

Experiment 7

Preparation of Aspirin

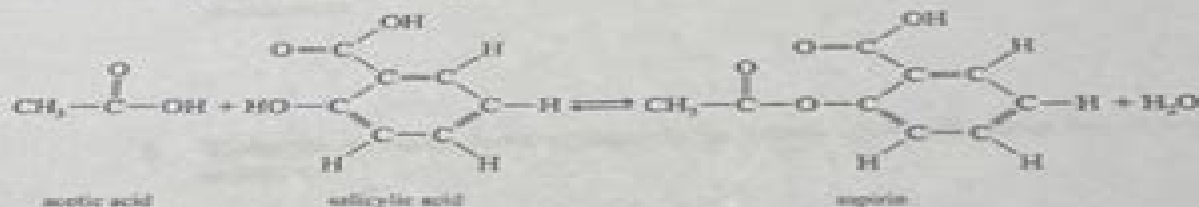
One of the simpler organic reactions that one can carry out is the formation of an ester from an acid and an alcohol:



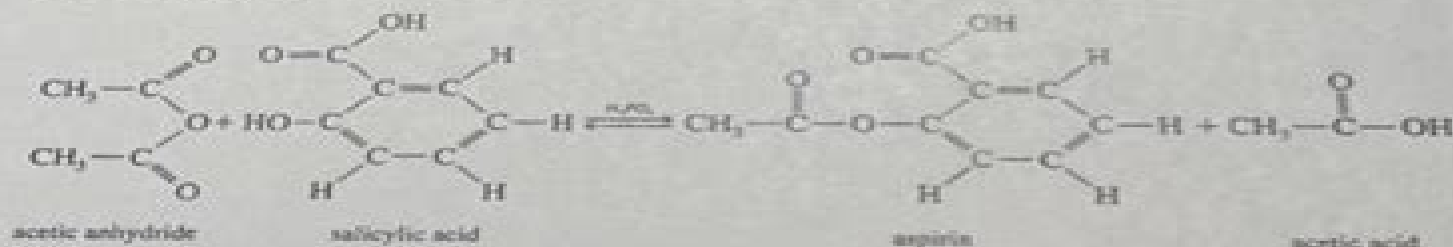
In the equation, R and R' are H atoms or organic fragments like CH₃, C₂H₅, or more complex aromatic groups. There are many esters, because there are many organic acids and alcohols, but they all can be formed, in principle at least, by Reaction 1. The driving force for the reaction is, in general, not very great, so that one ends up with an equilibrium mixture of ester, water, and acid, and alcohol.

There are some esters that are solids because of their high molecular weight or other properties. Most of these esters are not soluble in water, so they can be separated from the mixture by crystallization. This experiment deals with an ester of this sort, the substance commonly called aspirin. Aspirin is the active component in headache pills and is one of the most effective, relatively nontoxic, pain killers.

Aspirin can be made by the reaction of the —OH group in the salicylic acid molecule with the carboxyl (—COOH) group in acetic acid:



A better preparative method, which we will use in this experiment, employs acetic anhydride in the reaction instead of acetic acid. The anhydride can be considered to be the product of a reaction in which two acetic acid molecules combine, with the elimination of a molecule of water. The anhydride will react with the water produced in the esterification reaction and will tend to drive the reaction to the right. A catalyst, normally sulfuric or phosphoric acid, is also used to speed up the reaction.



Advance Study Assignment Preparation Of Aspirin Answers

M Lipman



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Table of Contents Advance Study Assignment Preparation Of Aspirin Answers

1. Understanding the eBook Advance Study Assignment Preparation Of Aspirin Answers
 - The Rise of Digital Reading Advance Study Assignment Preparation Of Aspirin Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Advance Study Assignment Preparation Of Aspirin Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Advance Study Assignment Preparation Of Aspirin Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Advance Study Assignment Preparation Of Aspirin Answers
 - Personalized Recommendations
 - Advance Study Assignment Preparation Of Aspirin Answers User Reviews and Ratings
 - Advance Study Assignment Preparation Of Aspirin Answers and Bestseller Lists
5. Accessing Advance Study Assignment Preparation Of Aspirin Answers Free and Paid eBooks
 - Advance Study Assignment Preparation Of Aspirin Answers Public Domain eBooks
 - Advance Study Assignment Preparation Of Aspirin Answers eBook Subscription Services

- Advance Study Assignment Preparation Of Aspirin Answers Budget-Friendly Options
- 6. Navigating Advance Study Assignment Preparation Of Aspirin Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Advance Study Assignment Preparation Of Aspirin Answers Compatibility with Devices
 - Advance Study Assignment Preparation Of Aspirin Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advance Study Assignment Preparation Of Aspirin Answers
 - Highlighting and Note-Taking Advance Study Assignment Preparation Of Aspirin Answers
 - Interactive Elements Advance Study Assignment Preparation Of Aspirin Answers
- 8. Staying Engaged with Advance Study Assignment Preparation Of Aspirin Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advance Study Assignment Preparation Of Aspirin Answers
- 9. Balancing eBooks and Physical Books Advance Study Assignment Preparation Of Aspirin Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advance Study Assignment Preparation Of Aspirin Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Advance Study Assignment Preparation Of Aspirin Answers
 - Setting Reading Goals Advance Study Assignment Preparation Of Aspirin Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Advance Study Assignment Preparation Of Aspirin Answers
 - Fact-Checking eBook Content of Advance Study Assignment Preparation Of Aspirin Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web to find the volume of a regular pentagonal prism first you have to find the apothem length a the apothem length is a measure from the centre of a polygon to the midpoint of any side the formula to find the volume of a pentagonal prism is given as volume of pentagonal prism $\frac{5}{2} a b h$ cubic units where