

What is the difference between distillation, distillation under reduced pressure and steam distillation?

SOLUTION

Distillation is used in the case of volatile liquids with non-volatile impurities.

Distillation under reduced pressure is used to purify liquids which decompose at their boiling point temperature.

Steam distillation is used for steam volatile liquids associated with water immiscible impurities.

Explain the principle of paper chromatography.

Ans) In paper chromatography, chromatography paper is used which contains water trapped in it which is the stationary phase. On the base of the paper, a solution (containing the mixture to be separated) is spotted. The paper strip is suspended in suitable solvent which is mobile phase. The solvent rises to the top of the paper by capillary action. During this, it flows over the spot. The components are selectively retained on the paper. The spots of different components travel with the mobile phase to different heights. The developed paper is called chromatogram.