

络合滴定法在有机药物分析中的应用 III.阿的平及其制剂的含量测定

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摘要:

关键词:

COMPLEXOMETRIC TITRATION IN ANALYSIS OF ORGANIC PHARMACEUTICALS—
III.THE ASSAY OF ATEBRINE AND ITS PREPARATIONS

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Abstract:

The aqueous solution of Atabrine(hydrochloride salt or methanesulfonate)reacts with potassium cadmium iodide solution to form a crystalline precipitate with the composition $C_{23}H_{32}ON_3Cl.CdI_4 \cdot xH_2O$.The sensitivity is 1:500,000.Based on this fact,a procedure for the assay of Atabrine and its preparations is proposed as follows: Weigh accurately 0.8 milliequivalent of atabrine into a 50 ml volumetric flask,and dissolve in 30 ml distilled water.Add 10 ml of M/10 potassium cadmium iodide solution with continuous shaking and dilute with distilled water to the mark.Mix well and then let stand for 30 minutes with occasional shaking.Filter through a dry filter paper and reject the first 10 ml.filtrate. Pipet 25 ml of the subsequent filtrate into a 125 ml.Erlenmeyer flask,the excess cadmium ion is titrated with M/50 2 Na-EDTA solution by a similar method as described in the authors'previous work. The result obtained by the above method is in agreement with those obtained by the gravimetric method. The interference of magnesium stearate in tablets may be eliminated by the masked and demasked process,therefore,the method can be applied for the assay of atabrine tablets.

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