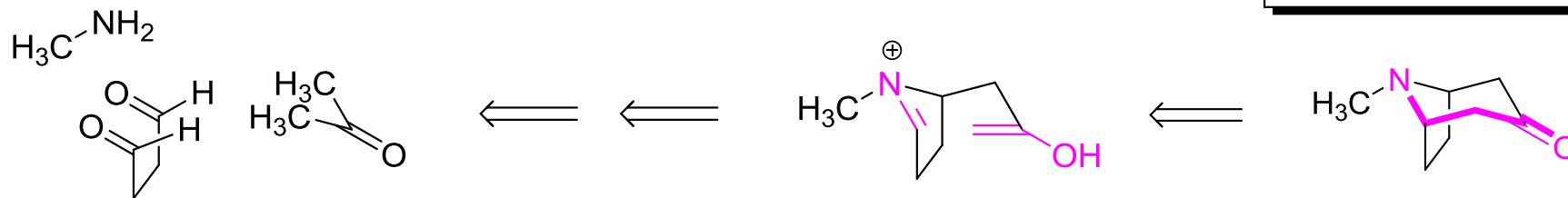
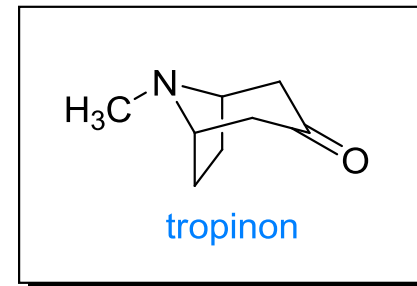
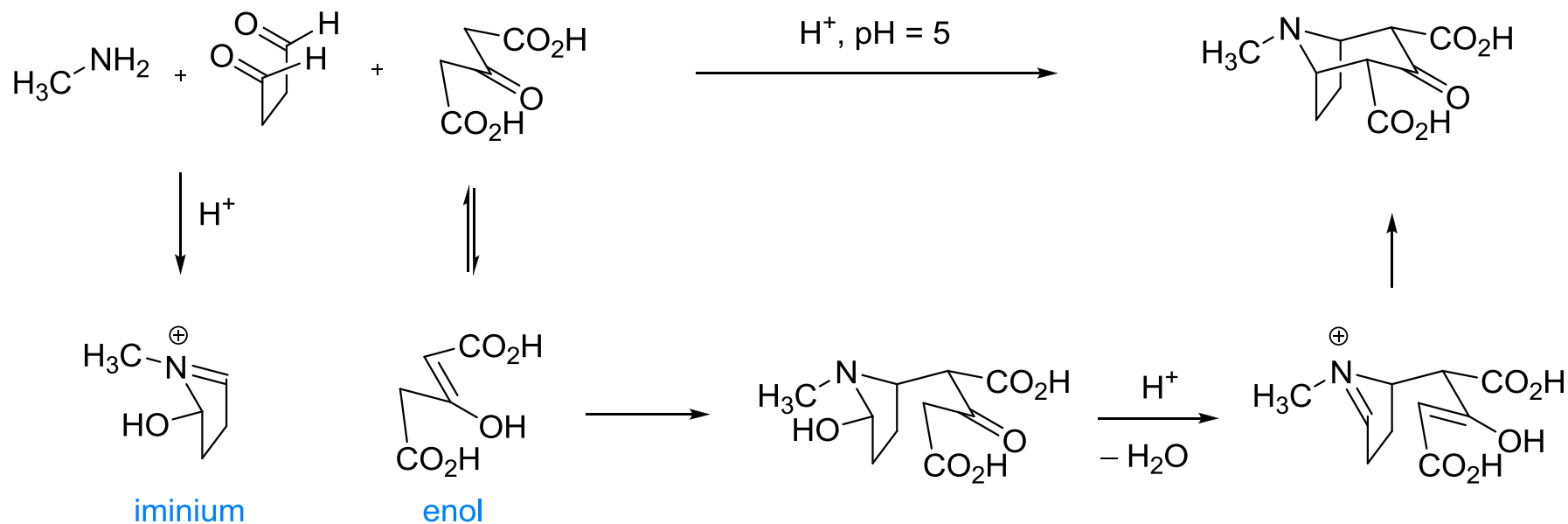




- Mannichova reakce je často používána v (bio)syntéze alkaloidů

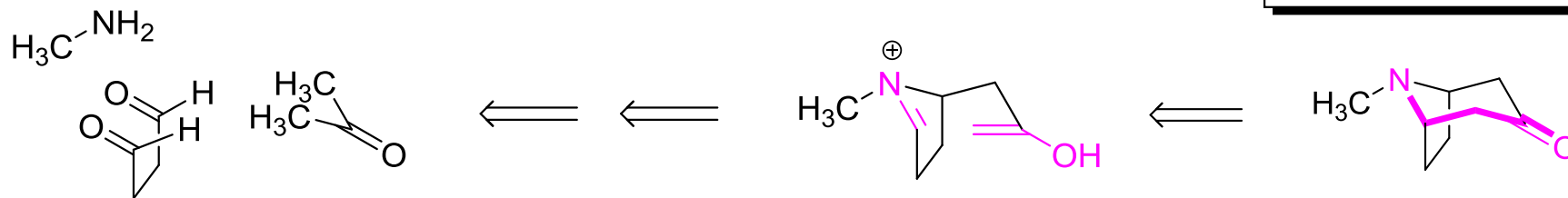
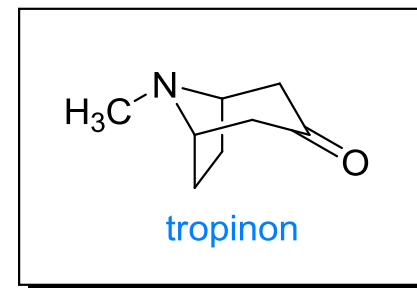


Biomimetická syntéza tropinonu v laboratoři (1917 (!), Robinson, Nobel prize)

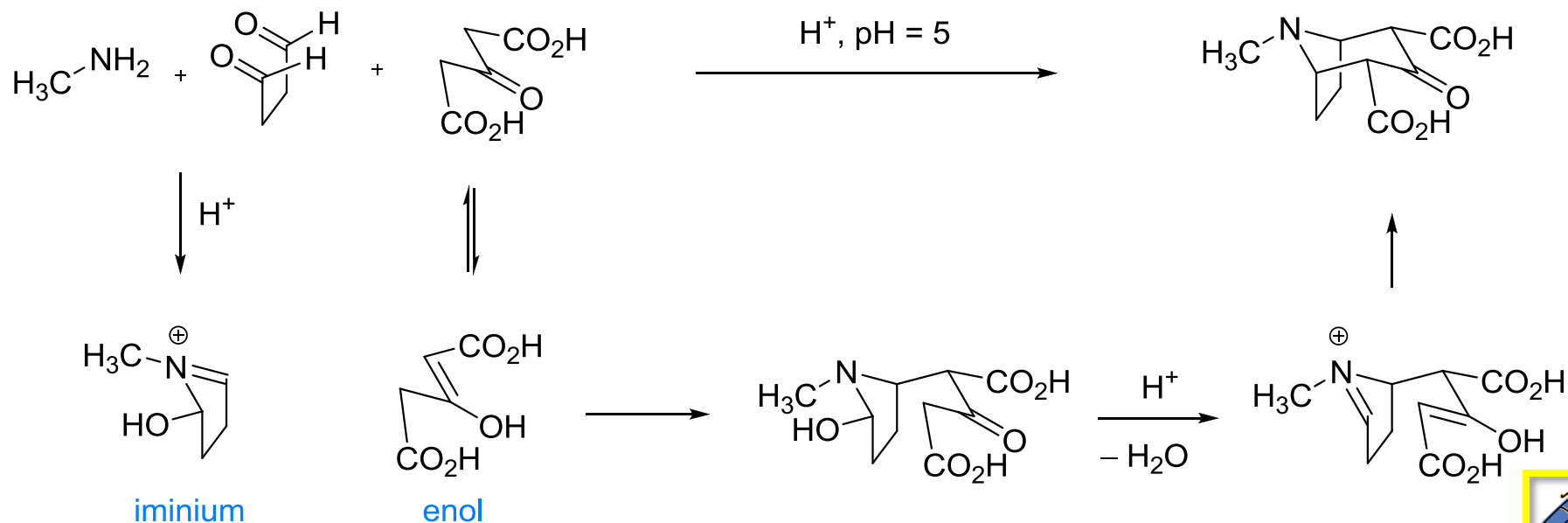




- Mannichova reakce je často používána v (bio)syntéze alkaloidů

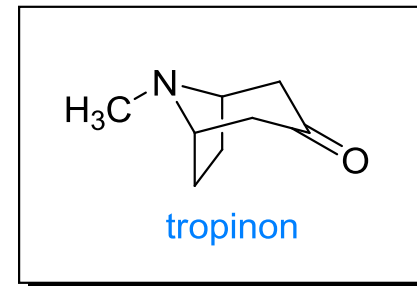
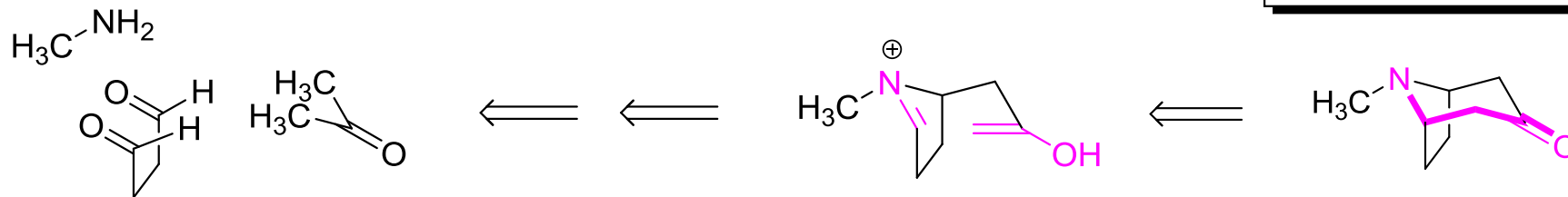


Biomimetická syntéza tropinonu v laboratoři (1917 (!), Robinson, Nobel prize)

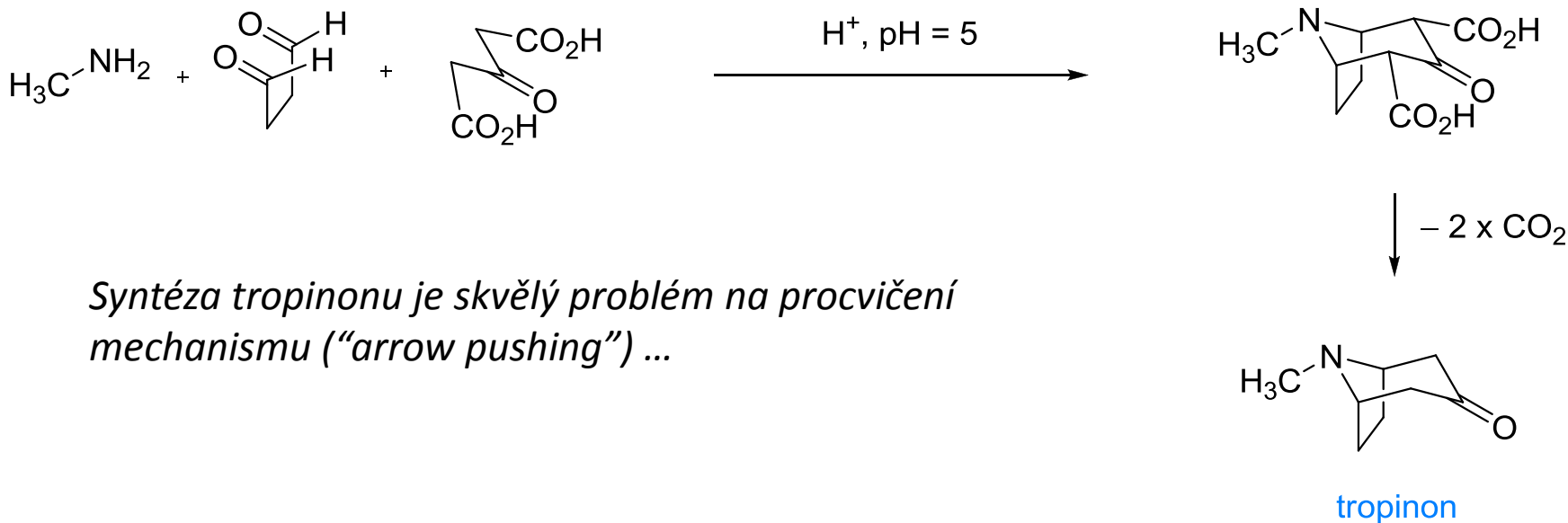




- Mannichova reakce je často používána v (bio)syntéze alkaloidů



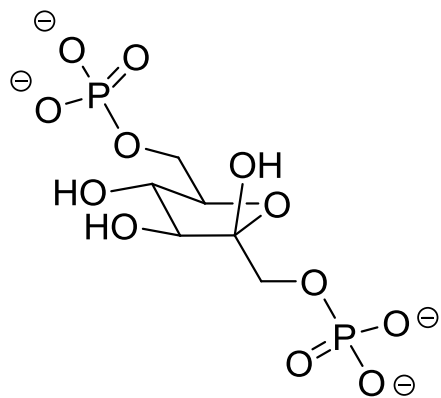
Biomimetická syntéza tropinonu v laboratoři (1917 (!), Robinson, Nobel prize)



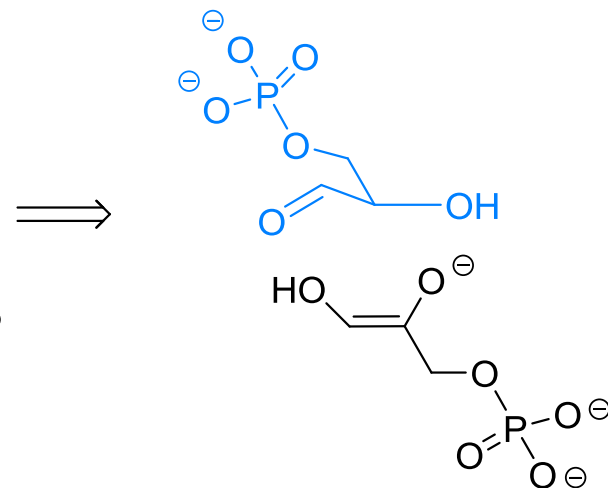
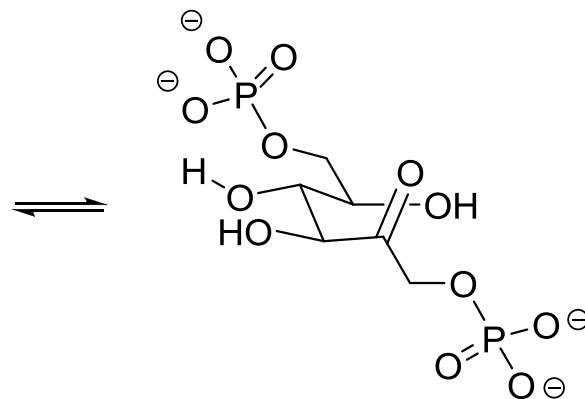
Syntéza tropinonu je skvělý problém na procvičení mechanismu ("arrow pushing") ...



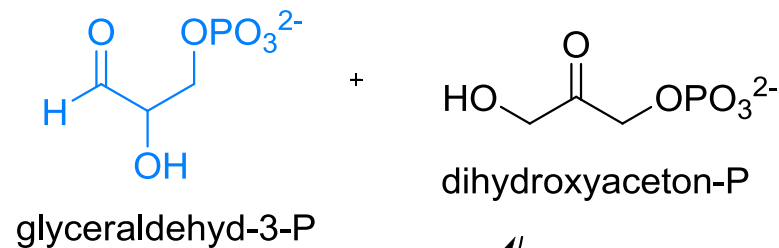
▪ Biosyntéza cukrů



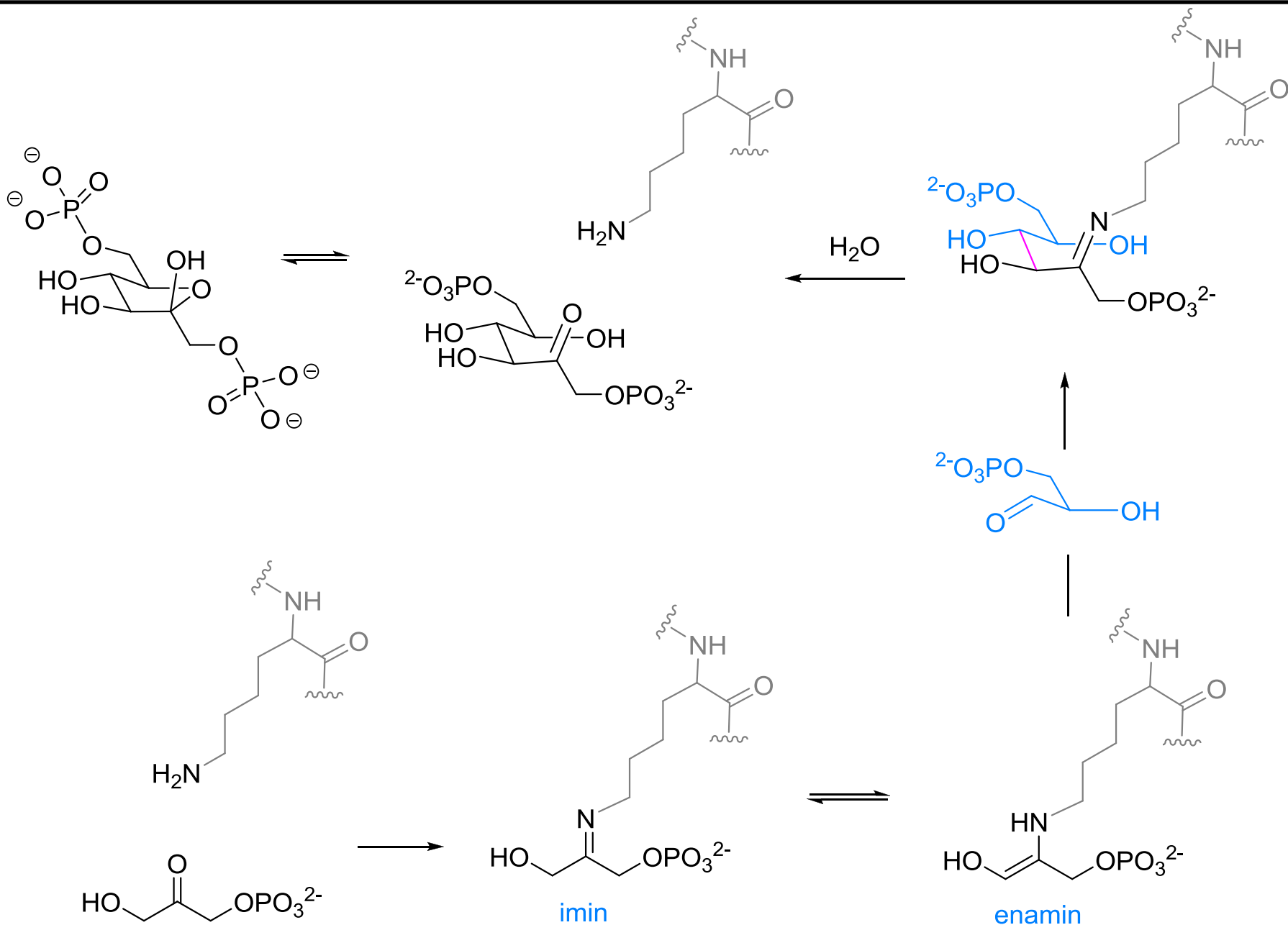
Fruktosa-1,6-P₂

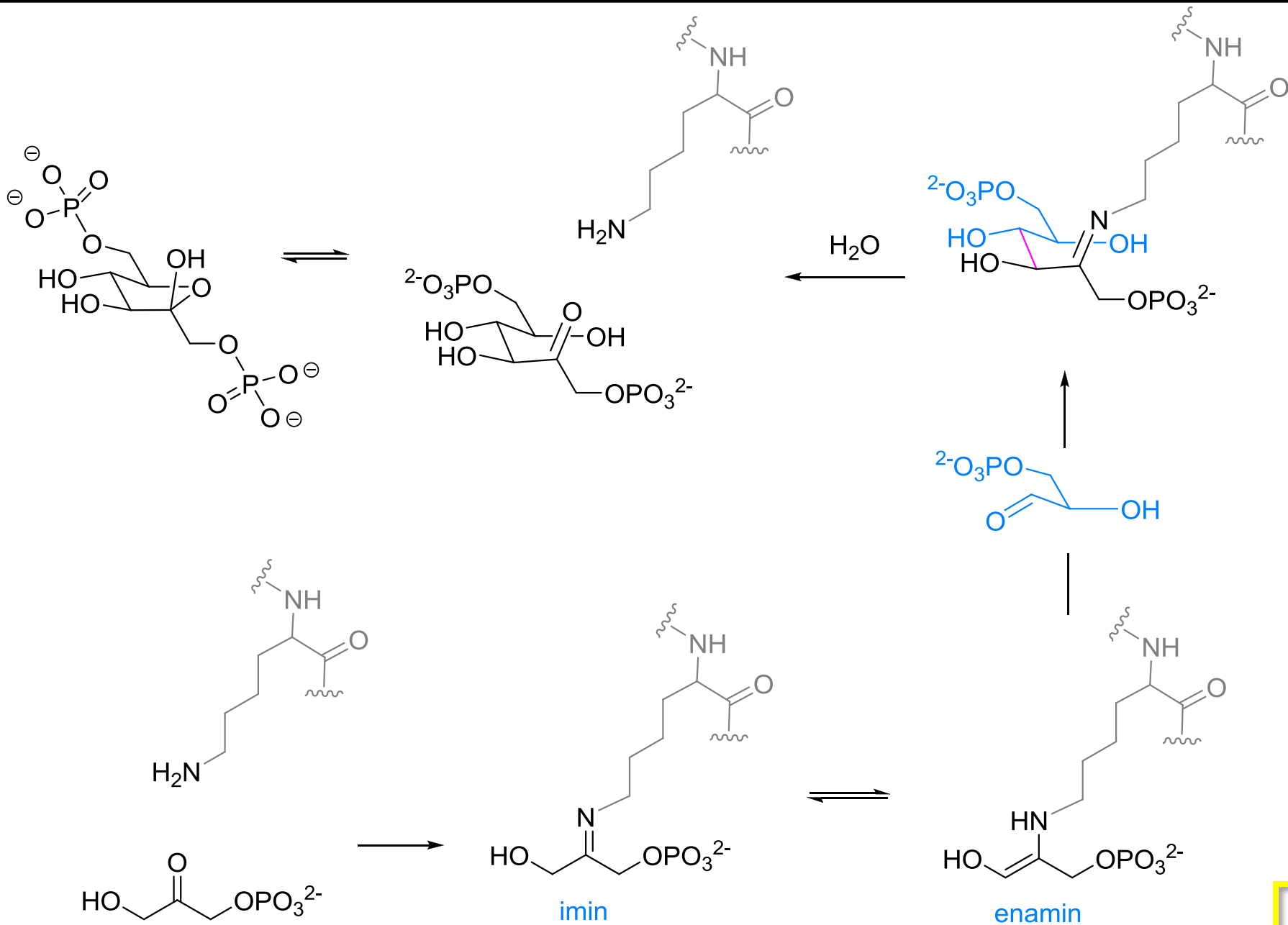


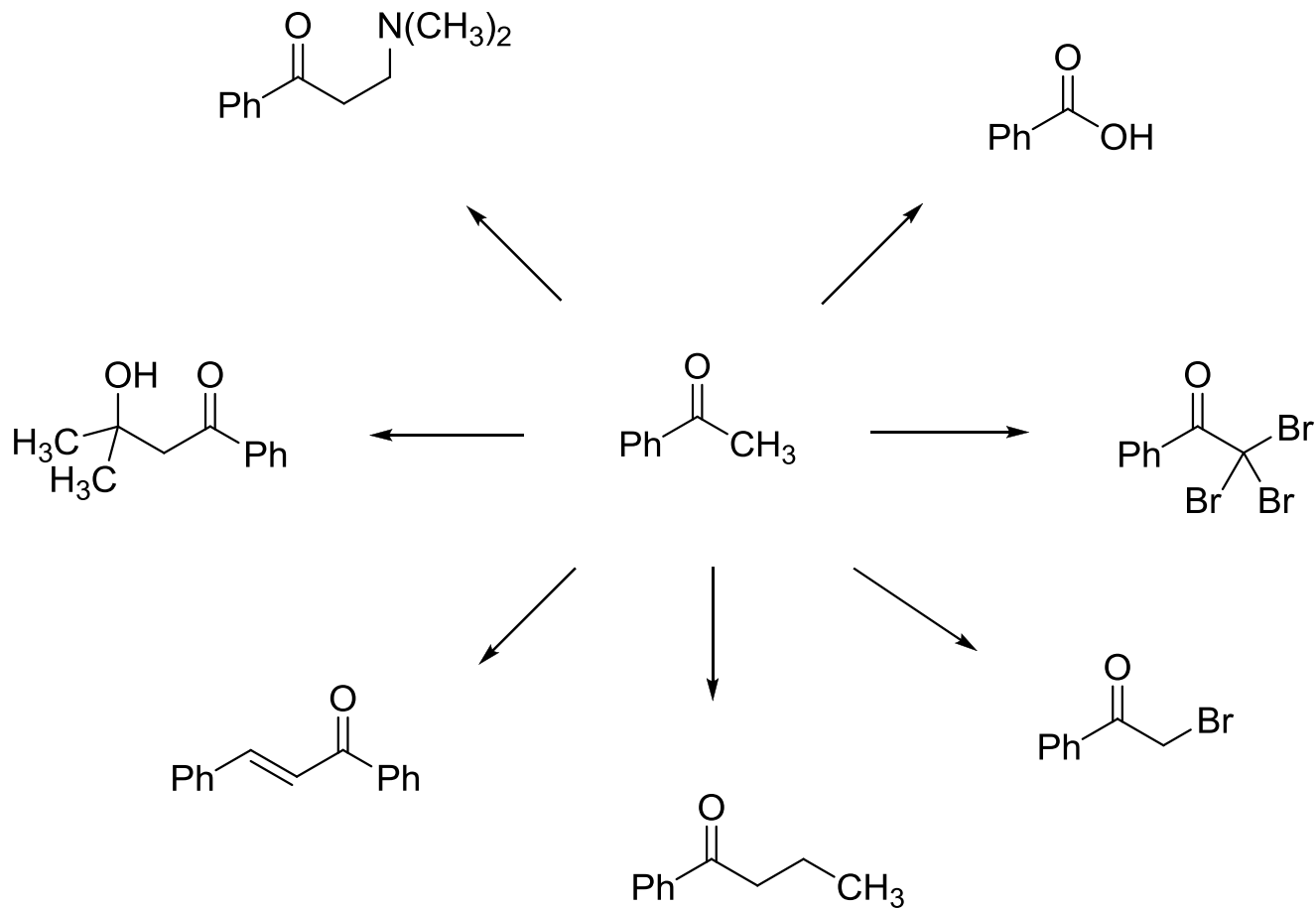
Q: jak rozpoznat strukturní element aldolové reakce?

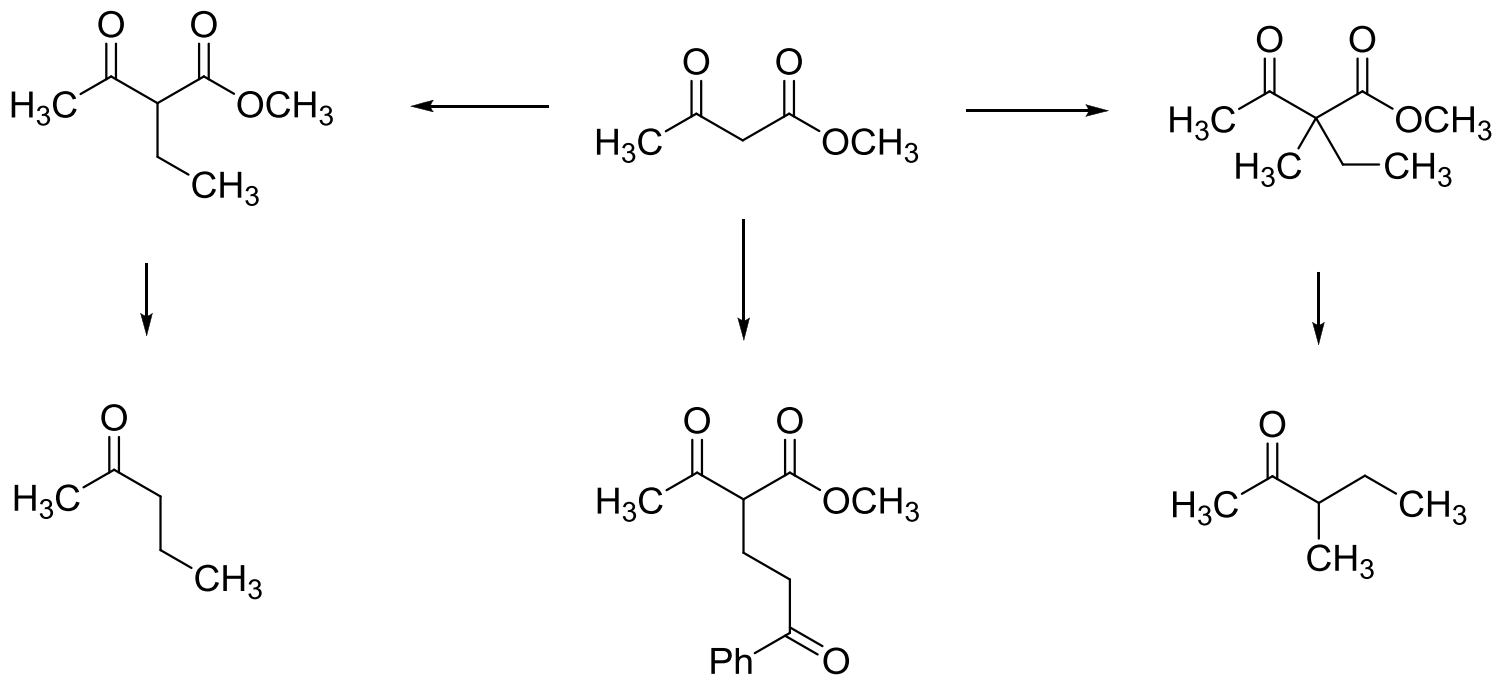


Q: mechanismus izomerace?



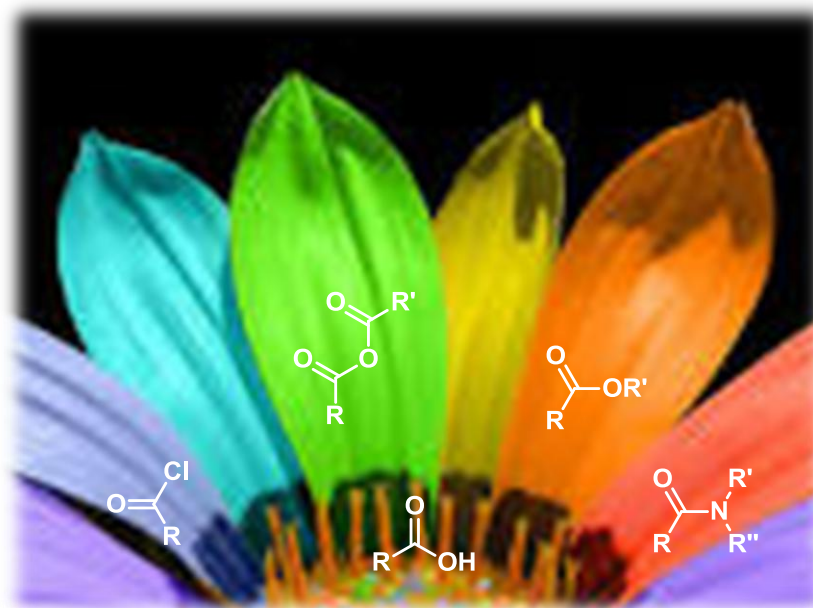






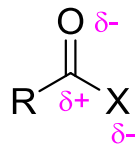


5. Deriváty karboxylových kyselin

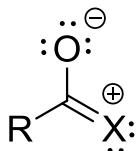
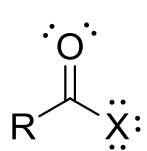




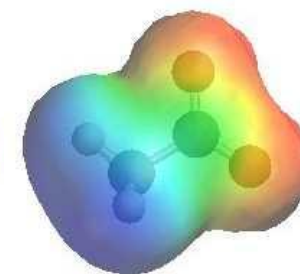
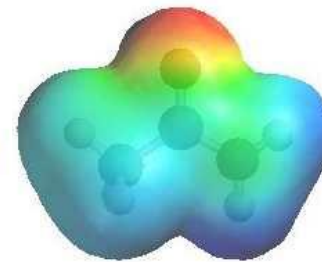
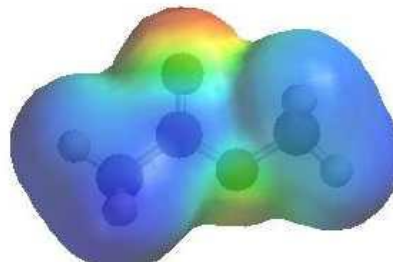
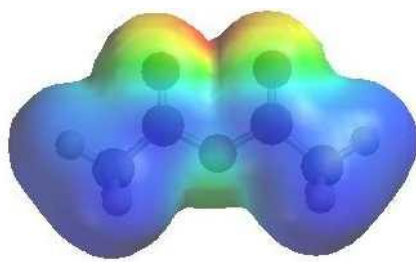
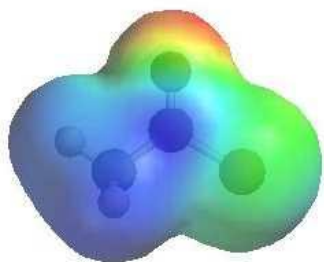
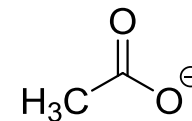
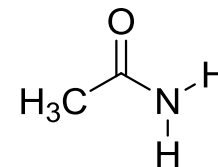
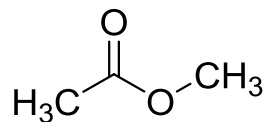
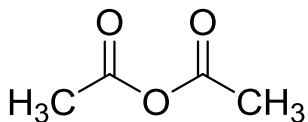
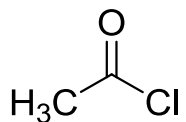
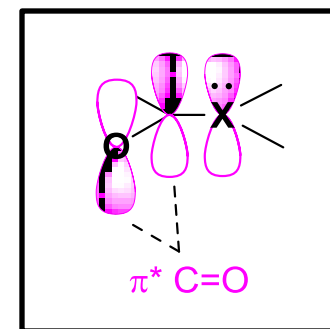
Fundamentální reaktivita



indukční efekt



mezomerní efekt (delokalizace)



images from: <http://www.chem.ucalgary.ca/courses/350/Carey5th/Ch20/ch20-1-3.html>

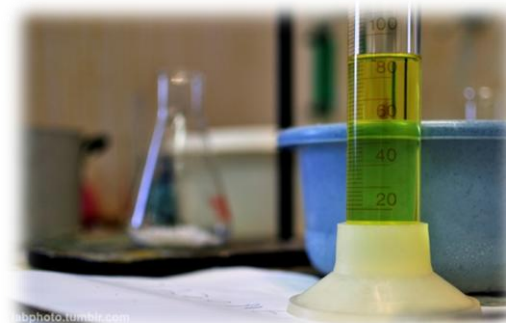
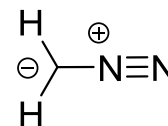
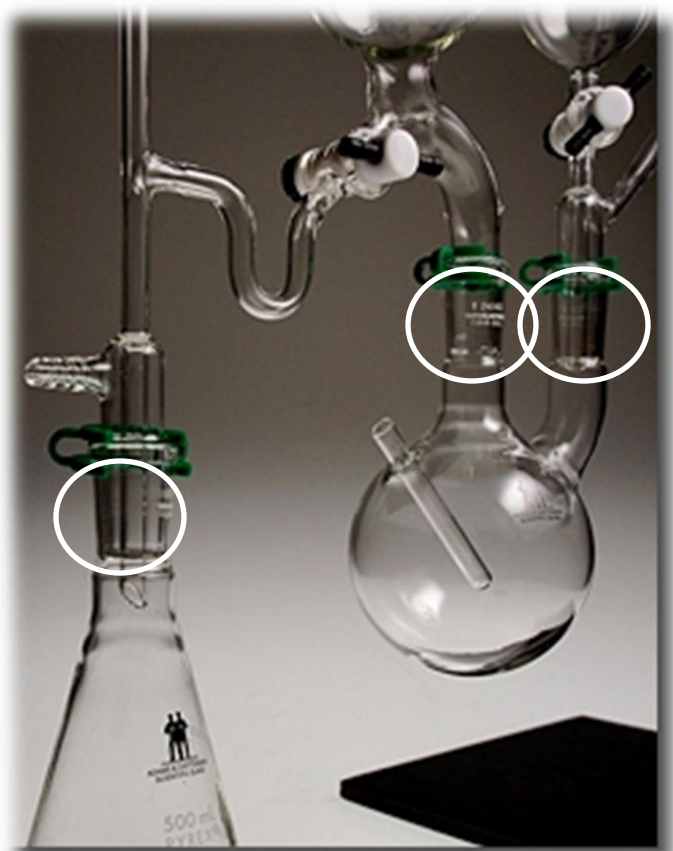


δ^-

δ^+



- Diazomethan je explozivní a toxický (b.v. $-23\text{ }^{\circ}\text{C}$)



roztok diazomethanu
v diethyl etheru

Destilační aparatura na přípravu diazomethanu (bez zábřusů)