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Carbohydrate Chemistry

Carbohydrate chemistry is a subdiscipline of chemistry primarily concerned with the synthesis, structure, and function of carbohydrates. Due to the general structure of carbohydrates, their synthesis is often preoccupied with the selective formation of

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glycosidic linkages and the selective reaction of hydroxyl groups; as a result, it relies heavily on the use of protecting groups .

Carbohydrate chemistry - Wikipedia

In chemistry, carbohydrates are a common class of simple organic compounds. A carbohydrate is an aldehyde or a ketone

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that has additional hydroxyl groups. The simplest carbohydrates are called monosaccharides, which have the basic structure $(C \cdot H_2 O)_n$, where n is three or greater.

The Chemistry of Carbohydrates - ThoughtCo

A carbohydrate (/ kɑːrboʊˈhaɪdriːt /) is a biomolecule consisting of carbon (C),

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hydrogen (H) and oxygen (O) atoms, usually with a hydrogen-oxygen atom ratio of 2:1 (as in water) and thus with the empirical formula $C_m(H_2O)_n$ (where m may be different from n). However, not all carbohydrates conform to this precise stoichiometric definition (e.g., uronic acids, deoxy-sugars such as fucose), nor are all chemicals that

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do conform to this definition automatically classified as ...

Carbohydrate - Wikipedia

Carbohydrates.
Carbohydrates are the most abundant class of organic compounds found in living organisms. They originate as products of photosynthesis, an endothermic reductive condensation of carbon dioxide requiring light

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energy and the pigment chlorophyll. n
 $CO_2 + n H_2O +$
energy $C_n H_{2n} O_n +$
 $n O_2$. As noted here,
the formulas of many
carbohydrates can be
written as carbon
hydrates, $C_n (H_2O)_n$,
hence their name.

Carbohydrates - Chemistry

Carbohydrate
Chemistry. Elucidating
the roles of
carbohydrates and cell-

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associated polysaccharides in biology are key challenges for chemical biologists. Progress has been made toward this end with the use of synthetic oligosaccharides in studying glycochemistry and glycobiology in human health and disease. Such contributions to carbohydrate biochemistry are associated with the

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immune system,
antimicrobials,
vaccines, cancer
therapeutics,
carbohydrate-binding
proteins, and novel
drug ...

Carbohydrate Chemistry - Chemical Biology | Sigma-Aldrich

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monosaccharides and oligosaccharides in a given year. The amount of research in this field appearing in the organic chemical literature is increasing because of the enhanced importance of the subject, especially in areas of medicinal chemistry and biology.

**Carbohydrate
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Carbohydrates

Definition in Science.

The term carbohydrate or hydrates of carbon is derived from its basic elemental formula in which carbon is joined to hydrogen and oxygen present in the same ratio as in water.

Chemically carbohydrates are polyhydroxy aldehydes or ketones, their simple derivatives or their polymers.

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Classification of Carbohydrates with Definition, Types ...

Carbohydrate

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F. KENNEDY, Oxford,

U.K. Oxford 1988, xi +

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two were introductory

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monosaccharides ;
Synthesis of the
glycosidic bond; 3
Oligosaccharides are
major components of
the cell

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All carbohydrates

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consist of carbon, hydrogen, and oxygen atoms and are polyhydroxy aldehydes or ketones or are compounds that can be broken down to form such compounds.

Examples of carbohydrates include starch, fiber, the sweet-tasting compounds called sugars, and structural materials such as cellulose. The term carbohydrate had its origin in a

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misinterpretation of the molecular formulas of many of these substances.

25.10:

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carbohydrate chemistry, synthesis of glycomimetics, multicomponent reactions, and chemical transformations leading to molecular diversity based on carbohydrates.

Recent Trends in Carbohydrate Chemistry | ScienceDirect

Exploring carbohydrate chemistry from both

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the academic and industrial points of view, this unique resource brings together useful information into one convenient reference. The series is unique among other synthetic literature in the carbohydrate field in that, to ensure reproducibility, an independent checker has verified the experimental ...

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Carbohydrate Chemistry: Proven Synthetic Methods, Volume 5 ...

All carbohydrate molecules have hydroxyl groups available for reaction.

Simple monosaccharide and most oligosaccharide (Chapter 3) molecules also have carbonyl groups available for reaction.

(Polysaccharide molecules have a

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maximum of one carbonyl group (at the reducing end [Chapter 4]), so the natural aldehydic or keto group in them is insignificant.)

Carbohydrate Chemistry for Food Scientists | ScienceDirect

A carbohydrate is a naturally occurring compound, or a derivative of such a compound, with the

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Chemistry

general chemical formula $C_x (H_2O)_y$, made up of molecules of carbon (C), hydrogen (H), and oxygen (O).

Carbohydrates are the most widespread organic substances and play a vital role in all life.

carbohydrate | Definition, Classification, & Examples ...

cellulose of plants. The

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carbohydrates as the name implies are composed of carbon, hydrogen and oxygen with the latter. two element in the ratio of 2 to 1 as in water The empiric form ula for ...

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