

QUALITATIVE ANALYSIS of GROUP III CATIONS

The four group III cations are Cr^{3+} , Al^{3+} , Fe^{3+} , and Ni^{2+} . The first step in analysis involves separating the ions into two subgroups by treating the solution with NaOH and NaOCl . The hypochlorite ion oxidizes Cr(III) to a higher, more stable oxidation state (namely Cr(VI)) which is soluble:



In addition, Al^{3+} forms a soluble hydroxo-complex ion in the presence of excess hydroxide:



In contrast, Ni^{2+} and Fe^{3+} do not readily form hydroxo-complexes and are not oxidized by hypochlorite. They form insoluble hydroxides under these conditions:



To separate aluminum from chromium, the solution containing CrO_4^{2-} and Al(OH)_4^{-} is acidified to destroy the hydroxo-complex:



Treatment with aqueous ammonia gives a gelatinous **white** precipitate of aluminum hydroxide. The concentration of hydroxide in ammonia is too low to form the hydroxo-complex:



The chromate ion remains in solution. It can be tested and confirmed by precipitation as yellow BaCrO_4 :



The BaCrO_4 precipitate dissolves in acid. The solution is then treated with H_2O_2 to produce a **deep blue** color due to the presence of a peroxo-compound, probably CrO_5 :



The mixed precipitate of Ni(OH)_2 and Fe(OH)_3 can be dissolved by adding a strong acid. The Ni^{2+} and Fe^{3+} ions can be separated by adding ammonia. Ni^{2+} is converted to the deep-blue complex $\text{Ni(NH}_3)_6^{2+}$ which stays in solution. The Fe^{3+} ion does not readily form a complex and re-precipitates as Fe(OH)_3 :



Confirm the presence of Ni^{2+} by adding dimethylglyoxime (DMG), $\text{C}_4\text{H}_8\text{N}_2\text{O}_2$, to give a **deep rose** precipitate:



Confirm the presence of Fe^{3+} by dissolving Fe(OH)_3 in a strong acid and adding KSCN to form a **blood-red** FeSCN^{2+} complex ion:



Qualitative Analysis Of Group Iii Cations

Charles Joseph Brockman



Qualitative Analysis Of Group Iii Cations:

Advanced Experimental Inorganic Chemistry V.K. Ahluwalia, Sunita Dhingra, 2024-08-02 This book is divided into four parts Part I deals with Qualitative Inorganic Analysis Systematic procedures of anion and cation analysis alongwith their confirmatory tests and spot tests are given Detection of cations by flame photometry and atomic absorption spectroscopy are also incorporated Besides chromatographic separation and identification of cations are also discussed Part II deals with volumetric analysis The instrumental methods of volumetric analysis have also been incorporated Part III deals with gravimetric analysis Estimation of one or more than one constituent in a solution and instrumental methods of quantitative analysis are also incorporated Part IV describes many inorganic preparations These include simple salts double salts complex salts amalgams activated metals organometallics and some other miscellaneous inorganic preparations The uses of various compounds have also been mentioned Print edition not for sale in South Asia India Sri Lanka Nepal Bangladesh Pakistan or Bhutan

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 - Chapter 1: Introduction to Qualitative Analysis Of Group Iii Cations
 - Chapter 2: Essential Elements of Qualitative Analysis Of Group Iii Cations
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 - Chapter 5: Conclusion
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