

论文

快速湿氧化法的研究 I.合成药物中有机碘的含量测定

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摘要:

本文通过较系统的试验,提出了测定有机碘的简便、准确的快速湿氧化法,样品溶液与大量过量的强氧化剂溶液迅速接触,在接近均相的状态下,有机破坏和碘被氧化成碘酸的过程,几乎可以瞬时完成而无需加热。用亚硝酸钠和脲素除去外来的氧化剂后,以碘量法测定,全部操作可在几分钟内完成。测定五种不同类型的有机碘药物的结果与锌还原法一致。

关键词:

STUDIES ON RAPID WET-OXIDATION METHOD— I .THE DETERMINATION OF ORGANICALLY BOUND IODINE IN SYNTHETIC DRUGS

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Abstract:

The new rapid wet-oxidation method using solution of potassium permanganate in concentrated sulphuric acid (method 1) or concentrated sulphuric acid and aqueous solution of potassium permanganate (method 2) for the destruction of organic matter in Erlenmeyer flask is studied. The samples are dissolved in aqueous solution of sulphuric acid or alkalis which can be heated if necessary, and the solution thus formed is treated rapidly with large excess of oxidant. After the excess oxidant is removed by sodium nitrite and urea, the iodic acid formed is determined in original flask iodometrically. In this method, the new oxidant, a solution of potassium permanganate in concentrated sulphuric acid, is used to complete the destruction of organic matter without heating. The method has been applied to 5 different kinds of samples of various iodine contents, giving satisfactory results in good agreements with those by the Zn reduction method.

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