

### essentials of carbohydrate chemistry pdf

Written for students as well as practicing scientists, this text/reference will be of interest to a wide range of disciplines influenced by carbohydrates: biochemistry, chemistry, food and nutrition, microbiology, pharmacology, and medicine.

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### Essentials of Carbohydrate Chemistry and Biochemistry

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### Essentials of Carbohydrate Chemistry | John F. Robyt

She studied chemistry at the Universities of Munich and Münster, received her diploma in chemistry/biochemistry in 1988 and her Ph.D. in Organic Chemistry in 1991 at the University of Hamburg in the group of Prof. J. Thiem.

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### Essentials in Carbohydrate Chemistry and Biochemistry

ketoneketone group, carbohydrates are readily group, carbohydrates are readily oxidised and behave as the reducing agents. These sugars have the capacity to reduce cupric (Cu<sup>2+</sup>) to cuprous ion (Cu<sup>+</sup>). Therefore the reducing sugar like glucose will give positive Benedict's reactions.

### CHEMISTRY OF CARBOHYDRATES Carbohydrates are organic

of Carbohydrates 8 Stereoisomers © Glycerinaldehyde, the simplest carbohydrate, exists in two isomeric forms that are mirror images of each other: C CHO CH<sub>2</sub>OH HO CH HOH CH<sub>2</sub>OH CHO L-glycerinaldehyde D-glycerinaldehyde © These forms are stereoisomers of each other. © Glycerinaldehyde is a chiral molecule © it cannot be superimposed on its mirror image.

### Fundamentals of Organic Chemistry 7 Carbohydrates

Chemistry 108 Chapter 12 Lecture Notes Carbohydrates 1 Chapter 12 Lecture Notes: Carbohydrates Educational Goals 1. Given a Fischer projection of a monosaccharide, classify it as either aldoses or ketoses.

### Chapter 12 Lecture Notes: Carbohydrates

zSimplest group of carbohydrates, cannot be further hydrolysed. zGeneral formula : C<sub>n</sub> (H<sub>2</sub>O)<sub>n</sub> zCategorization of monosaccharides is based on the Functional Group. (Aldehyde or keto) zthe Number of

Carbon atoms.

## **CHEMISTRY OF CARBOHYDRATES**

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### **Essentials of Carbohydrate Chemistry and Biochemistry**

Carbohydrates can be classified in to Monosaccharide, disaccharide, and polysaccharides. Mono is the smallest sugar unit, disaccharide is made up of two monosaccharides joined by glycosidic linkages .The linkage can be  $\hat{1}\pm$  or  $\hat{1}^2$ . A polymer with more than 10 monosaccharide units is called polysaccharide. Carbohydrates have a wide range of functions.

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the well-known carbohydrates are various sugars, starches, and cellulose, all ... complex, the chemistry of these substances usually involves only two func-

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