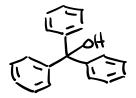
Grignard Formal De Next Monday on 27th

Introduction for Grignard



nothing Special about triphenyl method

The product is not important.

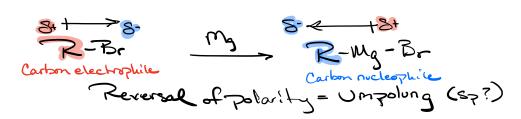
If product is not important,
then what is?

Grignard Rxn that we are interested in.

=> 1st Rxn we have shown to make C-C bonds

=> 1st Carbon nucleophile

=> Reaction extremely general



Alkyl

Alkenyl

Alkynyl

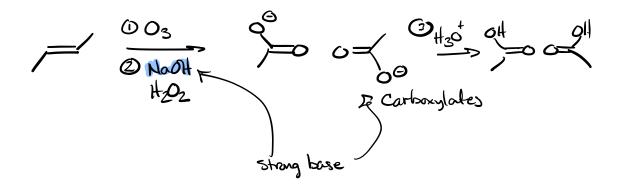
Aryl

Sr

* Allows for Synthesis of new Carbon-Corbon bondo.

Intro

- Grignard as Chemist & Mobel Prize
- Synthesis and the need to make new Carton-Carton bonds



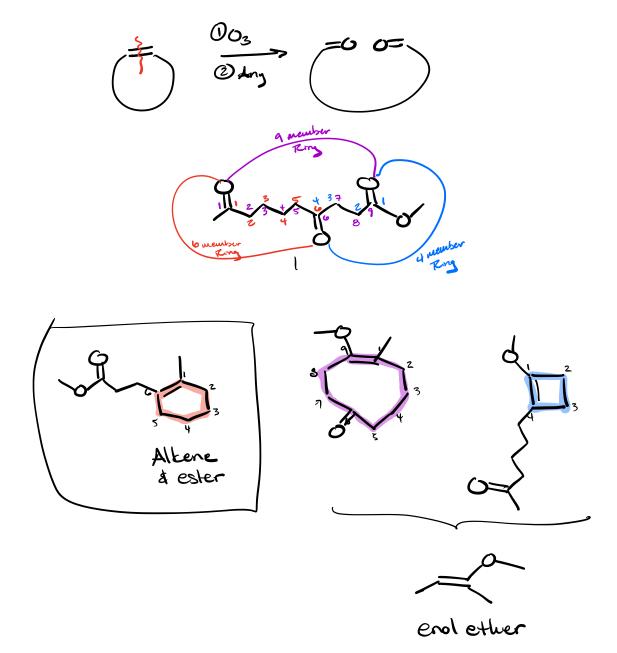
Find Compounds A &B

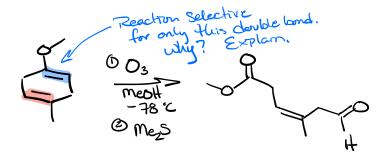
units of unsaturation

Cn H(2n+2+N-X) & for Saturation
units of unsat = (#H for Saturation - #H in modecule)

$$C_{11} + (2.11+2) = C_{11} + (2+1) = C$$

3 ways to go back to a cyclic molecule





Question Could it be that oxygen is Euch & walker alkene Stronger St?

EIGHT

Electrophilic addition to alkenes

etectrophile

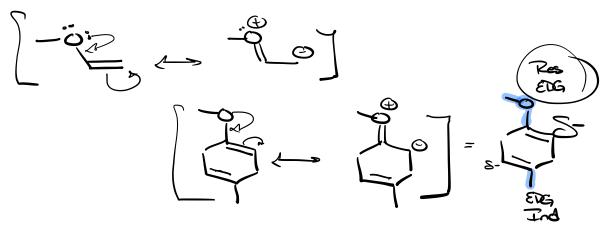
nucleophila

St .Ö-Ö-Ö. Ekectrophile

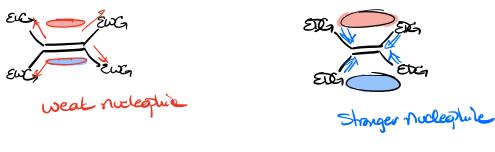
H H

H 9 H

Question Oxygen as Etts by Resonance



would that be consistent up electrophilic addition where others involves hile?

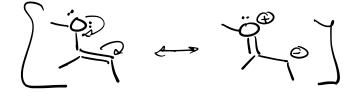


e rich due to resonance donation by oxygen

O 03

O West of the inductive donation by wetly

Electrophilic addition can be selective for more et vich alkene as stronger nucleophilic

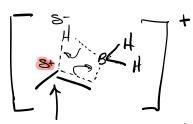


Give the products of both.

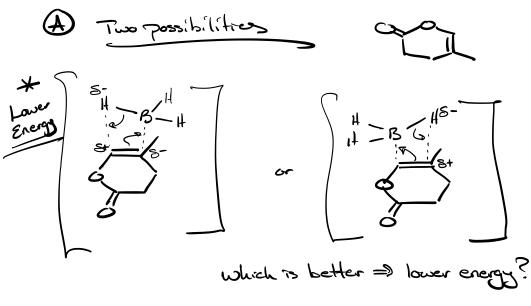
Lactone Challerge

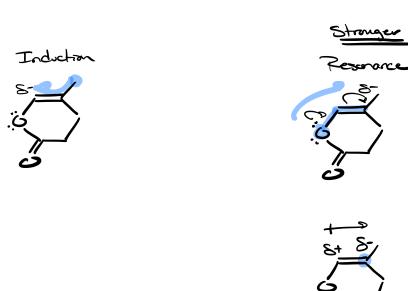
10 no alky or hydride Shift

- @ Syn add
- 3 Electronics Govern => not Sterics



want St on west Stable & Boron goes opposite the Most Stable St





be octet violation!