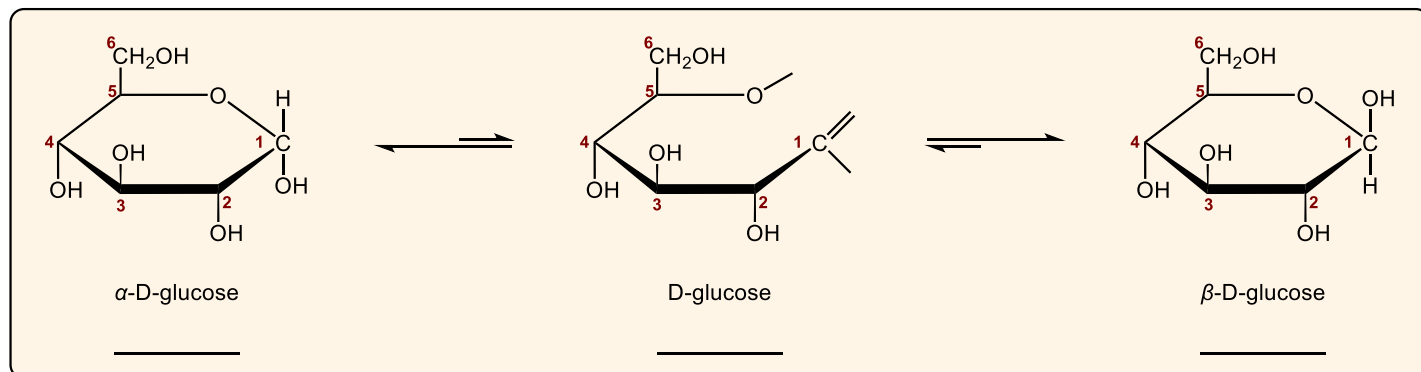


CONCEPT: MUTAROTATION

- In aqueous solutions, hemiacetal forms of monosaccharides are in _____ with the open-chain form.
 - **Mutarotation:** Interconversion of α and β forms through repeated ring _____ and _____.



- β anomer of D-glucose is _____ stable than the α anomer.

EXAMPLE: Which of the following statements about mutarotation is incorrect?

- Mutarotation takes place when the hemiacetal ring opens and closes again.
- Monosaccharides are always present as a mixture of two anomers in their aqueous solutions.
- The α anomer does not convert into the open-chain form, but the β anomer does.
- The open-chain form is present in the lowest amount because the cyclic form is more stable

PRACTICE: Draw the open-chain structure to complete the mutarotation of D-mannose.

