



Miscible and Immiscible Liquids

A. Choose the Correct Answer:

1. What are miscible liquids?

- A) Liquids that do not mix with each other
- B) Liquids that completely mix to form a single layer
- C) Liquids that turn into solids
- D) Liquids that evaporate quickly

2. Which of the following is an example of miscible liquids?

- A) Water and oil
- B) Water and honey
- C) Water and vinegar
- D) Oil and kerosene

3. What happens when immiscible liquids are mixed?

- A) They form a single layer
- B) They completely dissolve in each other
- C) They form separate layers
- D) They evaporate immediately

B. Fill in the Blanks:

1. Liquids that mix completely with each other are called _____ liquids.
2. Water and oil are examples of _____ liquids.
3. When two immiscible liquids are mixed, they form _____ layers.

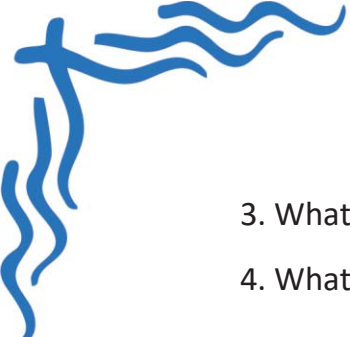
C. Case Study:

Ananya performed an experiment with different liquids.

- She mixed water and vinegar in one beaker. The liquids mixed completely, forming a single layer.
- In another beaker, she mixed water and oil. The oil floated on top, creating two separate layers.
- Her teacher explained that the first pair of liquids were miscible, while the second pair were immiscible.

Case Study Questions:

1. Which pair of liquids were miscible in Ananya's experiment?
2. Why did the oil float on top of the water?

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3. What happens when two immiscible liquids are mixed?
 4. What term is used for liquids that form a single layer when mixed?

D. Short Answer Questions:

1. What are miscible liquids? Give an example.
2. What are immiscible liquids? Give an example.
3. Why do immiscible liquids form separate layers?

E. Long Answer Questions:

1. Explain the difference between miscible and immiscible liquids with examples.
 2. Why do some liquids mix completely while others do not? Describe the factors affecting liquid mixing.
 3. How can you separate two immiscible liquids? Explain the process in detail.
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