

Govind Guru University
B.Sc.Semester IV
Chemistry Practical-206
[Inorganic & Analytical Practical]

[A] [A] Inorganic Mixture

Semi micro method of analysis of inorganic mixture containing four radicals (excluding phosphate, arsenite, arsenate and borate)

Minimum eight mixtures should be performed.

Only water soluble mixture.

[B] Volumetric and Gravimetric Analysis:

Volumetric Analysis :

- (a) Hardness of Water , Ca & Mg (Total Hardness) by EDTA
- (b) Estimation of Ni by using EDTA , $MgCl_2$ and Eriochrome Black – T (Back Titration)
- (c) Determine the concentration of Cu^{2+} in the given solution by Colourimetry.

Gravimetric Analysis :

- (a) Fe as Fe_2O_3
- (b) Ba as $BaSO_4$
- (c) Al as Al_2O_3

REFERENCES

1. Vogel's "*Textbook of Quantitative chemical Analysis*", Pearson Education Ltd. Sixth Edition, 2008.
2. Vogel's "*Qualitative Inorganic Analysis*", Pearson Education Ltd. Seventh Edition, 2009.
3. Gurdeep Raj, "*Advanced Inorganic Chemistry*", Goel Publishing House, Meerut, Volume –I, 24th Revised Edition, 1998.
4. John H. Kennedy, "*Analytical Chemistry : Practice*", Saunders College Publishing, New York, Second Edition, 1990.
5. R.A.Day, A.L.Underwood, "*Quantitative Analysis*", Prentice-Hall of India Pvt.Ltd., New Delhi, Sixth Edition, 2004.
6. Gary D. Christian, "*Analytical Chemistry*", John Wiley & Sons, INC, New York, Fifth Edition, 1994.