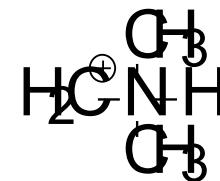
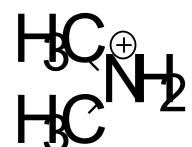
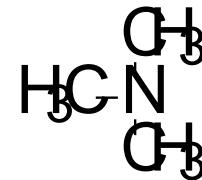
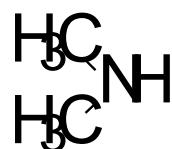


AMINY





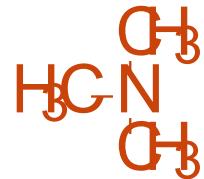
pK_a konjugované kyseliny

9,26

10,64

10,72

9,70

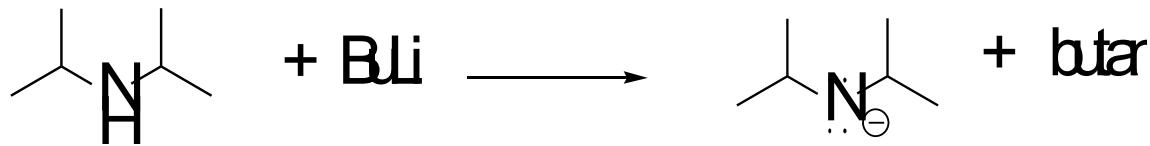


roste
bázičtvo

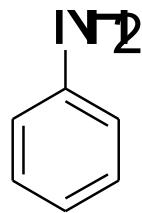
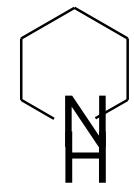


pr

| | | | |
|---------------|----|---|----|
| NH_3 | | $\text{R}'\text{C}(=\text{O})\text{NH}_2$ | |
| 33 | 36 | 17 | 83 |

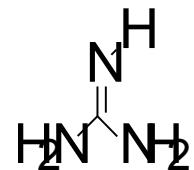
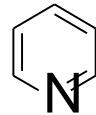
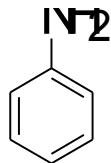
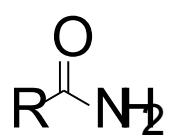


Seřaďte podle klesající bazicity



1 > 3 > 2 > 4





pK_{AH}

0 (-1)

46

52

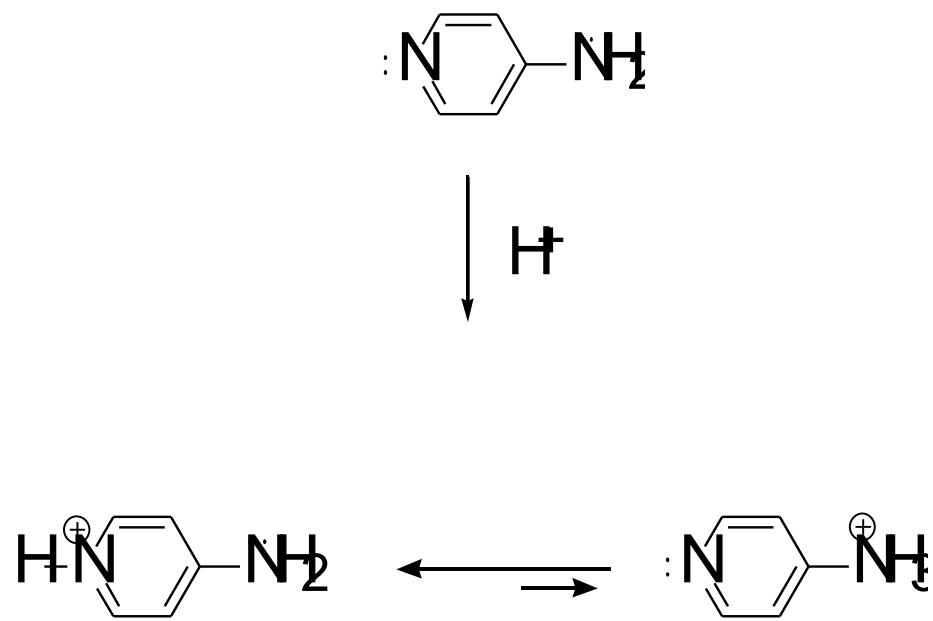
7,1

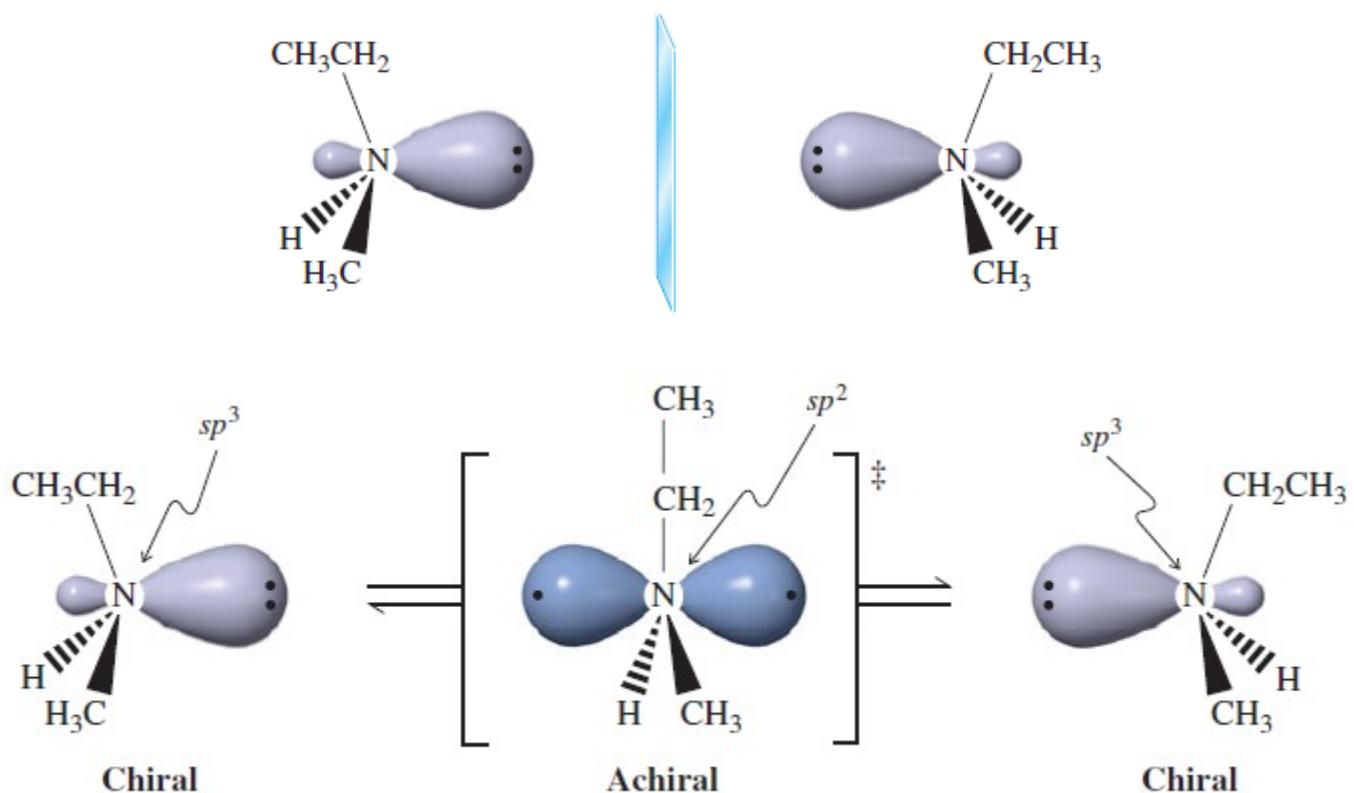
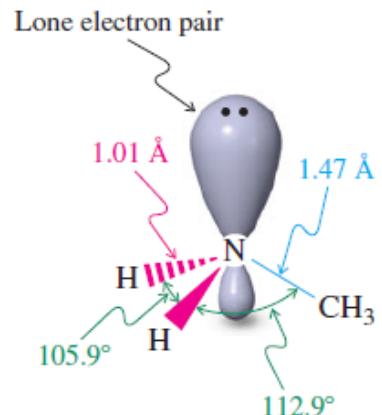
11

136

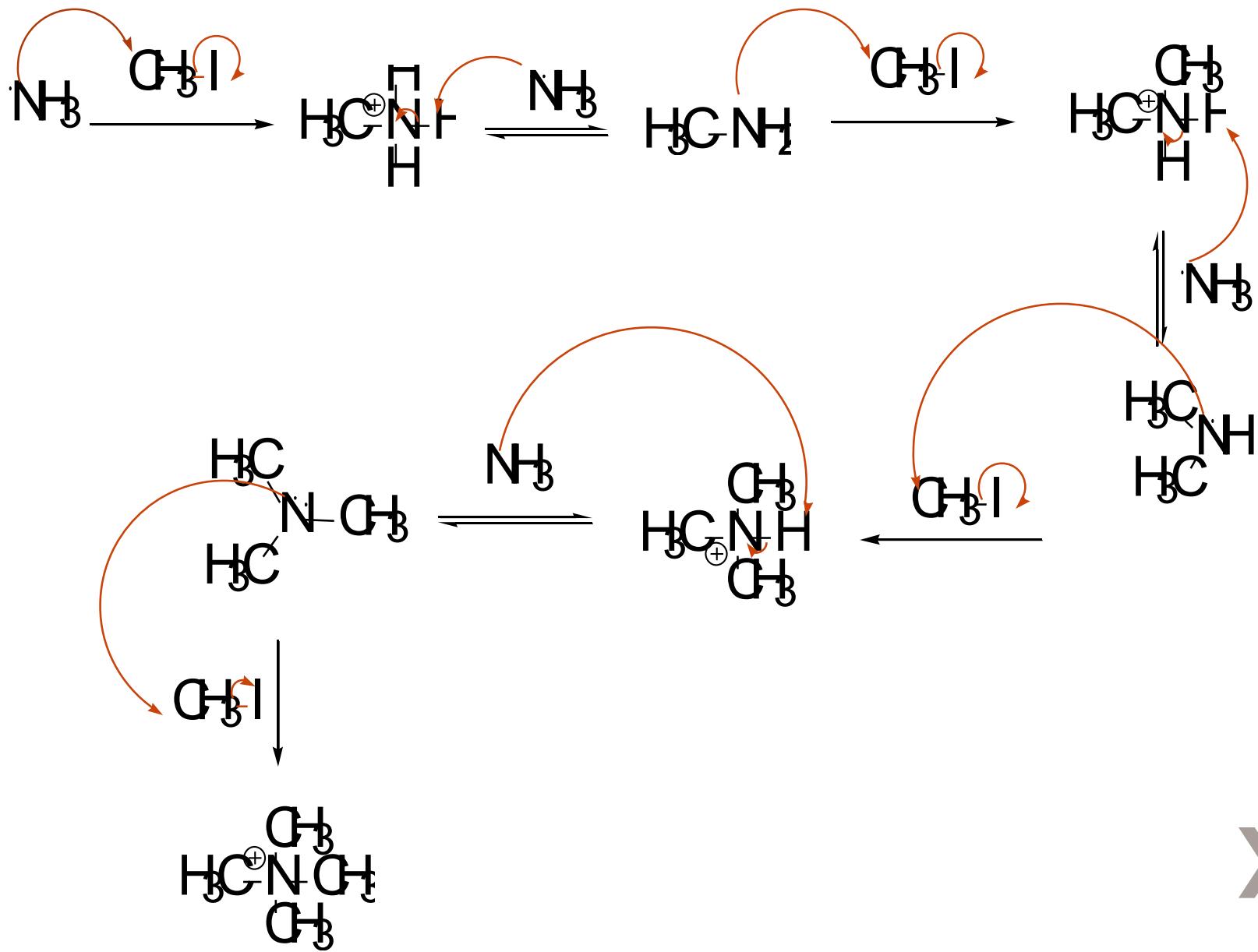


Rozhodněte, který dusík bude přednostně protonován

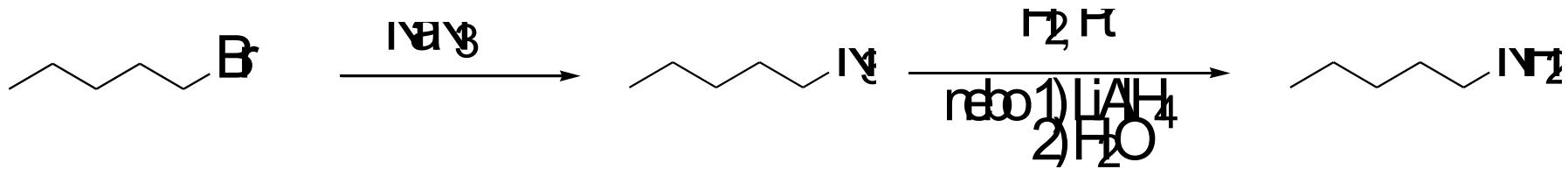
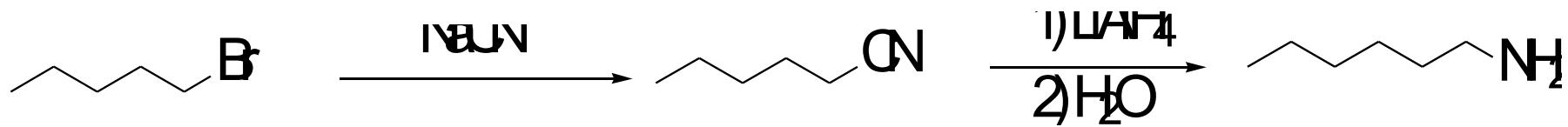




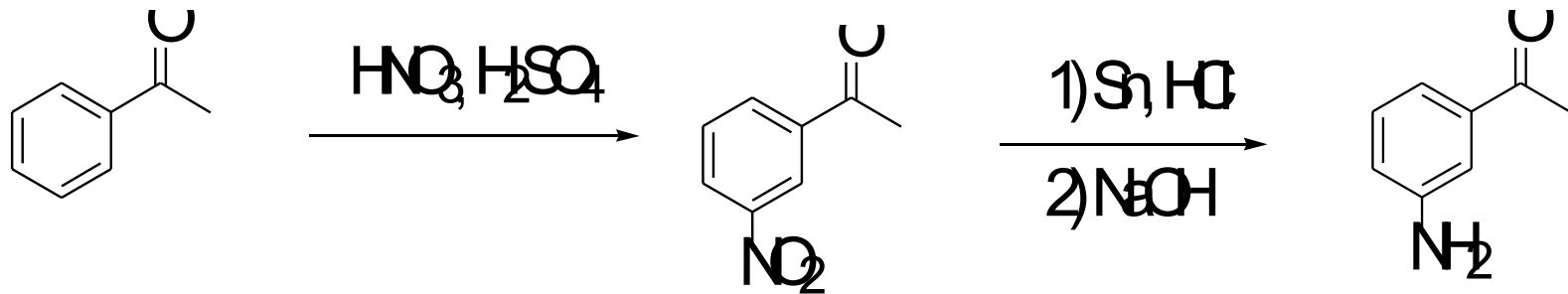
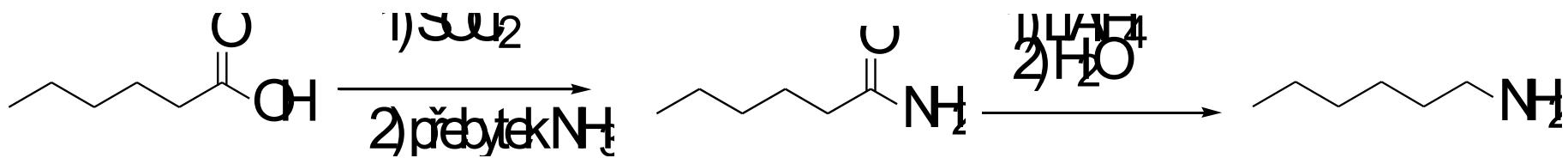
bariéra 20 – 30 kJ mol⁻¹



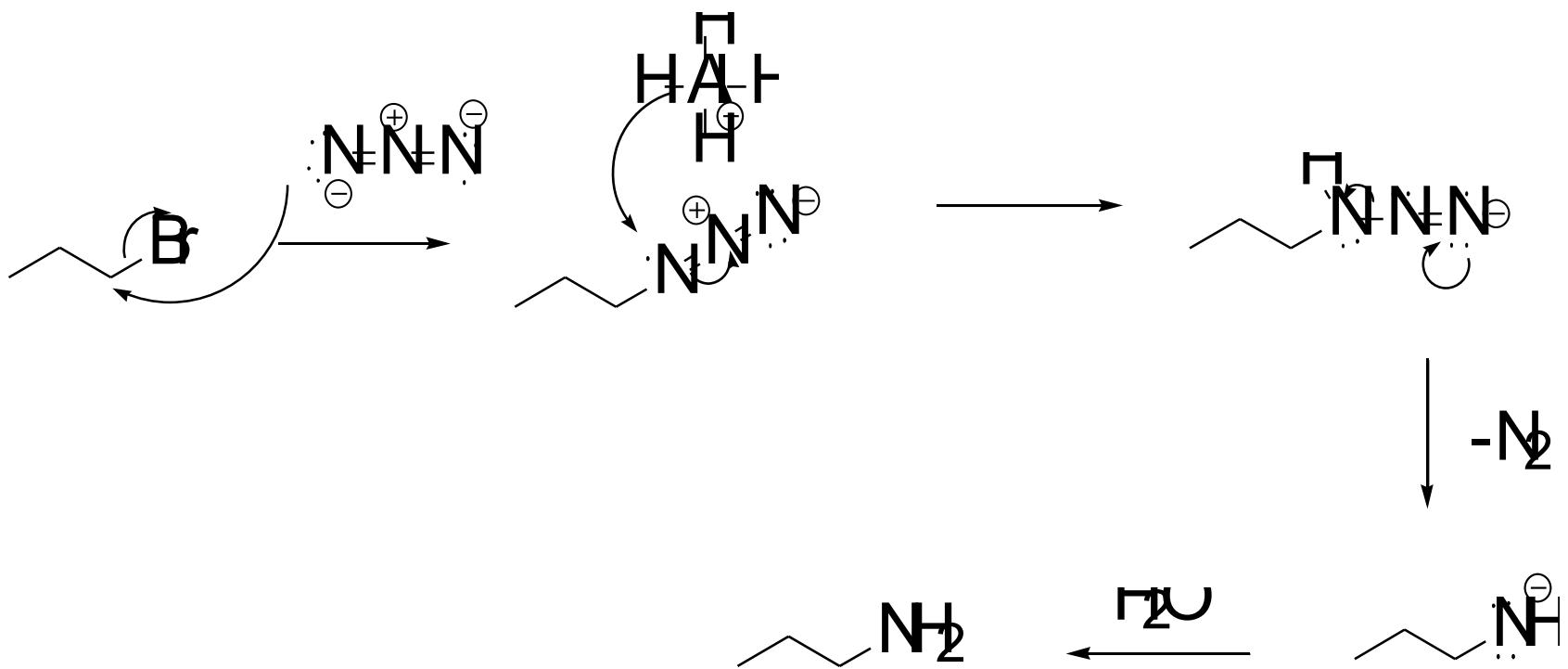
Doplňte hlavní produkty uvedených reakcí



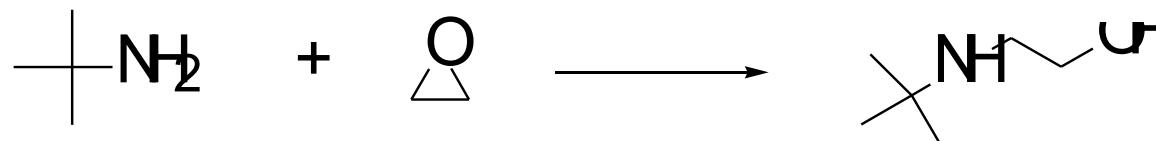
Doplňte hlavní produkty uvedených reakcí



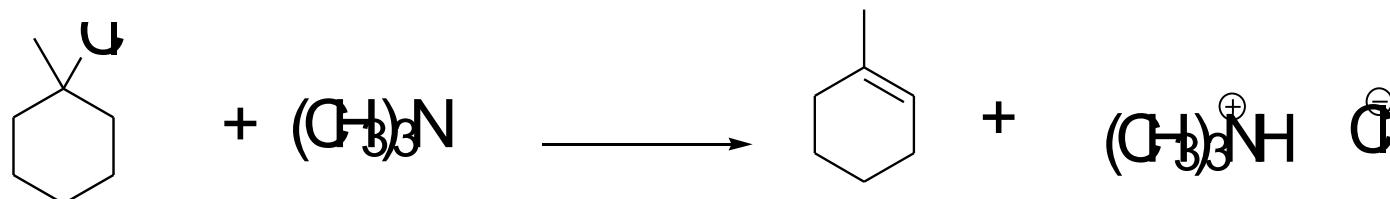
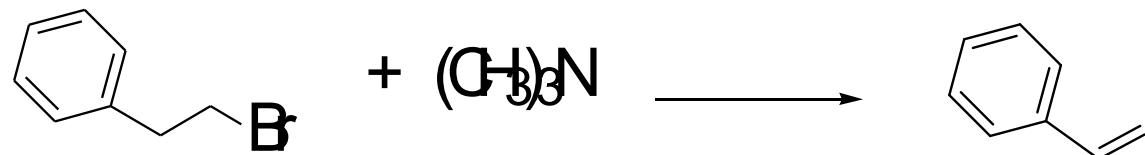
Pokuste se napsat mechanismus redukce
azidu pomocí LiAlH_4



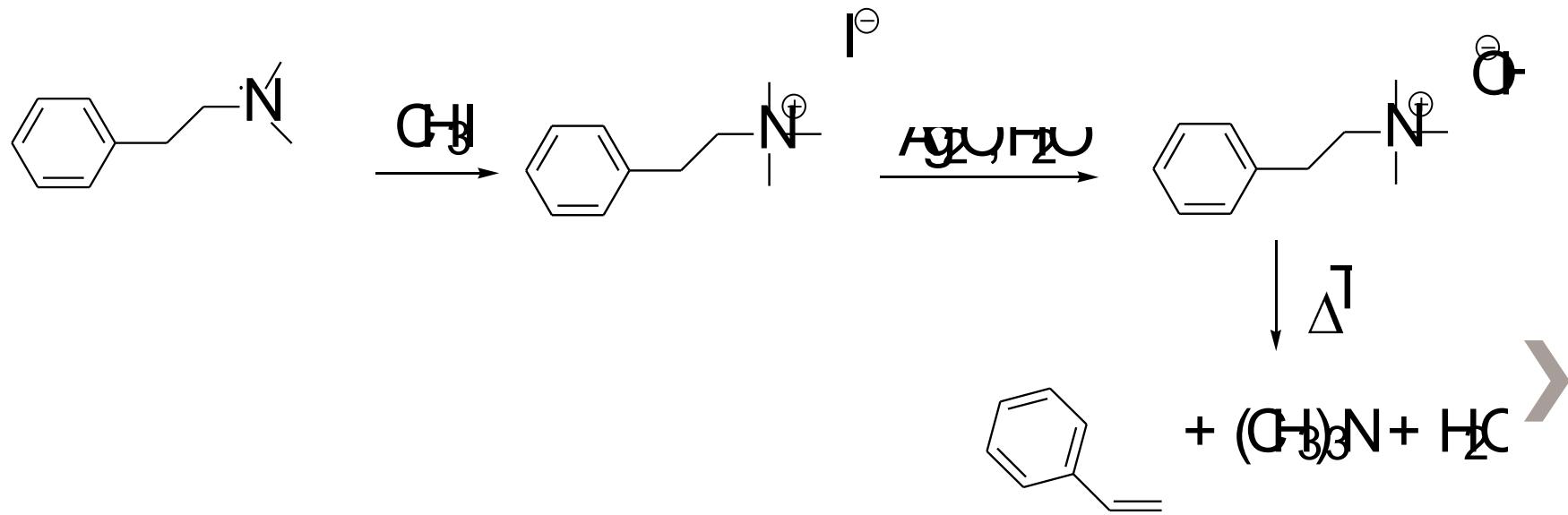
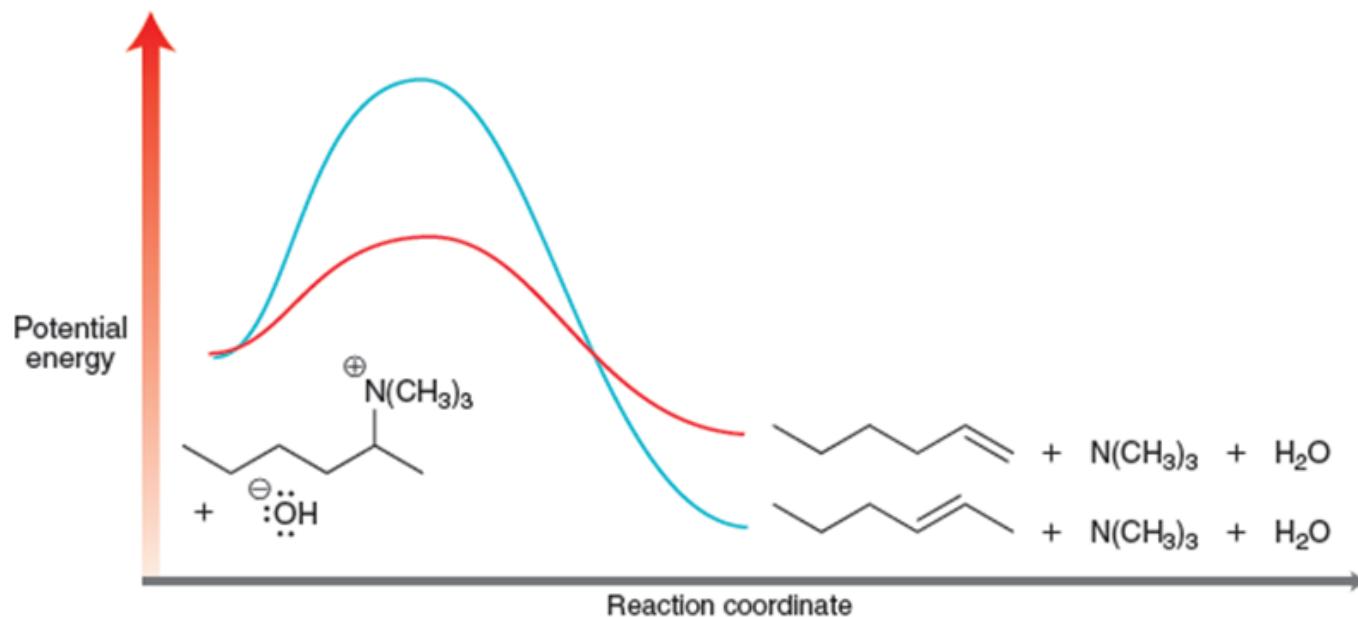
Doplňte hlavní produkty uvedených reakcí



Doplňte hlavní produkty uvedených reakcí

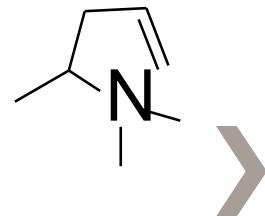
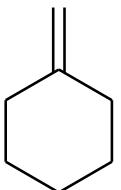
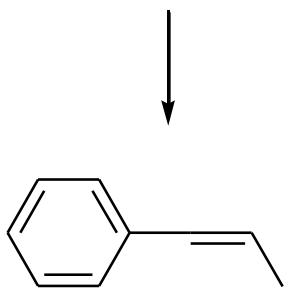
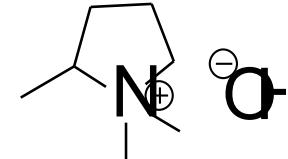
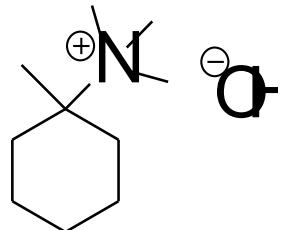
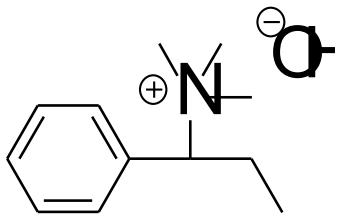
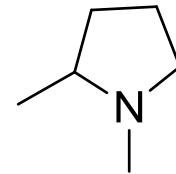
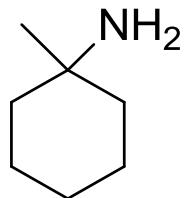
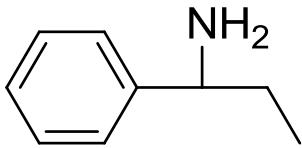


Hofmannova eliminace



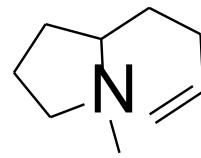
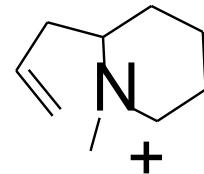
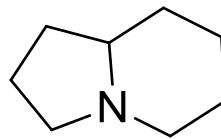
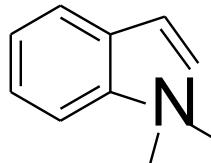
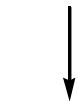
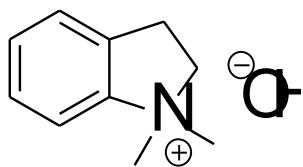
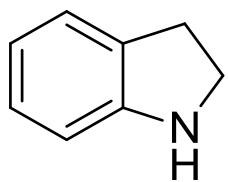
Hofmannova eliminace

doplňte produkty

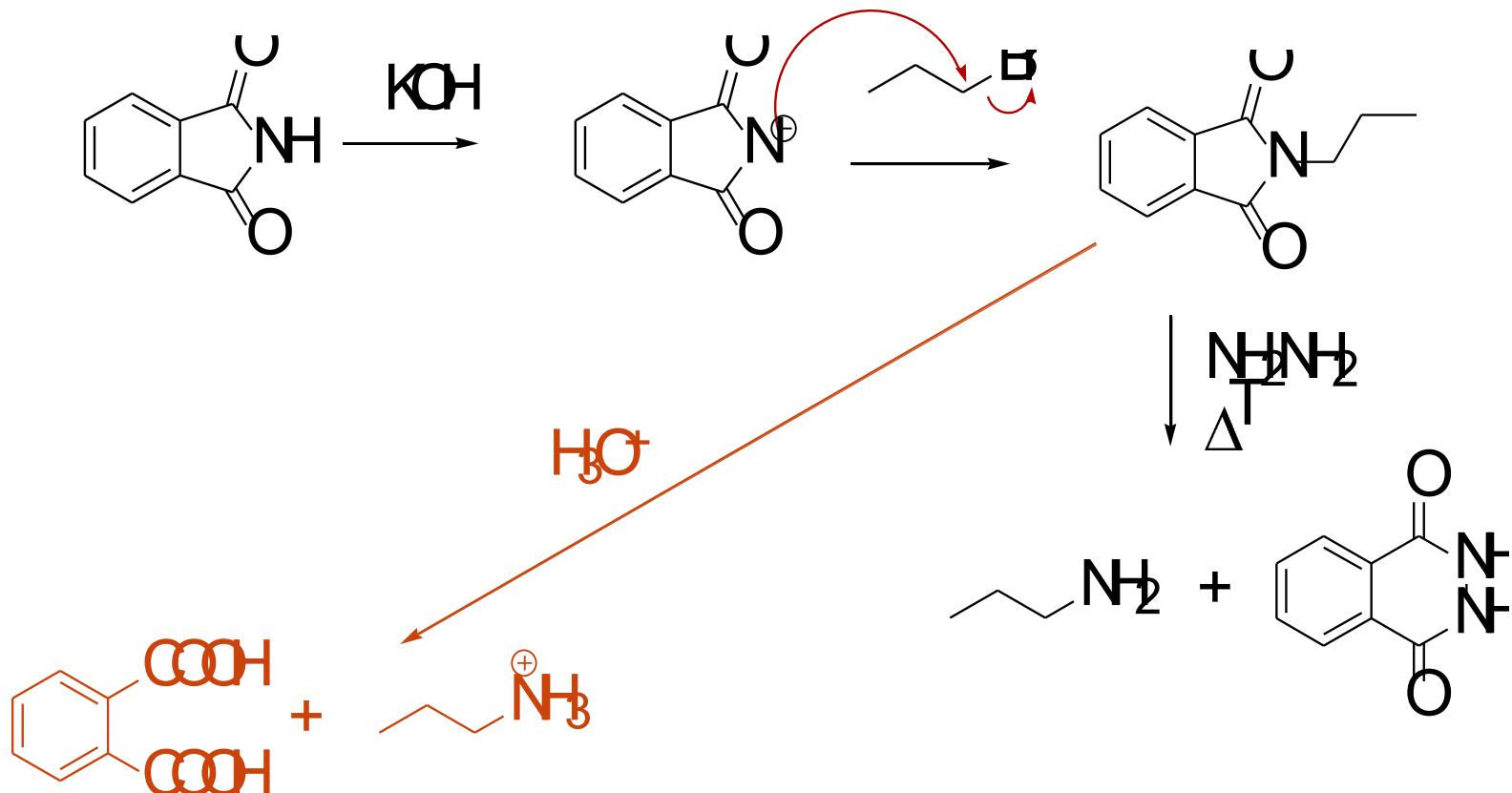


Hofmannova eliminace

doplňte produkty



Gabrielova syntéza primárních aminů



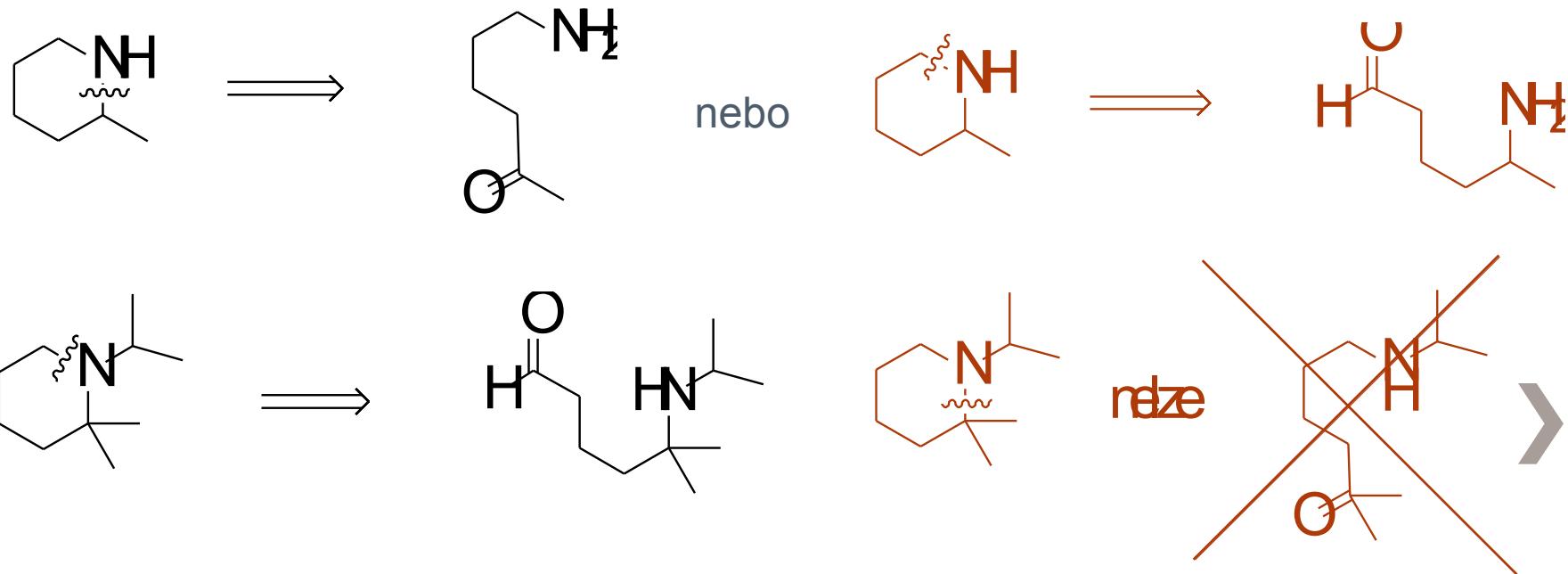
Reduktivní aminace

karbonylová sloučenina + amin, pH = 4-6

redukce: H₂, Pd

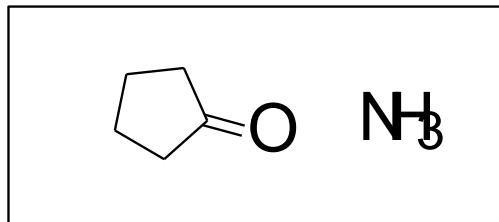
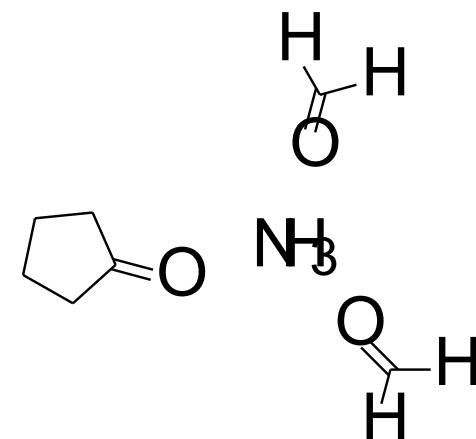
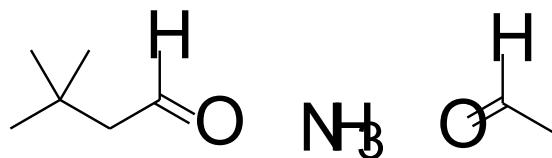
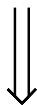
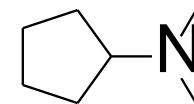
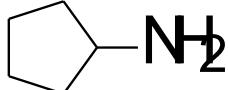
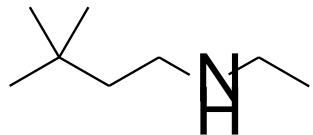
NaBH(OAc)₃

NaBH₃CN

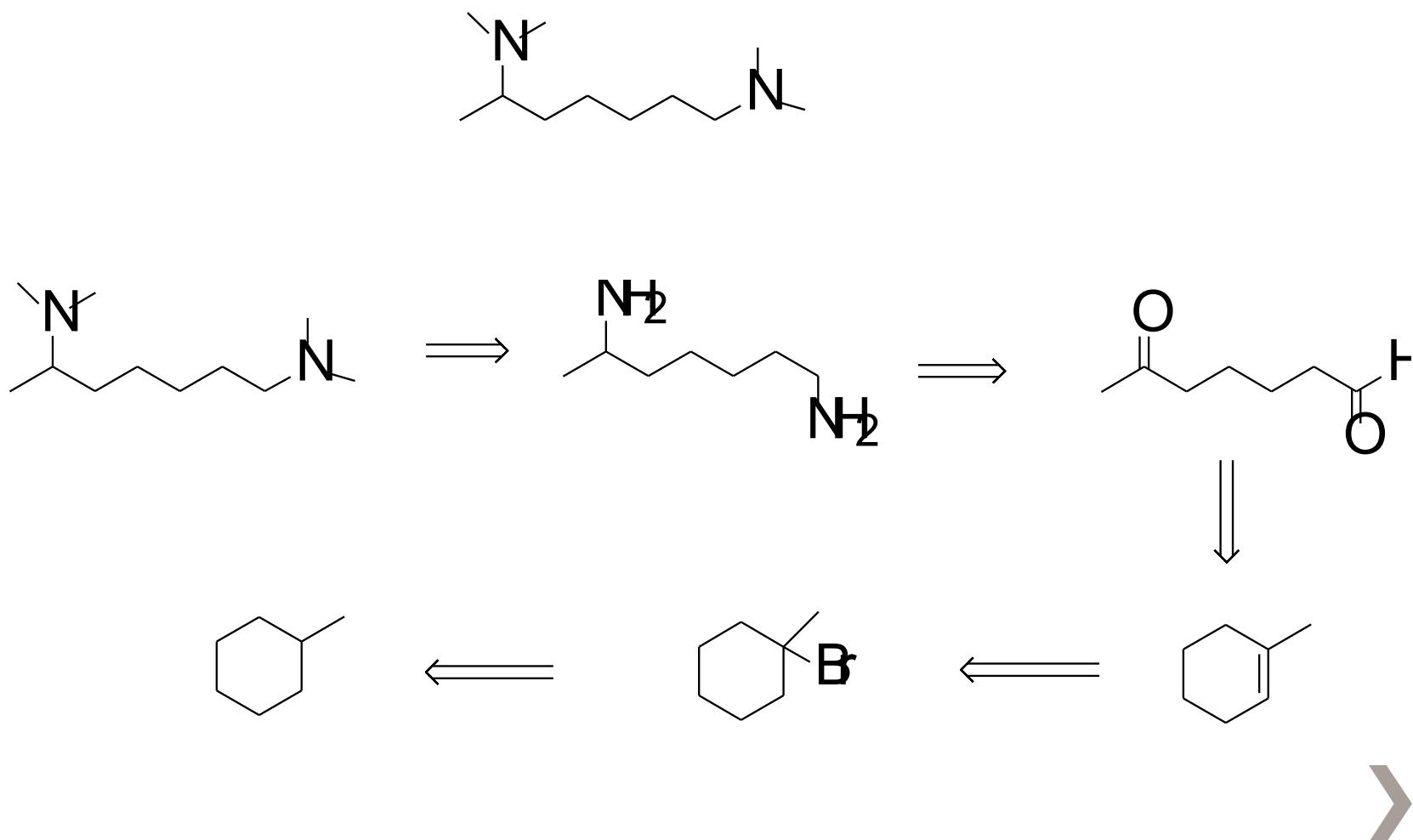


Reduktivní aminace

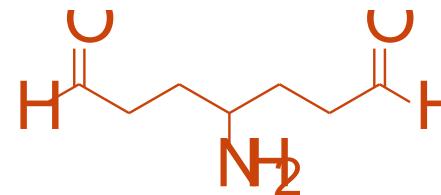
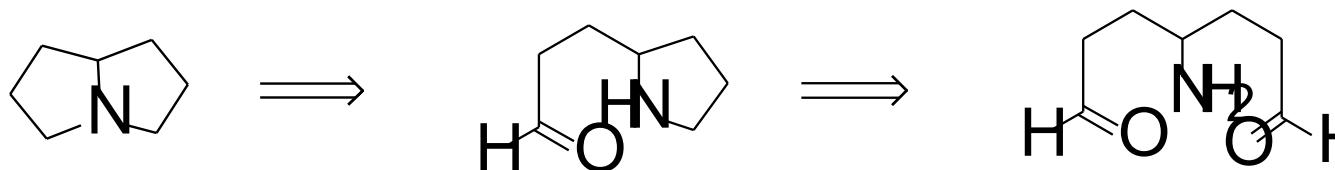
navrhněte syntézu uvedených sloučenin a jako zdroj dusíku
využijte amoniak



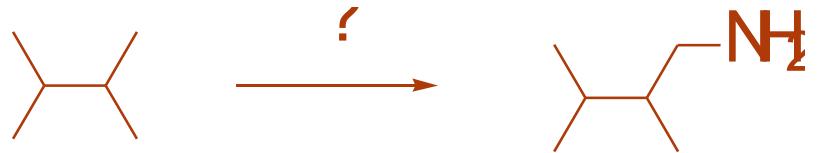
Navrhňte syntézu uvedené sloučeniny z methylcyklohexanu



**Navrhňte prekurzory pro syntézu následující sloučeniny
reduktivní aminací**



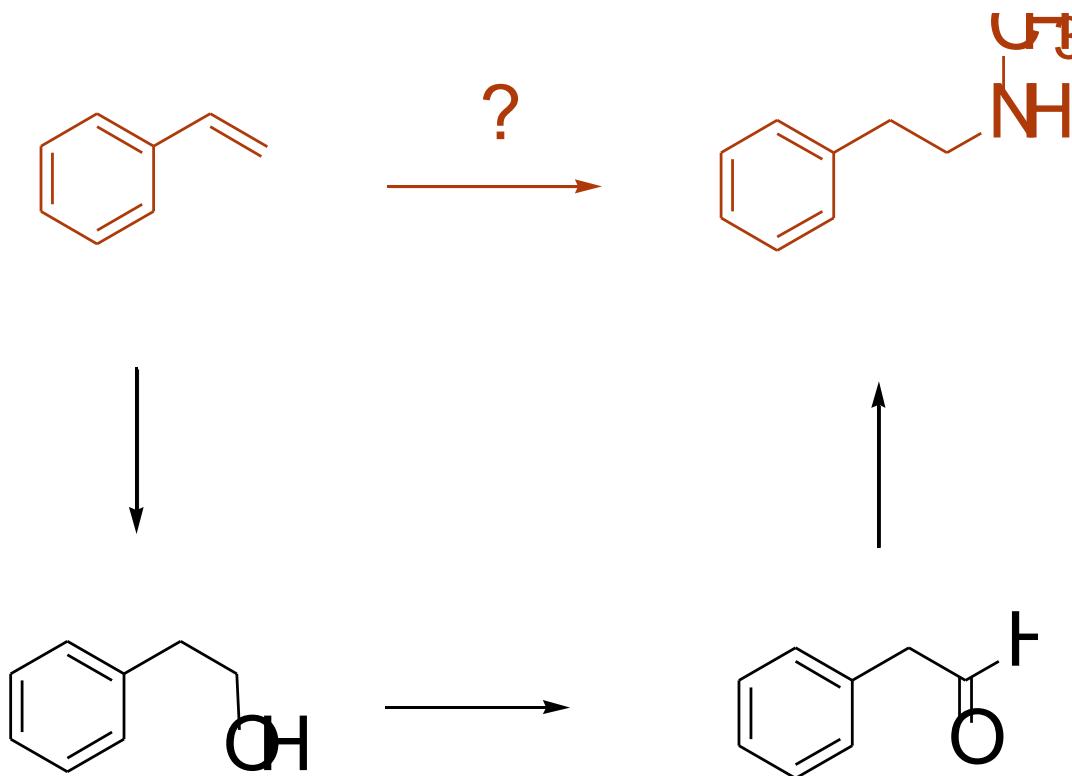
Navrhněte podmínky pro následující přeměny



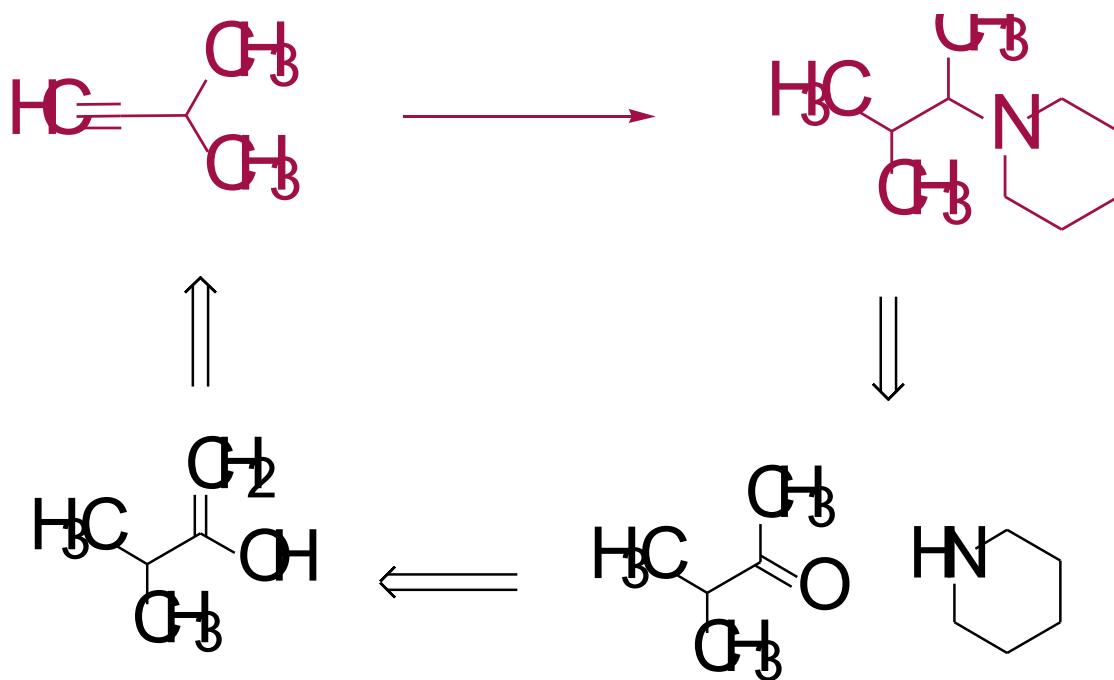
- 1) radikálová halogenace
- 2) E2, *t*-BuOK
- 3) HBr, hν
- 4) Gabrielova syntéza



Navrhněte podmínky pro následující přeměny



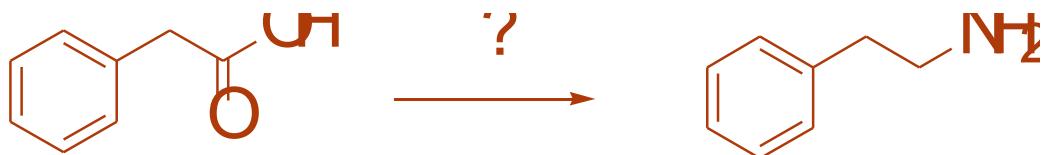
Navrhňte podmínky pro následující přeměny



- 1) adice vody
- 2) reduktivní aminace



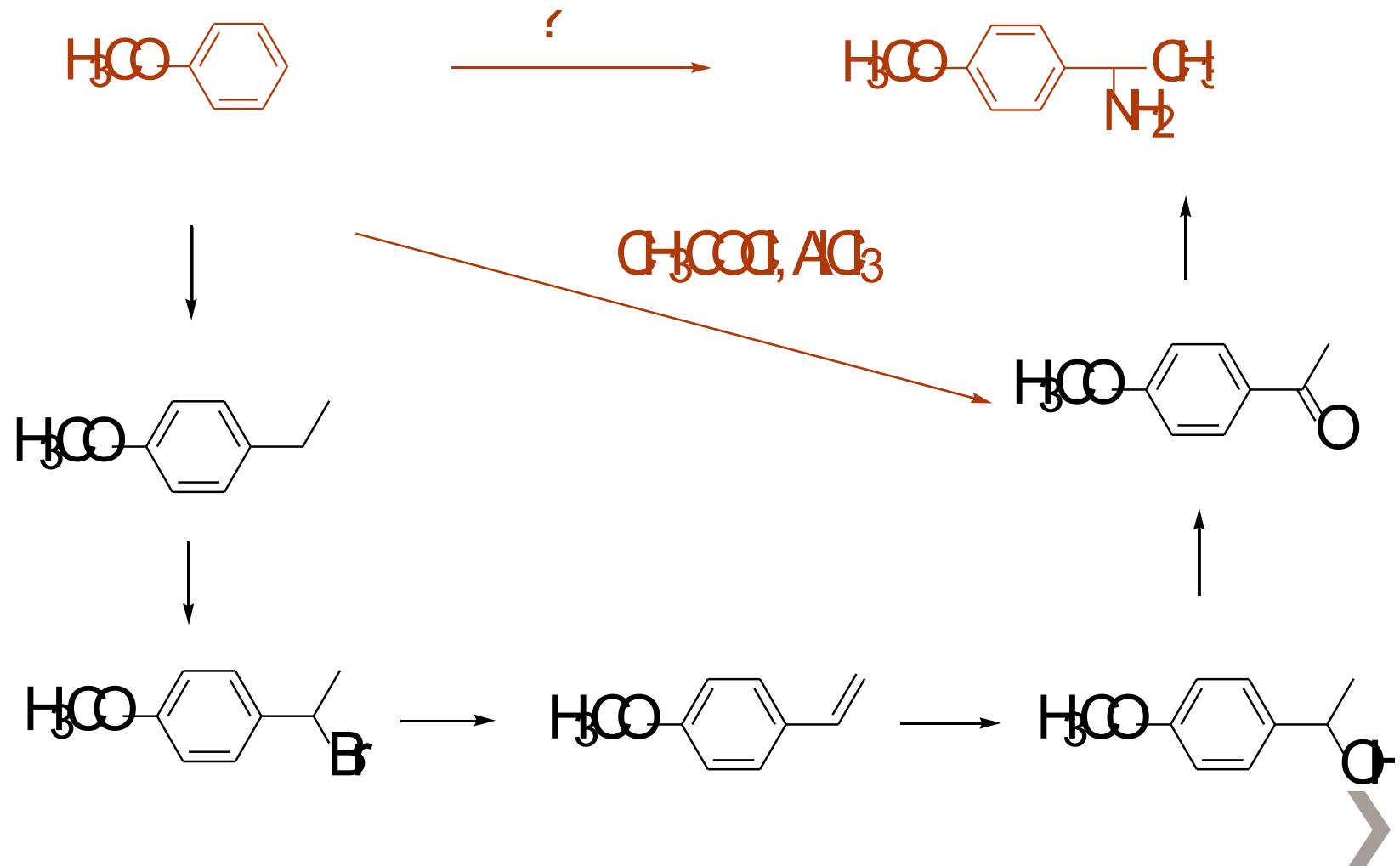
Navrhňte podmínky pro následující přeměny



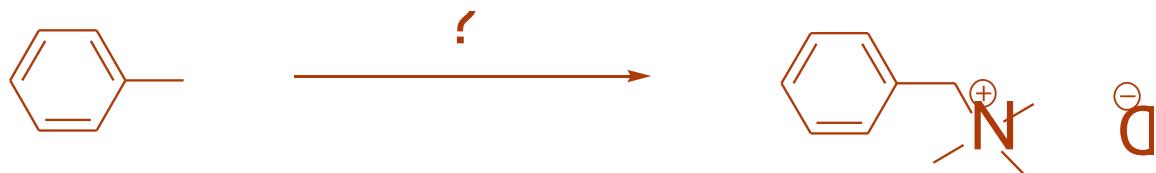
- 1) redukce na alkohol (LiAlH_4 , poté H_2O)
- 2) PBr_3
- 3) Gabrielova syntéza



Navrhněte podmínky pro následující přeměny



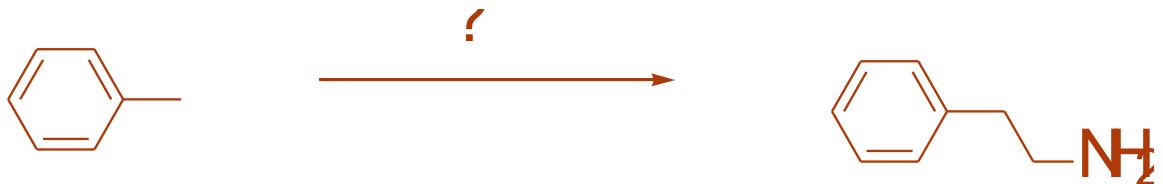
Navrhněte podmínky pro následující přeměny



- 1) halogenace v bočním řetězci
- 2) reakce s *terc*-aminem



Navrhňte podmínky pro následující přeměny



- 1) halogenace
- 2) výměna halogenu za CN skupinu
- 3) redukce LiAlH₄



Navrhňete podmínky pro následující přeměny



- 1) oxidace na aldehyd
- 2) reduktivní aminace



Navrhнete podminky pro nasledujc premeny

