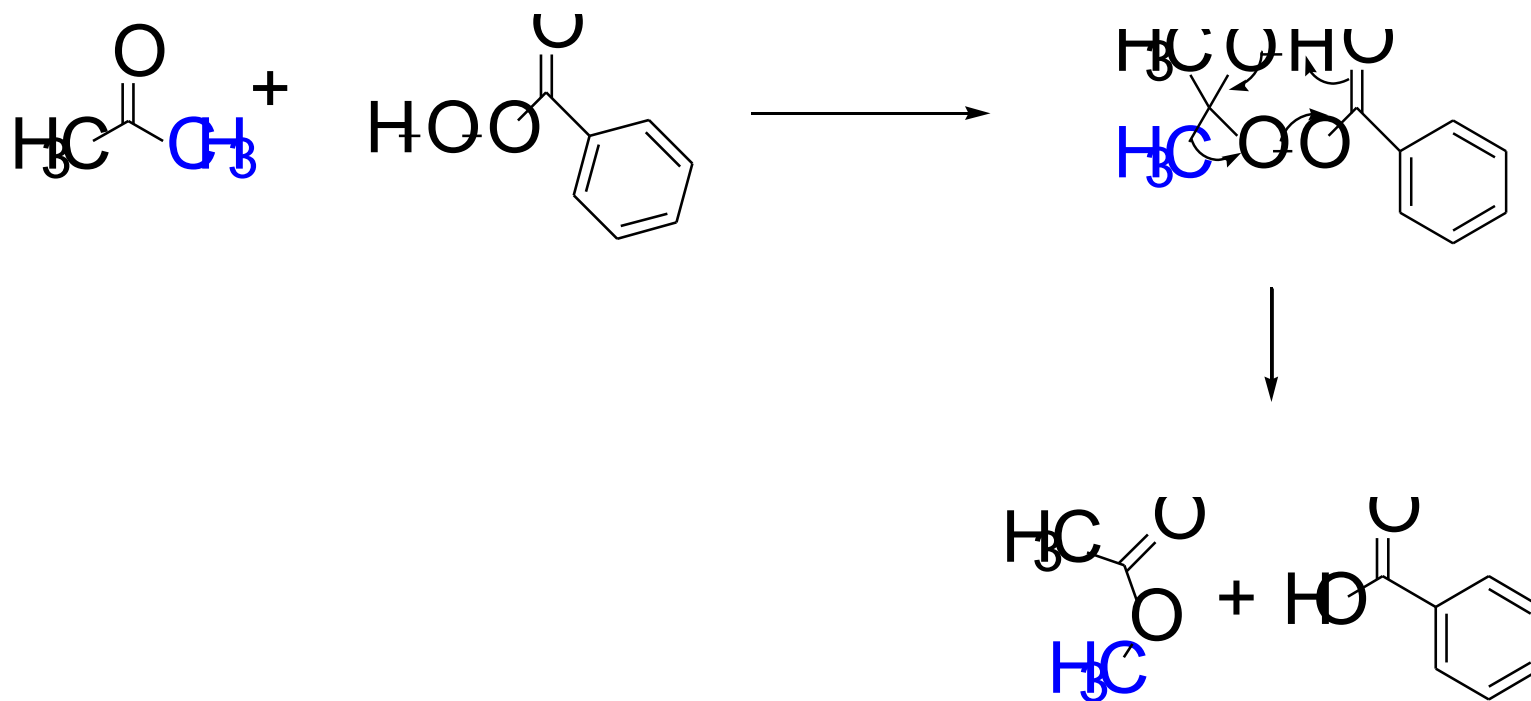


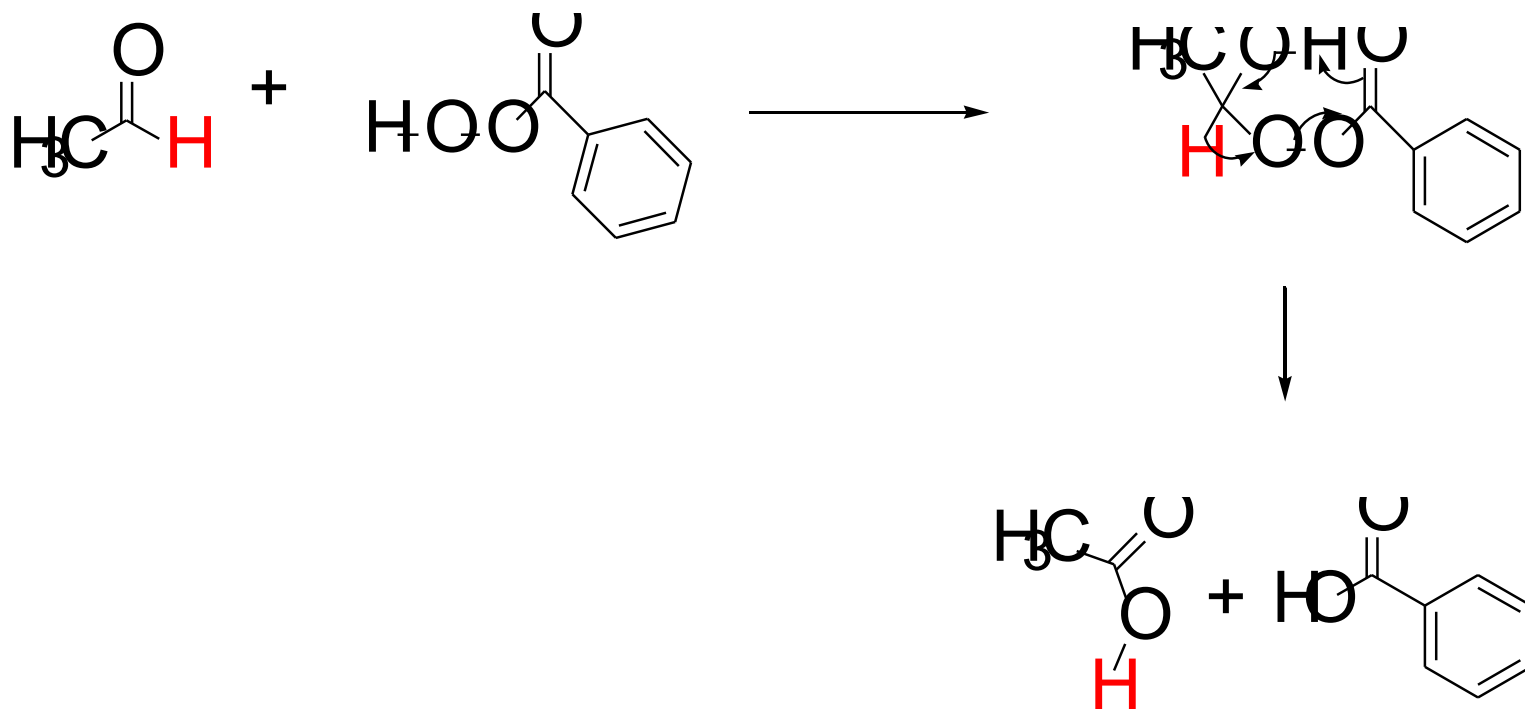
Bayer – Villigerova oxidace



methyl < primární < fenyl = sekundární < terciární < H



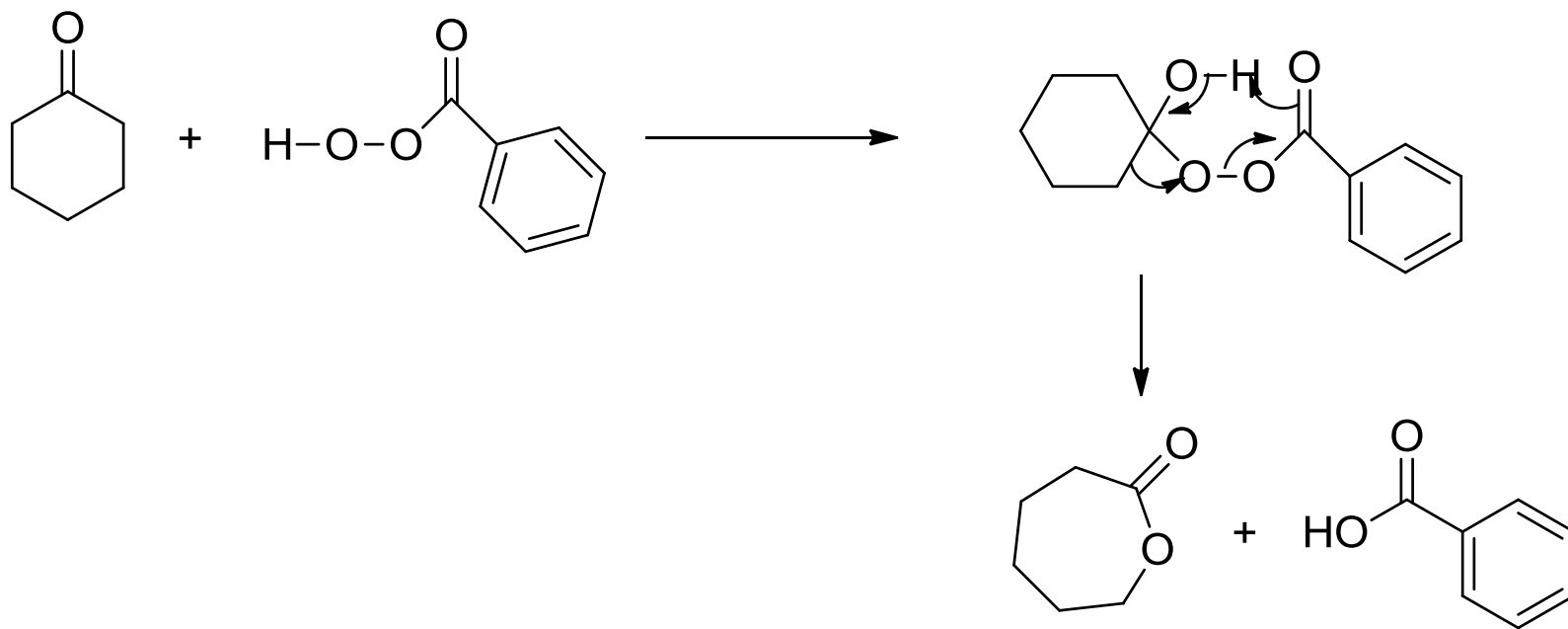
Bayer – Villigerova oxidace



methyl < primární < fenyl = sekundární < terciární < H



Bayer – Villigerova oxidace



methyl < primární < fenyl = sekundární < terciární < H



ENOLY A ENOLÁTY

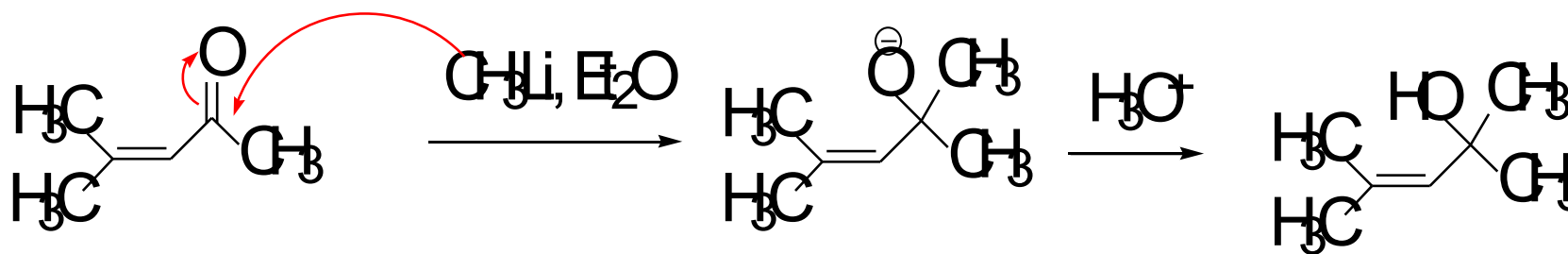
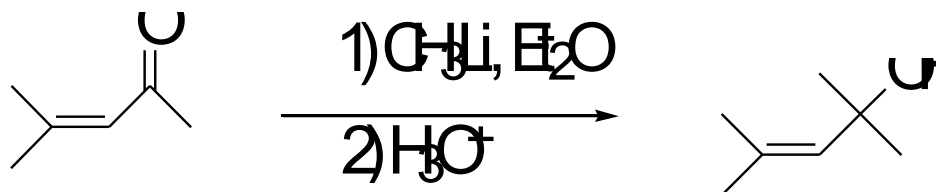


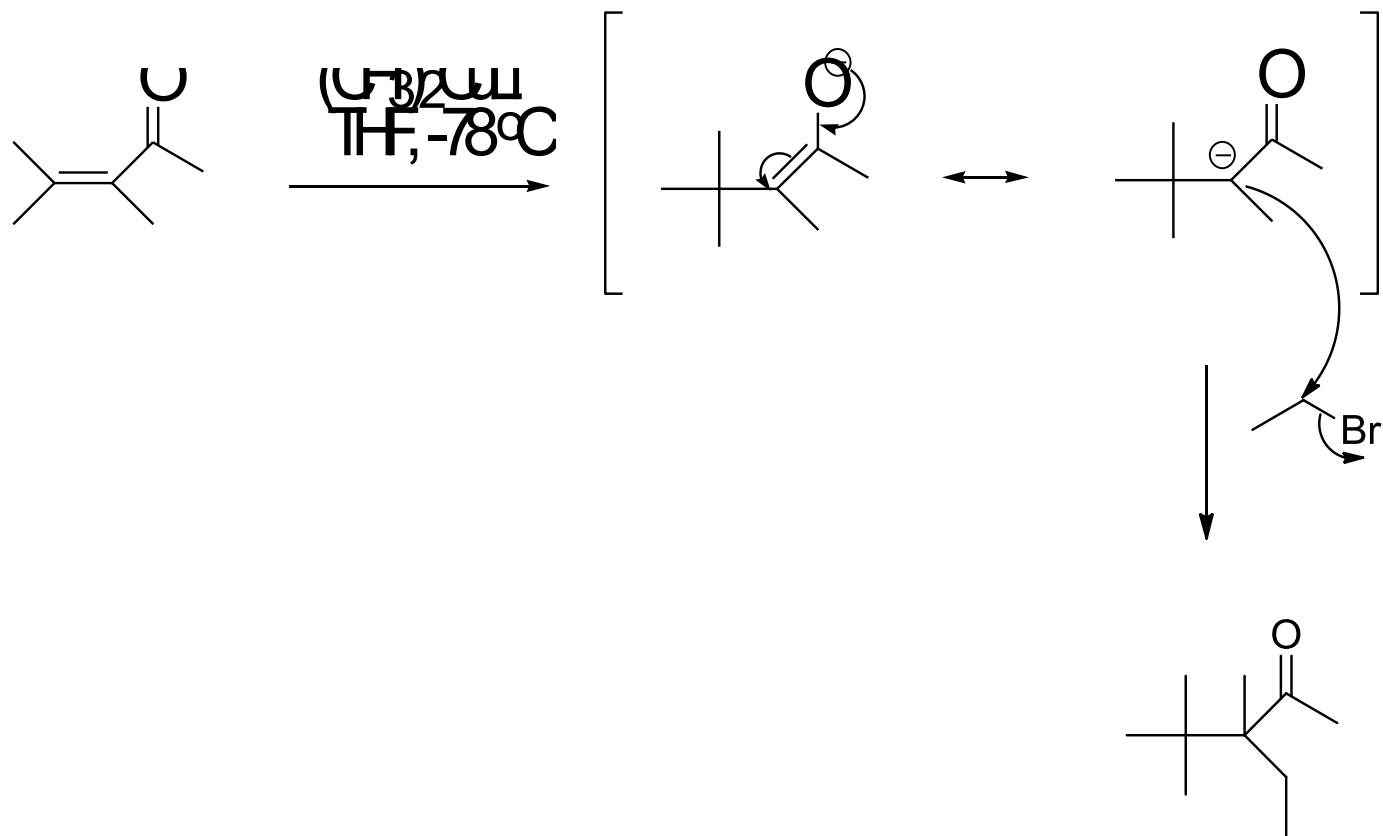
1,2- versus 1,4-adice

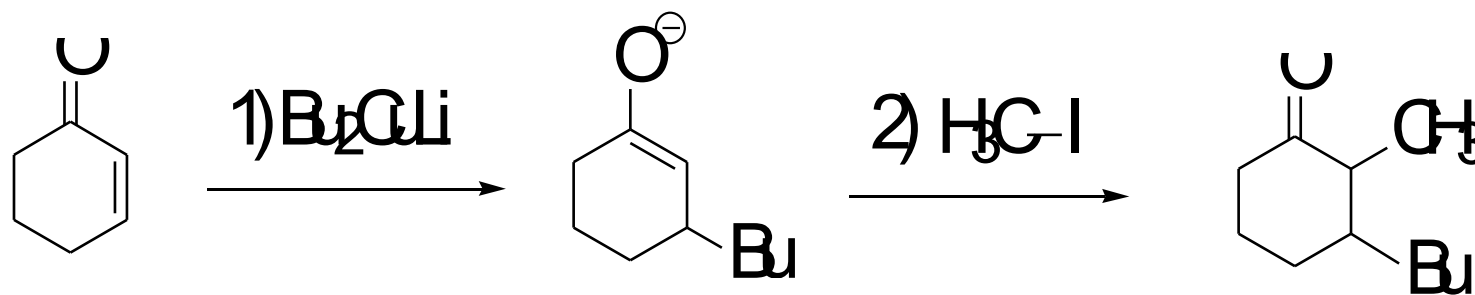
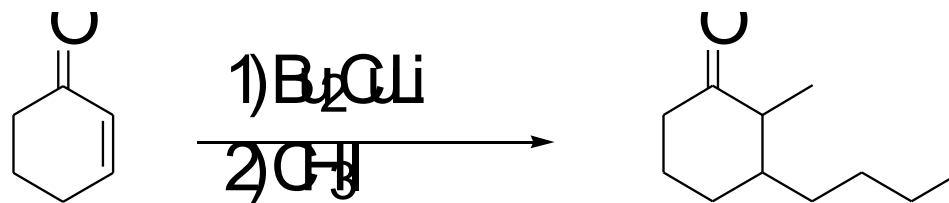
RMgX R-Li	<p>převážně 1,2-adice</p>
$\begin{array}{c} \text{R} \\ \diagdown \\ \text{C}^- \\ \diagup \\ \text{R} \end{array} \quad \text{Li}^+$	<p>převážně 1,4-adice</p>



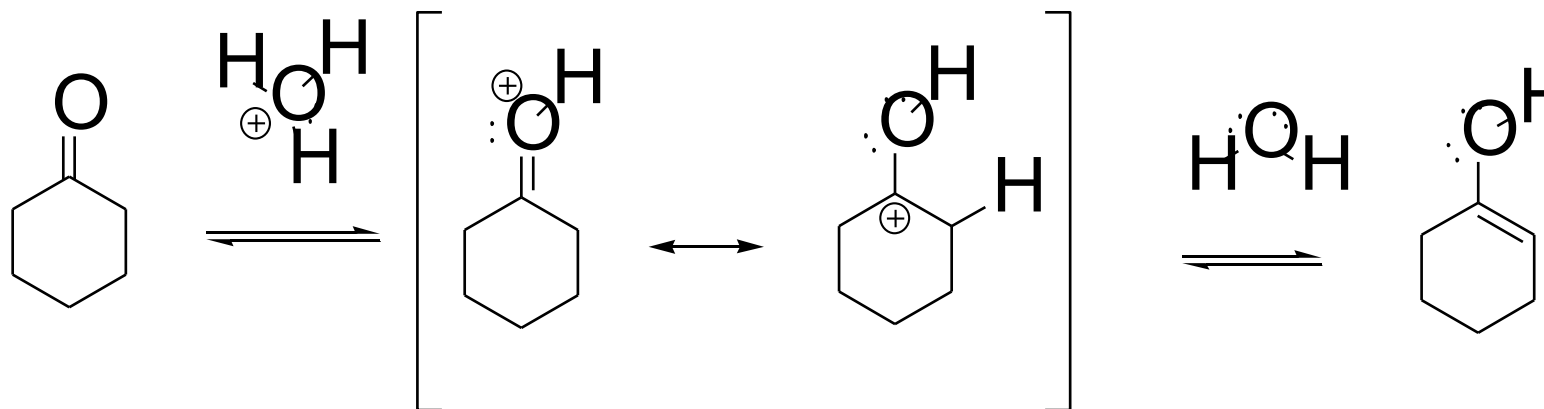
1,2- versus 1,4-addice



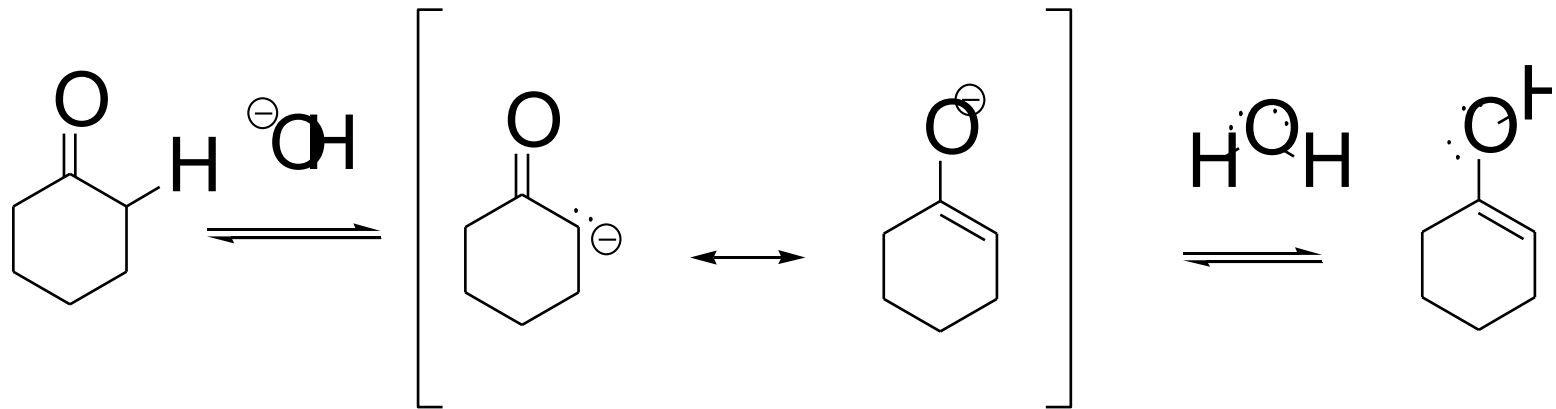


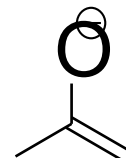
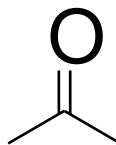
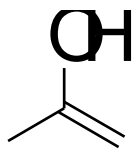


Keto – enol tautomerie kyselá katalýza

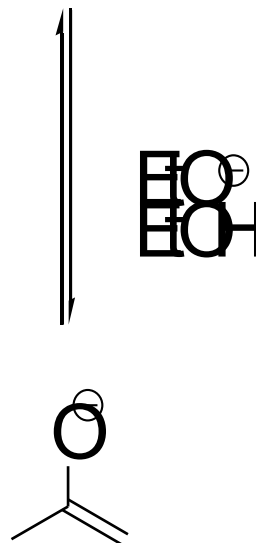


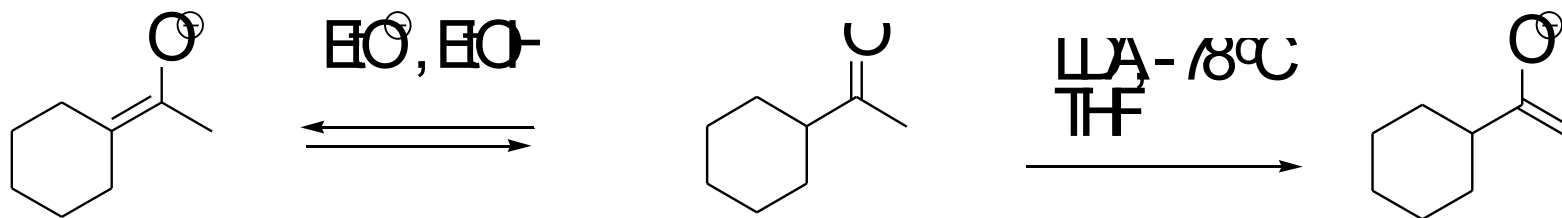
Keto – enol tautomerie bazická katalýza



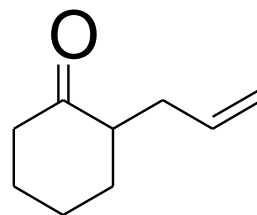
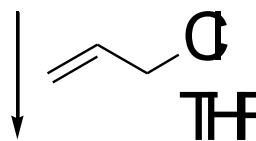
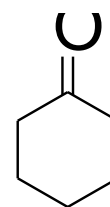
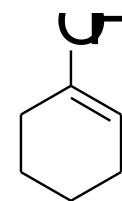
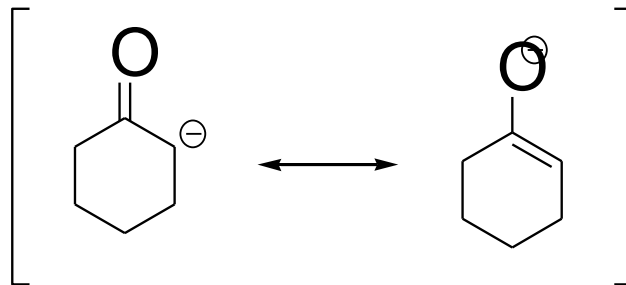
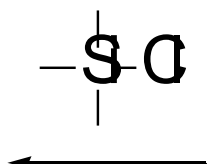
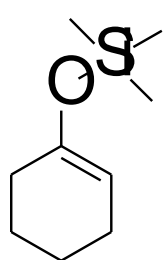
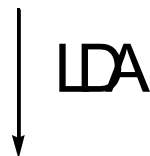
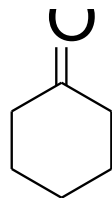


kompletní "nevratná" deprotonace

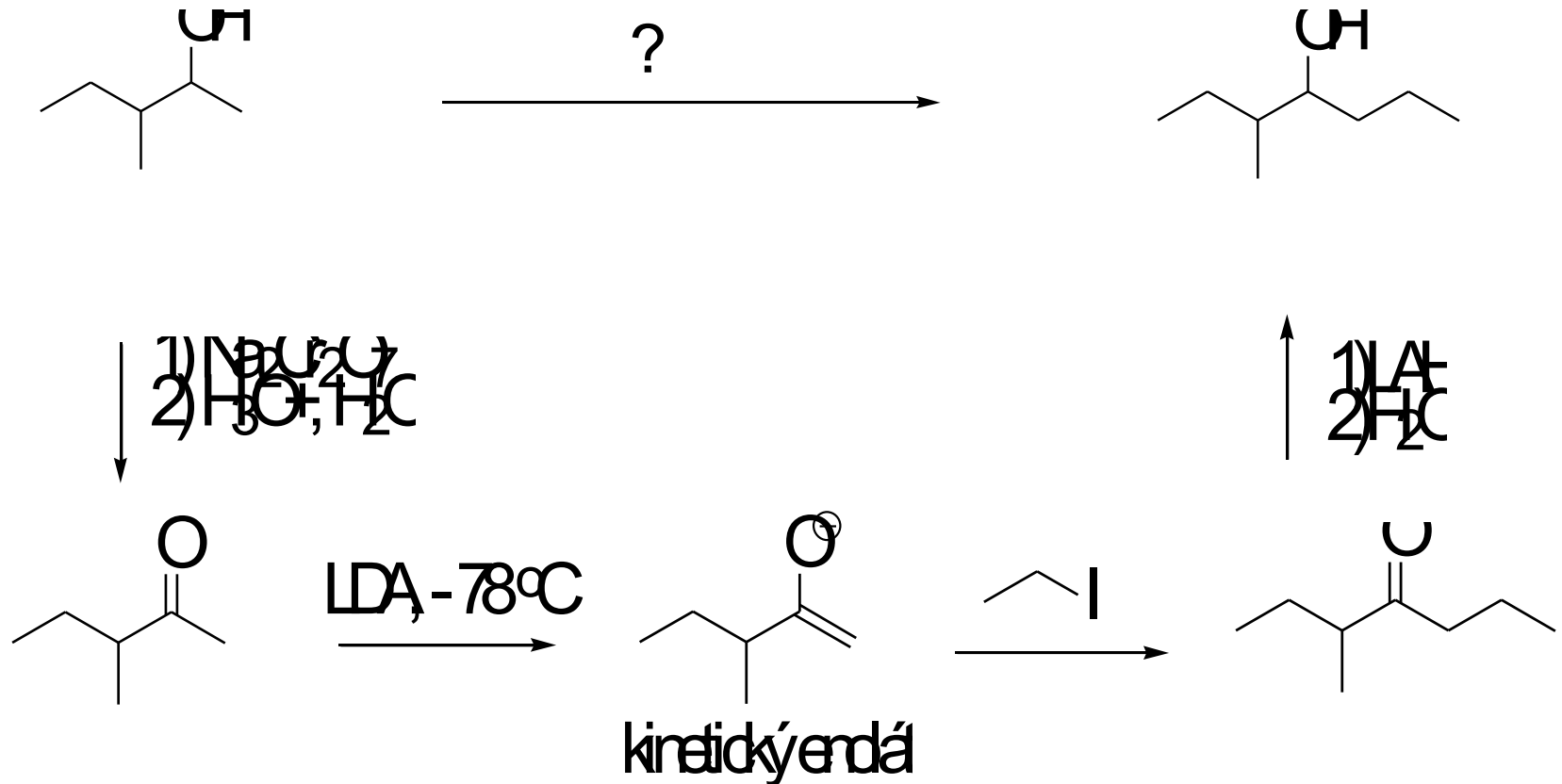




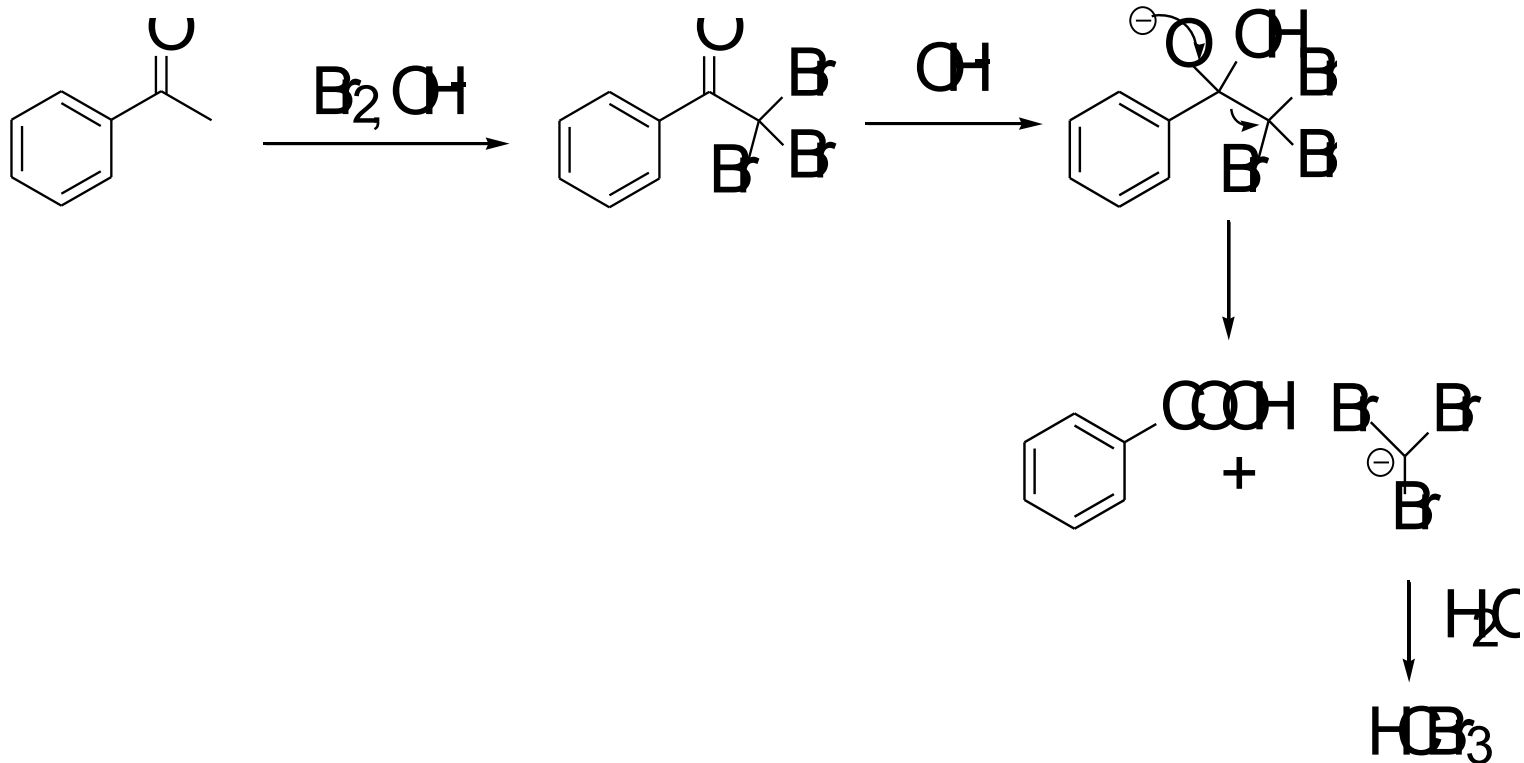
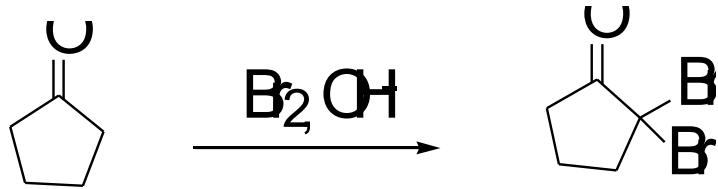
O- versus C-alkylace



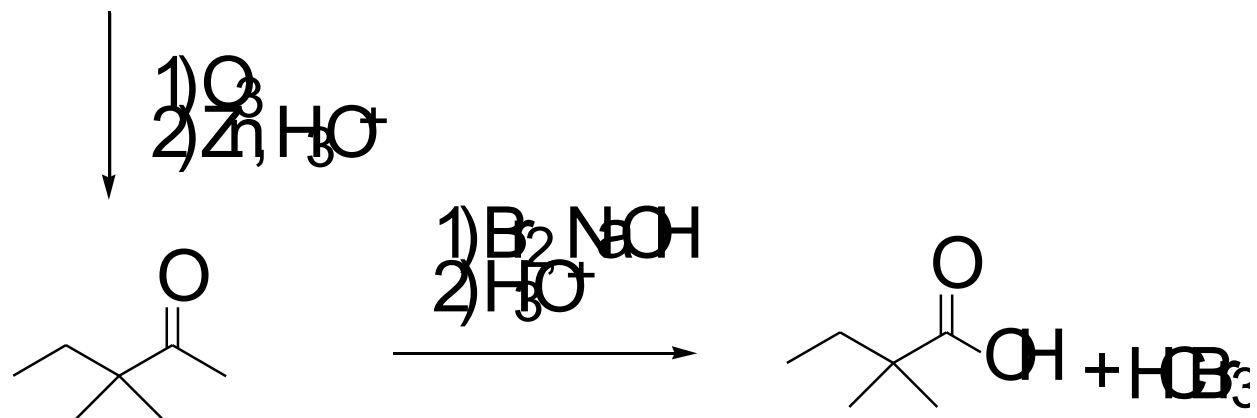
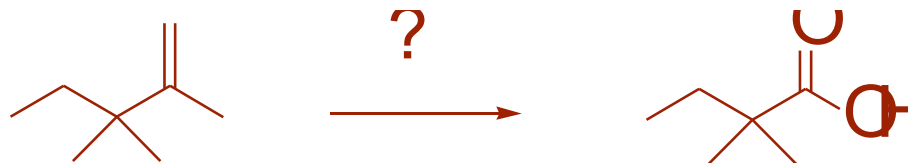
Navrhněte následující syntézu



Doplňte produkty uvedených reakcí



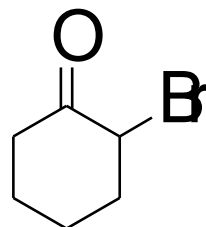
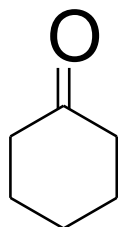
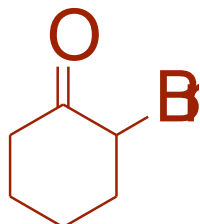
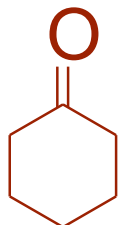
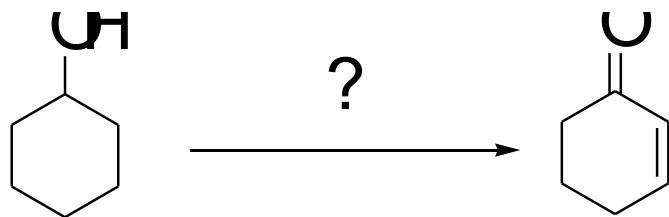
Doplňte produkty uvedených reakcí



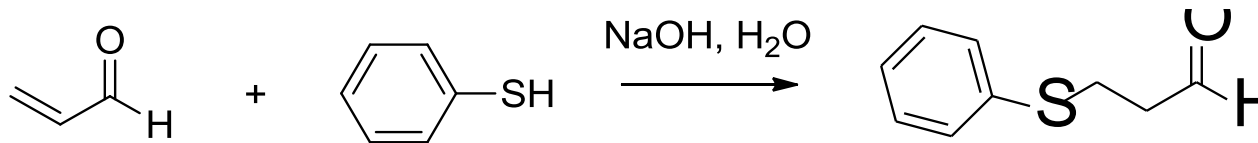
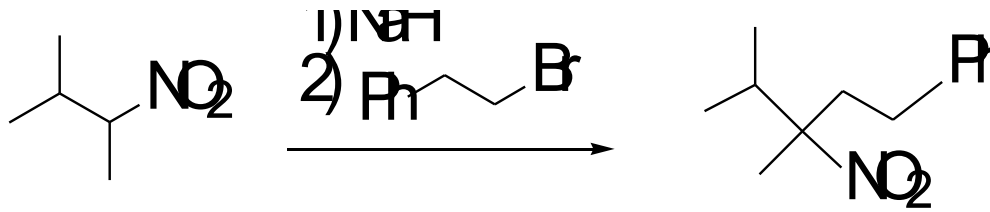
likvidace methylu haloformovou reakcí



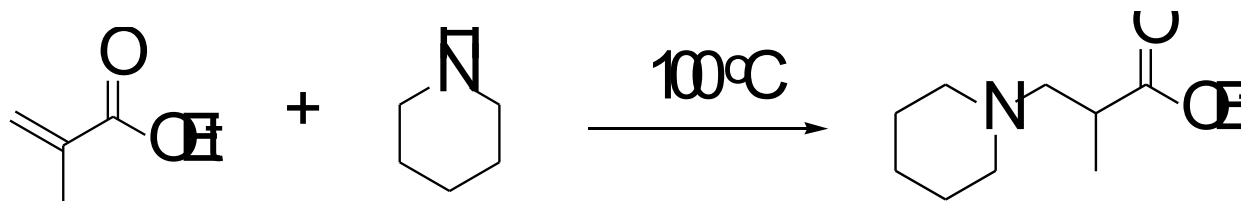
Navrhňte podmínky pro uvedenou syntézu



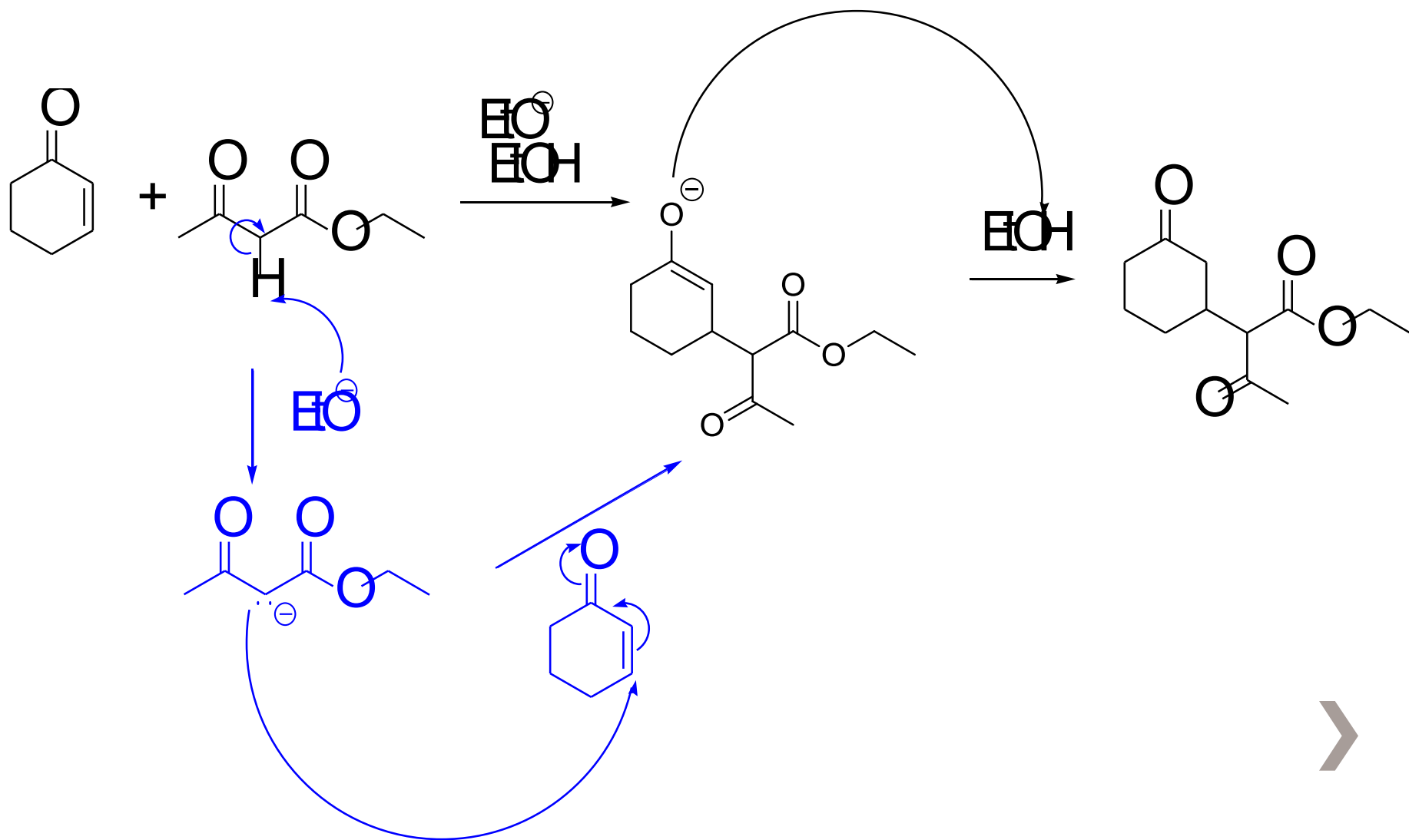
Doplňte produkty reakcí



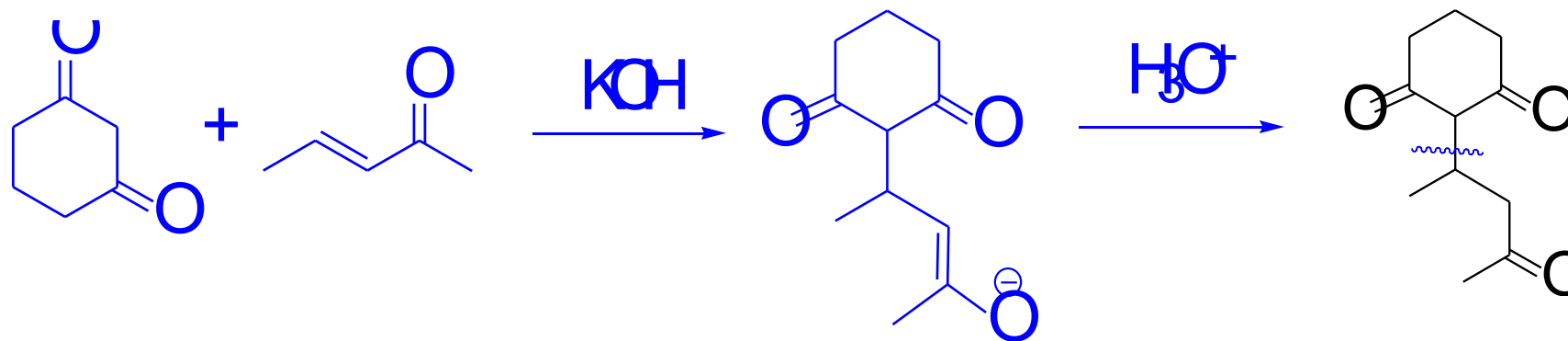
Doplňte produkty reakcí



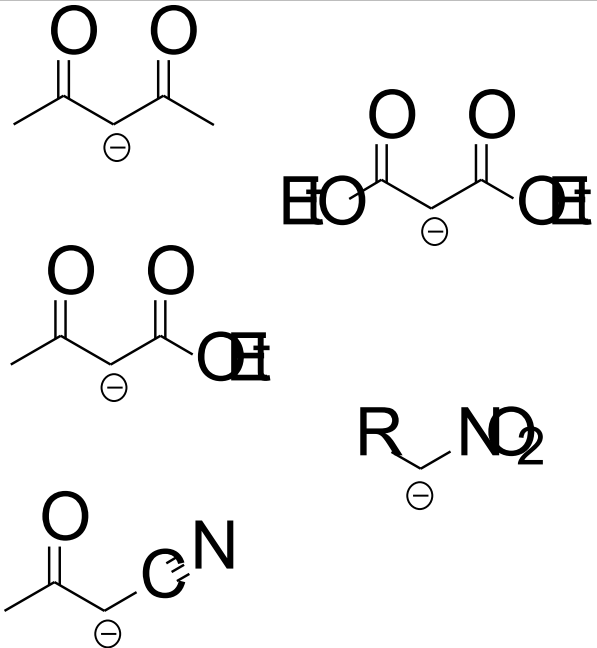
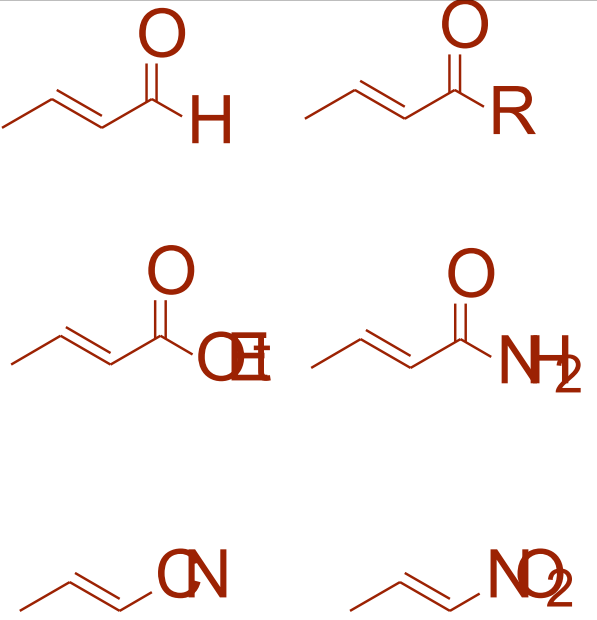
Michaelova adice



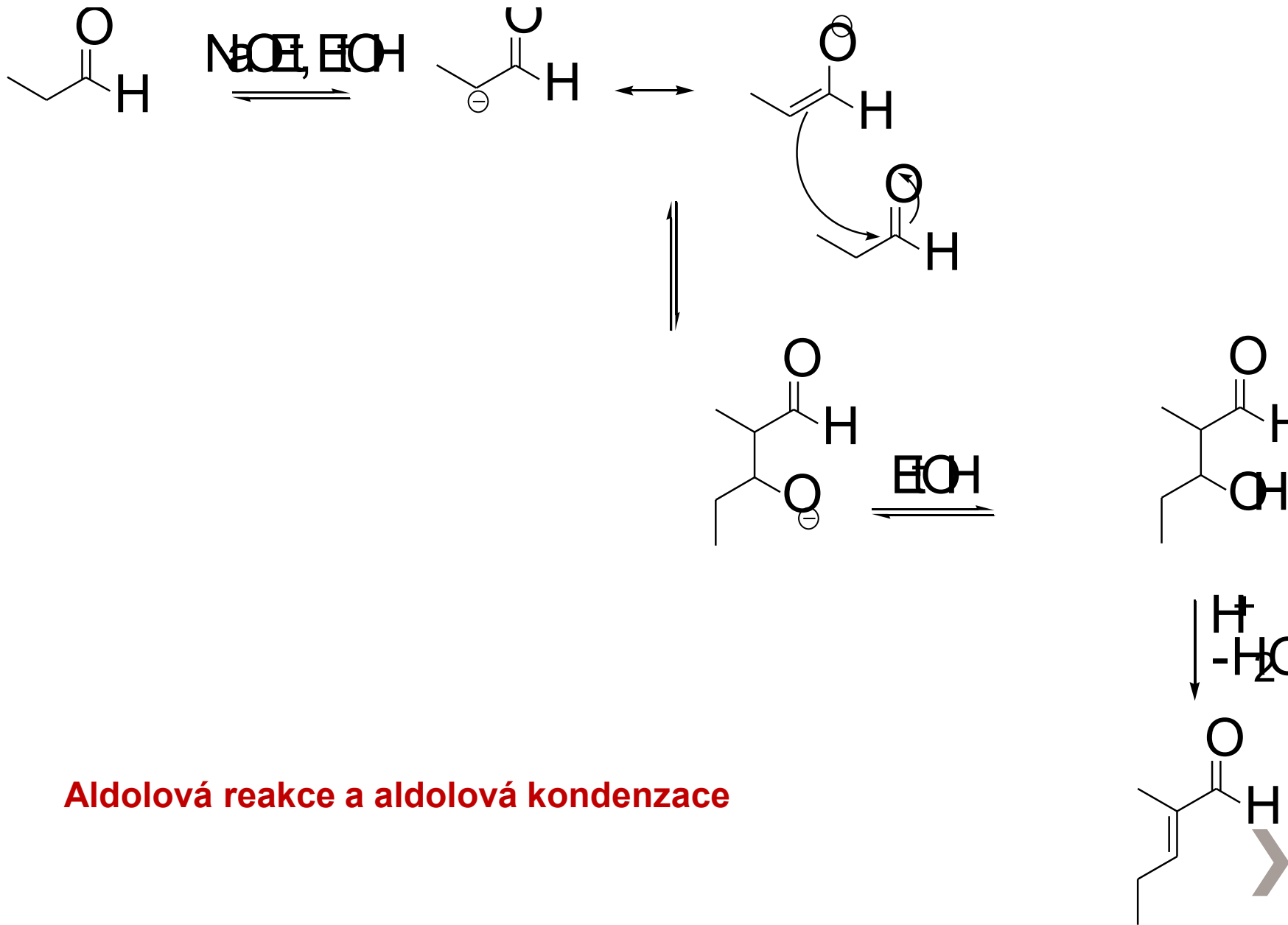
Michaelova adice



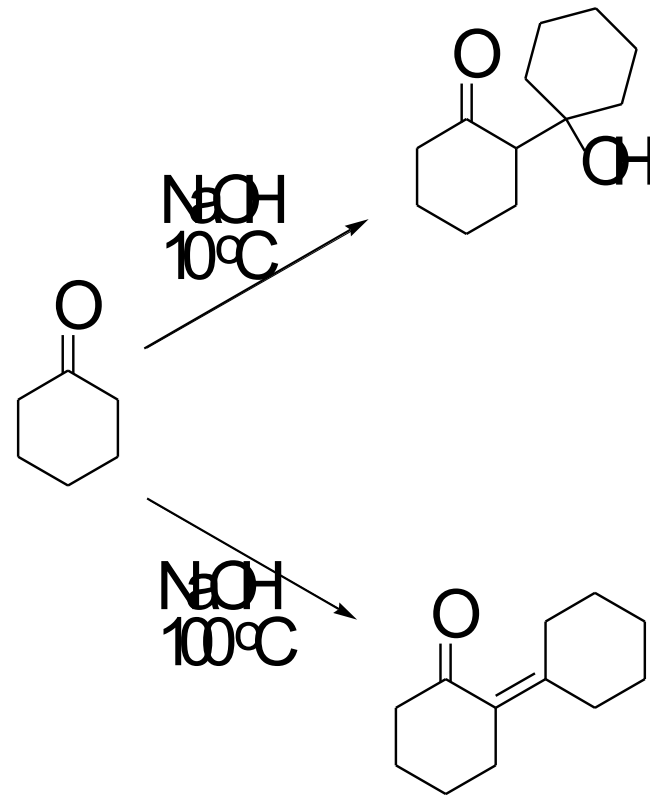
Michaelova adice

Michaelovy donor	Michaelovy akceptory
 <p>Chemical structures of Michael donors:</p> <ul style="list-style-type: none">1,3-dicarbonyl enolate (acetone derivative)Malonate enolate (diethyl malonate derivative)Nitrile enolate (acetonitrile derivative)	 <p>Chemical structures of Michael acceptors:</p> <ul style="list-style-type: none">α,β-unsaturated aldehydeα,β-unsaturated ketoneα,β-unsaturated carboxylic acidα,β-unsaturated amideα,β-unsaturated nitrileα,β-unsaturated nitro compound

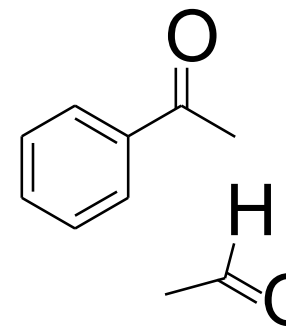
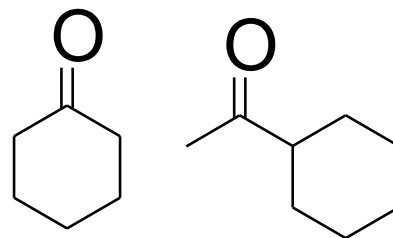
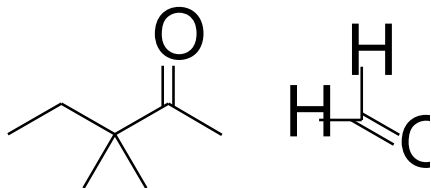
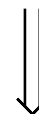
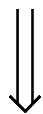
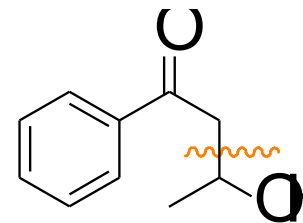
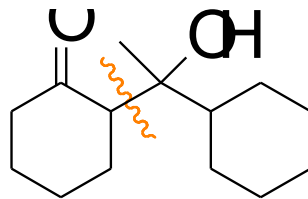
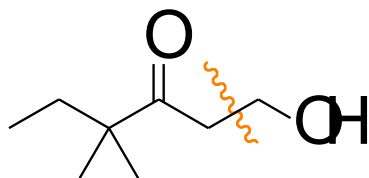




Aldolová reakce a aldolová kondenzace



Identifikujte reagenty, které poskytly následující sloučeniny



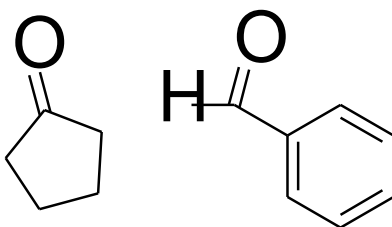
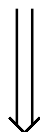
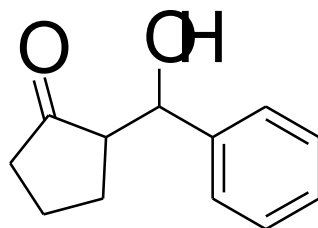
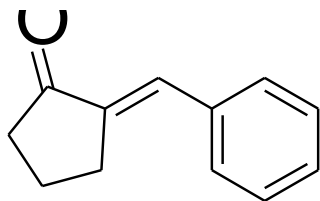
aldolová reakce

aldolová reakce

aldolová reakce



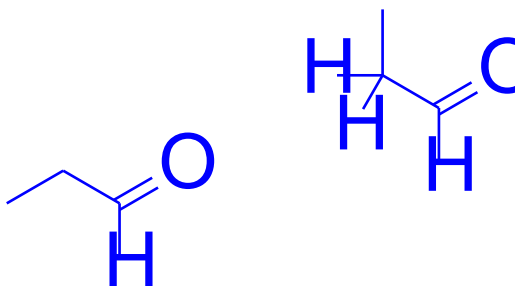
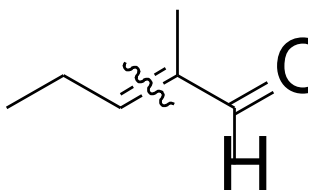
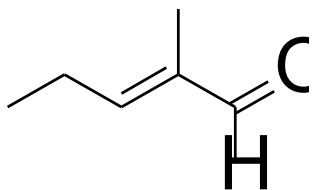
Identifikujte reagenty, které poskytly následující sloučeninu



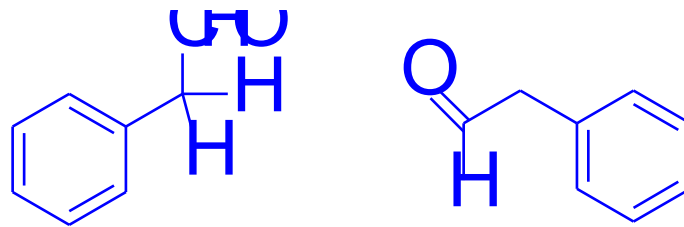
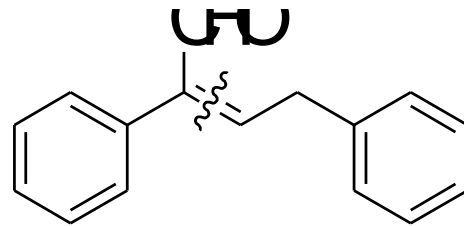
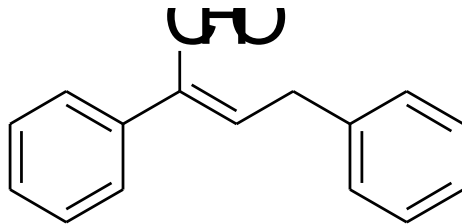
aldolová kondenzace



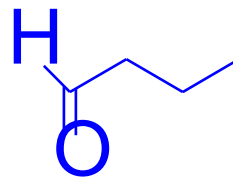
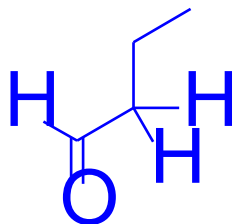
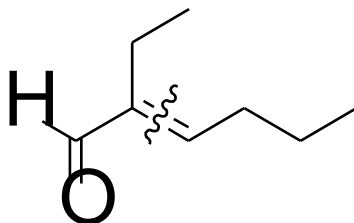
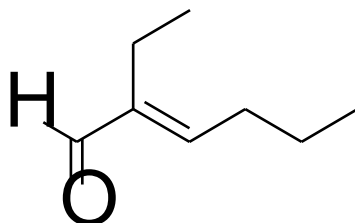
Aldolová kondenzace - retrosyntéza

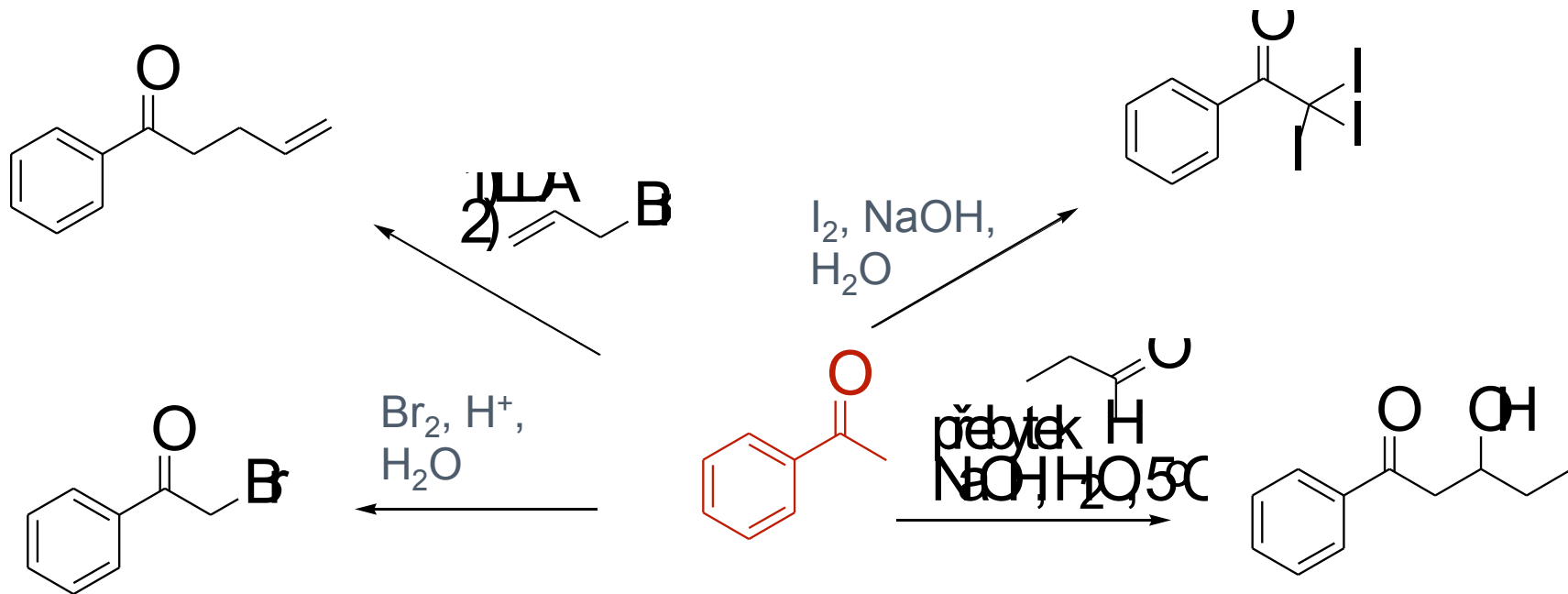


Aldolová kondenzace - retrosyntéza

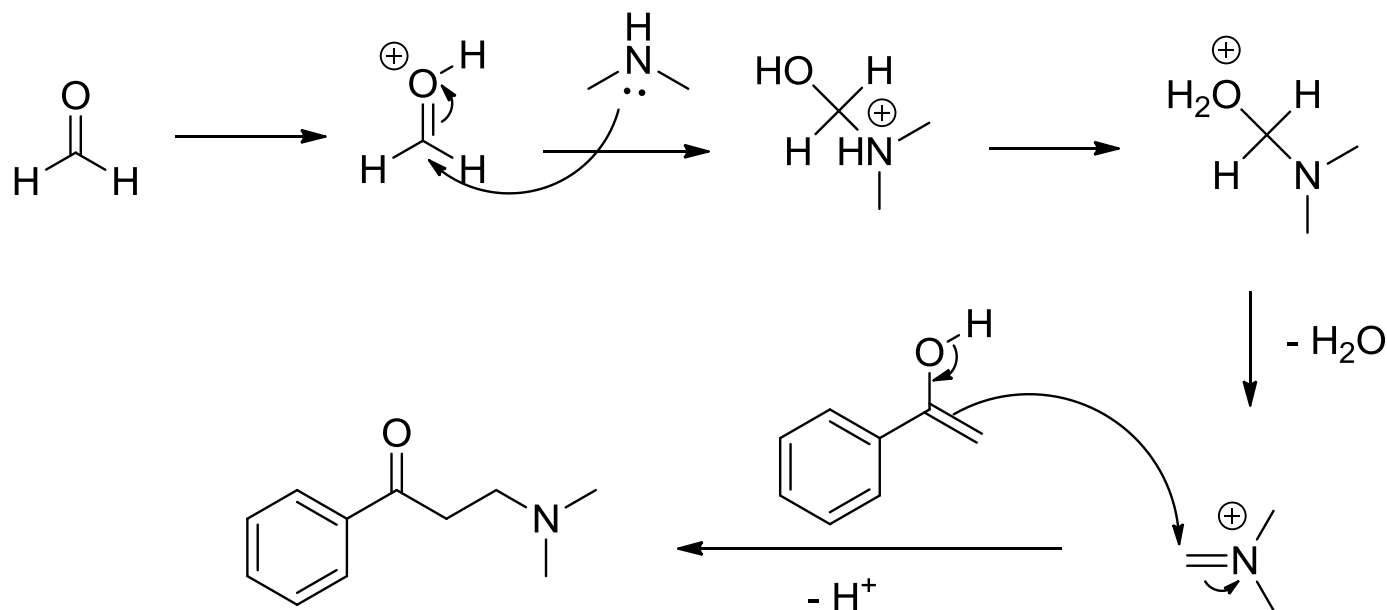
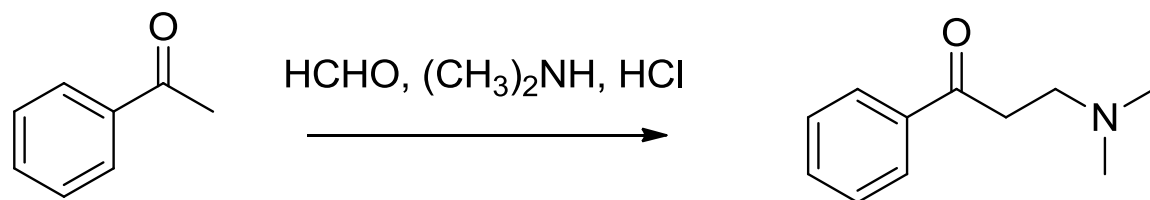


Aldolová kondenzace - retrosyntéza

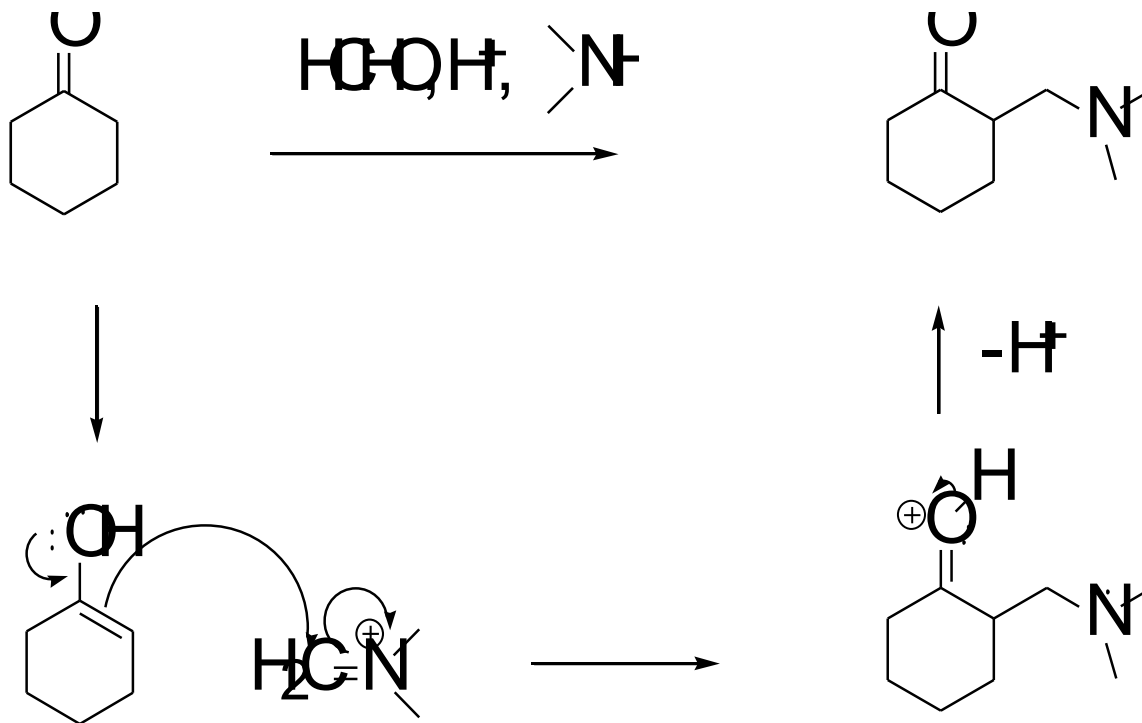


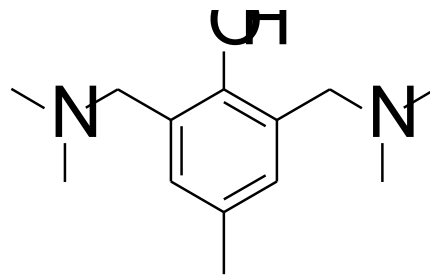
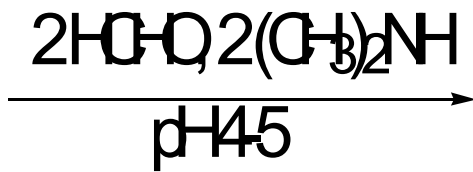
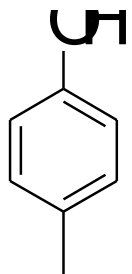


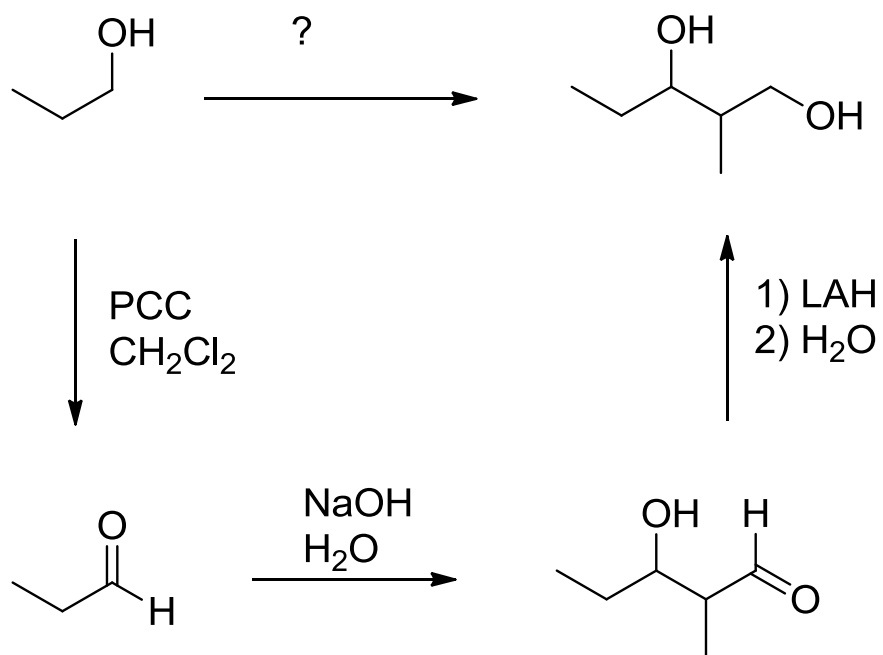
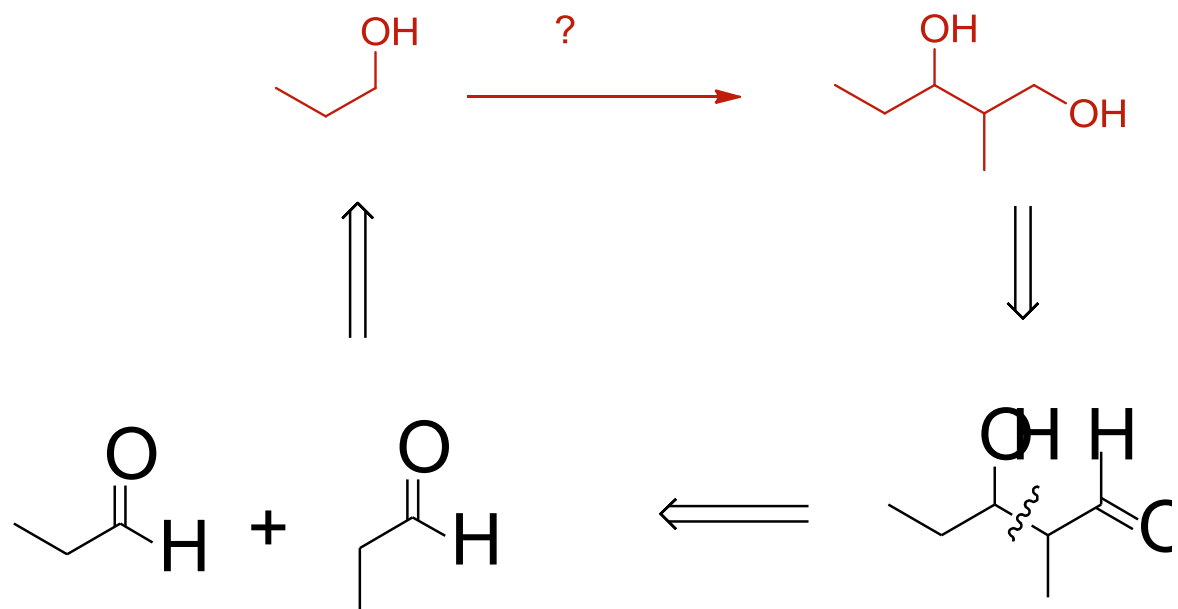
Mannichova reakce - aminomethylační reakce v alfa pozici ke karbonylu

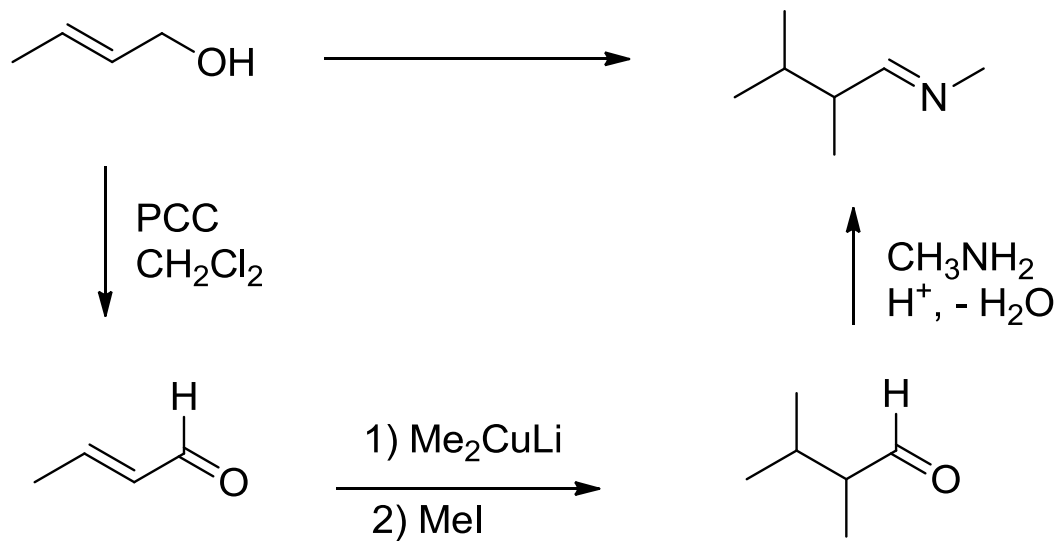
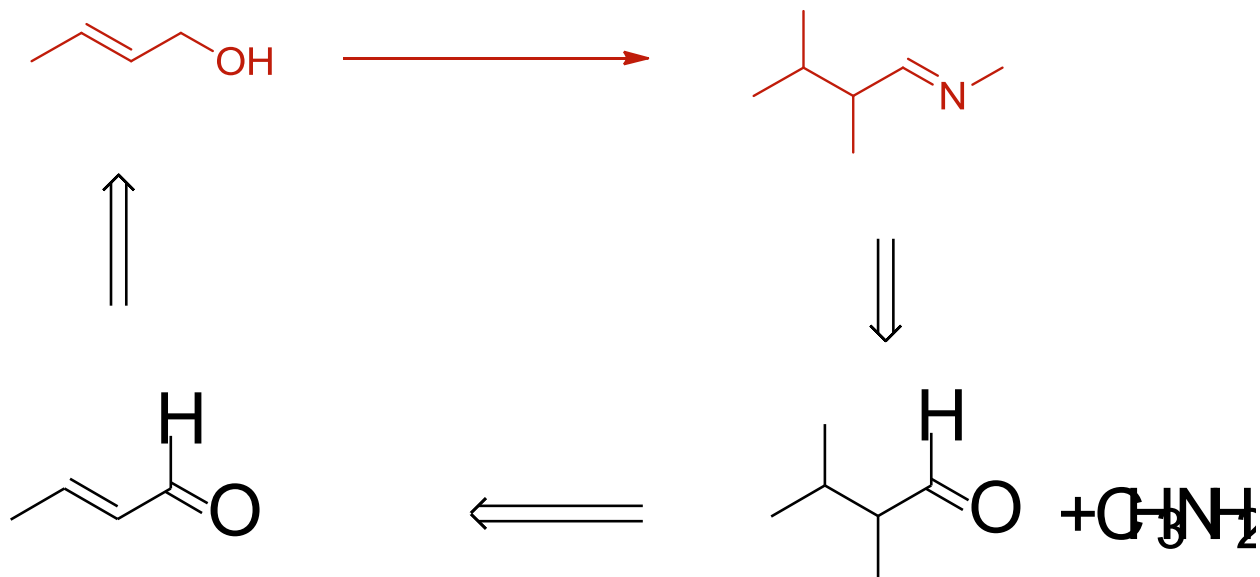


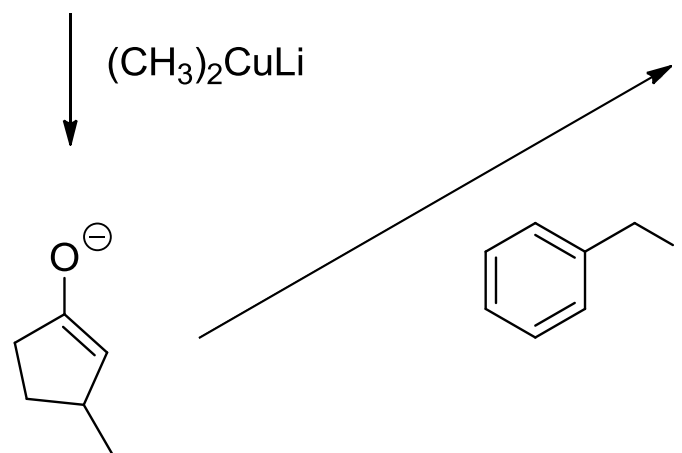
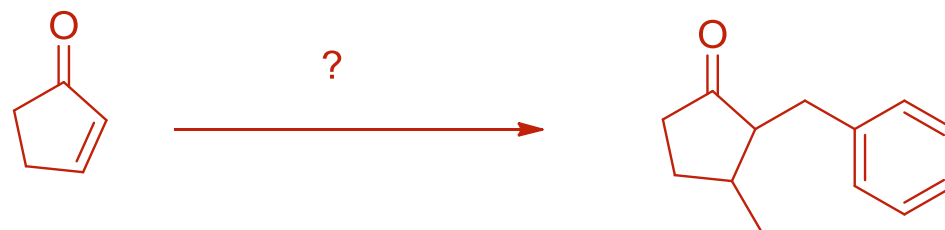
Identifikujte reagenty, které poskytly následující sloučeninu

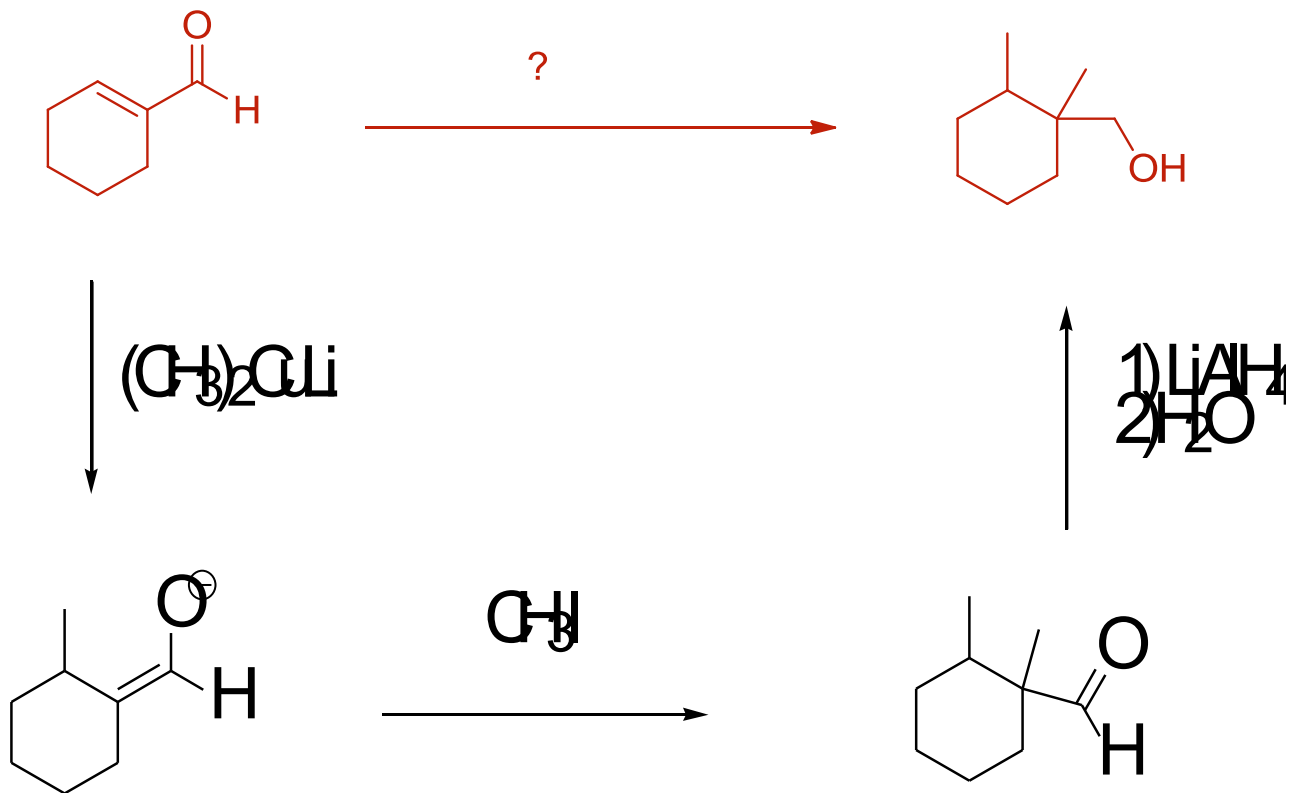


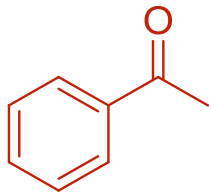




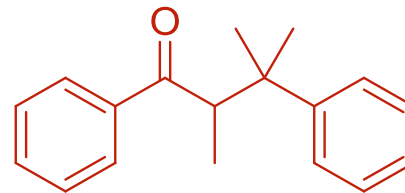




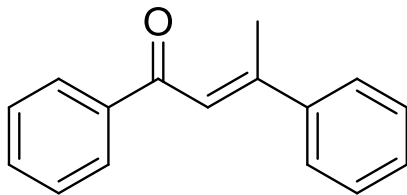




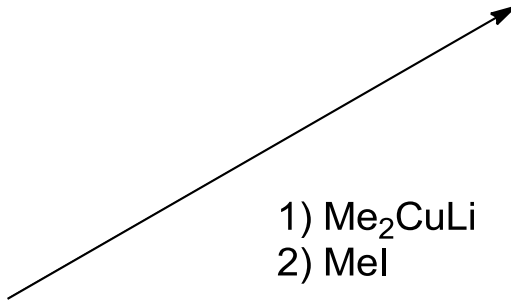
?



NaOH, H₂O
ΔT

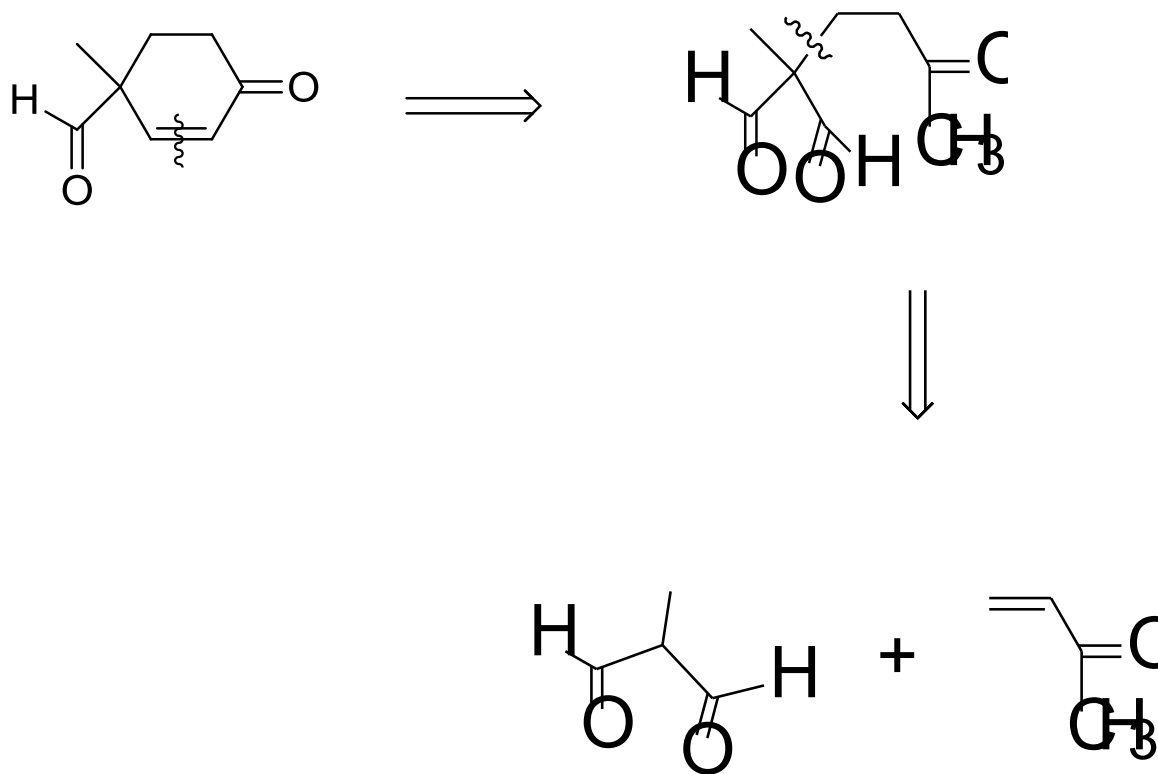


1) Me₂CuLi
2) MeI

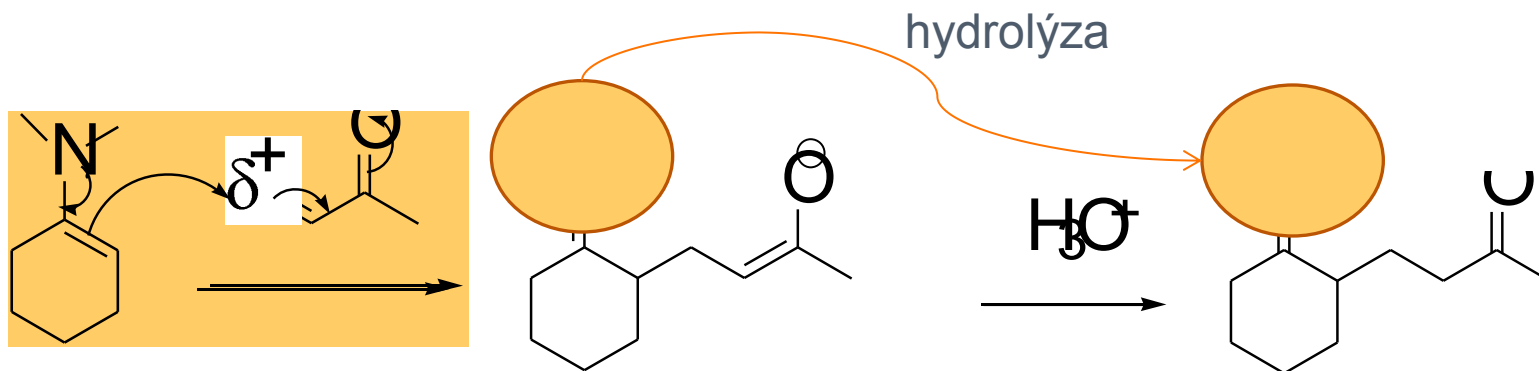


Identifikujte reagenty, které poskytly následující sloučeninu

Robinsonova anelace



Storkova enaminová syntéza



Důležité, nastudujte
reakce enaminů



