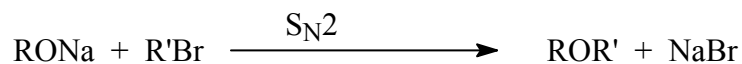


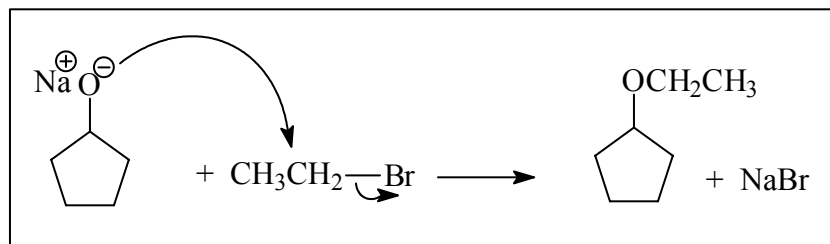
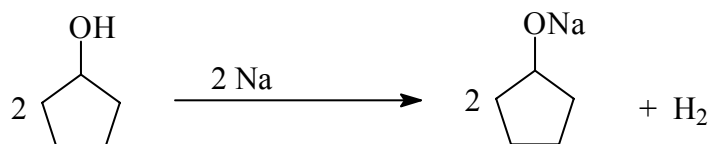
Preparation of ethers:

Williamson Ether Synthesis

General reaction:

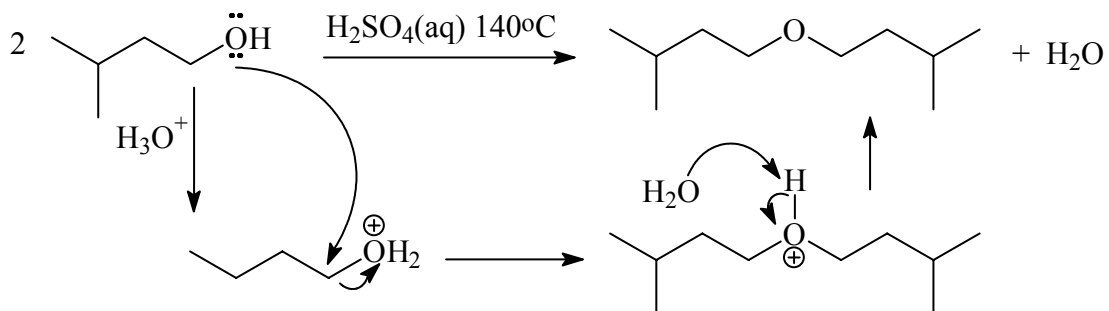


prepare alkoxide

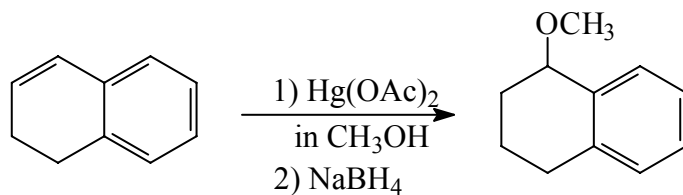


This is an $\text{S}_{\text{N}}2$ reaction, thus the alkyl halide should be primary or methyl.

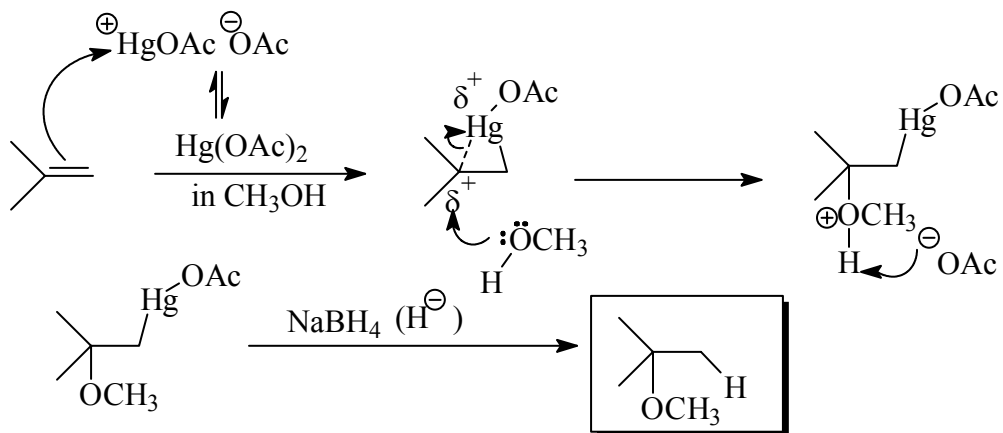
Dehydration of Alcohols to make symmetrical ethers



Alkoxymercuration/demercuration

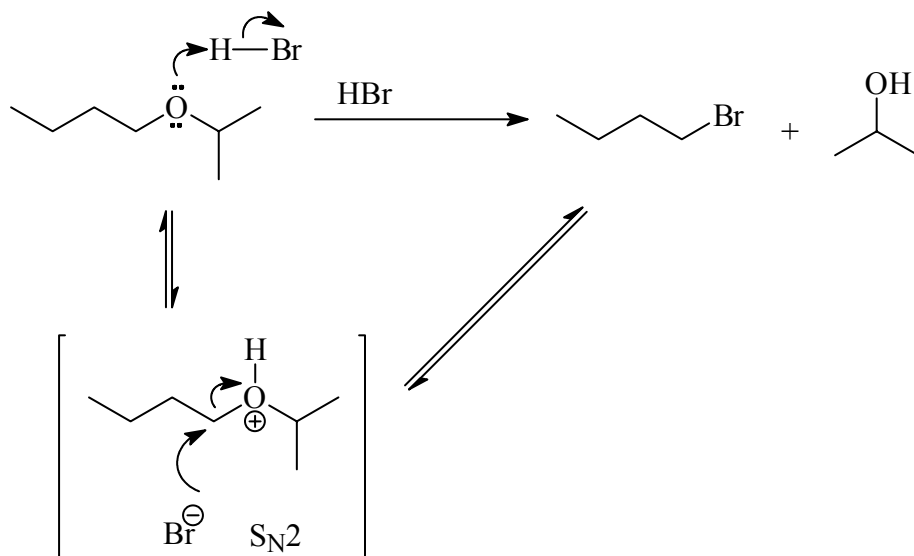


Mechanism is Markovnikov oxymercuration



Reactions of ethers:

Cleavage with HI or HBr



examples (provide the mechanism):

