

Department of Chemistry

Chemistry Lab (CH-307)

B. Sc. 3rd Year

List of Experiments

Section –A (Inorganic)

Semi micro qualitative Analysis of the mixture containing not more than four radicals (including interfering, combinations and excluding insolubles):

Pb^{2+} , Hg^{2+} , Hg_2^{2+} , Ag^+ , Cu^{2+} , Cd^{2+} , As^{3+} , Sb^{3+} , Sn^{2+} , Fe^{3+} , Cr^{3+} , Al^{3+} , Co^{2+} , Ni^{2+} , Mn^{2+} , Zn^{2+} , Ba^{2+} , Sr^{2+} , Ca^{2+} , Mg^{2+} , NH_4^+ , CO_3^{2-} , S^{2-} , SO_3^{2-} , $\text{S}_2\text{O}_3^{2-}$, NO_2^- , CH_3COO^- , Cl^- , Br^- , I^- , NO_3^- , SO_4^{2-} , $\text{C}_2\text{O}_4^{2-}$, PO_4^{3-} , BO_3^{3-} .

Section– B (Physical)

1. To determine the strength of the given acid solution (mono & dibasic acid) conductometrically.
2. To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically.
3. To determine the strength of a given acid solution (mono & dibasic acid)/ KMnO_4 —Mohr salt potentiometrically.
4. To determine the molecular weight of a non-volatile solute by Rast method.
5. To standardize the given acid solution (mono & dibasic acid) pH metrically.



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