

Separation Techniques Test Yourself

Distillation

The apparatus below shows the apparatus to carry out distillation.

Using numbers 1-5, arrange the following steps in the correct order to explain how distillation works.

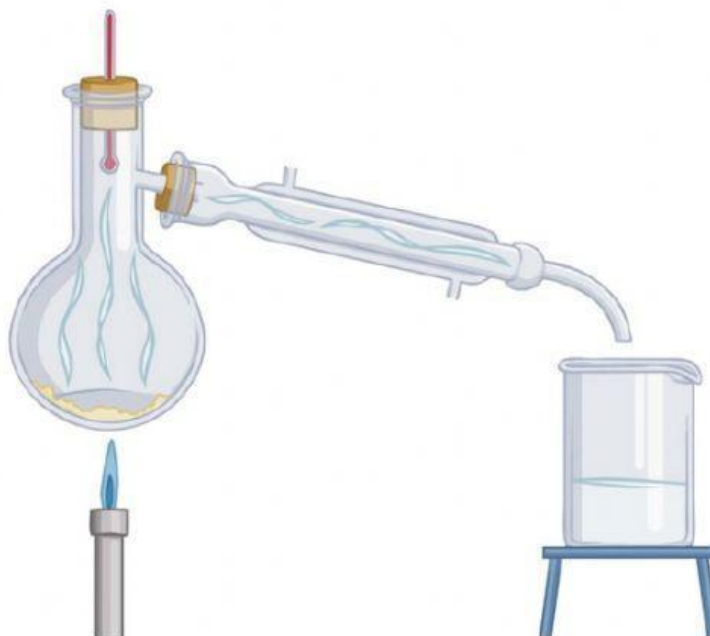
The water starts to boil and steam is produced.

The pure water drips into the conical flask.

The salt water is heated.

The steam travels through the condenser.

As the steam travels along the condenser it cools down and forms a liquid.



True or False?

State whether the following statements are true or false.

- Chromatography uses an absorbent material to separate the components of a mixture.
- When a substance dissolves, it is correct to say it disappears.
- Sublimation is the transition of a solid directly into gas, without passing through the liquid state.
- Filtration will separate a soluble and insoluble substance.
- Water is the only solvent.

Solubility

Write a sentence to explain how temperature affects solubility.