

SPM Chemistry (Form 5) - Chapter 5: Chemicals for Consumers (Worksheet 01)

Soaps

1. Cleansing agents are chemical substances used to remove **grease** and dirt.
2. There are two types of cleansing agents:
 - a. **Soaps**
 - b. **Detergents**
3. In ancient times, soaps were made from ashes of plants which contain **sodium** carbonate and **potassium** carbonate.
4. The ashes were boiled with lime (calcium oxide) to produce caustic **potash** (potassium hydroxide). Caustic potash is then boiled with animal **fats** to produce soap.
5. In 1816, the French chemist **Michel Chevreul** 米歇尔-谢弗勒尔 (1786 – 1889) discovered that animal fats are composed of **fatty acids** and **glycerol**. This discovery contributed to the rapid development of the soap and candle industry.
6. In 1861, the Belgian chemist **Ernest Solvay** 欧内特斯-索尔维 (1838–1922) discovered the process to make soda (sodium carbonate) from common salt (sodium chloride) and calcium carbonate. This process is known as the **Solvay** Process which produces sodium carbonate which is used for making glass, soaps and detergents.
7. Soaps are sodium or potassium **salts** of long chain fatty acids with **12** to **18** carbon atoms per molecule. The general formula of soap is **RCOO^-Na^+** or **RCOO^-K^+** .
8. Soap is produced by the reaction between sodium hydroxide or potassium hydroxide with animal **fats** or vegetable **oils**. This reaction is known as **saponification**. **Saponification** is the alkaline hydrolysis of esters using alkali solutions.
9. Fats and vegetable oils are large, naturally occurring **ester** molecules. When fats or oils are boiled with concentrated alkalis, such as sodium hydroxide or potassium hydroxide, **saponification** occurs and the ester molecules are broken down into **soap** and **glycerol**.
10. The soap produced can be precipitated by adding common salt to the reaction mixture. **Sodium chloride** reduces the solubility of soap in aqueous solution and causes the soap to be precipitated out.
11. The properties of soap depend on:
 - a. the type of **alkali** used for saponification,
 - o Soaps produced from sodium hydroxide are **hard** whereas soaps produced from potassium hydroxide are **soft**.
 - b. the type of **animal fats** or **vegetable oils** used.
 - o Animal fats (**tallow**) from cows and **vegetable** oils (such as palm oil or olive oil) are used for making soap.
12. When a sodium soap is dissolved in water, it will dissociate and produce **sodium** ions and **carboxylate** ions (RCOO^-). For example, **sodium stearate** (soap) dissolves in water to form **sodium** ions and **stearate** ions.
13. The **stearate** ions take part in the removal of dirt but the **sodium** ions do not.
 - a. The stearate ion consists of **two** parts: the '**head**' and the '**tail**'. The '**head**' is **negatively**-charged and the '**tail**' is a long **hydrocarbon** chain.
 - b. The '**head**' contains the $-\text{COO}^-$ ion which dissolves readily in water (**hydrophilic**) but does not dissolve in oil.
 - c. Conversely, the '**tail**' contains a long hydrocarbon chain which is insoluble in water (**hydrophobic**) but dissolves readily in oil.
14. Soaps made from palmitic acid are known as **sodium palmitate**.

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Table of Contents Bernanke Answers Chapter 5

1. Understanding the eBook Bernanke Answers Chapter 5
 - The Rise of Digital Reading Bernanke Answers Chapter 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Bernanke Answers Chapter 5
 - 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 Bernanke Answers Chapter 5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bernanke Answers Chapter 5
 - Personalized Recommendations
 - Bernanke Answers Chapter 5 User Reviews and Ratings

- Bernanke Answers Chapter 5 and Bestseller Lists
- 5. Accessing Bernanke Answers Chapter 5 Free and Paid eBooks
 - Bernanke Answers Chapter 5 Public Domain eBooks
 - Bernanke Answers Chapter 5 eBook Subscription Services
 - Bernanke Answers Chapter 5 Budget-Friendly Options
- 6. Navigating Bernanke Answers Chapter 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Bernanke Answers Chapter 5 Compatibility with Devices
 - Bernanke Answers Chapter 5 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bernanke Answers Chapter 5
 - Highlighting and Note-Taking Bernanke Answers Chapter 5
 - Interactive Elements Bernanke Answers Chapter 5
- 8. Staying Engaged with Bernanke Answers Chapter 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bernanke Answers Chapter 5
- 9. Balancing eBooks and Physical Books Bernanke Answers Chapter 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bernanke Answers Chapter 5
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bernanke Answers Chapter 5
 - Setting Reading Goals Bernanke Answers Chapter 5
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bernanke Answers Chapter 5
 - Fact-Checking eBook Content of Bernanke Answers Chapter 5
 - 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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