



A Systematic Qualitative Chemical Analysis; A Theoretical and Practical Study of Analytical Reactions of the More Common Ions of Inorganic Substances (Paperback)

By George Wallace Sears

Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1922 Excerpt: .(see Introduction 16). In the presence of excess NaOH, therefore, they form the soluble sodium salts NaAlO₂, NaCrO₂ and Na₂ZnO₂. Na₂O₂ oxidizes the NaCrO₃ to the more readily soluble Na₂CrO₄, but is without effect on NaAlO₂ or Na₂ZnO₂. Why? Experiment 19.--Acidify the solutions of aluminium, chromium and zinc (Exp. 18) with HNO₃ and add NH₄OH to alkaline reaction. Note the precipitation of Al(OH)₃. (Difference, separation of Al.) Write equations. Note.--The action of Na₂O₂ in Exp. 18 oxidized the chromium to the more soluble chromate, a compound which does not possess amphoteric properties; hence on the addition of HNO₃ it does not react as a base to form a chromium salt. On the other hand, the aluminium and ++ zinc return to the positive radical as Al⁺ and Zn⁺⁺ which react with the NH₄OH subsequently added, as outlined in Exp. 17. Experiment 19a.-- Filter off the...



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