

Macromolecules Study Guide

1,4-Dichlorobenzene The molecule consists of a benzene ring with two chlorine atoms (replacing hydrogen atoms) on opposing sites of the ring. poly(p-phenylene sulfide) growth from p-dichlorobenzene and sodium sulfide". This colorless solid has a strong odor. 24 (15): 4242. 24. Macromolecules. 4242F. doi:10. 1021/ma00015a003 **1,4-Dichlorobenzene** (1,4-DCB, p-DCB, or para-dichlorobenzene, sometimes abbreviated as PDCB or para) is an aryl chloride and isomer of dichlorobenzene with the formula C₆H₄Cl₂. Bibcode:1991MaMol d080f5ed0b

A tactic macromolecule in the IUPAC definition is a macromolecule in which essentially all the configurational (repeating) units are identical. In a hydrocarbon macromolecule with all... d080f5ed0b

Tacticity Monotactic macromolecules have one stereoisomeric atom per repeat unit,[not verified in body] ditactic to n-tactic macromolecules have more than one Tacticity (from Greek: τακτικός, romanized: taktikos, "relating to arrangement or order") is the relative stereochemistry of adjacent chiral centers within a macromolecule. The regularity of the macromolecular structure influences the degree to which it has rigid, crystalline long range order or flexible, amorphous long range disorder. unit. The practical significance of tacticity rests on the effects on the physical properties of the polymer. Precise knowledge of tacticity of a polymer also helps understanding at what temperature a polymer melts, how soluble it is in a solvent, as well as its mechanical properties d080f5ed0b

With comparison to traditional polymers, the composition of sequence... d080f5ed0b Crystallography is a broad topic, and many of its subareas, such as X-ray crystallography, are themselves important scientific topics. Crystallography ranges from the fundamentals of crystal structure to the mathematics of crystal geometry, including those that are not periodic or quasicrystals. At the atomic scale it can involve the use of X-ray diffraction to produce experimental... d080f5ed0b An emerging trend is the blurring of boundaries between the visualization of 3D structures at atomic resolution, the visualization of larger complexes by cryo-electron microscopy, and the visualization of the location of proteins and complexes within whole cells and tissues. There has also been an... d080f5ed0b

Biological data visualization The visualization of macromolecules is critical for an intricate understanding of the multifaceted structures Biological data visualization is a branch of bioinformatics concerned with the application of computer graphics, scientific visualization, and information visualization to different areas of the life sciences. motif, and exploring protein-protein interactions. Software tools used for visualizing biological data range from simple, standalone programs to complex, integrated systems. This includes visualization of sequences, genomes, alignments, phylogenies, macromolecular structures, systems biology, microscopy, and magnetic resonance imaging data d080f5ed0b

Aestivation during aestivation causes a reduction in macromolecule synthesis and degradation. It takes place during times of heat and dryness, which are often the summer

months. Aestivation is characterized by inactivity and a lowered metabolic rate, that is entered in response to high temperatures and arid conditions. To stabilise the macromolecules, aestivators will enhance antioxidant defenses Aestivation (Latin: aestas (summer); also spelled estivation in American English) is a state of animal dormancy, similar to hibernation, although taking place in the summer rather than the winter d080f5ed0b

Ultrafiltration This separation process is used in industry and research for purifying and concentrating macromolecular (103–106 Da) solutions, especially protein solutions. Suspended solids and solutes of high molecular weight are retained in the so-called retentate, while water and low molecular weight solutes pass through the membrane in the permeate (filtrate). or macromolecules form a fouling layer on the membrane surface, in UF this is also known as a gel layer Intermediate blocking: when macromolecules deposit Ultrafiltration (UF) is a variety of membrane filtration in which forces such as pressure or concentration gradients lead to a separation through a semipermeable membrane d080f5ed0b

Ultrafiltration is not fundamentally different from microfiltration. Both of these are separate based on size exclusion or particle capture. It is fundamentally different from membrane gas separation, which separate based on different amounts of absorption and different rates... d080f5ed0b

Sequence-controlled polymer With comparison A sequence-controlled polymer is a macromolecule, in which the sequence of monomers is controlled to some degree. This control can be absolute but not necessarily. In other words, a sequence-controlled polymer can be uniform (its dispersity $\bar{D}$ is equal to 1) or non-uniform ($\bar{D} > 1$). A biopolymer (for example a protein) with a perfectly defined primary structure is also a sequence-controlled polymer. However, in the case of uniform macromolecules, the term sequence-defined polymer can also be used. For example, an alternating copolymer synthesized by radical polymerization is a sequence-controlled polymer, even if it is also a non-uniform polymer, in which chains have different chain-lengths and slightly different compositions. However, in the case of uniform macromolecules, the term sequence-defined polymer can also be used. also a sequence-controlled polymer d080f5ed0b

Palmitoyl pentapeptide-4 extracellular matrix macromolecules, palmitoyl pentapeptide-4 provides an anti-wrinkle effect. [medical citation needed] Studies (in vitro and in vivo) Palmitoyl pentapeptide-4 (palmitoyl pentapeptide-3 before 2006) is a matrikine used in anti-wrinkle cosmetics. It was launched in 2000 as an active ingredient for the personal care industry under the trade name Matrixyl by the Spanish cosmetic active ingredient manufacturer Sederma SAS d080f5ed0b

Crystallography The word crystallography is derived from the Ancient Greek word κρύσταλλος (krústallos; "clear ice, rock-crystal"), and γράφειν (gráphein; "to write"). In July 2012, the United Nations recognised the importance of the science of crystallography by proclaiming 2014 the International Year of Crystallography. The first crystal structure of a macromolecule was solved in Crystallography is the branch of science devoted to the study of molecular and crystalline structure and properties. of biological macromolecules, particularly protein and nucleic acids such as DNA and RNA d080f5ed0b

Chemical modification Iodoacetamide Iodoacetic Chemical modification refers to a number of various processes involving the alteration of the chemical constitution or structure of molecules. for an enzymatic activity; introduce new groups into a macromolecule; and crosslink macromolecules intra- and intermolecularly d080f5ed0b

Invertebrate and vertebrate animals are known to enter this state to avoid damage from high temperatures and the risk of desiccation. Both terrestrial and aquatic animals undergo aestivation. Fossil records suggest that aestivation may have evolved several hundred million years ago. It is used as a disinfectant, pesticide, and deodorant, most familiarly in mothballs in which it is a replacement for the more traditional naphthalene because of naphthalene's greater flammability (though both chemicals have the same NFPA 704 rating). It is also used as a precursor in the production of the chemically and thermally resistant polymer poly(p-phenylene sulfide).

Wolfiporia extensa ISSN 0141-8130. PMID 24751506 *Wolfiporia extensa* (syn. 010. It is a wood-decay fungus but has a subterranean growth habit. *Poria cocos* and their derivatives". 1016/j. doi:10. Wolf), commonly known as hoelen, poria, tuckahoe, China root, fu ling (茯苓, pīnyīn: fúlíng), or matsuhodo, is a species of fungus in the family Polyporaceae. 04. *Poria cocos* F. International Journal of Biological Macromolecules. A. It notably develops a large, long-lasting underground sclerotium resembling a small coconut. 68: 131-134. 2014

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