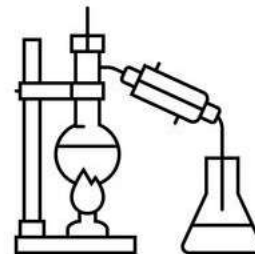


Name _____ Date _____



DISTILLATION QUIZ

1. What is distillation?

2. During distillation, the pure liquid that's collected after vaporizing and condensing the mixture being separated is called _____.

3. Simple distillation can either be used to separate a dissolved _____ from its solvent or a mixture of two _____ liquids with different _____.

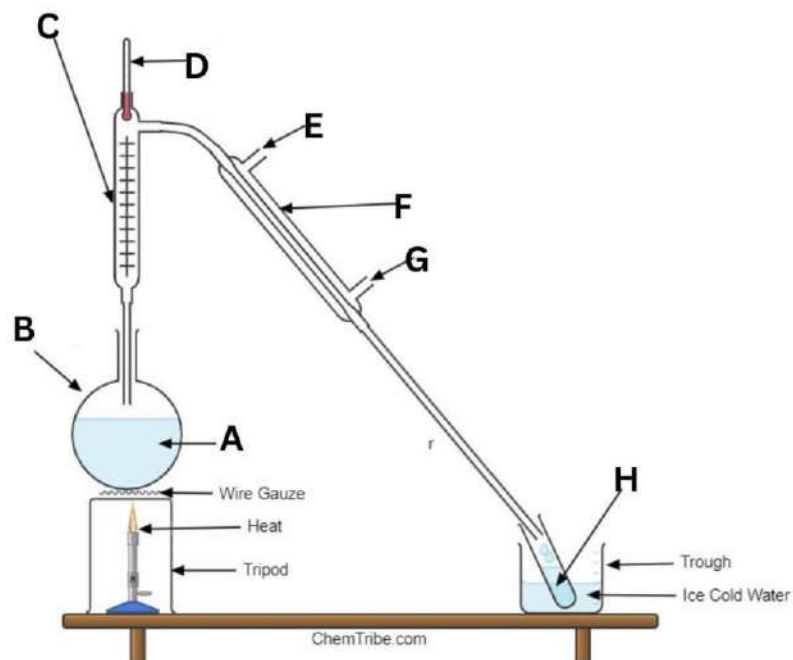
4. State two benefits of using a Liebig condenser instead of a normal delivery tube in a distillation process.

5. What's the difference between simple distillation and fractional distillation?

6. State two uses of distillation in real life.

-
-
7. The figure below shows a fractional distillation step-up. Use it to answer the questions below:

**Unlabeled
Fractional
Distillation
Diagram**



- a. Identify the apparatus labeled:

B:

D:

F:

- b. What is the roles of the apparatus labelled:

C:

D:

F:

c. Why are glass beads added to the apparatus labeled C?

d. Why are boiling stones sometimes added to the mixture labeled A?

e. Why is it always recommended to have water inlet at point G instead of E?

f. What happens when the flow of water between points G and E is reversed?

g. During the separation of an ethanol and water mixture, a chemist proposed that the efficiency of separation could be improved by increasing the length of apparatus C. Is it true? Explain

h. State two limitations of fractional distillation as a separation method in chemistry.
