Today

Next Class

Reactions with Oxygen Nucleophiles Section 16.9

Other Reactions 16.11-16.17

Protecting Groups 16.10

Rework test 2 by Wednesday

one and done CH3MgBracts like 432 38 one and done Li Al Hy acts like $P = \frac{1}{2} - R \Rightarrow P = \frac{2}{2} - R$ HNR one and deprotonate and go again H-O-R

ram also do one a

deprotonate and go again

carbonyls in sugars can do the same reactions eve are looking of.

least crowded most e deficient C 0.1 % H_C=0 99.9% HO ON

Mechanism - Hydration H is from Section 16.9 R 180-11

Reactions of Aldehydes and Ketones with Oxygen Nucleophiles - Acetals and Hemiacetals

Section 16.9

Although ketone, more correctly form ketals and hemiketals, chemists typically refer to the entire class of molecules as acetals and hemiacetals.

HOOR"

$$R''$$
 R''
 R''

Although ketone, more correctly form ketals and hemiketals, chemists typically refer to the entire class of molecules as acetals and hemiacetals.

7

How do me reduce the ester reducing the betone. NaBH4 reduces betones but not esters reduces everything to