

Separation Techniques

Chemists use many different methods for separating mixtures of chemicals. Often the methods exploit a property of the chemicals that allows the mixture to be separated.

- Property Exploited:

1.) Magnetism - magnet for magnetic metals (5 metals) -

2.) Size - two methods

a.) Sieve -

b.) Filtration -

3.) Solubility - two methods

a.) Solvent Extraction -

1.)

2.)

3.)

b.) Recrystallization -

1.) Pour mixture into an Erlenmeyer flask.

2.)

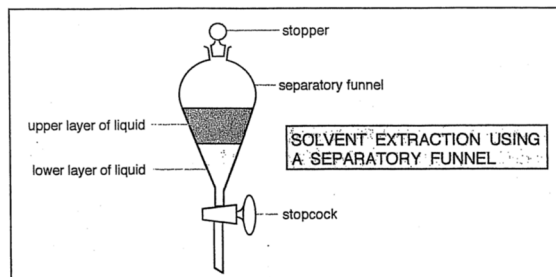
3.)

4.)

5.)

6.)

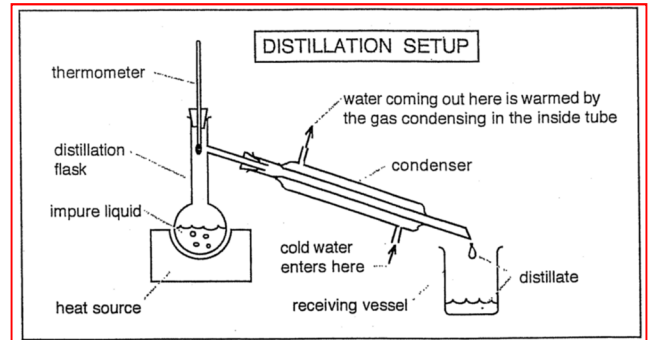
7.)



4.) Boiling Point - two methods

a.) Evaporation -

b.) Distillation -



5.) Density - two methods

a.) Panning -

b.) Centrifuge -

6.) Affinity - two methods

a.) Thin-layer chromatography -

b.) Paper chromatography -