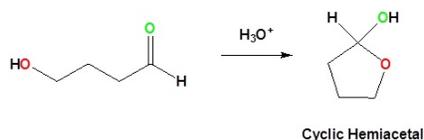


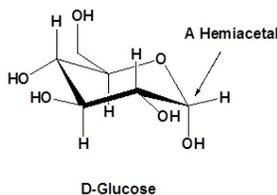
19.7: Cyclic Hemiacetals

Formation of Cyclic Hemiacetal and Acetals

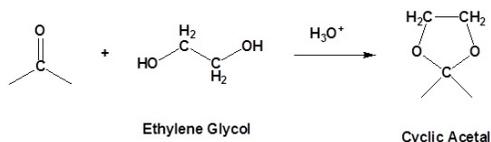
Molecules which have an alcohol and a carbonyl can undergo an intramolecular reaction to form a cyclic hemiacetal.



Intramolecular Hemiacetal formation is common in sugar chemistry. For example, the common sugar glucose exists in the cyclic manner more than 99% of the time in a mixture of aqueous solution.



Carbonyls reacting with diol produce a cyclic acetal. A common diol used to form cyclic acetals is ethylene glycol.



Contributors

- Prof. Steven Farmer ([Sonoma State University](#))

19.7: Cyclic Hemiacetals is shared under a [CC BY-NC-SA 4.0](#) license and was authored, remixed, and/or curated by LibreTexts.