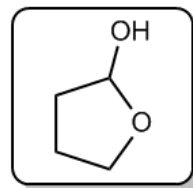


CONCEPT: HEMIACETALS

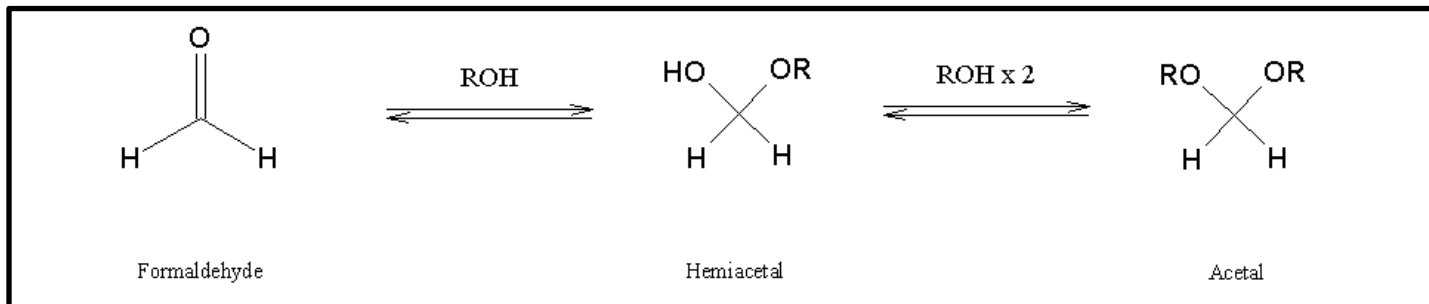
Technically, an _____ is the product of alcohol and **aldehyde**, while _____ is alcohol and **ketone**.

- We will simply use the word “acetal” to represent these *gem*-diether structures in general
- Hemiacetals are only stable when they are _____.

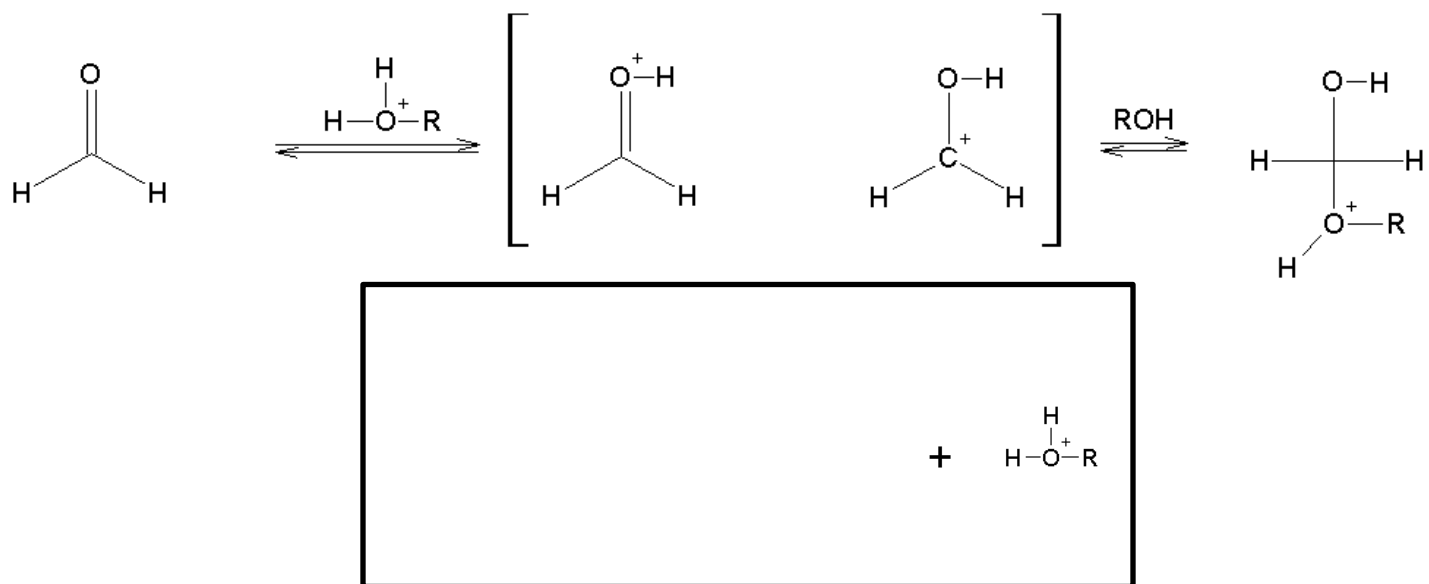
Cyclic
Hemiacetal



Carbonyl + 1 Eq. Alcohol



• Acid-Catalyzed Hemiacetal Formation



• Base-Catalyzed Hemiacetal Formation

