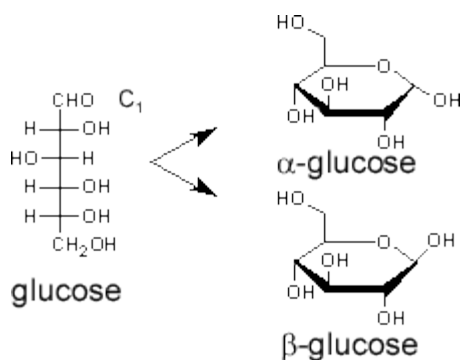


Answer on Question #77670, Chemistry / Othe

The precise chemical description (anomer, isomer and either pyranose or furanose form) of the circular stereoisomers that are formed by ribose in cells.

Answer:

When the ring form is made from the linear form, two slightly different molecules can form, depending on the orientation of the carbon at position 1 (C1). These different forms are anomers of each other, and they have subtly different properties. In the α anomer, C6 and the hydroxyl group on C1 are on opposite sides of the ring. In the β anomer, C6 and the hydroxyl group on C1 are on the same side of the ring.



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