

Macromolecules are individual large polymer molecules.

A functional group is a chemically reactive atom or group of atoms that imparts characteristic properties to organic compounds containing that group.

For example : The carbonyl group >C=O is the functional group for ketones.

Free radicals are very reactive atoms or molecules which have unpaired electrons.

Example Hydrogen peroxide H_2O_2



The bond between the two oxygen atoms breaks first as it is not as stable as the bond between the O-H atoms.

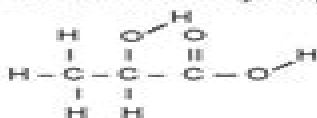
Poly(lactic acid) PLA

Condensation (esterification) of lactic acid to form **lactide**.

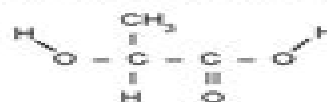
Direct or self-polymerization is not a good option as too many water molecules are liberated.

Lactic acid is 2-hydroxypropanoic acid

Lactose is the predominant sugar in milk and enzymes turn it into lactic acid.



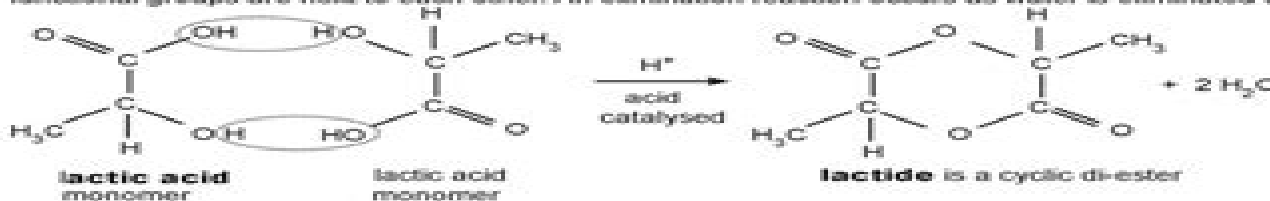
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When a chain of lactic acid undergoes self-polymerisation, too much water is produced by the esterification (elimination) reactions.



It is far more efficient to place two monomers next to each other with one upside down so that the carboxylic and hydroxy functional groups are next to each other. An elimination reaction occurs as water is eliminated to produce lactide.



A self-esterification process.

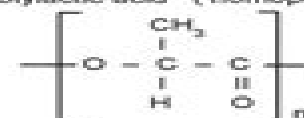
Then remove the lactide ring from the water so that there is no water present when the **lactide ring** is cut and opened to produce a **water-free dimer** of two identical monomers that can be polymerised.



This is **ring opening polymerisation**

Polymerisation of this dimer takes place when identical repeating units of these dimers bond together to form a chain

uniformly repetitive
poly(lactic acid) (homopolymer)



No initiator is needed. The reaction is slower because two steps are needed. Lactide must first form and then be polymerised. No double bonds are needed as the acid and alcohol functional groups react by eliminating water.

Holt Chemistry Carbon And Organic Compounds Answers

LM Reder

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Holt Chemistry Carbon And Organic Compounds Answers:

Holt Chemistry Ralph Thomas Myers, 2004 **Organic Chemistry Concepts** Gregory Roos, Cathryn Roos, 2014-10-15

Organic Chemistry Concepts An EFL Approach provides an introductory overview of the subject to enable the reader to understand many critical experimental facts. Designed to cover a single semester course or a needed review on the principles of Organic Chemistry, the book is written and organized for readers whose first language is not English. Approximately 80% of the words used are drawn from the list of the 2 000 most common English words; the remaining 20% includes necessary technical words, common chemistry terms, and well known academic words per the Academic Word List. The book has been class tested internationally as well as with native English speakers and differs from other introductory textbooks in the subject both in its coverage and organization with a particular focus on common problem areas. Focused on a limited number of functional classes, **Organic Chemistry Concepts An EFL Approach** introduces those organic compounds early in the book. Once readers have a foundation of the concepts and language of organic chemistry, they can build from that knowledge and work with relatively complex molecules such as some natural product types covered in a later chapter. The book describes basic level reaction mechanisms with instructive and illustrations throughout to emphasize the 3D nature of organic chemistry. The book includes multiple pedagogical features such as chapter questions and useful appendices to support reader comprehension. Covers all primary concepts in accessible language and pedagogical features, worked examples, glossary, chapter questions, illustrations, and useful summaries. Builds a foundation of key material through a structured framework from which readers can expand their understanding. Contains class tested content written in a straightforward and accessible manner for non native English speakers.

Manual of Chemistry William Simon, 1884 **The Handy Science Answer Book**, 2011-04-01

Presenting a fun and educational way to explore the wonders of the world of science, this newly updated edition poses and answers 2 200 questions providing an abundance of original and interesting science facts. Children and adults will uncover some of the most interesting, unusual, and quirky science curiosities such as: Are cell phones dangerous to your health? Is the same strain of yeast used to make different types of beer? What is the cleanest fossil fuel? What is the largest invertebrate? Readers will find this informative and enjoyable resource is chock full of hundreds of intriguing science and technology topics from the inner workings of the human body and outer space to math, computers, planes, trains, and automobiles.

Holt Physical Science William L. Ramsey, 1997-11 *The Sunnyside*, 1928 **Physical Problems and Their Solutions** Anatole Alexandre Bourgoignon, 1897 **Modern Electrosynthetic Methods in Organic Chemistry** Frank Marken, Mahito Atobe, 2018-10-11

Modern Electrosynthetic Methods in Organic Chemistry introduces readers to new ways of making materials and compounds using low waste processes employing energy from electricity rather than chemical reagents. It explores electro organic synthesis which offers clean synthesis tools as well as unusual reaction intermediates and reaction types. Despite applications previously remaining niche due to the advent of microfluidic reactors,

this book is a must read for industry professionals and academics alike It targets specific areas of recent progress and development in the field that show high novelty and potential at the same time inviting a wider range of applications in green and clean technology Key Features Offers clean synthesis tools Targets areas of recent progress and development Addresses the most recent advances in the field **Modern Methods of Teaching Chemistry** D D Agarwal,2004 **Organic Chemistry Fundamentals Study Guide** Speedy Publishing,2014-11-26 In order to fully understand any subject the fundamentals must be understood and kept in the back of the mind Organic Chemistry is one of the most difficult subjects a college student can take especially if they are not a Chemistry major A lot goes into the fundamentals of the subject That is why an Organic Chemistry Fundamentals book can be so helpful to a student When studying the material if the student discovers they do not understand something they can reference the book and continue with studying in no time at all Having a reference book is the key to success in an Organic Chemistry class

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