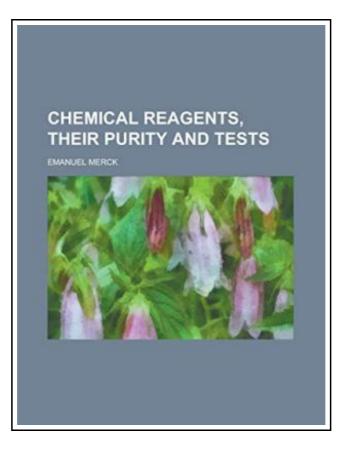
Chemical Reagents, Their Purity and Tests (Paperback)



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Reviews

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CHEMICAL REAGENTS, THEIR PURITY AND TESTS (PAPERBACK)



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Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1914 edition. Excerpt: .hydrogen sulphide water. (Indicating none present.) Quantitative Determination .-- Dissolve 1 gm. of powdered iron in about 50 c.c. of dilute sulphuric acid, and dilute the solution to 100 c.c. To 10 c.c. of this solution add decinormal potassium permanganate solution until the liquid has a slight red color, and, after destroying the red color by the addition of tartaric acid solution, add 2 gm. of potassium iodide. Allow the mixture to stand two hours in a closed flask at room temperature, and then titrate with decinormal solution of sodium thiosulphate with starch solution as indicator. At least 17.5 c.c. should be required to combine with the liberated iodine. 1 c.c. of decinormal Na2S3O3 = 0.005584 gm. of Fe, log. 74695. IRON CHLORIDE, FERRIC FeCl3+6H2O. Mol. Wt. 270.31 Yellow, crystalline masses, very deliquescent in air. Ferric chloride is easily soluble in water, alcohol, and a mixture of alcohol and ether. The solutions are acid to litmus paper. TESTS OF PURITY Basic Salt and Other Matter Difficultly Soluble in Water.--10 gm. of ferric chloride should completely dissolve in 10 c.c. of water, and yield a perfectly clear solution. (Indicating none present.) Hydrochloric Acid and Chlorine.--On boiling 10 c.c. of a solution (1: 1) of ferric chloride for 2 or 3 minutes in a test-tube capped with blue litmus paper, the paper should not be reddened. (Indicating less than 0.35 per cent HC1.) In a similar test employing zinc iodide-starch paper, the latter should not be turned blue....

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