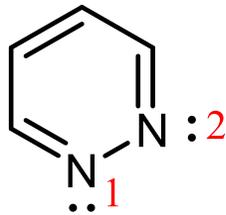
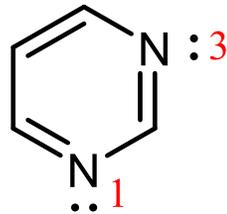


# Diazinas

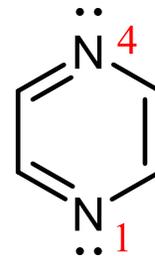
Anillos de seis miembros con dos heteroátomos



Piridazina

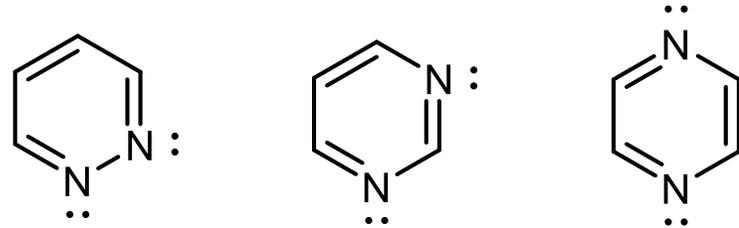


Pirimidina

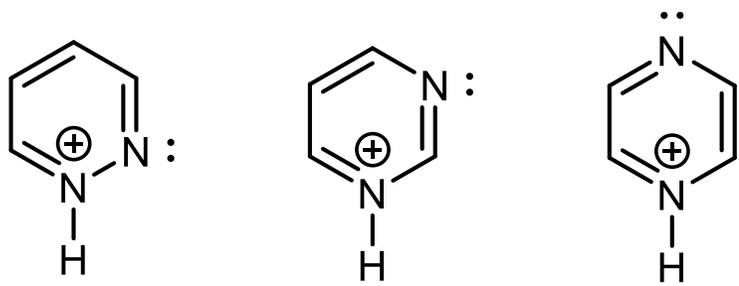
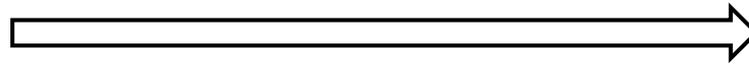


Pirazina

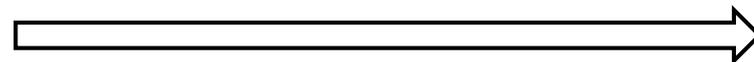
# Propiedades ácido-base



Disminuye la basicidad (aumenta  $pK_b$ )



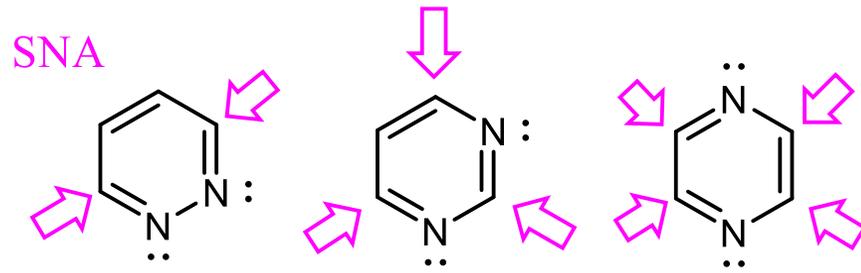
Aumenta la acidez (disminuye  $pK_a$ )



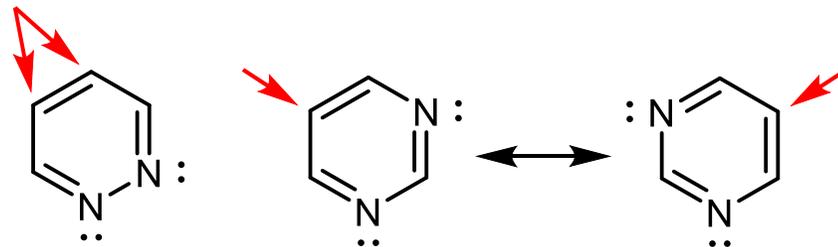
# Aromaticidad

C  
imínicos → favorecen

- la tautomería ceto-enólica
- la SNA en los C unidos a N
- la protonación y la cuaternización

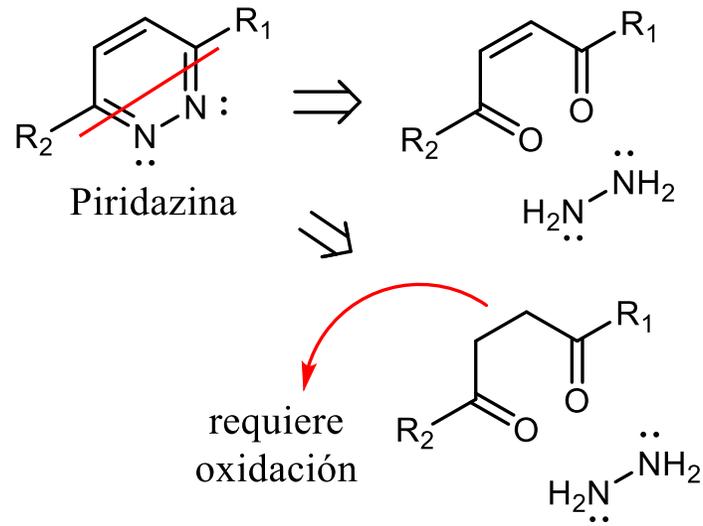


*Por lo tanto, la SEA se da sólo en*

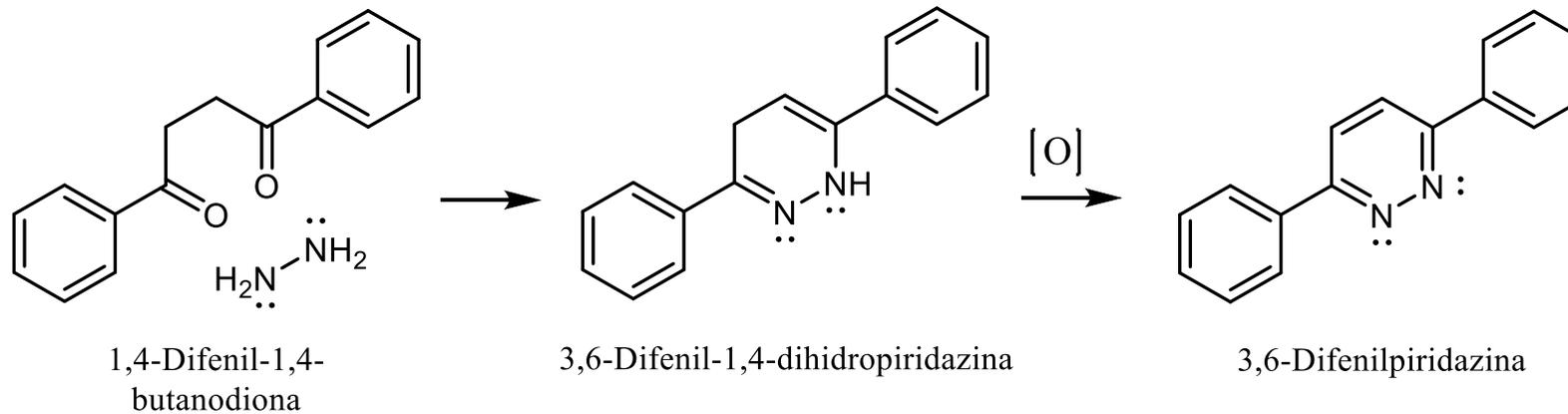


*No obstante, como son anillos desactivados,  
la SEA ocurre sólo en presencia de grupos activantes*

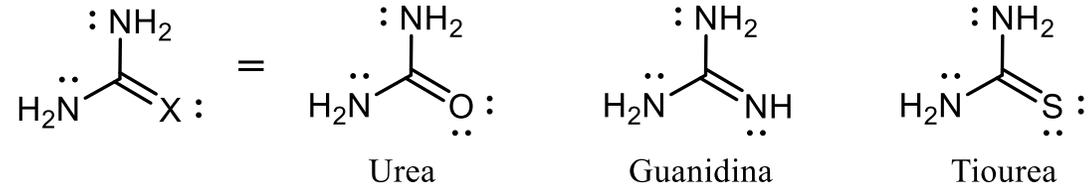
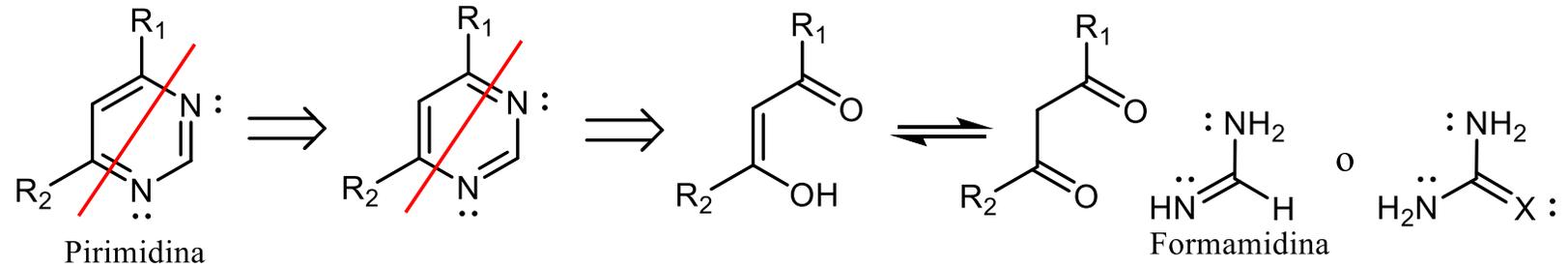
# Síntesis



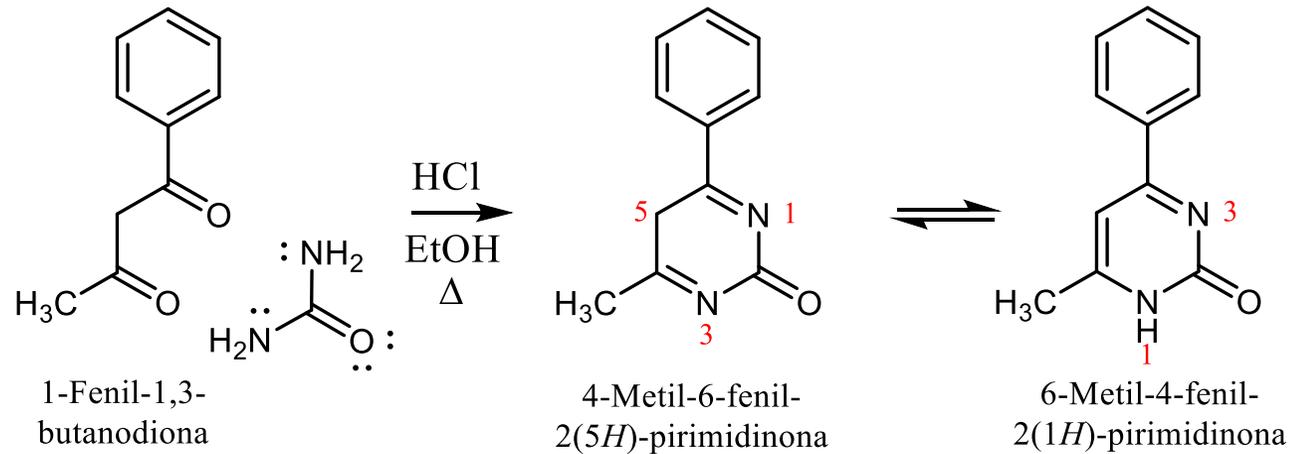
*Ejemplo:*



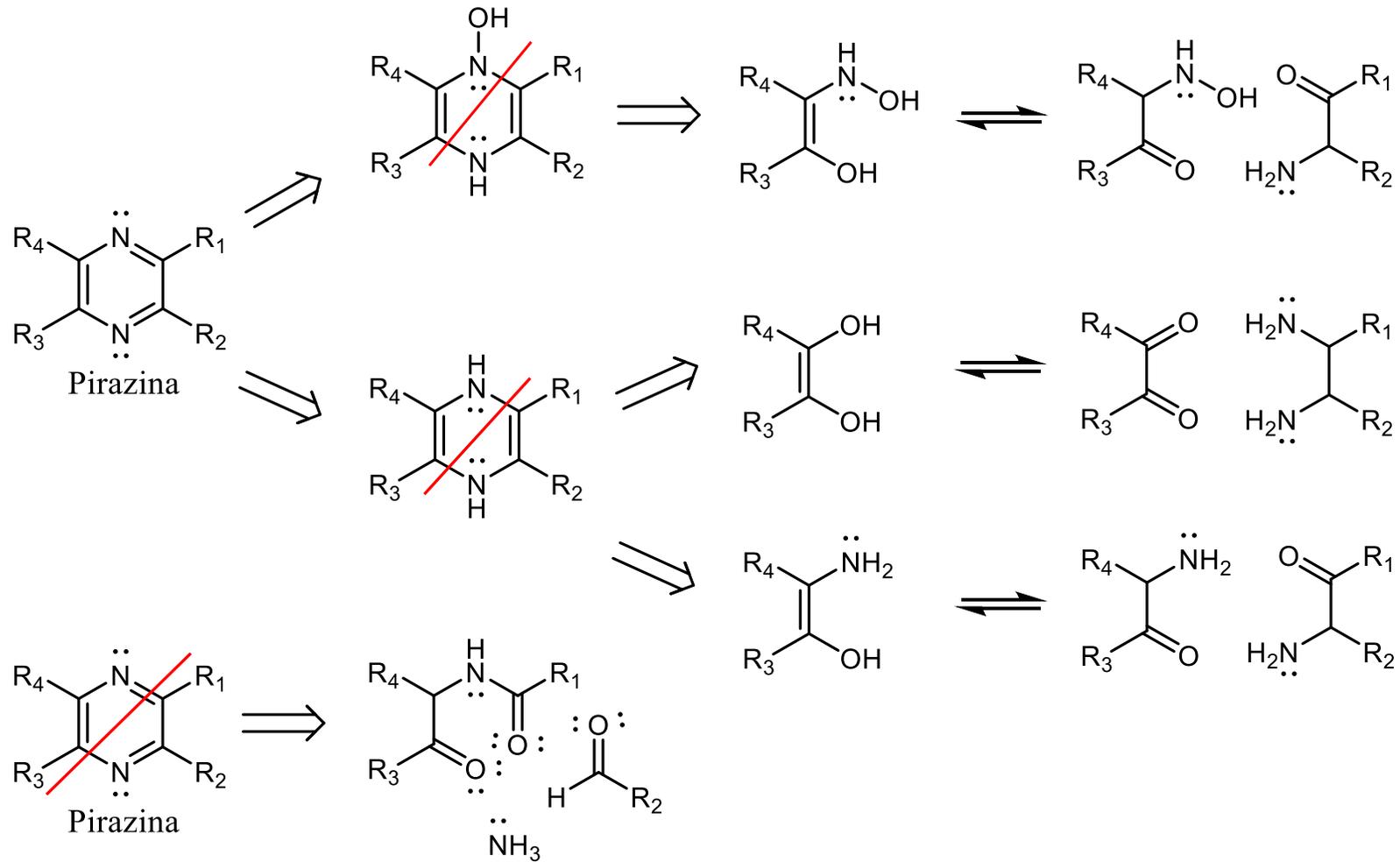
# Síntesis



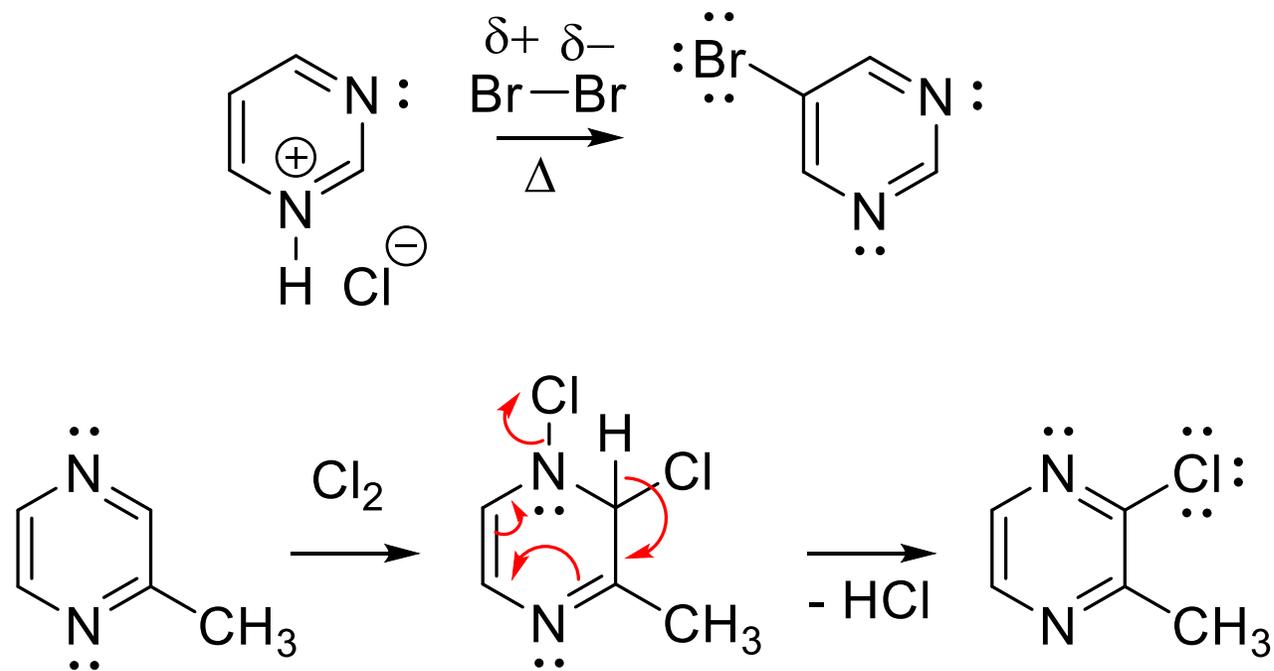
*Ejemplo:*



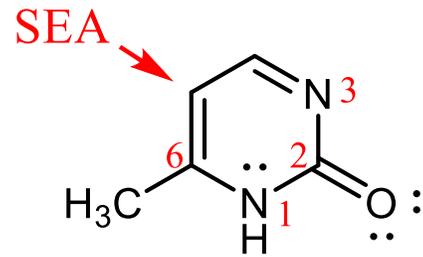
# Síntesis



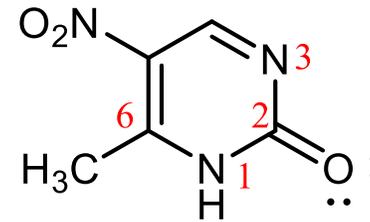
SEA  $\rightarrow$  se da, pero no por los mecanismos clásicos



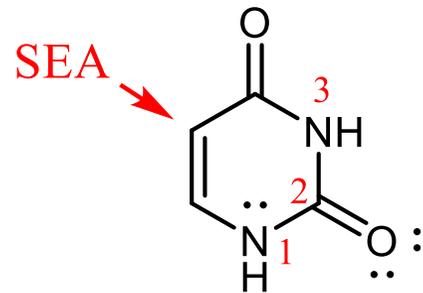
# SEA



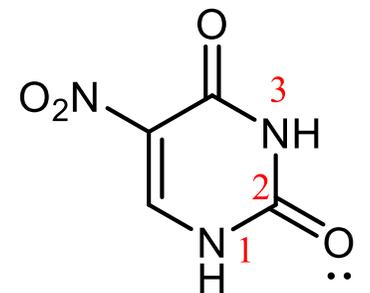
6-Metil-2(1H)-  
pirimidinona



6-Metil-5-nitro-  
2(1H)-pirimidinona

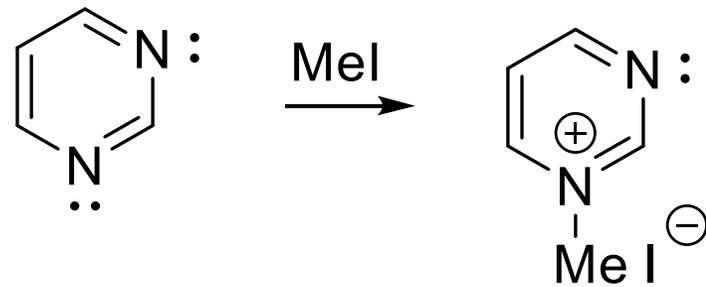
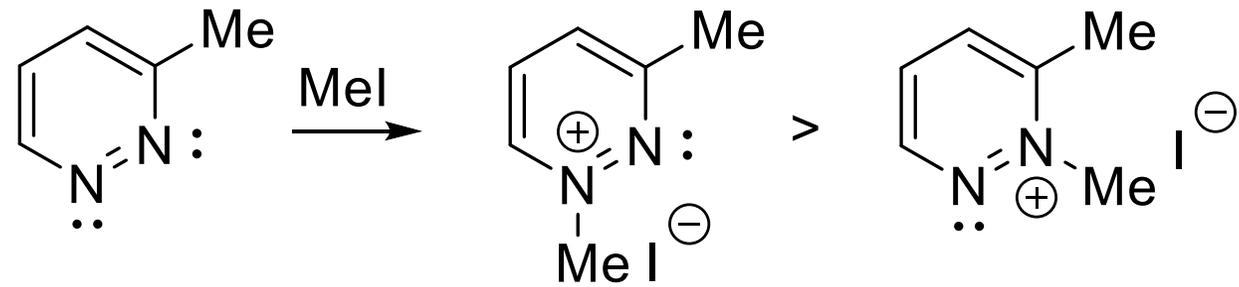


2,4(1H,3H)-  
Pirimidinodiona

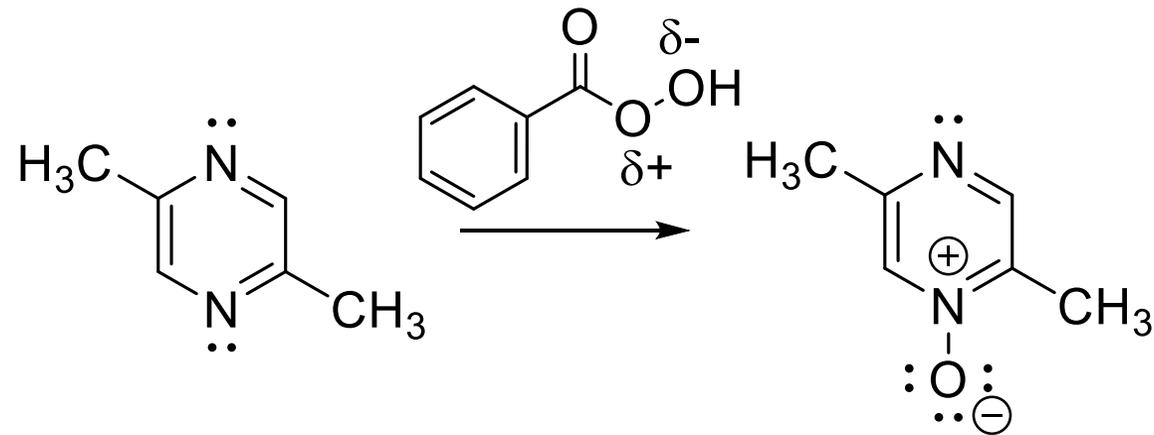
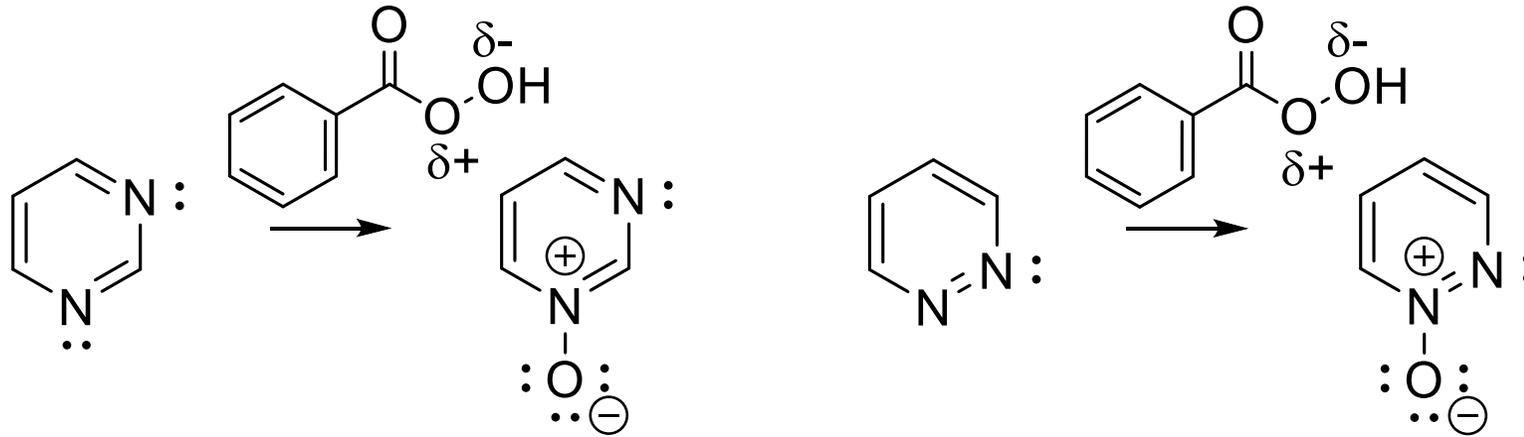


5-Nitro-2,4(1H,3H)-  
pirimidinodiona

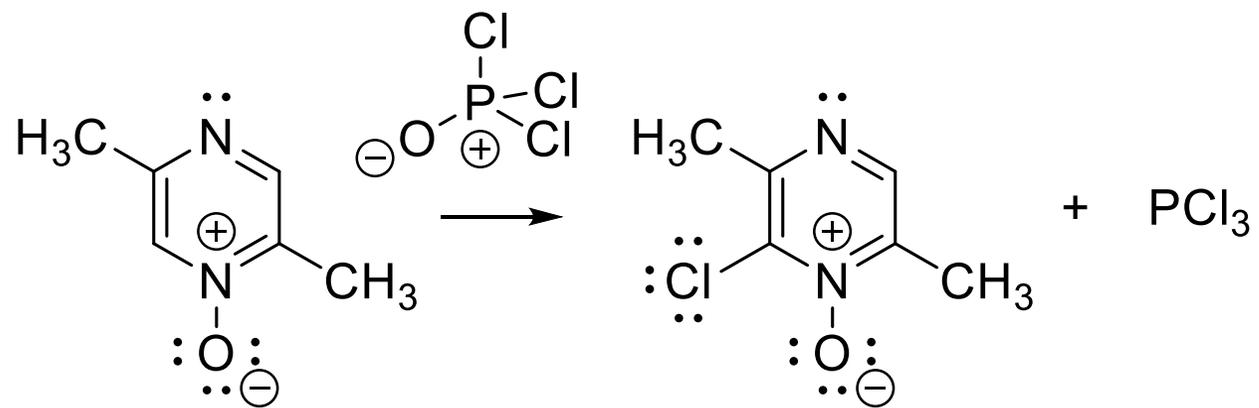
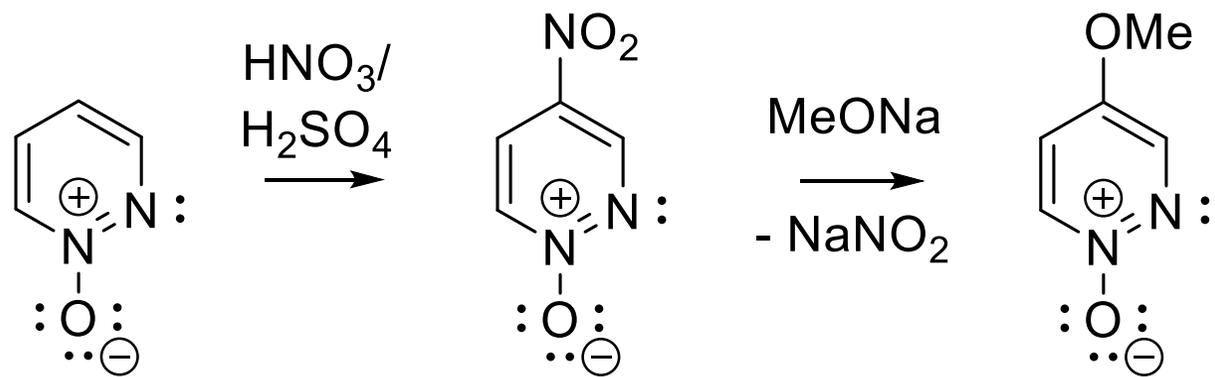
# Cuaternización



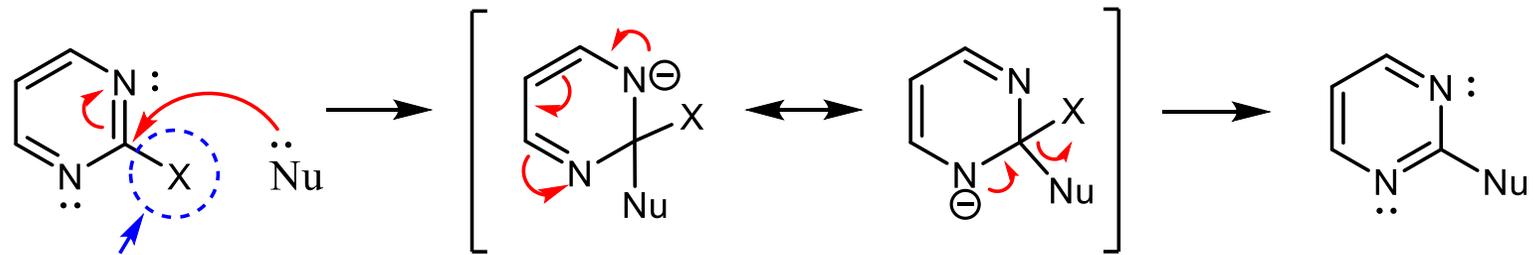
# Cuaternización Formación de N-óxidos



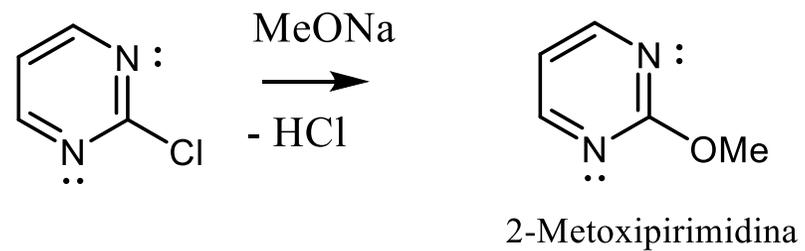
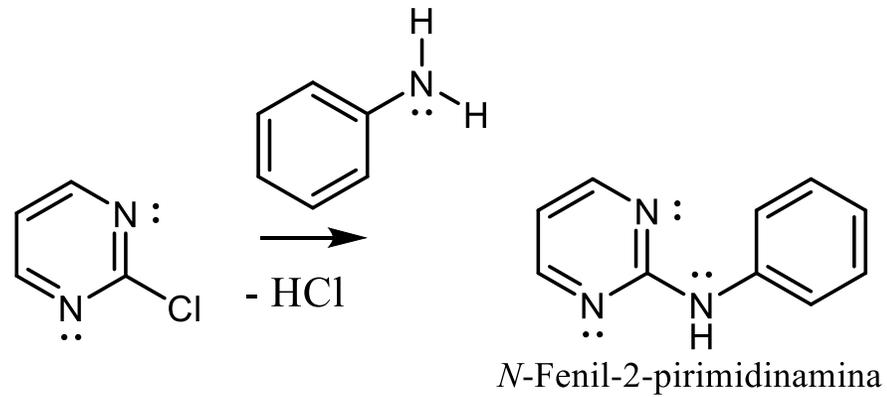
# SNA en N-óxidos



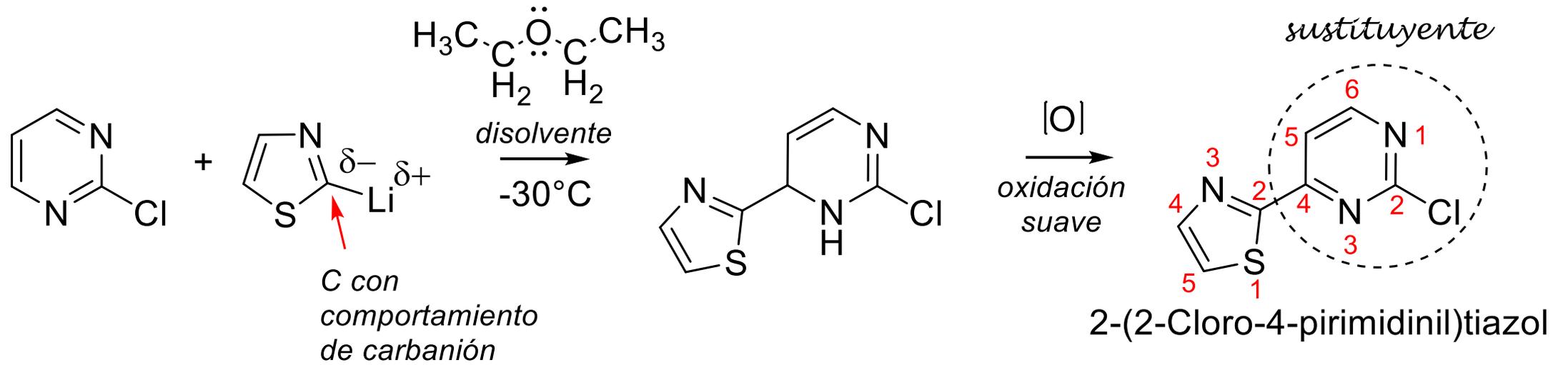
# SNA



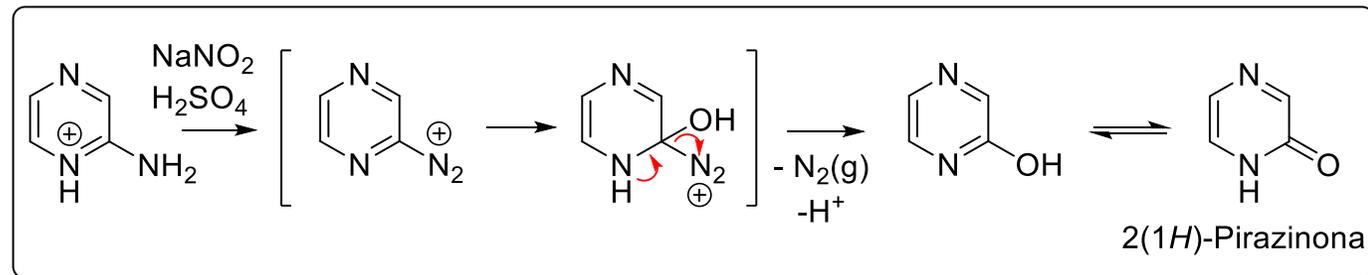
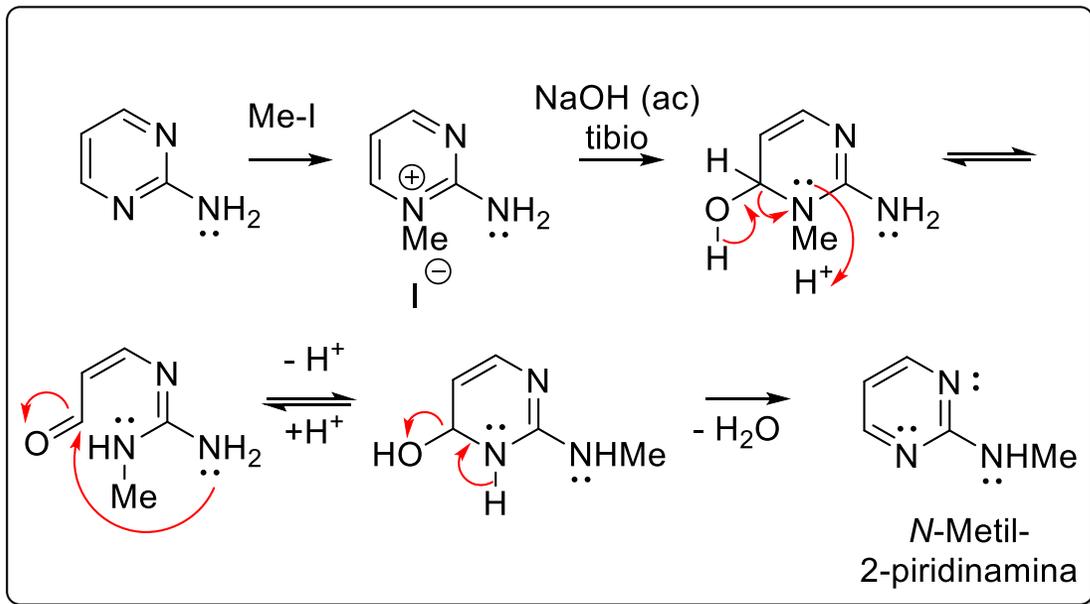
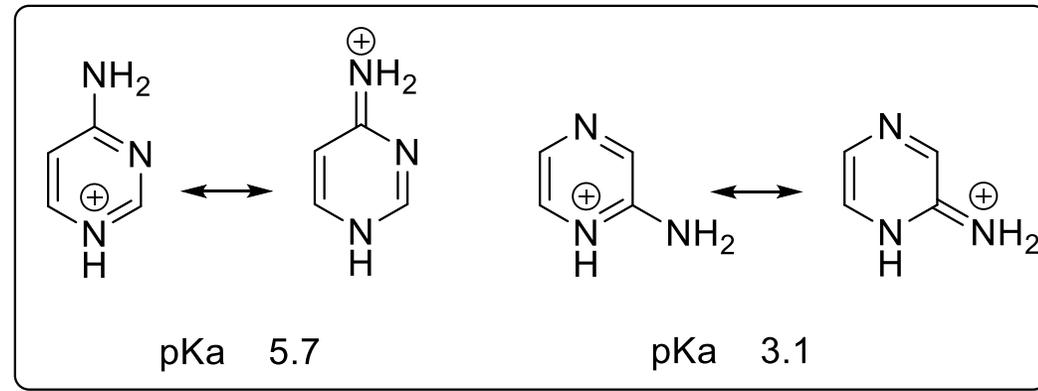
buen grupo saliente



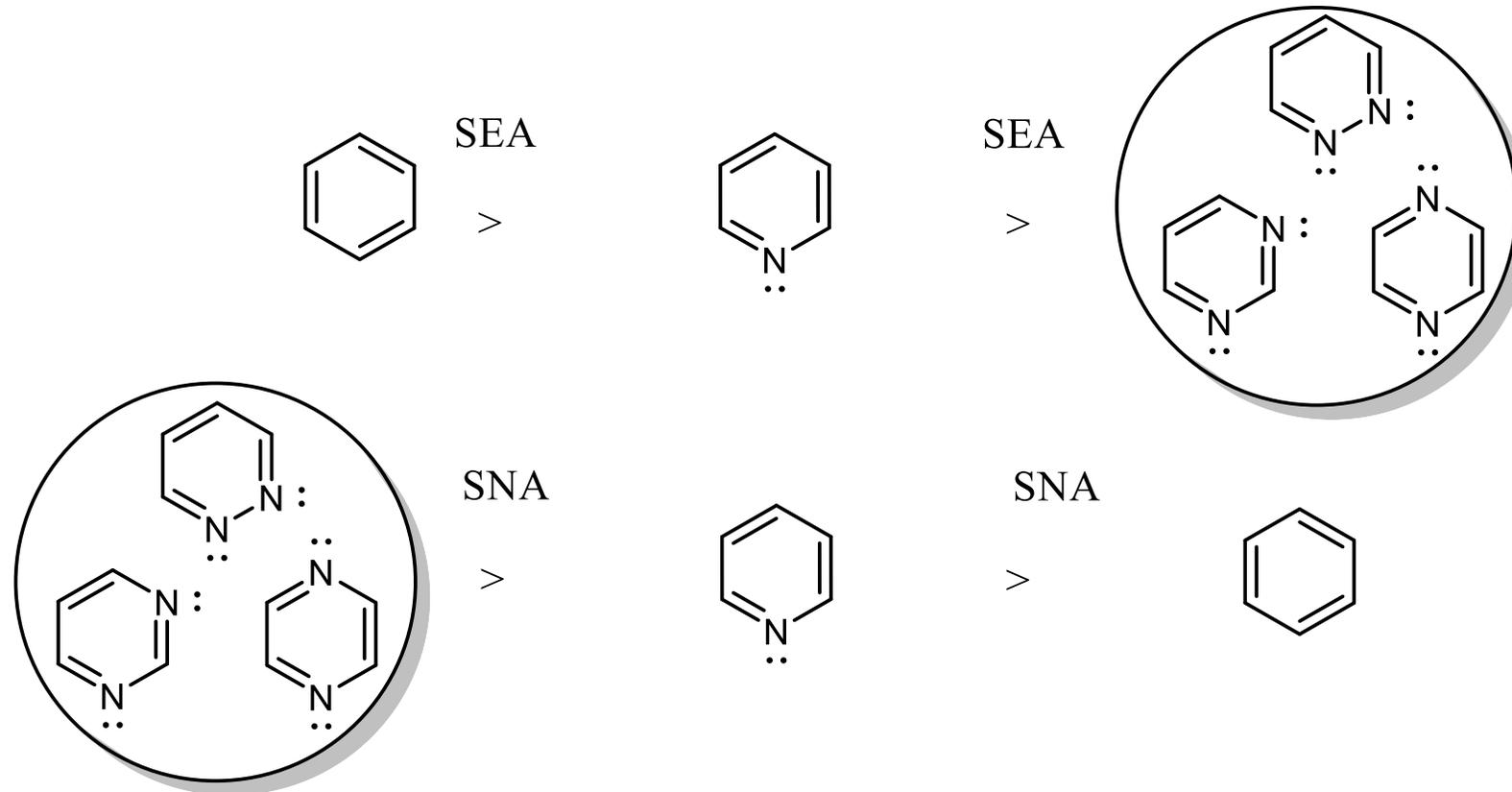
# SNA



# Algunas reacciones de diazinas con sustituyentes amino



# Reactividad con respecto a la piridina y el benceno



Conforme aumenta el carácter aromático, se favorece más la SEA, y a medida que disminuye, se favorece más la SNA