

Experiment 3.4 Boiling Point Post Lab Questions

1. Define boiling point.
2. What was the boiling point for Liquid A? For Liquid B?
3. What do you think Liquid A was? What do you think liquid B was? Look them up if you do not know.
4. Compare and contrast the graphs for Liquid A and Liquid B.
5. Was the temperature the same in both liquids once they started boiling?
6. Does the boiling point of a liquid depend on the amount of liquid?
7. Is boiling point a characteristic property (a property that lets you identify the substance?)
8. Explain what was happening when the liquid was boiling in terms of energy and particle movement
9. Explain why there was water in the test tube that was placed in the beaker of cold water.
10. Suppose we placed a test tube full of ice over a burner and heated it. DRAW a graph that shows what would happen to the ice over time. Make sure to label the graph.

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1. Define boiling point.
2. Compare and contrast the graphs for Liquid A and Liquid B.
3. Was the temperature the same in both liquids once the water started boiling?
4. Does the boiling point of a liquid depend on the amount of liquid?
5. Is boiling point a characteristic property?
6. Explain why there was water in the test tube that was placed in the beaker of cold water.
7. Suppose we placed the hot test tube in a freezer until the water froze. DRAW a graph that would show what would happen to the temperature of the water over time.
8. Suppose we placed 10 grams of salt into a test tube half full with water, what do you think would happen to the boiling point of the salt water?