

DISTILLATION

Distillation is a separation technique used to separate mixtures where: two different liquids need to be kept; OR when a soluble substance needs to be separated from the solvent and both solute and solvent is saved. The mixture is separated because the substances in it have different boiling points. In this experiment we will separate some ink from water.

Method

1. Set up the equipment as shown in the diagram opposite.
2. Half fill the small inner container with ink and add 1 or 2 anti bump granules.
3. Half fill the large outer container with silicone oil so the oil comes no higher than the bottom of the inner vessel when attached. Add a few anti bump granules.
4. Attach both containers to the plastic head which is attached to the stand.
5. Fill the distillation tube with glass beads and attach this and the thermometer to the head.
6. Place a full microburner in the large well directly below the still and light the wick.
7. Heat the large container using the microburner - adjust the height of the still on the stand as needed.
8. Continue to heat until no more clear liquid comes over into the watchglass
Always keep the microburner in the large well when lit.

