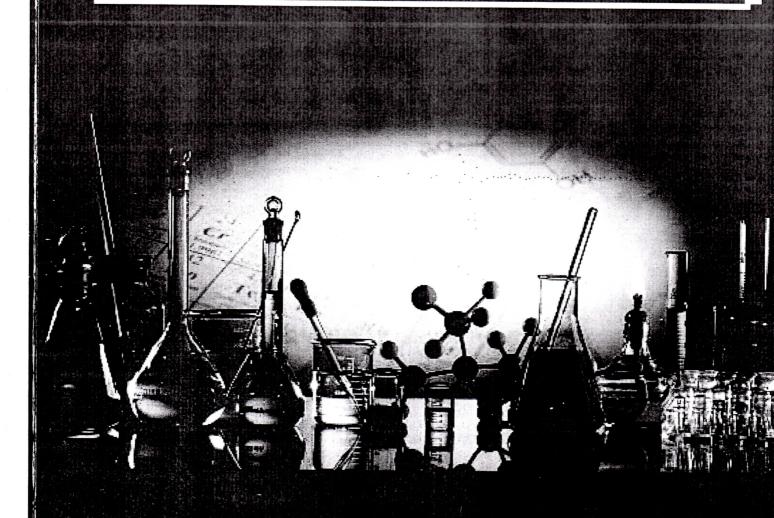
VOLUMETRIC ANALYSIS A ROAD MAP



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Avinashilingam Institute for Home Science and Higher Education for Wome

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The chapter

INTRODUCTON

Students performing practical work in a chemistry laboratory must follow the guidelines given below

General Instructions and Laboratory safety

- 1. Wear cotton clothes and slippers when entering the laboratory; long hair must be put up
- 2. Use safety goggles and gloves while working
- 3. Work carefully with laboratory equipment, glassware and devices
- 4. Check for any crack or break in the apparatus while receiving from laboratory assistant immediately
- 5. Check for leakages if any in burette stopcock and standard measuring flasks
- 6. Report to laboratory assistant if any glass wares is broken and get it replaced
- 7. If any defect in gas supply, water supply or electricity system is noticed, report to laboratory assistant immediately
- 8. Close gas valves immediately after use if you notice any gas leakage don't switch on any other devices, which can induce flame or sparks
- 9. Switch off electrical devices and close the gas and water tap before leaving the laboratory
- 10. After completing the experiments clean all the apparatus used and wash hands thoroughly with soap water
- 11. Do not eat food in the laboratory

Handling of Chemicals

- 1. Avoid contact of skin with chemicals because most of them are toxic and corrosive
- 2. Do not taste any substance to identify it
- 3. If it is required to smell a reagent open the container/reagent bottle and smell the lid/cap cap only. (For reagents like ammonium hydroxide and ammonia solution)
- 4. Do not smell toxic reagents and corrosive acids
- 5. Smell volatile substance by warding the air towards yourself by wavering motion of hand
- 6. Reagents must be replaced in the respective shelves with the lid intact
- 7. For transferring substances from the reagent bottle, use a clean spatula or glass rod to avoid contamination
- 8. Used reagents or excess substances should be handed over to the laboratory assistant
- 9. For diluting sulphuric acid, add measured amount of concentrated acid to water
- 10. The solutions in the test tubes must be mixed by shaking carefully.
- 11. Do not close the test tube with the thumb finger to shake
- 12. Strong acids must be collected separately and disposed separately