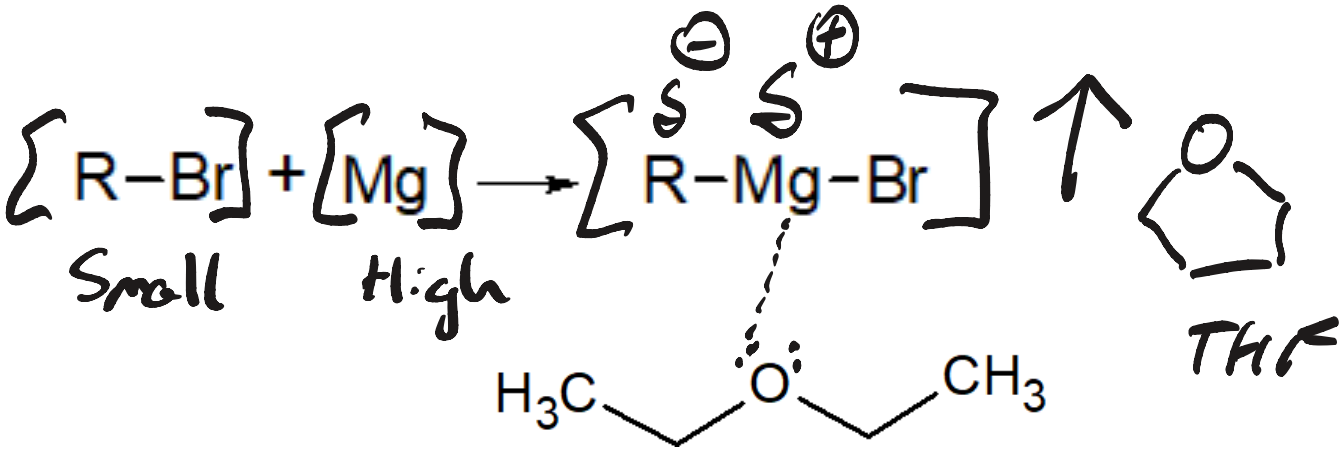
Organometallics

220C

10/19/26

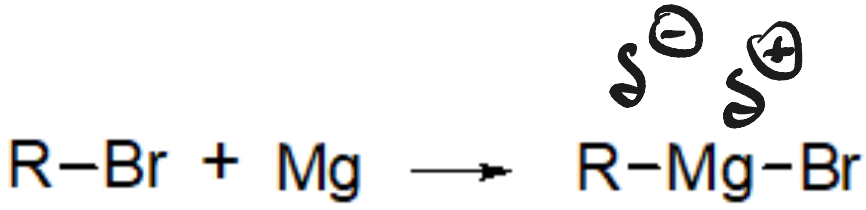
C - Mg



1. R—Mg—Br + O=O → $R-O_2^{\ominus}\ Mg^{\oplus}Br$

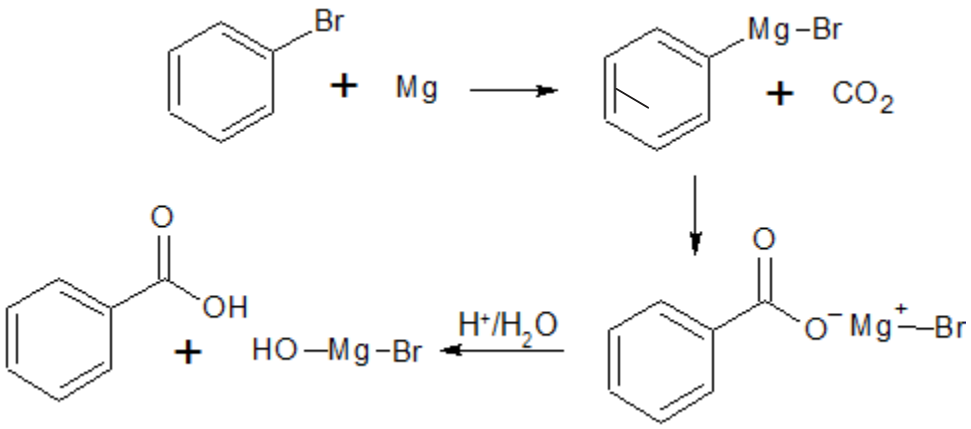
2. R—Mg—Br + O=C=O → $R-CO_2^{\ominus}\ Mg^{\oplus}Br$

3. R—Mg—Br + R—Br → $R-R + MgBr_2$



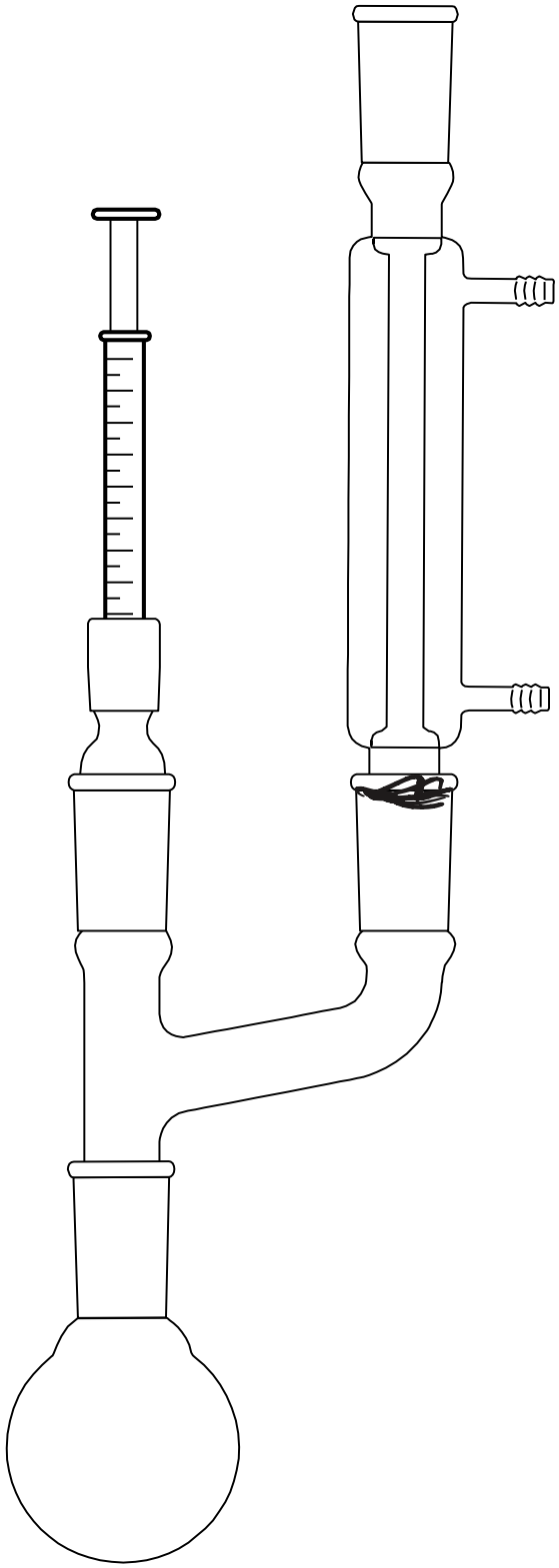
aprotic

H_2O



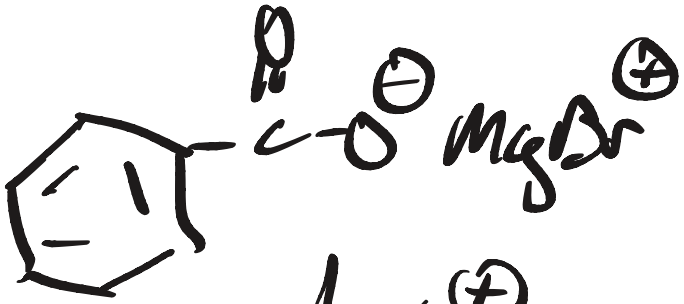
Sources of Water in a Reaction

1. solvent anhydrous
2. air air conditioning
3. glass water

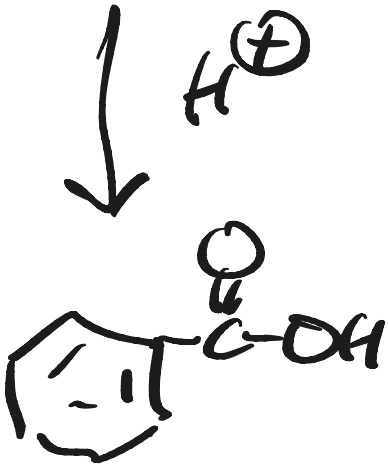

No hoses
NO hoses
Mg Powder

Dry ice

inverse addition



2½-3 hrs

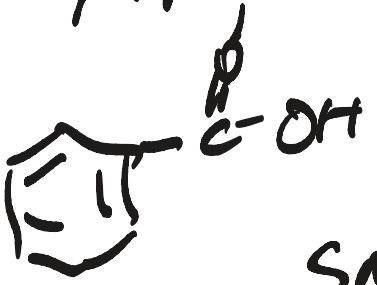


L/S ether



L/L NaOH

mp, % yield 65% 30-50, IR



Small skinny