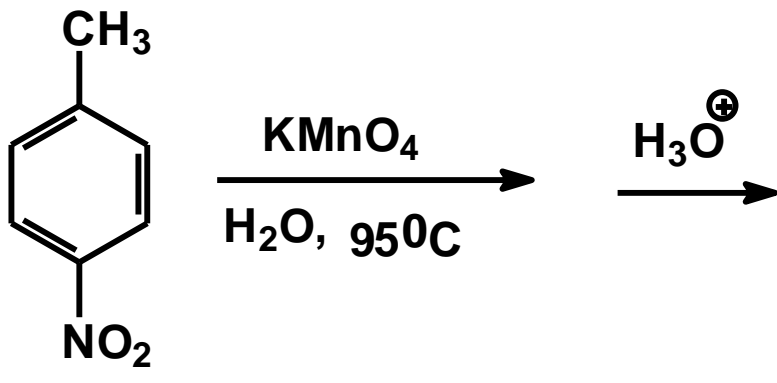


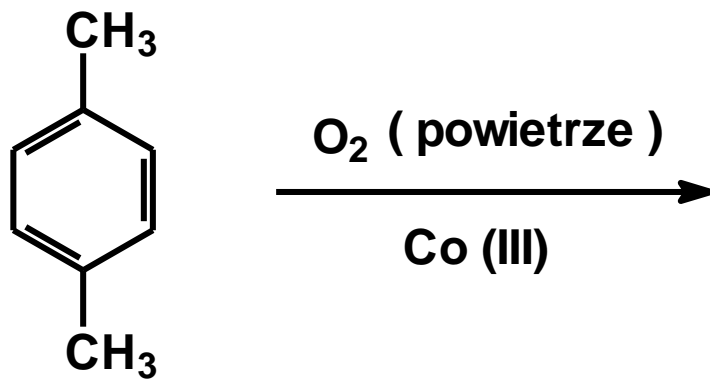
# Reakcje podstawników alkilowych związków aromatycznych

## 1. Utlenianie łańcuchów alkilowych



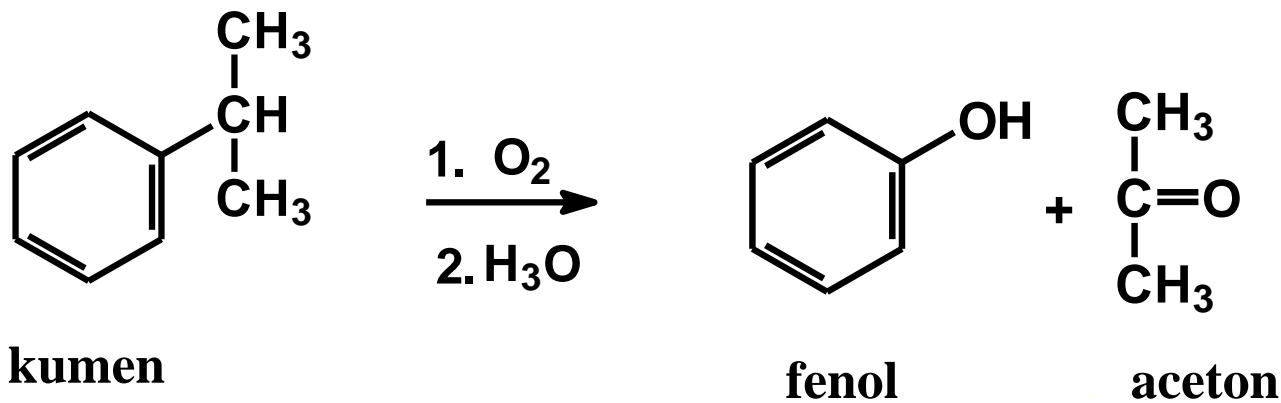
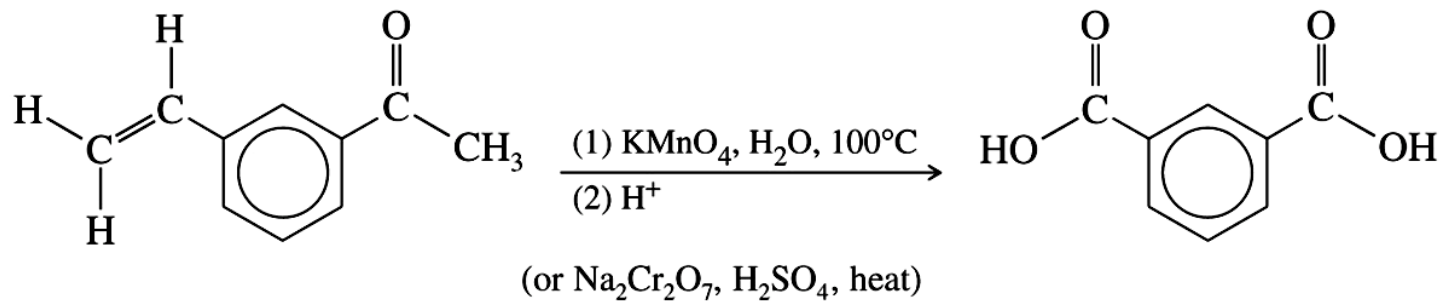
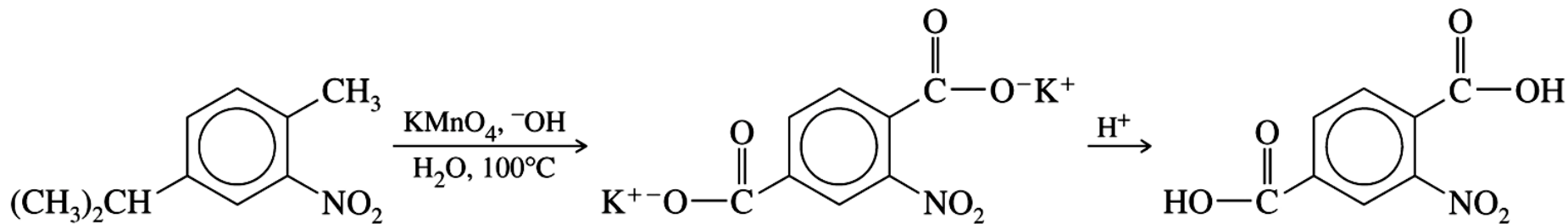
p-nitrotoluen

kwas p-nitrobenzoesowy

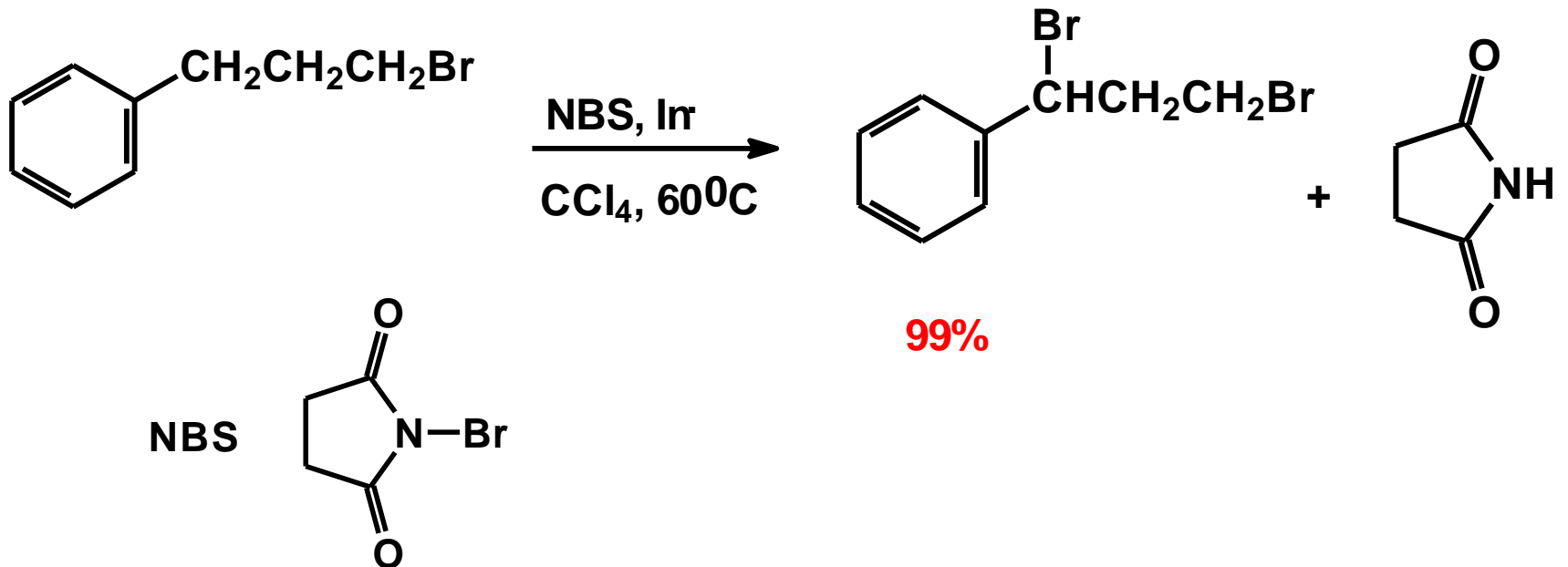
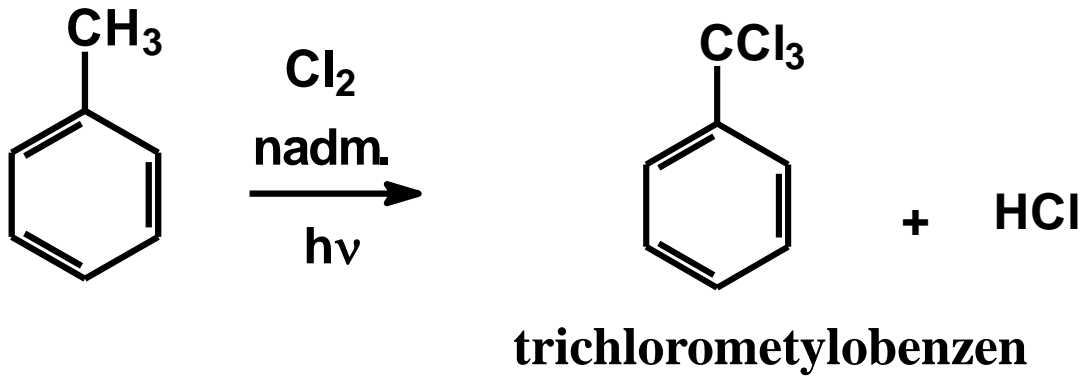


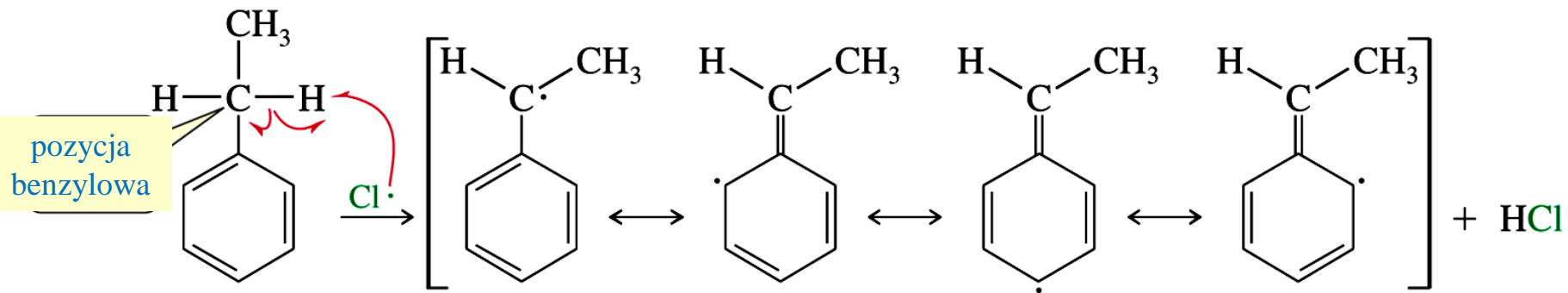
p-ksylen

kwas tereftalowy

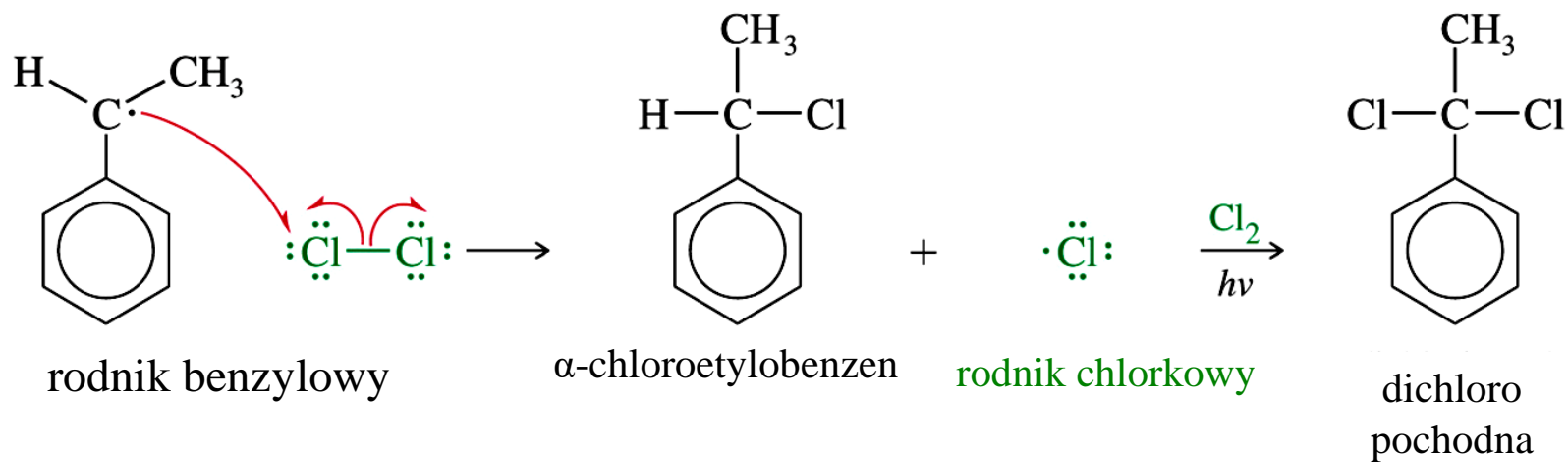


# Rodnikowe halogenowanie

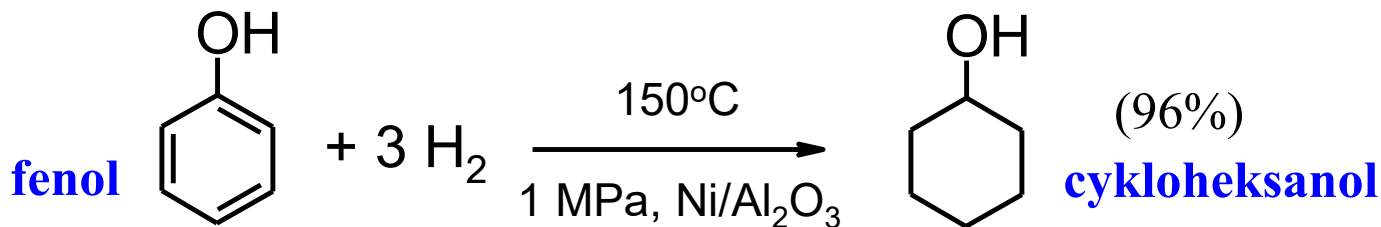
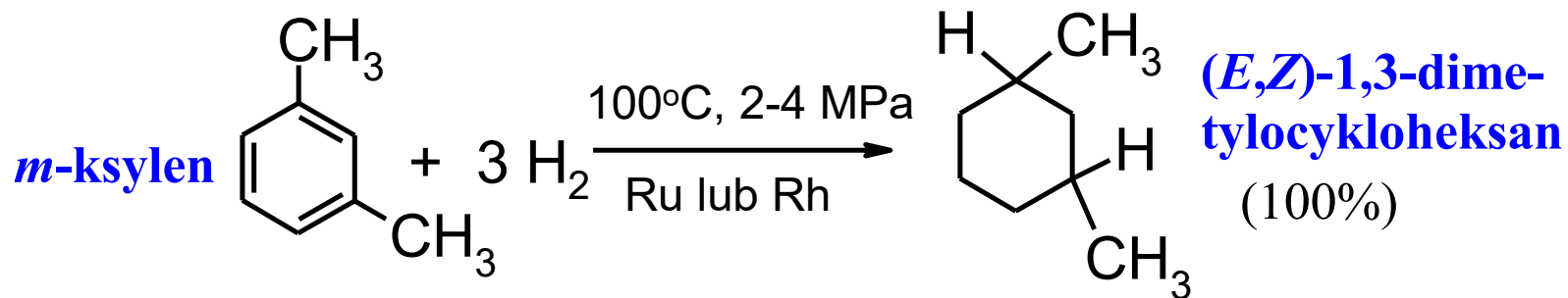
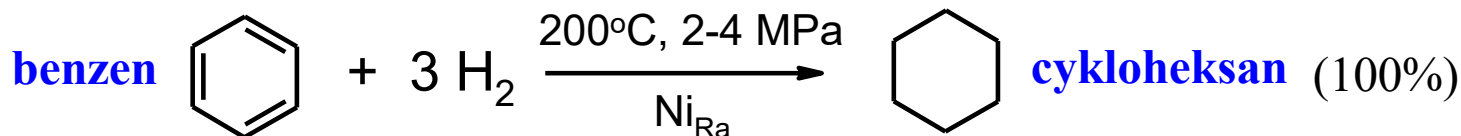




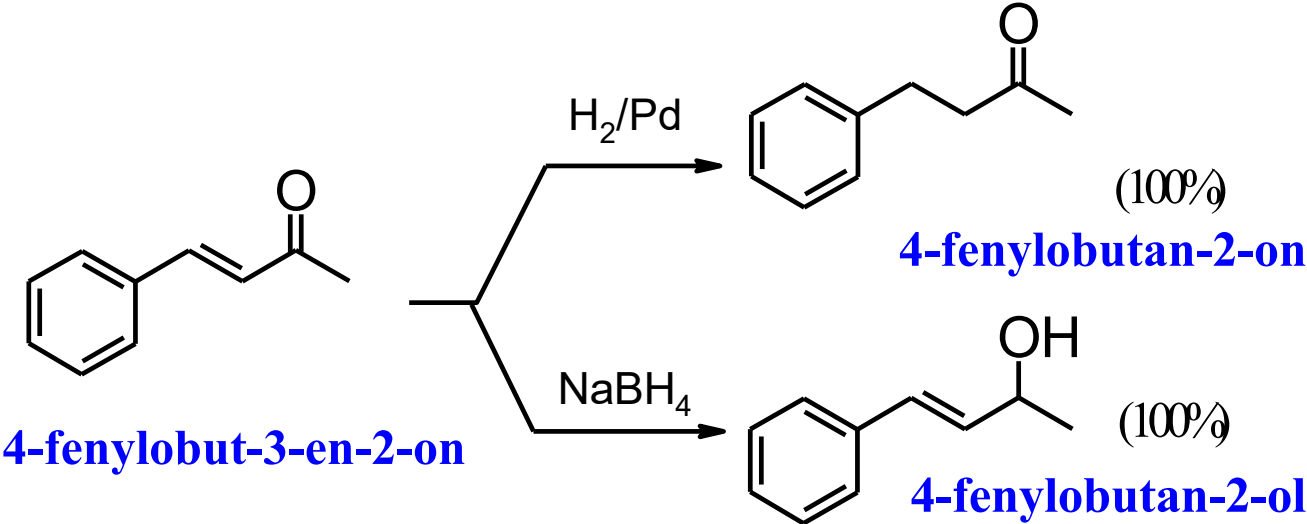
stabilizowany rezonansowo rodnik benzylova



# Redukcja arenów



# Uwodornienie selektywne



# redukcja Bircha (1944 r.)

