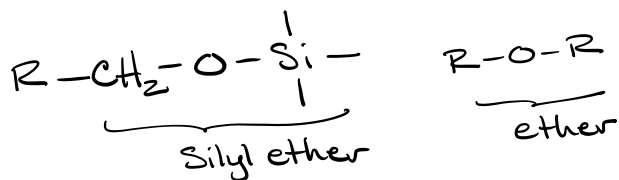
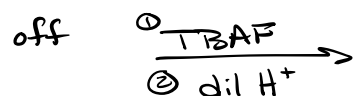
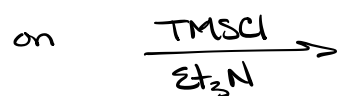
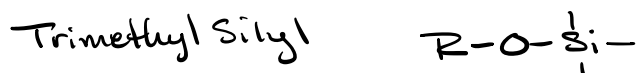


Alcohol Protecting Groups

① Silyl Ethers

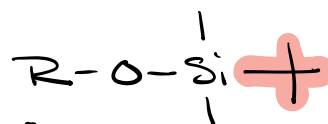


A) TMS

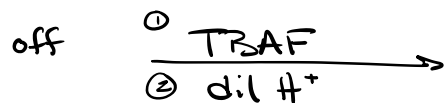
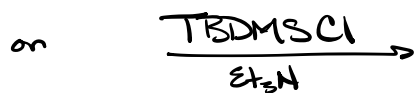


B) TBDMS

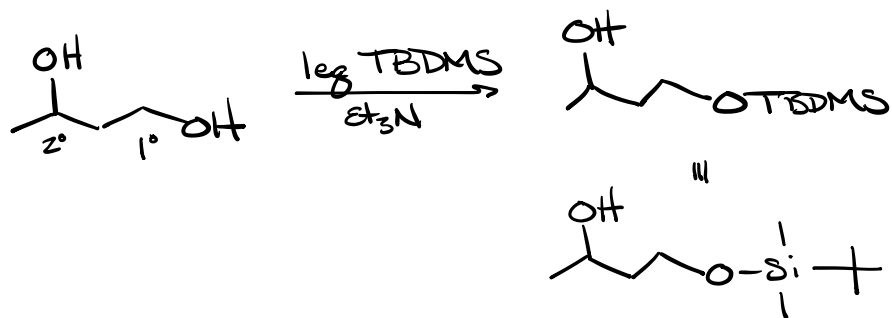
Tertiary-butyl-dimethyl silyl



Steric group \Rightarrow Selective for 1° alcohol

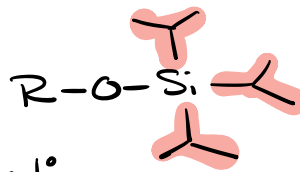


ex

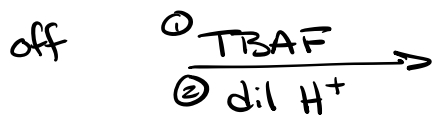


c) **TIPS**

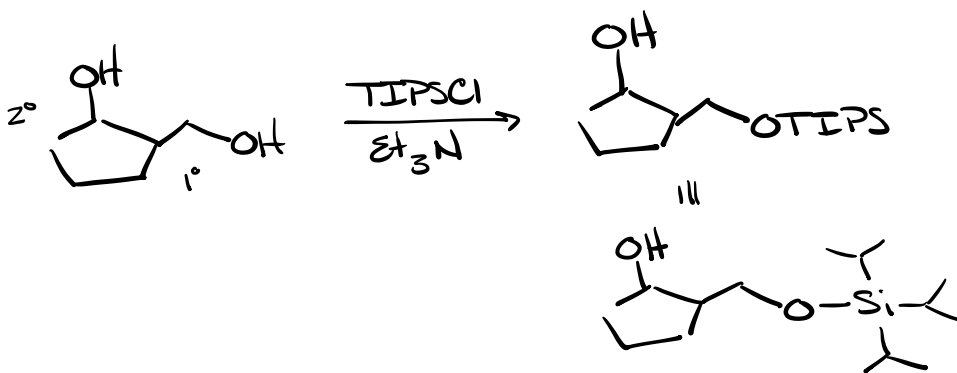
Tri-isopropyl silyl

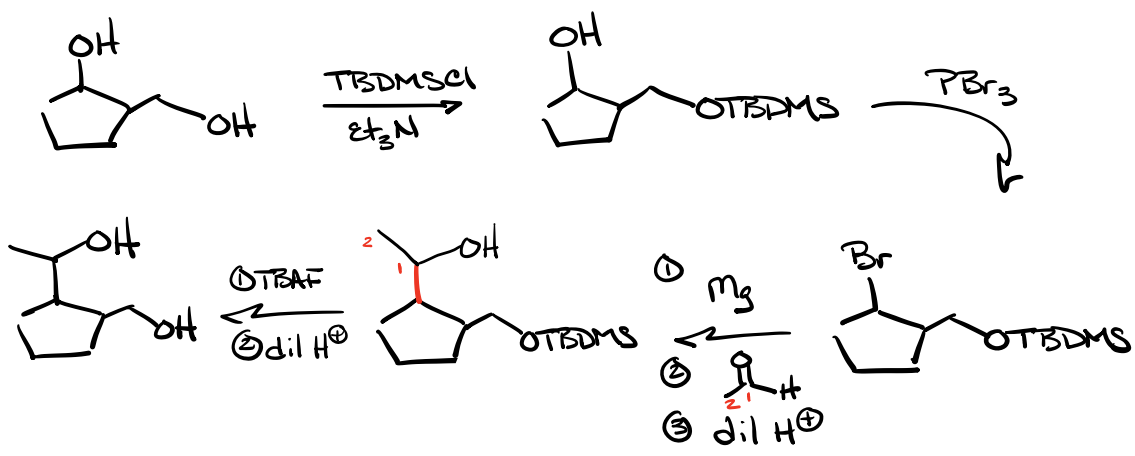


steric group selective for 1°



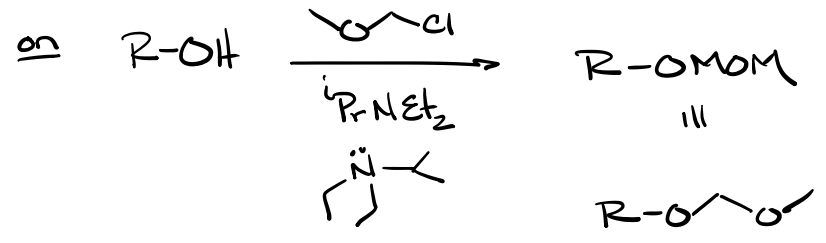
ex



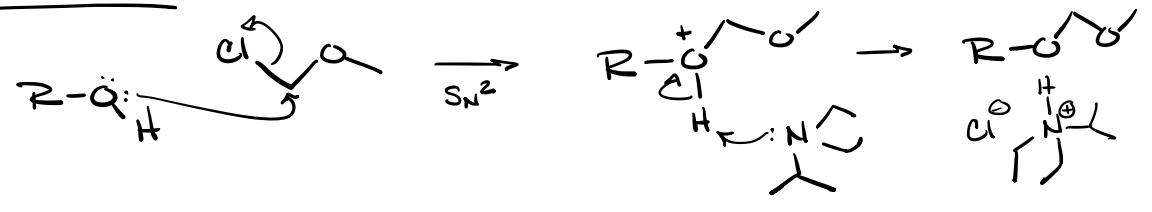


Ether type $R-O-R'$

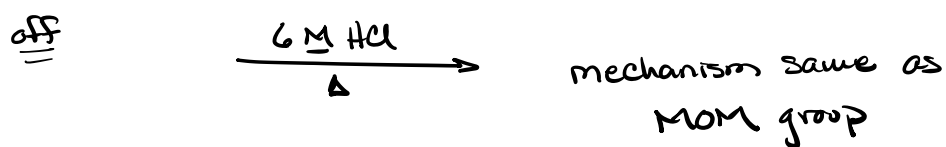
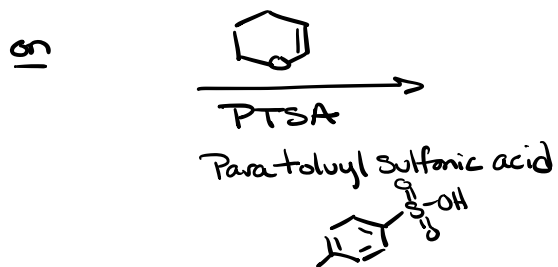
2) MOM methoxy methyl ether $R-O-CH_2-O-CH_3$



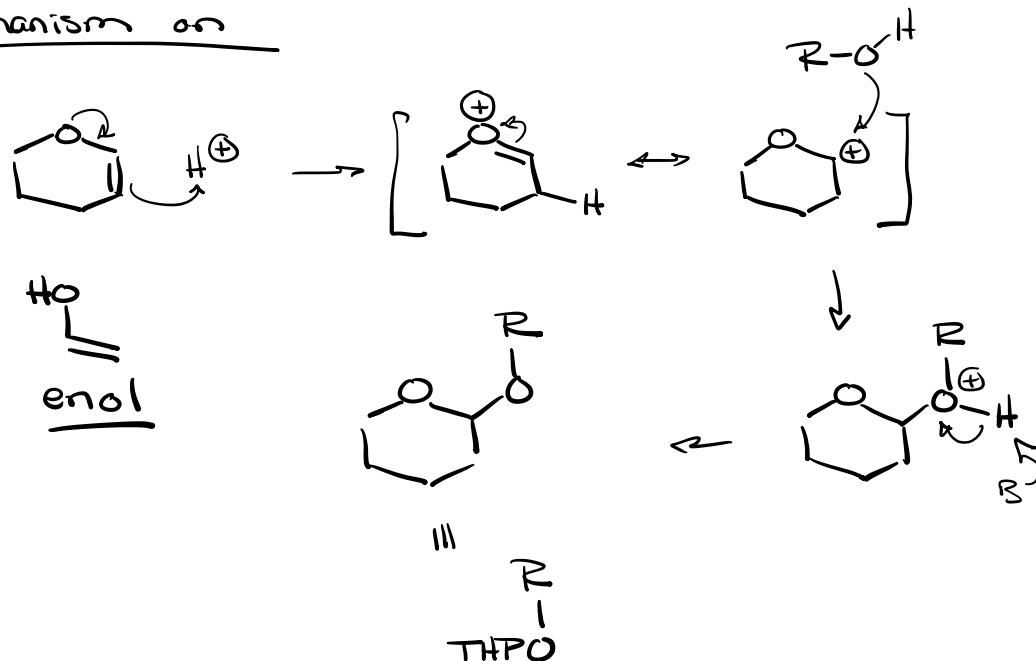
mechanism



ether type



Mechanism on

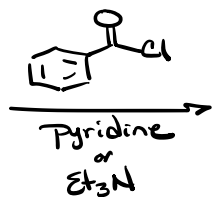


Ester type

Benzoyl group



on

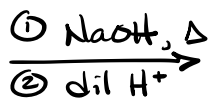


"Hünig's Base"

non nucleophilic
Bases

"Steric Bases"

off

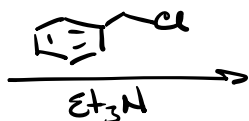


"Saponification"

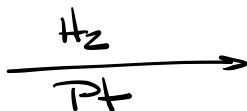
Benzyl group



on

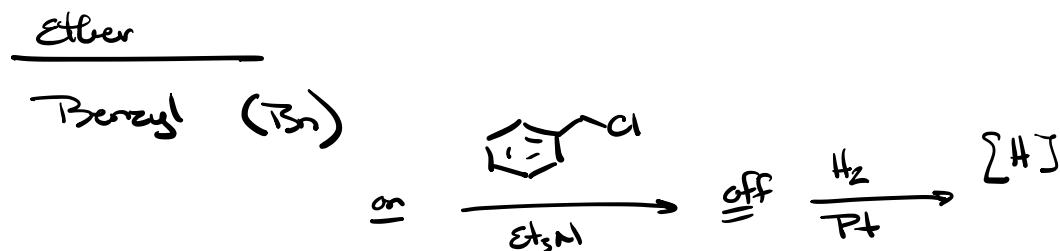
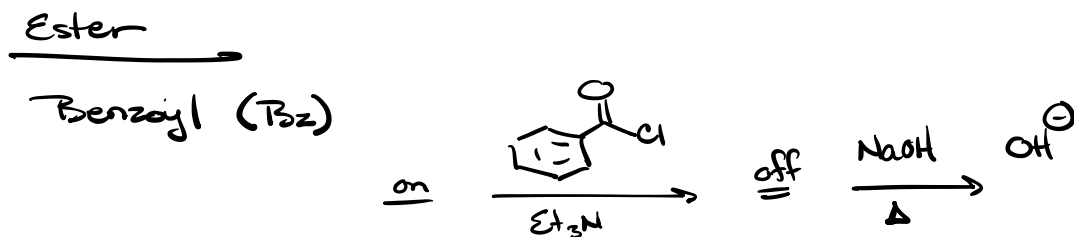
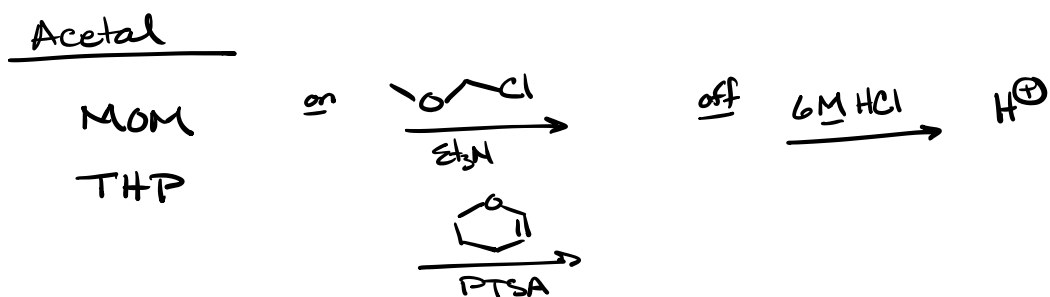
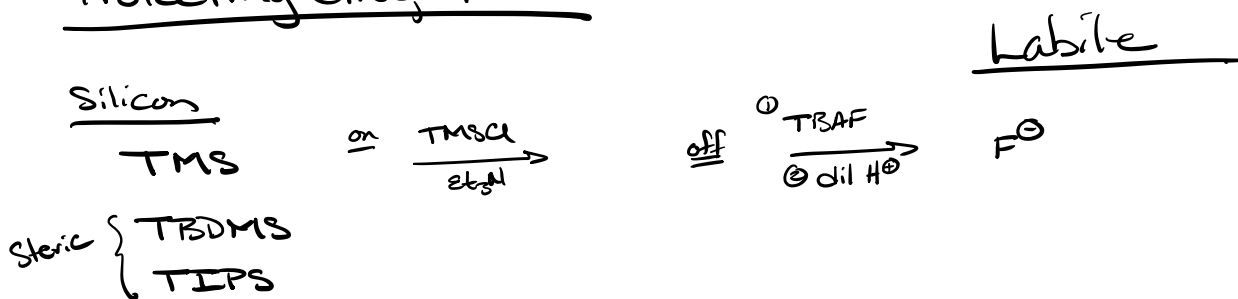


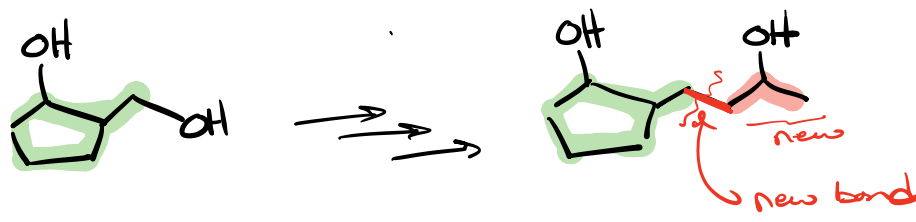
off



Hydrogenation

Protecting Group list





Plan

