

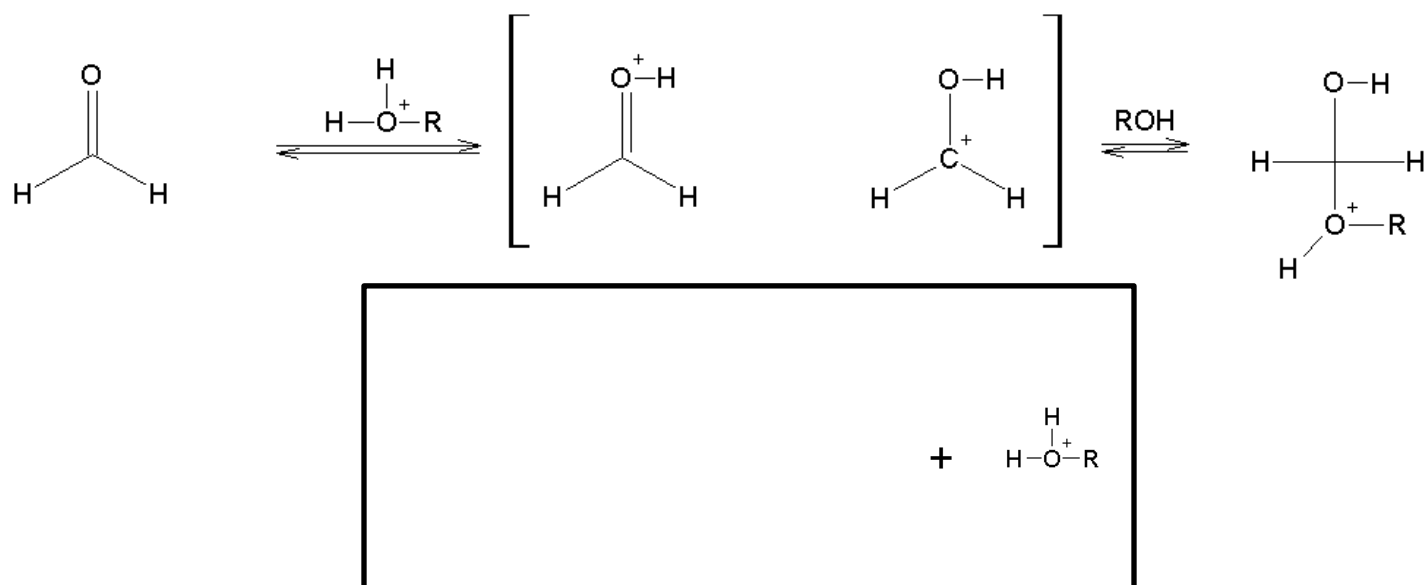
## CONCEPT: ACETALS

Acetals are stable in \_\_\_\_\_ and are easily hydrolyzed back to carbonyls using \_\_\_\_\_

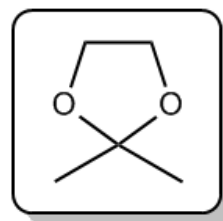
- Cyclic acetals are formed by reacting carbonyls with a \_\_\_\_\_

### Carbonyl + 2 Eq. Alcohol

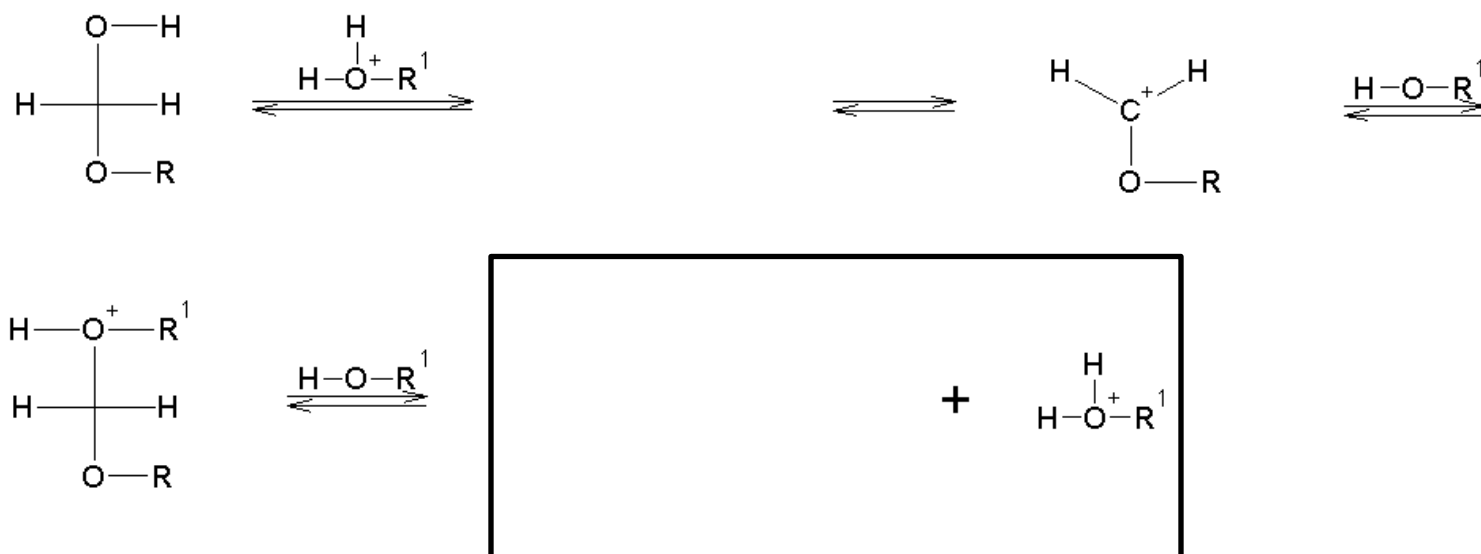
- *Acid-Catalyzed Hemiacetal Formation*



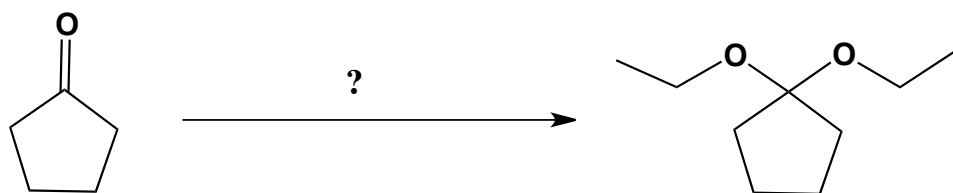
**Cyclic  
Acetal**



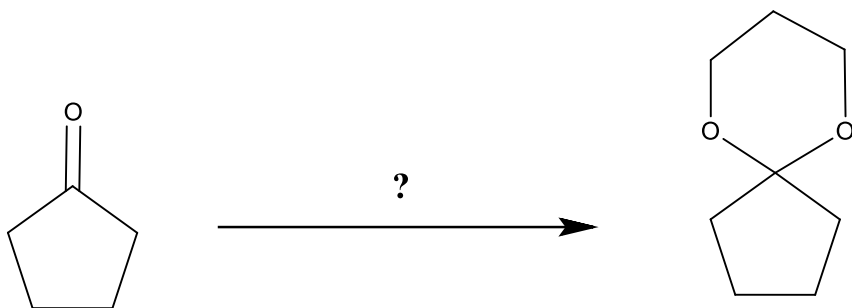
- *Acid-Catalyzed Acetal Formation*



PRACTICE: Provide the chemical steps necessary for the following synthesis.



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PRACTICE: Determine the starting materials based on the acetal group present.

