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SCIENCE LABORATORIES

LABORATORY TECHNIQUES



Guess which laboratory technique the descriptions below refer to, choosing among the following: chromatography, distillation, filtration, gravimetric analysis, Infra-Red spectroscopy, titration, volumetric analysis.

- c. This technique is commonly carried out to separate a solid from a liquid. If the solid is to be discarded (such as in the removal of insoluble impurities), it is done by gravity. If the solid is to be collected, it is done under a reduced pressure using a Buchner Funnel and Buchner Flask.
- d. This technique can be used to identify functional groups. A sample of reaction product can be analyzed to confirm its composition by comparison to a pure sample, or to judge the extent of reaction by comparison with the starting material.
- e. This analysis uses the reaction between a solution of known concentration with a solution of unknown concentration. The most common reactions are between acids and bases. A standard solution is a solution of known concentration prepared from a primary standard that is weighed accurately and made up to a fixed volume.
- g. This analysis is a branch of analytical chemistry where precipitates are accurately weighed as a means to determine concentrations.